

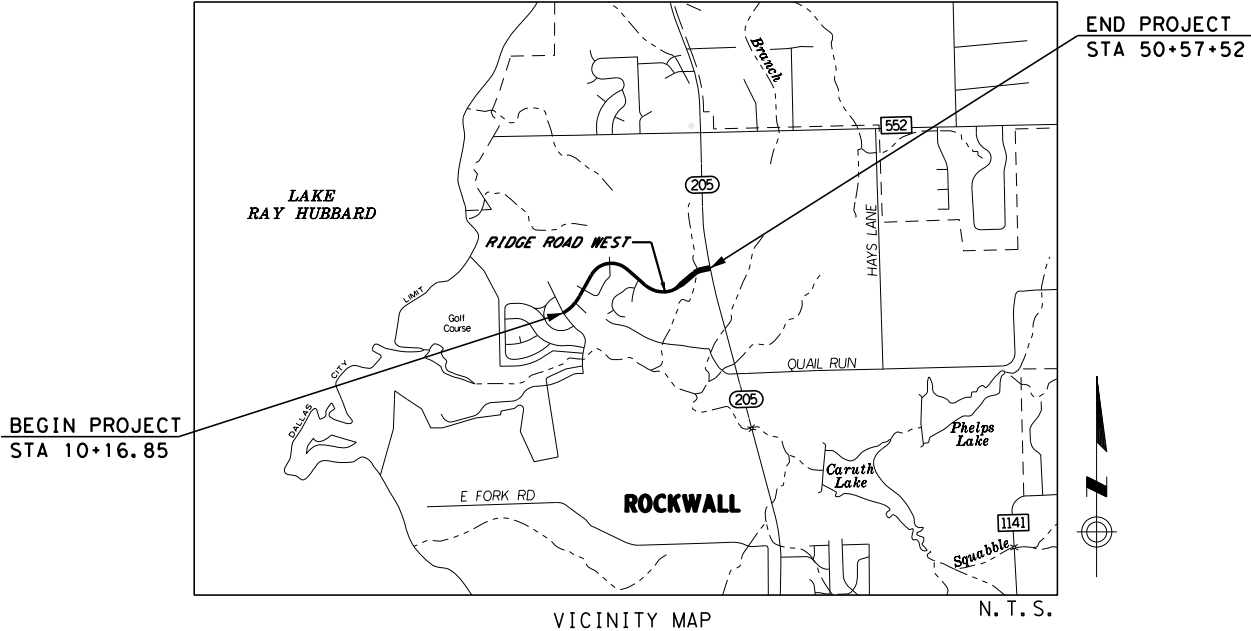
THE CITY OF ROCKWALL, TEXAS

CONSTRUCTION PLANS FOR

RIDGE ROAD WEST

FROM SHORES BOULEVARD TO N. GOLIAD STREET (SH 205)

CIP PROJECT No. TR2018-003



CITY COUNCIL

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GENERAL

1	TITLE SHEET
2-3	GENERAL NOTES
4-8	EXISTING CONDITION PLAN
9-10	TYPICAL SECTIONS
11-12	PROJECT LAYOUT
13-14	SUMMARY OF QUANTITIES

TRAFFIC CONTROL

15	TRAFFIC CONTROL NARRATIVE
16-18	TRAFFIC CONTROL PHASE I
19-21	TRAFFIC CONTROL PHASE II
22-24	TRAFFIC CONTROL PHASE III

ROADWAY

25-29	REMOVAL PLAN
30	CONTROL POINTS & LEGEND
31-34	HORIZONTAL ALIGNMENT DATA
35-44	ROADWAY PLAN & PROFILE
45-48	SIDE STREET PROFILES
49-51	DRIVEWAY AND ALLEY PROFILES
52	FENCE & DRIVEWAY/SIDEWALK PAVER DETAIL

RETAINING WALL DETAILS

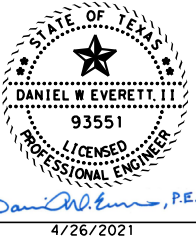
53	CITY OF ROCKWALL DETAILS
54-57D	
58-61	

DRAINAGE

62-63	DRAINAGE AREA MAP
64	DRAINAGE AREA CALCULATIONS
65-66	INLET COMPUTATION DATA
67-69	LINK COMPUTATION DATA
70-78	DRAINAGE PLAN & PROFILE
79-80	DRAINAGE DETAILS
81	DRAINAGE MISCELLANEOUS DETAIL

ENVIRONMENTAL

82-84	SW3P LAYOUT
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THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.

DATE: 4/26/2021

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
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MARCH 2021

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 5TH EDITION AMENDED BY THE CITY OF ROCKWALL. THE CONTRACTOR SHALL REFERENCE THE LATEST CITY OF ROCKWALL STANDARD DETAILS PROVIDED IN THE ROCKWALL ENGINEERING DEPARTMENTS "STANDARDS OF DESIGN AND CONSTRUCTION" MANUAL FOR DETAILS NOT PROVIDED IN THESE PLANS. THE CONTRACTOR SHALL POSSESS ONE SET OF THE NCTCOG STANDARD SPECIFICATIONS AND DETAILS AND THE CITY OF ROCKWALL'S "STANDARDS OF DESIGN AND CONSTRUCTION" MANUAL ON THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION AND PRIMARY CONTROL. ANY SUCH POINTS WHICH THE CONTRACTOR BELIEVES WILL BE DESTROYED SHALL HAVE OFFSET POINTS ESTABLISHED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MONUMENTATION DESTROYED BY THE CONTRACTOR SHALL BE RE-ESTABLISHED AT CONTRACTOR'S EXPENSE BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
3. UPON THE CITIES REQUEST THE CONTRACTOR SHALL PROVIDE SURVEY NORTHINGS, EASTINGS AND ELEVATIONS BY REGISTERED PROFESSIONAL LAND SURVEYOR FOR: ANY EXISTING UTILITIES THAT MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS OF THE CONSTRUCTION PLANS, AND ANY PROPOSED INSTALLATION TO VERIFY IT HAS BEEN INSTALLED PER PLAN. (NO SEPARATE PAYMENT)
4. ANY ITEM CALLED OUT FOR ON THE PLANS THAT DOES NOT HAVE A SPECIFIC BID ITEM SHALL BE SUBSIDIARY TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE GIVEN.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUTS FROM THE SITE LAYOUT CONTROL POINTS, AND FROM THE DIMENSIONS AND CENTERLINES SHOWN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
6. CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER (NO SEPARATE PAYMENT), OR AS APPROVED BY THE CITY AND ENGINEER.
7. CONTRACTOR SHALL VIDEO RECORD AND PROVIDE A COPY TO THE CONSTRUCTION INSPECTOR OF THE ENTIRE JOB SITE BEFORE CONSTRUCTION STARTS. VIDEO RECORD OF THE SITE WILL BE USED TO DISPUTE DISCREPANCIES OF ANY PREEXISTING CONDITIONS OF THE PROJECT SITE BEFORE CONSTRUCTION BEGINS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE REDLINE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS. THE CONTRACTOR SHALL PROVIDE THE CITY FULL SIZE REPRODUCIBLE MARKUPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS. THESE REDLINE CONSTRUCTION PLAN RECORDS SHALL BE SUBMITTED TO THE CITY AT THE END OF THE JOB AND SIGN BY THE CONTRACTOR. THESE RECORDS MUST BE RECEIVED OR THE CITY WILL NOT RELEASE FINAL RETAINAGE OR ACCEPTANCE ON THE JOB.

1. THE CONTRACTOR OR DEVELOPER SHALL BE RESPONSIBLE, AS THE ENTITY EXERCISING OPERATIONAL CONTROL, FOR ALL PERMITTING AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). THIS INCLUDES, BUT NOT LIMITED TO, PREPARATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE CONSTRUCTION SITE NOTICE OF CHANGE (NOC) AND IS REQUIRED TO PAY ALL ASSOCIATED FEES.
2. EROSION CONTROL DEVICES AS SHOWN IN THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES.
3. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. EROSION CONTROL DEVICES SHALL BE PLACED AND IN WORKING ORDER PRIOR TO START OF CONSTRUCTION. CHANGES ARE TO BE REVIEWED BY THE DESIGN ENGINEER AND THE CITY OF ROCKWALL PRIOR TO IMPLEMENTATION.
4. IF THE EROSION CONTROL PLAN AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS APPROVED CANNOT APPROPRIATELY CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT, THE EROSION CONTROL PLAN AND/OR THE SWPPP IS REQUIRED TO BE REVISED AND ANY CHANGES REPORTED TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), WHEN APPLICABLE.
5. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND AFTER ALL MAJOR RAIN EVENTS, OR MORE FREQUENTLY AS DICTATED IN THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL PROVIDE COPIES OF INSPECTION'S REPORTS TO THE ENGINEERING INSPECTOR AFTER EACH INSPECTION.
6. THE CONTRACTOR SHALL NOT DISPOSE OF WASTE AND ANY MATERIALS INTO STREAMS, WATERWAYS OR FLOODPLAINS. THE CONTRACTOR SHALL SECURE ALL EXCAVATION AT THE END OF EACH DAY AND DISPOSE ALL EXCESS MATERIALS. DISPOSAL SITE SHALL BE DOCUMENTED AND PROVIDED TO THE CITY.
7. CONTRACTOR SHALL GRADE GROUND AND DITCHES DISTURBED BY CONSTRUCTION TO PREVENT PONDING AND STORM WATER RUNOFF. GRADING SHALL BE SUBSIDIARY TO THE APPROPRIATE BID ITEM FOR UNCLASSIFIED STREET AND UNCLASSIFIED CHANNEL EXCAVATION. TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 6-INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4-INCHES (NO PAY ITEM). CONTRACTOR SHALL REPLACE GRASS AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH SOLID SOD. SODDED AREAS SHALL BE WATERED AND MAINTAINED UNTIL ESTABLISHED.
8. THE CONTRACTOR SHALL PROVIDE 4-INCHES OF TOP SOIL IN ALL PARKWAYS THAT ARE TO BE SODDED. TOP SOIL SHALL BE APPROVED BY THE CITY IN WRITING. TOPSOIL SHALL BE SUBSIDIARY TO PLACEMENT OF GRASS/SOD.
9. ALL AREAS OUTSIDE PAVEMENT DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE TILLED 6-INCHES AND TOPPED WITH CLEAN TOP SOIL TO FINAL GRADE AND HAVE GRASS SOD ESTABLISHED IMMEDIATELY. SOD SHALL MATCH EXISTING YARD TYPE. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE BID SCHEDULE ITEM. AREAS DISTURBED OUTSIDE THE R.O.W. OR LIMITS OF CONSTRUCTION SHALL HAVE GRASS SOD ESTABLISHED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

1. REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND FRANCHISE UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE FRANCHISE UTILITIES OR UTILITY LINE, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LIKE, WHICH ARE EXPOSED BY THE CONSTRUCTION OPERATION.
2. EXISTING FRANCHISE UTILITIES SHOWN IN THESE PLANS REFLECT APPROXIMATE LOCATIONS PRIOR TO RELOCATIONS. SOME LOCATIONS HAVE OCCURRED WITH THE UTILITY POLE, GAS, PHONE AND CABLE UTILITIES. THE CONTRACTOR SHALL CONTACT 811/DIG-TESS TO LOCATE EXISTING AND NEW UTILITIES NOT SHOWN ON PLANS.
3. CONTRACTOR SHALL SUPPORT UTILITIES WHERE CROSSING WITH PROPOSED STORM SEWER, WATER LINES AND SANITARY SEWERS. METHOD OF SUPPORT SHALL BE PROVIDED TO THE OWNER 24 HOURS PRIOR TO CROSSING.

4. THE LOCATION OF ALL ATMOS GAS LINES, AT&T, CHARTER/SPECTRUM AND TXU/ONCOR ELECTRIC UNDERGROUND PHONE LINES IN THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT ATMOS, TXU/ONCOR, AT&T AND CHARTER/SPECTRUM TO VERIFY LOCATION AND DEPTH OF ALL EXISTING GAS, ELECTRIC AND PHONE LINES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL HAVE AND PAY FOR TXU/ONCOR, AT&T AND /OR CHARTER/SPECTRUM SUPPORT AND PROTECT ALL POWER, GUT WIRES OR CABLE AND/OR LIGHT POLES IN THE WORK AREA.
6. ANY DAMAGE INCURRED TO EXISTING FRANCHISE UTILITIES, APPURTENANCES, UTILITY POLE, LIGHT STANDARDS, ETC. BY CONSTRUCTION RELATED ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

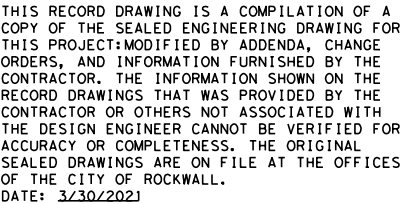
1. A SUGGESTED TRAFFIC CONTROL SEQUENCE PLAN IS PROVIDED IN THE PLAN SET. AT A MINIMUM THE CONTRACTOR WILL BE REQUIRED TO USE THE SUGGESTED SEQUENCE PLAN. IF THE CONTRACTOR CHOOSES TO CHANGE THE TRAFFIC CONTROL SEQUENCING, A TRAFFIC CONTROL SEQUENCING PLAN AND TRAFFIC CONTROL SHEETS OF EACH PHASE WILL HAVE TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE CITY. ALL SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER WITH THE STATE OF TEXAS.
2. ALL NEW DETOUR OR TRAFFIC CONTROL PLANS NEED TO BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL A MINIMUM OF 21 CALENDAR DAYS PRIOR TO PLANNED DAY IMPLEMENTATION.
3. CONTRACTOR SHALL NOTIFY THE CITY 14 CALENDAR DAYS PRIOR TO CHANGING DETOURING AND TRAFFIC CONTROL FOR EACH PHASE AND SEGMENT. THIS IS TO GIVE TIME FOR CONTRACTOR TO PLACE MESSAGE BOARDS FOR WARNING OF DETOUR CHANGE AND FOR CITY NOTIFICATION TO OTHER DEPARTMENTS, EMERGENCY SERVICES, MAIL DELIVERY, SCHOOL DISTRICT, AND TRASH SERVICES.
4. PEDESTRIAN AND VEHICULAR TRAFFIC FLOW, SAFETY AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, PART IV IN PARTICULAR. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON THE PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PUBLIC SAFETY IN THE CONSTRUCTION AREA DURING THE DURATION OF CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL NECESSARY TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (PART 6). THE CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES AT ALL TIMES DURING EACH PHASE OF CONSTRUCTION TO ALL LOCAL RESIDENTS, BUSINESSES, MAIL SERVICES, TRASH PICK-UP AND EMERGENCY SERVICES.
6. NO TRAFFIC SIGNS SHALL BE TAKEN DOWN WITHOUT PERMISSION FROM THE CITY. IF THE CONTRACTOR NEEDS TO REMOVE AND REPLACE TRAFFIC SIGNS FOR CONSTRUCTION PURPOSES SHALL BE PAID FOR UNDER TRAFFIC CONTROL BID ITEM.
7. CONTRACTOR WILL FURNISH AND INSTALL ALL SIGNAGE IN ACCORDANCE WITH TMUTCD GUIDELINES. PRIOR TO INSTALLATION OF SIGNAGE, THE CONTRACTOR SHALL STAKE LOCATIONS AND RECEIVE APPROVAL FROM CITY IN LOCATIONS. ALL SIGNAGE THAT IS REMOVED BY THE CONTRACTOR SHALL BE SAVED AND DELIVERED TO MUNICIPAL SERVICE CENTER, STREETS DIVISION. ALL REPLACED SIGNS SHALL BE NEW. SEE CITY REQUIREMENTS FOR SIGN MATERIALS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, SCHEDULING AND TEMPORARY EQUIPMENT THAT IS NEEDED FOR ALL TEMPORARY TRAFFIC SIGNAL MODIFICATIONS DURING CONSTRUCTION TRAFFIC CONTROL PHASING. (SUBSIDIARY TO ALL TRAFFIC CONTROL PAY ITEMS)
9. TRAFFIC CONTROL TEMPORARY ASPHALT PAVEMENT AND STEEL PLATES ARE SUBSIDIARY TO TRAFFIC CONTROL PAY ITEMS.

1. EXISTING MAILBOXES IN CONFLICT WITH CONSTRUCTION SHALL BE TEMPORARILY TAKEN OUT OF SERVICE. WHERE POSSIBLE THE CONTRACTOR SHALL ATTEMPT TO MOVE AND RESET THE SAME MAILBOX. WHEN NOT POSSIBLE TO REUSE THE OLD MAILBOX, THE MAILBOX SHALL BE REMOVED AND REPLACED TO THE SAME OR BETTER CONDITION AND PLACED IN A LOCATION APPROVED BY THE CITY/PROPERTY OWNER. PHOTOGRAPHS OF THE MAILBOXES SHALL BE TAKEN WITH THE ADDRESS SHOWN, SHALL BE PROVIDED TO THE CITY PRIOR TO BEING REMOVED.
2. CONTRACTOR MUST DOCUMENT MATERIALS AND INVENTORY (INCLUDING PICTURES) ALL EXISTING MAILBOXES AND SIDEWALKS FOR REPLACEMENT.
CONTRACTOR MUST DOCUMENT MATERIALS AND INVENTORY (INCLUDING PICTURES) ALL EXISTING LEADWALKS TO RESIDENTS FOR REPLACEMENT.
3. PAYMENT FOR REMOVAL AND REPLACEMENT OF EXISTING MAILBOX WILL BE PAID FOR UNDER THE APPROPRIATE BID ITEM. BRICK MAILBOX SHALL MATCH EXISTING BRICK.
4. TEMPORARY MAILBOX SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE PROJECT WHERE EXISTING MAIL BOXES ARE BEING REMOVED. ADDRESSES SHALL BE PROVIDED ON ALL TEMPORARY MAIL BOXES. (NO SEPARATE PAYMENT)
5. TRASH SERVICE SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. ON COLLECTION DAYS THE CONTRACTOR SHALL MOVE TRASH AND RECYCLING RECEPTACLES TO LOCATION ALONG STREET TO BE COLLECTED AND MOVED BACK TO ORIGINAL LOCATION AT THE END OF EACH DAY. (NO SEPARATE PAYMENT)

1. THE REMOVAL, REPLACEMENT OR RECONSTRUCTION OF ANY FENCE FOR THE CONVENIENCE OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE (NO SEPARATE PAYMENT). NEW MATERIALS SHALL MATCH EXISTING FENCES. ALL WOOD FENCES SHALL BE REPLACED WITH NEW CEDAR WITH THE POST MATCHING CITY REQUIREMENTS
2. TEMPORARY FENCING SHALL BE REQUIRED WHERE THERE IS EVIDENCE OF LIVESTOCK AND WHERE DAMAGED OR REMOVED FENCES ARE NOT TO BE REPLACED BY THE END OF THE SAME WORK DAY.
3. THE REMOVAL AND REPLACEMENT OF ALL SHRUBS, PLANTS, TREES, ETC. FOR THE CONVENIENCE OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE (NO SEPARATE PAYMENT). NEW SHRUBS, TREE, ETC. SHALL BE EQUAL TO OR BETTER THAN EXISTING ONES.
4. ALL SHRUBS, PLANTS, TREES, ETC. MUST BE APPROVED BY THE CITY BEFORE REMOVAL.
5. CONTRACTOR SHALL REPLACE ANY TREES REMOVED OR DESTROYED THAT ARE NOT SHOWN IN THESE PLANS TO BE REMOVED OR SHALL PAY FAIR MARKET VALUE TO THE OWNER AS DETERMINED BY THE OWNER. (NO SEPARATE PAYMENT)
6. THE CONTRACTOR SHALL MOVE IRRIGATION SYSTEMS THAT ARE IN THE WAY OF PROPOSED PAVEMENT IMPROVEMENTS AND RETURN TO PROPER WORKING ORDER. (NO SEPARATE PAYMENT)

7. THE CONTRACTOR SHALL LOCATE AND RECORD EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION. IF IRRIGATION SYSTEMS ARE DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL REPAIR TO SAME OR BETTER CONDITION. AN IRRIGATOR LICENSED IN THE STATE OF TEXAS SHALL REPAIR ALL DAMAGED CAUSED BY CONSTRUCTION. CONTRACTOR SHALL COORDINATE ANY IRRIGATION WORK WITH THE CITY OF ROCWALL AND PROPERTY OWNER'S REPRESENTATIVES. (NO SEPARATE PAYMENT)
8. IF AN IRRIGATION SYSTEM IS DAMAGED BETWEEN THE MONTHS OF MARCH AND OCTOBER THE CONTRACTOR SHALL REPAIR THE SYSTEM BACK TO WORKING ORDER WITHIN ONE WEEK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPING, TREES, SHRUBS, FOUNDATIONS, ETC. DUE TO THE LACK OF NON-WORKING IRRIGATION SYSTEMS. (NO SEPARATE PAYMENT)

1. REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION AND TYPE OF ALL KNOWN CITY OF ROCKWALL UNDERGROUND WET UTILITIES AND SERVICE LINES. HOWEVER, THE CITY OF ROCKWALL ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING CITY OF ROCKWALL UNDERGROUND WET UTILITIES AND SERVICE LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LIKE, WHICH ARE EXPOSED BY THE CONSTRUCTION OPERATION.
2. BIDDERS SHALL MAKE ANY INVESTIGATION OF EXISTING SUBSURFACE CONDITIONS AS DEEMED NECESSARY AT NO EXPENSE TO THE CITY OF ROCKWALL. NEITHER THE CITY OF ROCKWALL NOR THE ENGINEER WILL BE RESPONSIBLE IN ANY WAY FOR ADDITIONAL COMPENSATION FOR EXCAVATION WORK PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S ASSUMPTIONS.
3. CONTRACTOR SHALL ADJUST ALL CITY OF ROCKWALL UTILITIES TO THE FINAL GRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICE LINES CROSSED OR EXPOSED BY CONSTRUCTION OPERATIONS. WHERE EXISTING SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SERVICE LINE WITH THE SAME TYPE OF ORIGINAL CONSTRUCTION OR BETTER.
5. THE CONTRACTOR SHALL EXCAVATE AND FIELD LOCATE THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITY CROSSING LOCATIONS UTILIZING PROVIDED PROJECT CONTROL. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES IDENTIFIED BETWEEN THE CONTRACTOR'S FIELD VERIFIED EXISTING UTILITY LOCATION AND PROPOSED LOCATION OF UTILITIES FOR THE PROJECT.
6. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING EXCAVATION. THE CONTRACTOR SHALL PROVIDE DETAILED PLANS AND SPECIFICATIONS FOR TRENCH SAFETY SYSTEMS THAT COMPLY WITH APPLICABLE LAWS GOVERNING EXCAVATION. THESE PLANS SHALL BE SEALED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF TRENCH SAFETY SYSTEMS, REGISTERED IN THE STATE OF TEXAS. THE CONTRACTOR SHALL SUBMIT COMPLETE TRENCH SAFETY PLAN TO THE ENGINEER AND CITY PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF WORK RELATED TO EXCAVATIONS.
7. DEWATERING OF UTILITY TRENCHES, BORE PITS, AND ANY OTHER EXCAVATIONS SHALL BE NO SEPARATE PAYMENT AND SHALL BE SUBSIDIARY TO THE OTHER PAY ITEMS ON THE PROJECT.



1. THE CONTRACTOR SHALL MAINTAIN EXISTING WATER SERVICE AT ALL TIMES DURING CONSTRUCTION.
2. PROPOSED WATER LINES SHALL BE AWWA C900-16 PVC PIPE (BLUE COLOR) FOR ALL SIZES, DR 14 (PC 305) FOR PIPELINES SIZES 12-INCH AND SMALLER, AND DR 18 (PC 235) FOR 14-INCH AND LARGER WATER PIPELINES UNLESS OTHERWISE SHOWN ON WATER PLAN AND PROFILE SHEETS. PROPOSED WATER LINES SHALL BE CONSTRUCTED WITH MINIMUM COVER OF 4-FEET FOR 6-INCH THROUGH 8-INCH, 5-FEET FOR 12-INCH THROUGH 18-INCH AND 6-FEET FOR 20-INCH AND LARGER.
3. PROPOSED WATER LINE EMBEDMENT SHALL BE NCTOG CLASS 'B-3' AS AMENDED BY THE CITY OF ROCKWALL'S PUBLIC WORKS STANDARD OF DESIGN AND CONSTRUCTION MANUAL.
4. CONTRACTOR SHALL COORDINATE THE SHUTTING DOWN OF ALL WATER LINES WITH THE CITY OF ROCKWALL, PUBLIC WORKS, WATER DIVISION. THE CITY SHALL OPERATE ALL WATER VALVES.
5. CONTRACTOR SHALL FURNISH AND INSTALL GASKET ON WATER LINES BETWEEN ALL DISSIMILAR METALS AND AT VALVES (BOTH EXISTING AND PROPOSED).
6. ALL FIRE HYDRANTS AND VALVES REMOVED AND SALVAGED SHALL BE RETURNED TO THE CITY OF ROCKWALL MUNICIPAL SERVICE CENTER.
7. BLUE EMS PAD SHALL BE INSTALLED AT EVERY CHANGE IN DIRECTION, VALVE, CURB STOP AND SERVICE TAP ON THE PROPOSED WATER LINE AND EVERY 250'.
8. CONTRACTOR TO INSTALL NEW METER BOXES, ALL FITTINGS AND NEW METERS PER EACH SERVICE COMPLETE INCLUDING CONNECTION TO THE MAIN LINE. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH UTILITY BILLING 972-771-7736 ON WHICH METERS NEED TO BE REPLACED AND WHICH METERS ARE TO REMAIN FOR THE PROJECT. NEW METERS WILL BE SUPPLIED BY THE UTILITY BILLING DEPARTMENT. CONTRACTOR SHALL GIVE THE UTILITY BILLING DEPARTMENT AMPLE NOTICE TO MAKE SURE METERS ARE ON HAND TO BE INSTALLED FOR THE PROJECT.
9. EXISTING METER AND METER BOXES, AND VALVE STEM AND COVERS NOT SPECIFICALLY CALLED TO BE RELOCATED SHALL BE ADJUSTED TO MATCH FINAL GRADES (NO SEPARATE PAYMENT ITEM). ANY METER IN PAVEMENT SHALL HAVE A TRAFFIC RATED LID.
10. ALL WATER VALVE EXTENSIONS, BOLTS, NUTS AND WASHERS SHALL BE 316 STAINLESS STEEL.
11. ALL FIRE HYDRANTS BOLTS, NUTS AND WASHERS THAT ARE BURIED SHALL BE 316 STAINLESS STEEL.
12. ABANDONED WATER LINES TO REMAIN IN PLACE SHALL BE CUT AND PLUGGED AND ALL VOID SPACES WITHIN THE ABANDONED LINE SHALL BE FILLED WITH GROUT, FLOWABLE FILL OR AND EXPANDABLE PERMANENT FOAM PRODUCT. VALVES TO BE ABANDONED IN PLACE SHALL HAVE ANY EXTENSIONS AND THE VALVE BOX REMOVED AND SHALL BE CAPPED IN CONCRETE.

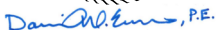
1. CONTRACTOR SHALL MAINTAIN EXISTING WASTEWATER SERVICE AT ALL TIMES DURING CONSTRUCTION.
2. WASTEWATER LINE FOR 4-INCH THROUGH 15-INCH SHALL BE GREEN PVC-SDR 35 (ASTM D3034) [LESS 10 FT COVER] AND SDR 26 (ASTM D3034) [10 FT OR MORE COVER]. FOR 18-INCH AND LARGER WASTEWATER LINE SHALL BE GREEN PVC-PS 46 (ASTM F679) [LESS 10 FT COVER] AND PS 115 (ASTM F679) [10 FT OR MORE COVER].
3. PROPOSED WASTEWATER LINE EMBEDMENT SHALL BE NCTCOG CLASS 'H' AS AMENDED BY THE CITY OF ROCKWALL'S PUBLIC WORKS STANDARD DESIGN AND CONSTRUCTION MANUAL.
4. GREEN EMS PADS SHALL BE INSTALLED AT EVERY 250', MANHOLE, CLEAN OUT AND SERVICE LATERAL ON PROPOSED WASTEWATER LINES.
5. ALL EXISTING WASTEWATER SERVICES SHALL BE TRANSFERRED FROM WASTEWATER LINES BEING ABANDONED TO PROPOSED WASTEWATER LINES. TRANSFERRING WASTEWATER SERVICES SHALL INCLUDE DOUBLE CLEAN OUTS AT THE PROPERTY LINES, CAPS, TEES, WYES, PLUGS AND CONNECTION. PAYMENT FOR TRANSFERRING WASTEWATER SERVICES SHALL BE PAID PER EACH, UNDER THE APPROPRIATE BID SCHEDULE ITEM.
6. CONTRACTOR SHALL CCTV ALL EXISTING WASTEWATER LINES THAT ARE TO BE ABANDONED TO ENSURE THAT ALL LATERALS ARE ACCOUNTED FOR AND TRANSFERRED TO PROPOSED WASTEWATER LINES. (NO SEPARATE PAYMENT)
7. ALL ABANDONED WASTEWATER AND FORCE MAIN LINES SHALL BE CUT AND PLUGGED AND ALL VOID SPACES WITHIN THE ABANDONED LINE SHALL BE FILLED WITH GROUT, FLOWABLE FILL OR AN EXPANDABLE PERMANENT FOAM PRODUCT.
8. EXISTING MANHOLES AND CLEANOUTS NOT SPECIFICALLY CALLED TO BE RELOCATED SHALL BE ADJUSTED TO MATCH FINAL GRADES (NO SEPARATE PAYMENT).
9. ALL WASTEWATER PIPES AND PUBLIC SERVICES SHALL BE INSPECTED BY PHOTOGRAPHIC MEANS (TELEVISION AND DVD) PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH A DVD TO THE ENGINEERING DIVISION CONSTRUCTION INSPECTOR FOR REVIEW. ANY SAGS, OPEN JOINTS, CRACKED PIPES, ETC. SHALL BE REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE. A TELEVISION SURVEY WILL BE PERFORMED AS PART OF FINAL TESTING IN THE TWENTIETH (20TH) MONTH OF THE MAINTENANCE PERIOD.
10. ALL MANHOLES (PUBLIC OR PRIVATE) SHALL BE FITTED WITH INFLOW PREVENTION. THE INFLOW PREVENTION SHALL CONFORM TO THE MEASURES CALLED OUT IN STANDARD DETAIL R-5031.
11. ALL NEW OR EXISTING MANHOLES BEING MODIFIED SHALL HAVE CORROSION PROTECTION BEING RAVEN LINER 405 EPOXY COATING, CONSHIELD, OR APPROVED EQUAL. CONSHIELD MUST HAVE TERRACOTTA COLOR DYE MIXED IN THE PRECAST AND CAST-IN-PLACE CONCRETE. WHERE CONNECTIONS TO EXISTING MANHOLES ARE MADE THE CONTRACTOR SHALL REHAB MANHOLE AS NECESSARY AND INSTALL A 125 MIL THICK COATING OF RAVEN LINER 405 OR APPROVED EQUAL.

1. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL EXISTING CONCRETE AND HMAC PAVEMENT OUTSIDE OF THE CITY LIMITS AS REQUIRED FOR CONSTRUCTION OF THE PROJECT. ALL COST SHALL BE INCLUDED IN THE APPROPRIATE ITEM IN THE BID SCHEDULE.
2. PAYMENTS FOR REMOVAL AND REPLACEMENT OF STREET, DRIVEWAY AND SIDEWALK PAVEMENT SHALL BE BASED ON PLAN QUANTITY AND NO ADJUSTMENTS WILL BE MADE UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
3. ALL PAVEMENT TO BE REMOVED AND REPLACED SHALL BE SAW CUT TO FULL DEPTH ALONG NEAT LINES SHOWN IN THE PLANS. PROPOSED CONCRETE PAVEMENT SHALL BE CONSTRUCTED WITH LONGITUDINAL BUTT CONSTRUCTION JOINTS AT ALL CONNECTIONS TO EXISTING CONCRETE PAVEMENT. CONCRETE PAVEMENT TO BE REMOVED AND REPLACED SHALL BE FULL PANEL REPLACEMENT.
4. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS WORK SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS MATERIALS FROM EXCAVATION INCLUDE DIRT, TRASH, ROCK MEASURING GREATER THAN 6" IN THE LARGEST DIMENSION, ETC. SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO THE CITY OF ROCKWALL IF WITHIN THE CITY LIMITS. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE CITY OF ROCKWALL. IF THE CONTRACTOR PLACES EXCESS MATERIALS IN THESE AREA WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH FILL AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST.
5. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED. IF SOILS BORINGS WERE CONDUCTED THEY ARE PROVIDED IN THE BID/CONTRACT DOCUMENTS.

1. ALL PAVING ROADWAY SECTIONS THICKNESS, STRENGTH, REINFORCEMENT, JOINT TYPE, JOINT SPACING AND SUBGRADE TREATMENT SHALL MATCH THE TYPICAL SECTIONS AND DETAILS CALLED OUT IN THE PLANS. IF NOT CALLED OUT ON THE PLANS ALL CONCRETE PAVING SHALL CONFORM TO THE MINIMUM REQUIREMENTS IN THE STANDARDS OF DESIGN AND CONSTRUCTION.
2. REINFORCING STEEL SHALL BE TIED (100%). REINFORCING STEEL SHALL BE SET ON PLASTIC CHAIRS. BAR LAPS SHALL BE MINIMUM 30 DIAMETERS. SAWED TRANSVERSE DUMMY JOINTS SHALL BE SPACED EVERY 15 FEET OR 1.25 LONGITUDINAL BUTT JOINT SPACING WHICHEVER IS LESS. SAWING SHALL OCCUR WITHIN 5 TO 12 HOURS AFTER THE POUR, INCLUDING SEALING. OTHERWISE, THE SECTION SHALL BE REMOVED AND LONGITUDINAL BUTT JOINT CONSTRUCTED.
3. ALL PROPOSED HMAC STREET PAVEMENT SHALL CONSIST OF 4 INCHES OF TYPE B (BASE) WITH 2 INCHES OF TYPE D (SURFACE) ON TOP OF 6-INCH FLEX BASE (IF NOT SPECIFIED IN THE PLANS)
4. NO SAND SHALL BE ALLOWED UNDER ANY PAVING.
5. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.
6. FLY ASH MAY BE USED IN CONCRETE PAVEMENT LOCATIONS PROVIDED THAT THE MAXIMUM CEMENT REDUCTION DOES NOT EXCEED 20% BY WEIGHT PER C.Y. OF CONCRETE. THE FLY ASH REPLACEMENT SHALL BE 1.25 LBS PER 1.0 LB CEMENT REDUCTION.
7. ALL CURB AND GUTTER SHALL BE INTEGRAL (MONOLITHIC) WITH THE PAVEMENT.
8. ALL FILL SHALL BE COMPACTED BY SHEEP'S FOOT ROLLER TO A MINIMUM 95% STANDARD PROCTOR. MAXIMUM LOOSE LIFT FOR COMPACTION SHALL BE 8-INCHES. ALL LIFTS SHALL BE TESTED FOR DENSITY BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY.
9. ALL PROPOSED SIDEWALKS SHALL INCLUDE BARRIER FREE RAMPS AT INTERSECTING STREETS, ALLEYS, ETC. BARRIER FREE RAMPS SHALL MEET CURRENT ADA REQUIREMENTS AND BE APPROVED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
10. SIDEWALKS SHALL BE DOWELED INTO PAVEMENT WHERE IT ABUTS CURB AND DRIVEWAYS. EXPANSION JOINT MATERIAL SHALL BE USED AT THESE LOCATIONS (NO SEPARATE PAYMENT).
11. ALL CONNECTION OF PROPOSED CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT SHALL INCLUDE A LONGITUDINAL BUTT JOINT AS THE LOAD TRANSFER DEVICE. CONCRETE SAW CUTS FOR ALL DRIVEWAYS AND SIDEWALKS SHALL BE SUBSIDIARY TO THE APPROPRIATE BID ITEM FOR DRIVEWAYS AND SIDEWALK REPLACEMENT. ALL LONGITUDINAL BUTT JOINTS SHALL BE CLEAN, STRAIGHT AND SMOOTH (NOT JAGGED IN APPEARANCE).
12. THERE SHALL BE NO SEPARATE PAYMENT FOR SUBGRADE PREPARATION UNDER DRIVEWAY AND SIDEWALK AREAS AND ALL COST SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF THE BID SCHEDULE.
13. CRACKS FORMED IN CONCRETE PAVEMENT SHALL BE REPAIRED OR REMOVED BY THE CONTRACTOR AT THE CITY'S DISCRETION.

1. CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF WATER IN STREETS, DRIVES, TRENCHES, ETC. WILL NOT BE ALLOWED. EXISTING DRAINAGE WAYS SHALL NOT BE BLOCKED OR REMOVED UNLESS EXPLICITLY STATED IN PLANS OR WRITTEN APPROVAL IS GIVEN BY THE CITY.
2. ALL STRUCTURAL CONCRETE SHALL BE 4200 PSI COMPRESSIVE STRENGTH AT 28 DAYS MINIMUM 7.0 SACK, AIR ENTRAINED, UNLESS NOTED OTHERWISE.
3. PROPOSED STORM SEWER EMBEDMENT SHALL BE NCTCOG CLASS 'B' AS AMENDED BY THE CITY OF ROCKWALL'S PUBLIC WORKS, ENGINEERING DIVISION STANDARDS OF DESIGN AND CONSTRUCTION MANUAL.
4. ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, UNLESS OTHERWISE NOTED.
5. ALL DRAINAGE STRUCTURES SHALL BE DOUBLE FORMED. NO EARTH FORMS WILL BE ALLOWED.

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DATE: 3/30/2021



3/30/2021

REV NO	DATE	DESCRIPTION	BY



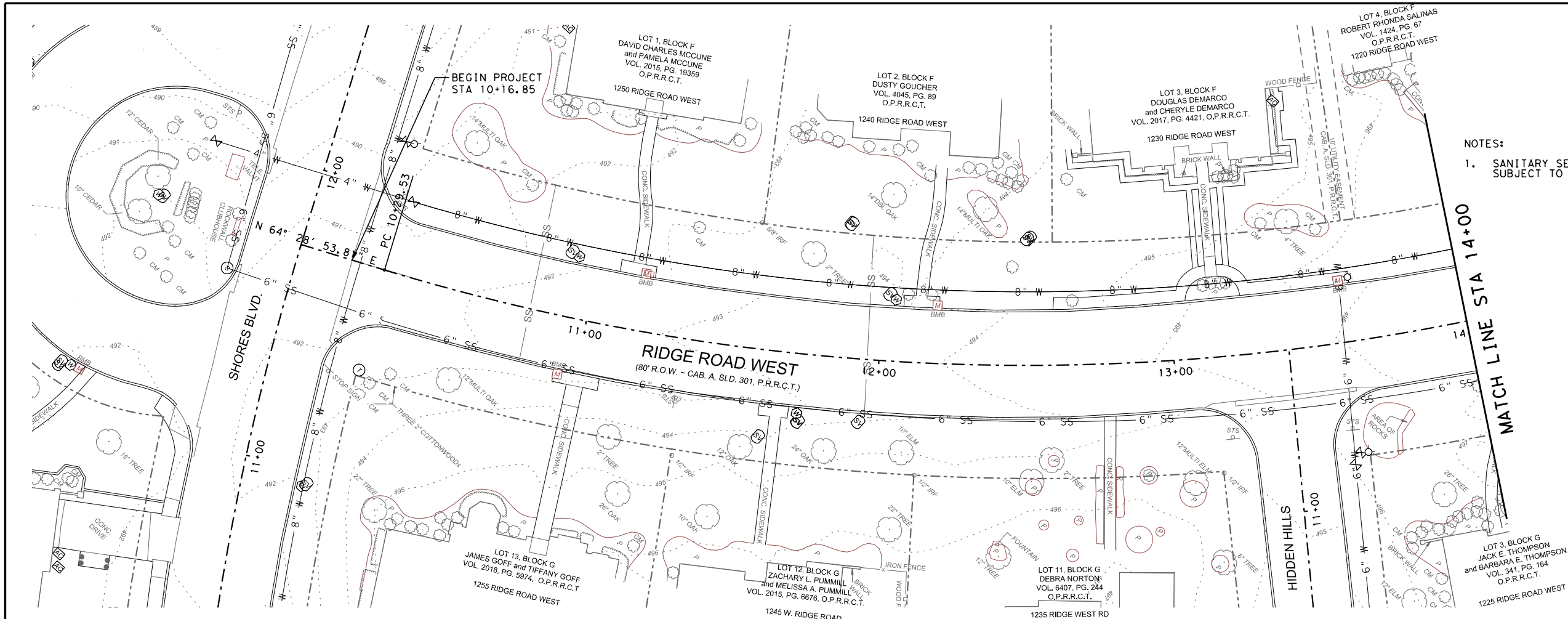
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
 3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2000

ROCKWALL COUNTY, TEXAS

SHEET 2 OF 2

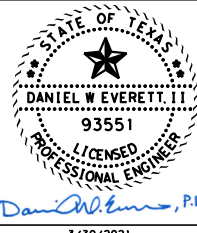
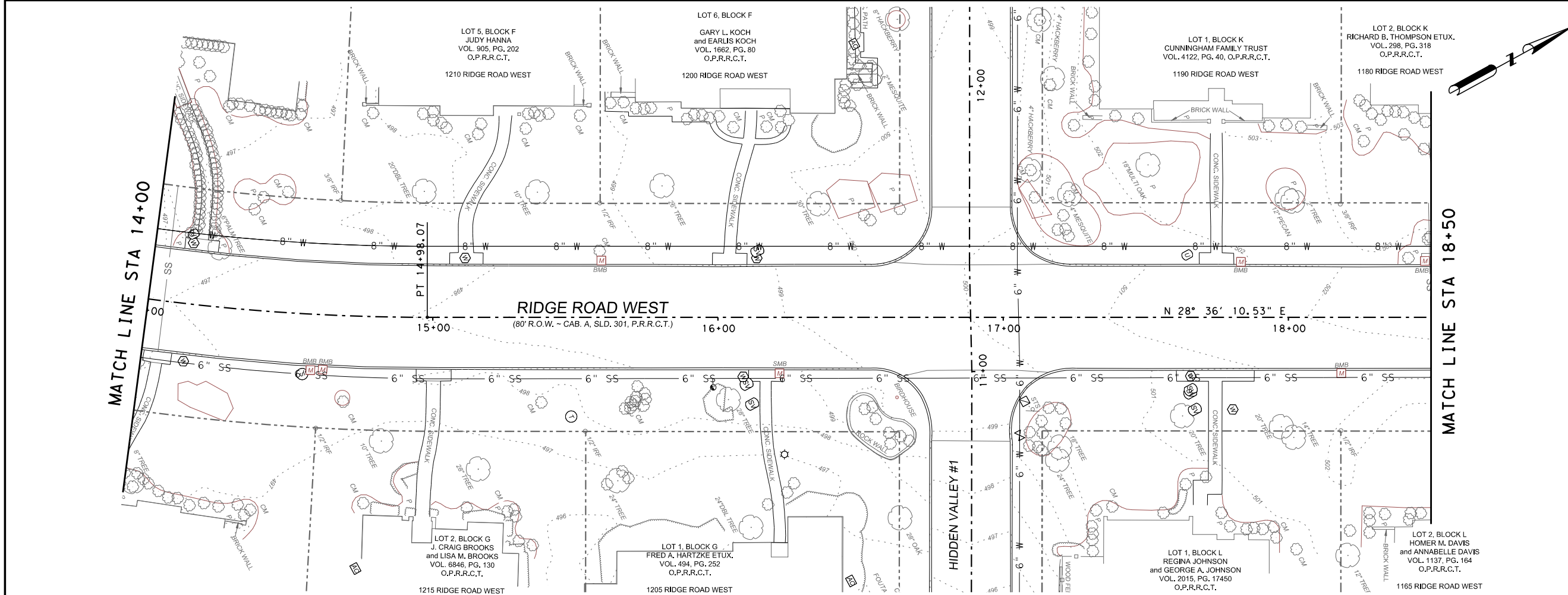
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NOTES:
1. SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE AND SUBJECT TO CONTRACTOR VERIFICATION.

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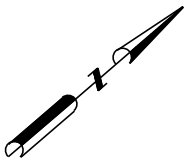
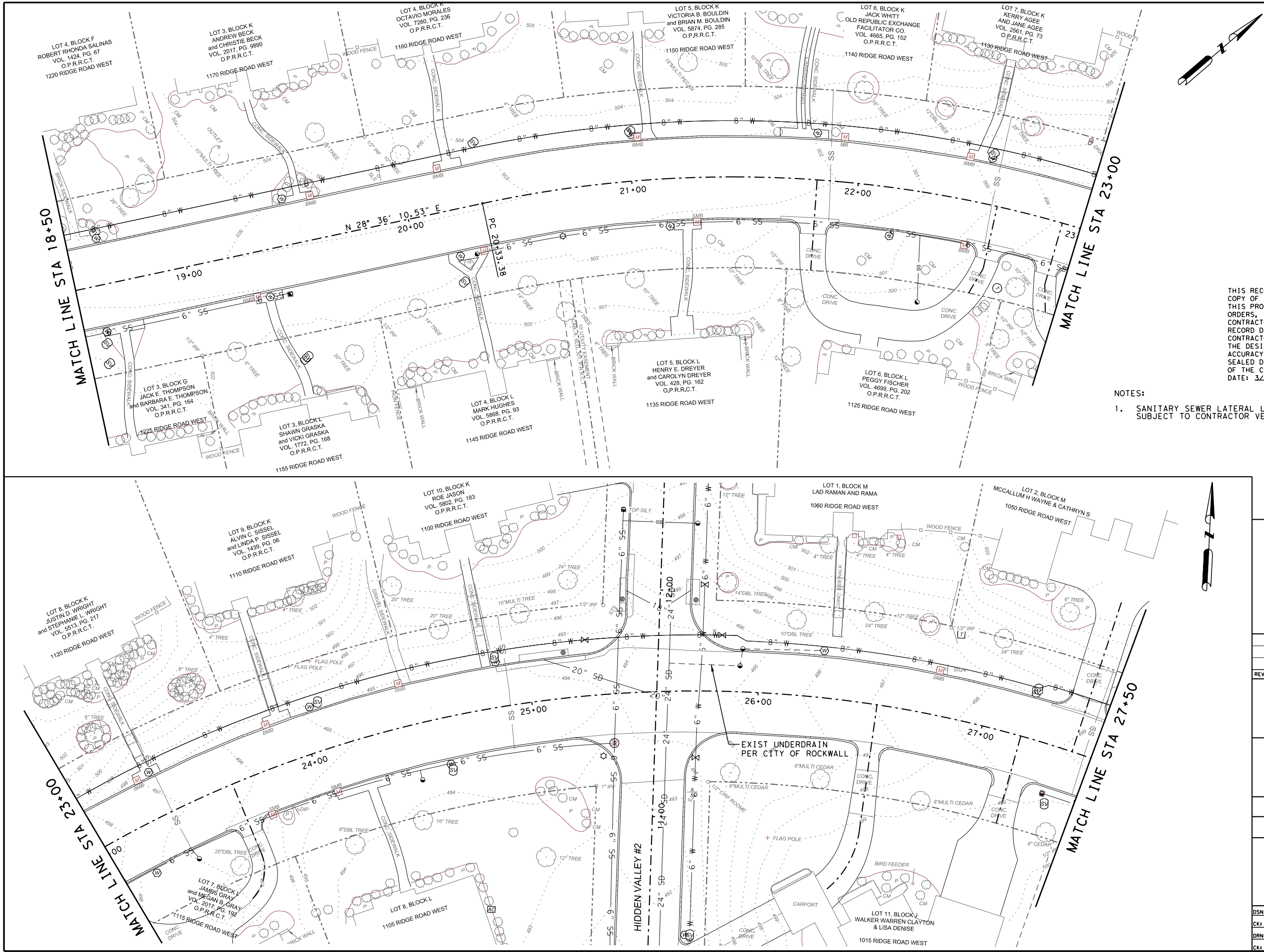
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
EXISTING CONDITION

SHEET 1 OF 5			
DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.	
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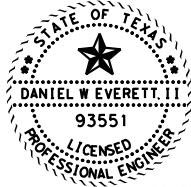
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REV NO	DATE	DESCRIPTION	BY



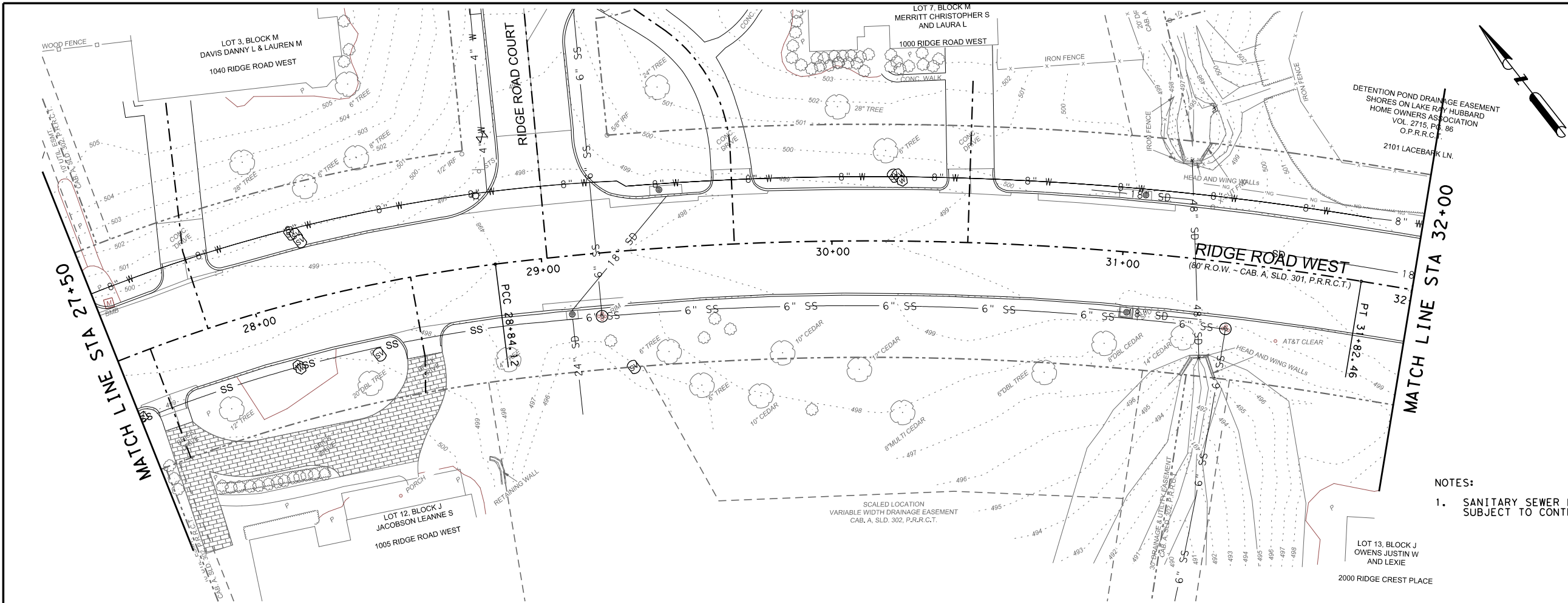
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ENGINEERING COMPANY - DALLAS, LLC
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CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
EXISTING CONDITION

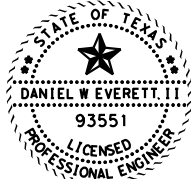
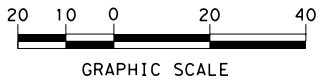
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DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'	SHEET NO.
CK: JMG DATE: 10/17/2023	VERT:	5



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- NOTES:
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3/30/2021

REV NO	DATE	DESCRIPTION	BY



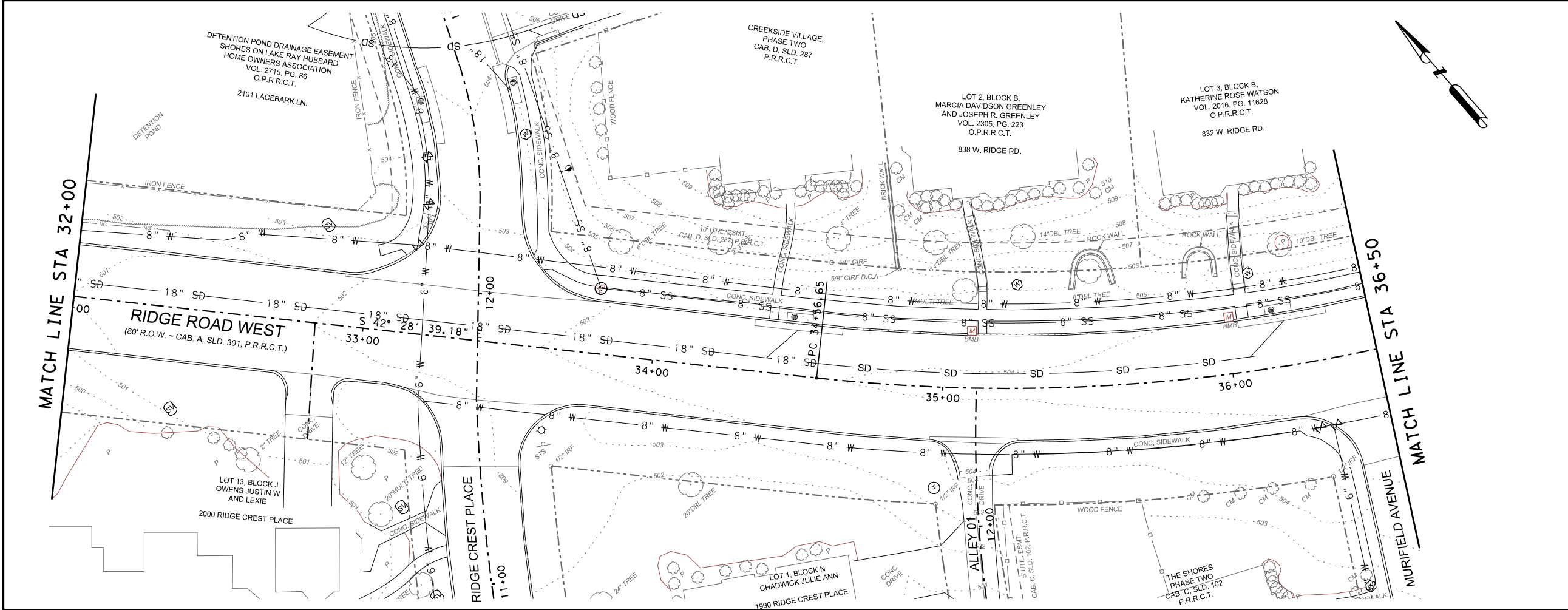
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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
EXISTING CONDITION

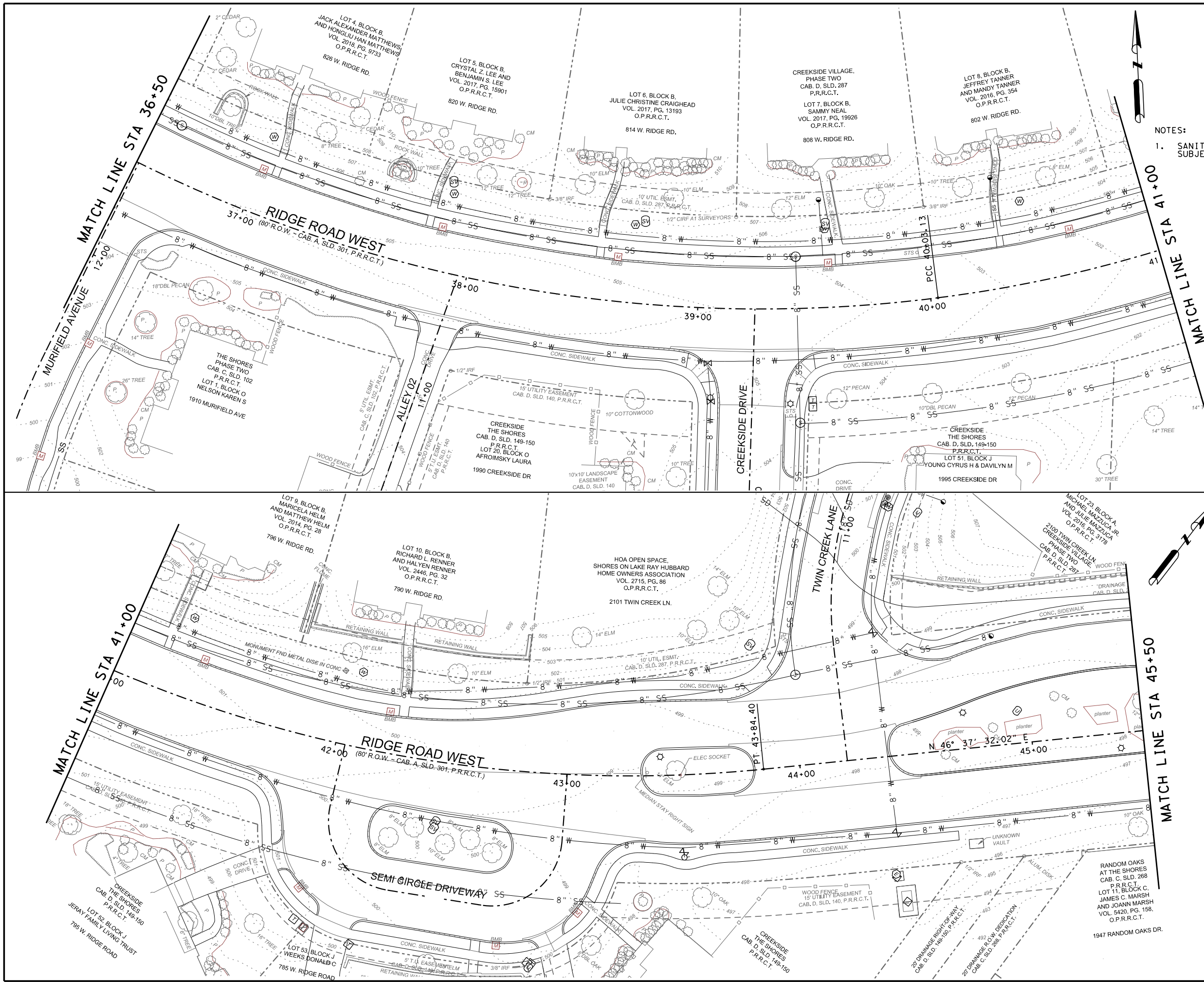
SHEET 3 OF 5

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DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1"=20'
CK: JMG DATE: 10/17/2023	VERT: 6



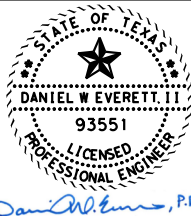
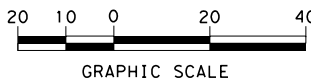
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NOTES:
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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

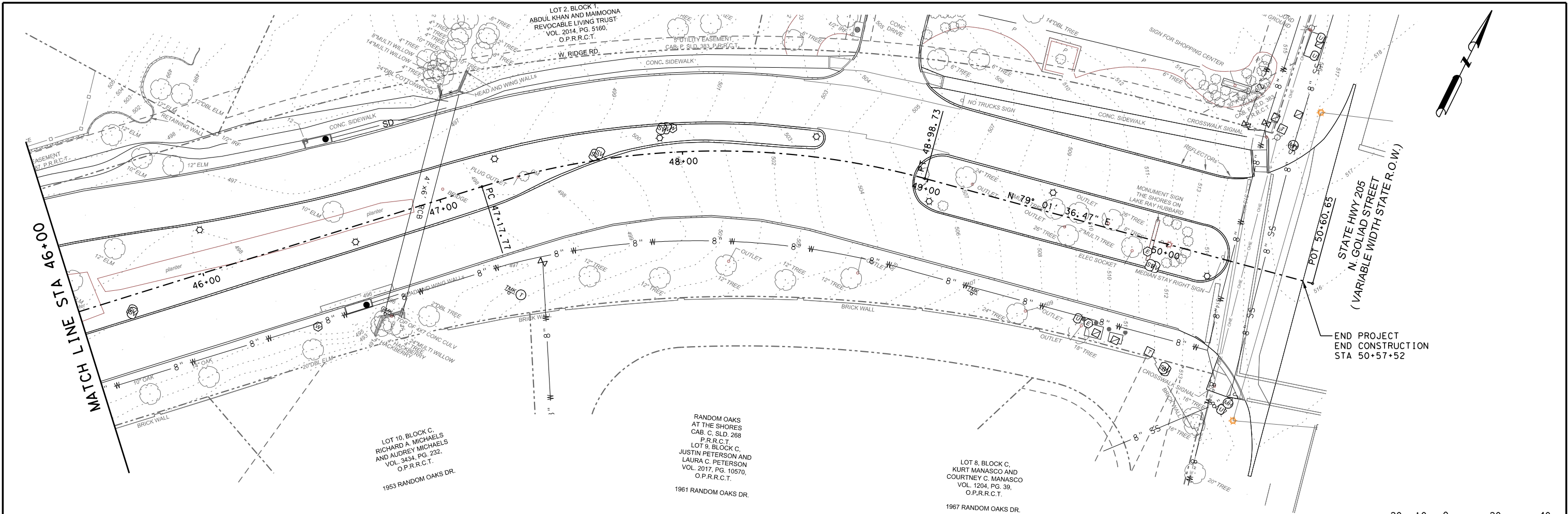
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
EXISTING CONDITION

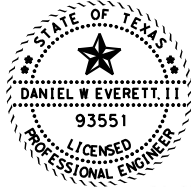
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SHEET 4 OF 5

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- NOTES:
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ROCKWALL COUNTY, TEXAS

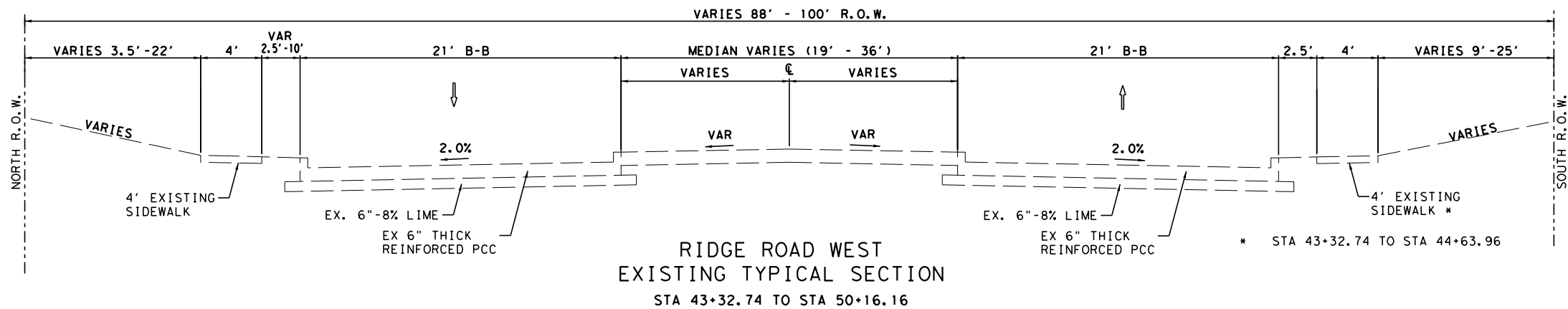
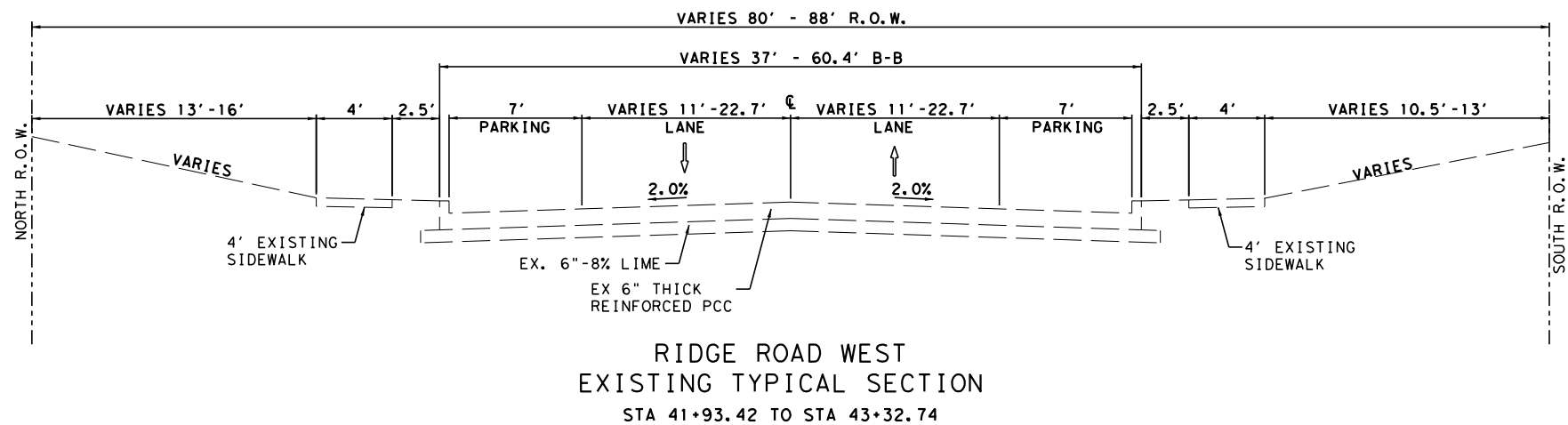
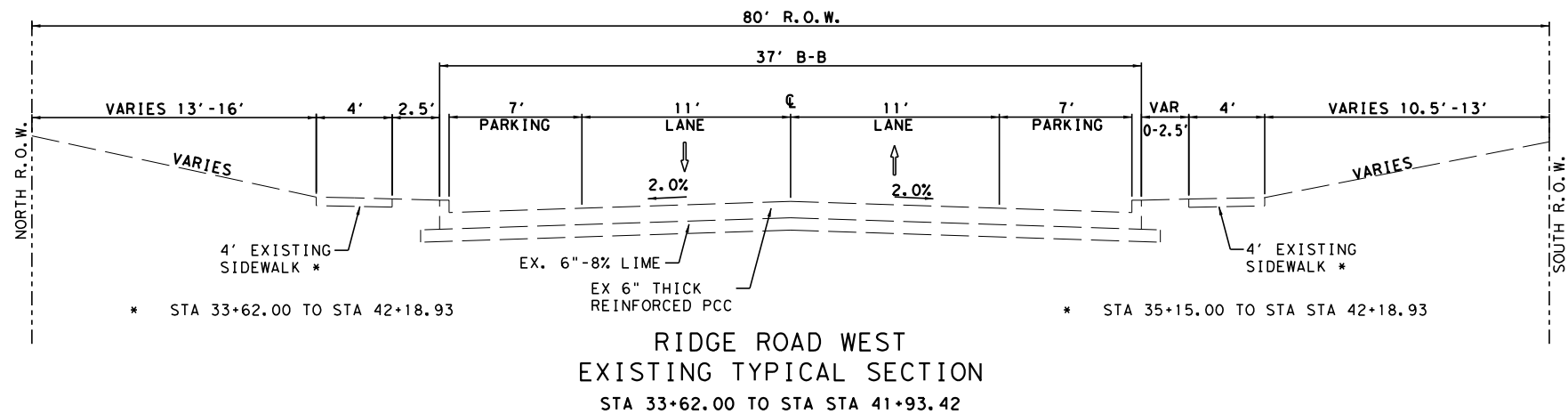
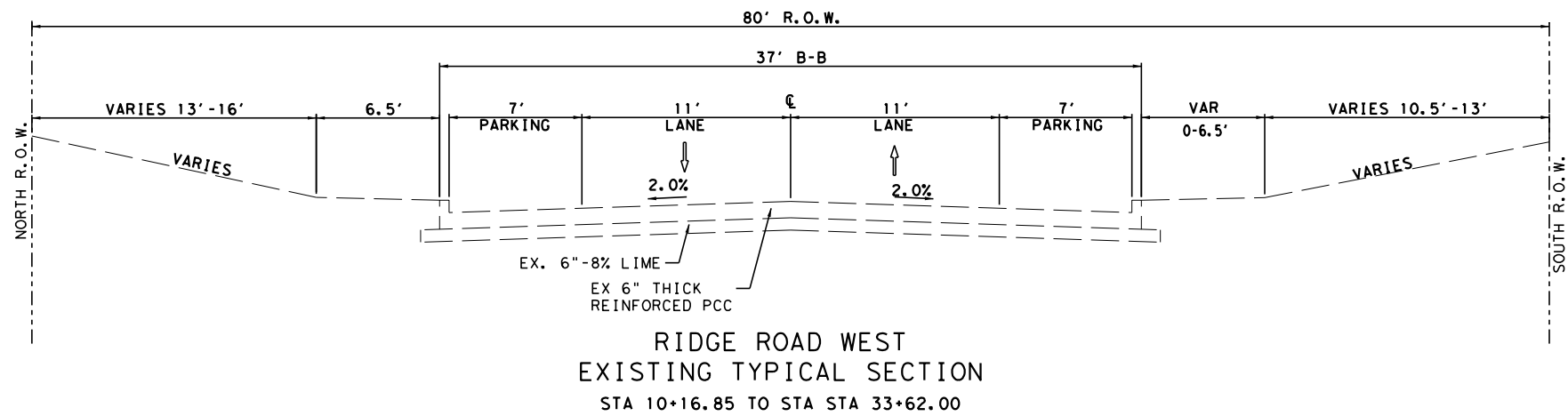
RIDGE ROAD WEST
EXISTING CONDITION

SHEET 5 OF 5

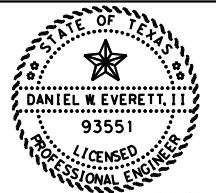
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DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
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DATE: 3/30/2021



Dannennaum, P.E.

3/30/2021

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DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

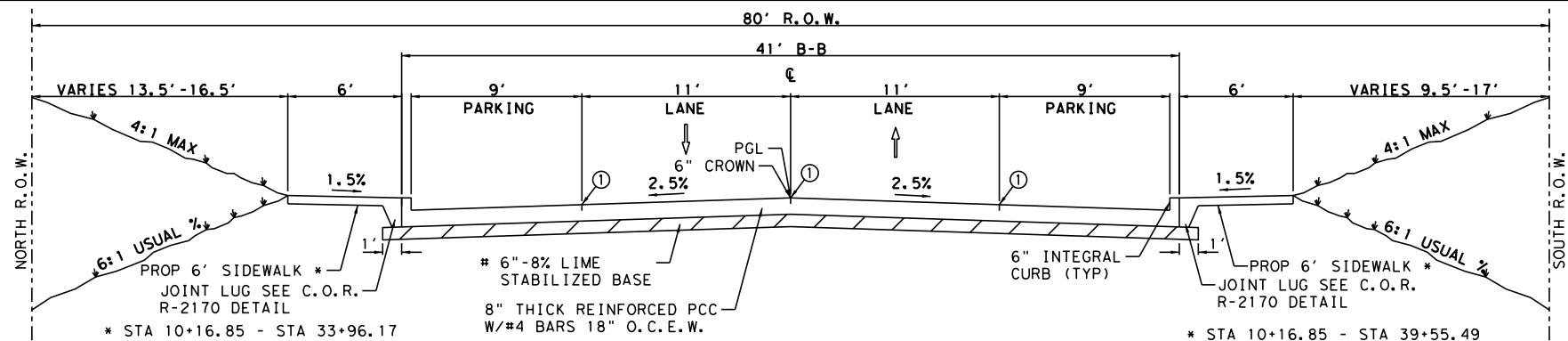
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TYPICAL SECTIONS

SHEET 1 OF 2

DSN: DME	PROJECT: RIDGE ROAD WEST	SCALE	
CK: JMG	CIP PROJECT NO: TR2018-003	HORIZ: NTS	SHEET NO. 9
DRN: PRP	DEC PROJECT NO: 5159-01	VERT: NTS	
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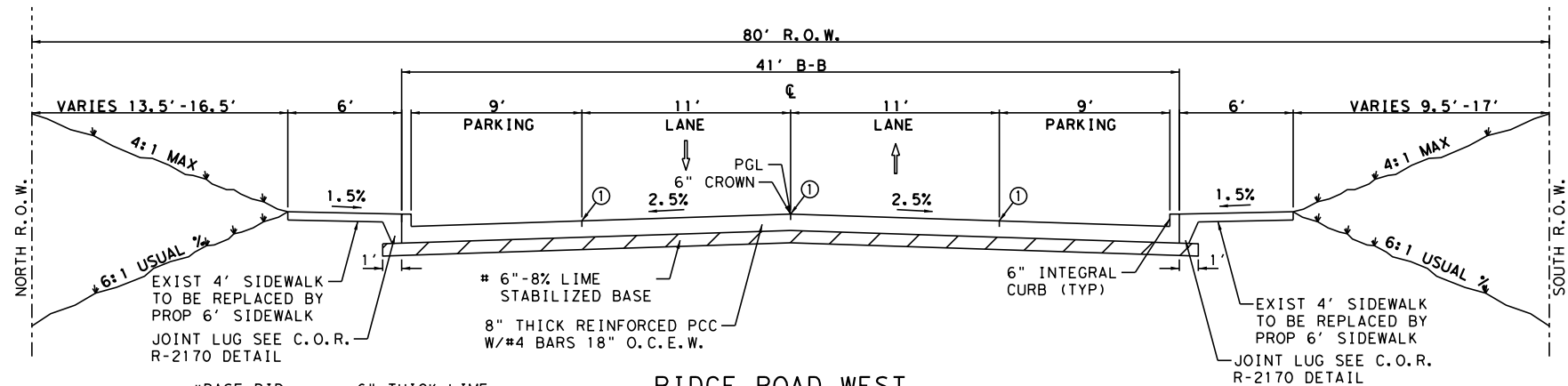
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#BASE BID: 6" THICK LIME
8% LIME STAB BASE
ALTERNATIVE 1: 6" FLEXBASE
ALTERNATIVE 2: 10" FLEXBASE

RIDGE ROAD WEST
PROPOSED TYPICAL SECTION
STA 10+16.85 TO STA 39+55.49
SUPERELEVATION: STA 21+50.00 TO STA 32+15.00

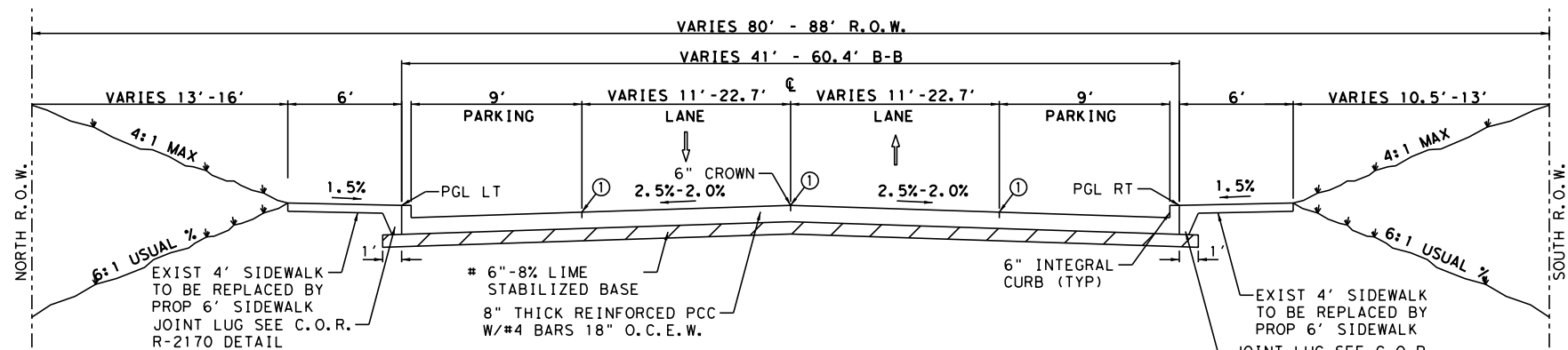
① SAWED LONGITUDINAL CONTRACTION
OR CONSTRUCTION JOINT



#BASE BID: 6" THICK LIME
8% LIME STAB BASE
ALTERNATIVE 1: 6" FLEXBASE
ALTERNATIVE 2: 10" FLEXBASE

RIDGE ROAD WEST
PROPOSED TYPICAL SECTION
STA 39+55.49 TO STA 41+07.77

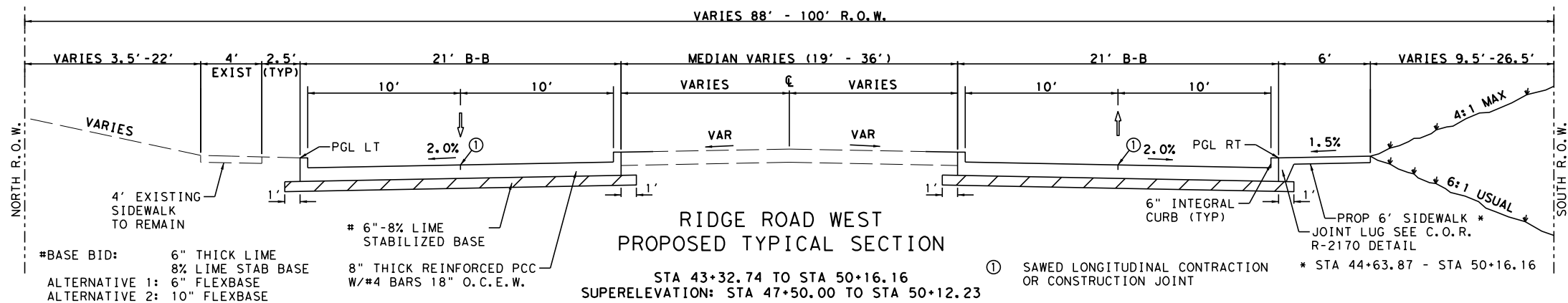
① SAWED LONGITUDINAL CONTRACTION
OR CONSTRUCTION JOINT



#BASE BID: 6" THICK LIME
8% LIME STAB BASE
ALTERNATIVE 1: 6" FLEXBASE
ALTERNATIVE 2: 10" FLEXBASE

RIDGE ROAD WEST
PROPOSED TYPICAL SECTION
STA 41+07.77 TO STA 43+32.74
SUPERELEVATION: STA 41+93.05 TO STA 43+31.77

① SAWED LONGITUDINAL CONTRACTION
OR CONSTRUCTION JOINT



#BASE BID: 6" THICK LIME
8% LIME STAB BASE
ALTERNATIVE 1: 6" FLEXBASE
ALTERNATIVE 2: 10" FLEXBASE

RIDGE ROAD WEST
PROPOSED TYPICAL SECTION
STA 43+32.74 TO STA 50+16.16
SUPERELEVATION: STA 47+50.00 TO STA 50+12.23

① SAWED LONGITUDINAL CONTRACTION
OR CONSTRUCTION JOINT

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DATE: 3/30/2021

NOTES:

1. FRENCH DRAINS TO BE INSTALLED BEHIND BACK OF CURB.
2. MEDIAN LANDSCAPE NOT TO BE TOUCHED. TIE IN AS SOON AS POSSIBLE.
3. ALL DISTURBED AREAS TO BE BLOCK SODDED AND MATCH EXISTING SOD TYPE.
4. 1/2" TY C EMBANKMENT IS TO BE USED FOR FILL. SEE GEOTECH REPORT FOR MORE INFORMATION.



3/30/2021

REV NO	DATE	DESCRIPTION	BY



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ENGINEERING COMPANY - DALLAS, LLC
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CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TYPICAL SECTIONS

SHEET 2 OF 2

DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ: NTS	10
DRN: PRP DEC PROJECT NO: 5159-01	VERT: NTS	10
CK: JMG DATE: 10/17/2023		

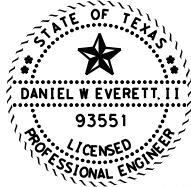
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RIDGE ROAD WEST QUANTITIES					REMOVAL PLANS					PAVING PLANS										TOTALS
ITEM	DESCRIPTION	UNIT	MISC	1 of 5	2 of 5	3 of 5	4 of 5	5 of 5	1 of 10	2 of 10	3 of 10	4 of 10	5 of 10	6 of 10	7 of 10	8 of 10	9 of 10	10 of 10		
1	Mobilization (5% MAX)	LS	1																1	
2	Traffic Control Plan, Barricades, Signs & Related Devices	LS	1																1	
3	Project Sign	EA	2																2	
4	Preparing ROW (including shrub removal)	LS	1																1	
5	Stormwater Pollution Prevention Plan & Erosion Control	LS	1																1	
6	Sawcut, Remove and dispose of Concrete Pavement (inc curb), Driveway, Alley	SY		3981	4271	4654	4852	2441											20199	
7	Sawcut, Remove and dispose of Concrete Sidewalk Including HC Ramps	SY		175	129	240	728	62											1333	
8	Remove and Salvage Concrete Pavers and Slab (Sidewalk or Driveway)	SY			19	38													57	
9	Removing Existing Fencing	LF						38											38	
10	Remove, Furnish and Reinstall Mailboxes (Post Style)	EA		3	6	1													10	
11	Remove, Furnish and Reinstall Mailboxes (Brick or Stone Style)	EA		11	10	4	7												32	
12	Remove and Dispose of Trees (10" or Smaller)	EA		6	4														10	
13	Remove and Dispose of Trees (11" to 19")	EA				1													1	
14	Unclassified Street Excavation	CY																	5934	
15	Embankment Type C	CY																	174	
16	Small Sign Assembly	EA		5	3	4	5	1											18	
17	6" Thick Lime Stabilized Subgrade (40#/SY)	SY							1974	2466	2069	2426	2289	2523	2381	2844	2113	418	21504	
18	Lime for Subgrade Stabilization	TONS							47	59	50	58	55	61	57	68	51	10	516	
19	8" Thick Reinforced Concrete Pavement including Curb	SY							1898	2371	1990	2333	2201	2426	2289	2734	2031	402	20677	
20	6" Thick Reinforced Concrete Driveway	SY									77	199	196	27					500	
21	Reinforced Concrete Sidewalk (4" Thick)	SY							424	424	575	492	486	504	547	454	266	98	4367	
22	Reinforced Concrete Sidewalk with Retaining wall	SF							35							21			56	
23	Barrier Free Ramp - Directional Curb Ramp	EA							4	4		4	2	7	5	2			28	
24	Furnish and Install Wrought Iron Fence	LF											80				123		203	
25	Concrete Mowstrip	SF											30						30	
26	Sidewalk w/ Retaining Wall (Fill)	SF											50				123		173	
27	Standard Concrete Pavement Leadwalk inc. Stairs (3" to 5" Match Existing)	SY							14	19	19	12		3	6	2			75	
28	Special Finish Leadwalk Pavement (3" to 5" Match Existing)	SY									2								2	
29	Special Finish Driveways (4" to 6" Match Existing)	SY											26						26	
30	Block Sod (match existing sod type)	SY							344	378	400	378	344	378	374	367	378	89	3430	
31	Relocate Bollards	EA																4	4	
32	Reflective Pavement Marking TY I (W) 12" (SLD) (100MIL)	LF																80	80	
33	Reflective Pavement Marking TY I (W) 24" (SLD) (100MIL)	LF																24	24	
34	Adjust Existing Water Valve	EA							1			3		2	1	3	1		11	
35	Reloacte Water Meter	EA							3	6	10	6	5				1		31	
36	Relocate Fire Hydrant	EA		1	1														2	
37	Furnish and Install Fire Hydrant and valve with tapping sleeve	EA								1	2	1	1						5	
38	Adjust Sanitary Sewer Manhole rim and cover to proposed grade	EA								1		1	2	1	2	1			8	
39	Adjust Sanitary Sewer Cleanout	EA									2	3				1			6	

* For contractor's information only. Item is subsidiary to Traffic Control.

SUMMARY OF TCP			
LOCATION	WK ZN PAV MRK REMOV (Y) 4" (SLD)	CONSTRUCTING DETOURS	
			8'x12' STEEL PLATE
UNIT	LF	SY	
TCP PHASE 1			
SHEET 1		699	1
SHEET 2		652	4
SHEET 3		34	
TCP PHASE 2			
SHEET 1	1,690		
SHEET 2	1,592		
SHEET 3	724		
TCP PHASE 3			
SHEET 1	1,677		
SHEET 2	1,609		0
SHEET 3	705		0
PROJECT TOTALS	7,997	1,385	5

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DATE: 4/26/2021



4/26/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

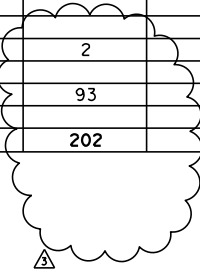
RIDGE ROAD WEST
SUMMARY OF QUANTITIES

SHEET 1 OF 1

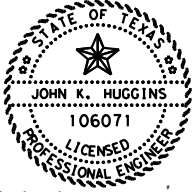
DSN: DNE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: JMG	DATE: 10/17/2023	VERT:	13

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SUMMARY OF DRAINAGE											
LOCATION	RC PIPE (CL III) (18 IN)	RC PIPE (CL III) (24 IN)	STORM WATER MANHOLE-5X5	10'-CURB INLET	15'-CURB INLET	20'-CURB INLET	4IN PVC UNDERDRAIN PIPE INC. EMBEDMENT	6IN PVC UNDERDRAIN PIPE INC. EMBEDMENT	6IN PERFORATED PVC UNDERDRAIN PIPE (MEETS ASTM F758) INC EMBEDMENT	6 IN WATERLINE RELOCATION AROUND PROPOSED STORM INLETS AND PIPE	8 IN WATERLINE RELOCATION AROUND PROPOSED STORM INLETS AND PIPE
UNIT	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	EA
RIDGE ROAD											
RIDGE ROAD P&P 1							37		318		
RIDGE ROAD P&P 2							22	8	419		
RIDGE ROAD P&P 3		107	1	1		2				1	
RIDGE ROAD P&P 4	11			2							
RIDGE ROAD P&P 5	72		2	1	1						2
RIDGE ROAD P&P 6	44	2		3							
RIDGE ROAD P&P 7	5			2							
RIDGE ROAD P&P 8		93				1					
RIDGE ROAD P&P 9	89			2							1
PROJECT TOTALS	221	202	3	11	1	3	59	8	737	1	3




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DATE: 7/16/2021



John K. Huggins, P.E.

7/16/2021

3	9-28-21	FIELD CHANGE #3	JH
2	7-16-21	FIELD CHANGE #2	JH
REV NO	DATE	DESCRIPTION	BY



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T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
SUMMARY

SHEET 1 OF 1

DSN: EBD	PROJECT: RIDGE ROAD WEST	
CK: TL	JOB NUMBER NO: XXXX	SCALE
DRN: JJR	DEC PROJECT NO: 5159-01	HORIZ:
CK: DME	DATE: 10/17/2023	VERT: 14

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RIDGE ROAD WEST TRAFFIC CONTROL NARRATIVE

INITIAL TCP SETUP AND GENERAL NOTES:

1. PLACE MESSAGE BOARDS 2 WEEKS IN ADVANCE OF CONSTRUCTION NOTIFYING USERS OF UPCOMING CONSTRUCTION. CONTRACTOR SHALL INSTALL TEMPORARY MAILBOX AS REQUIRED FOR EACH PHASE OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE USPS AND THE CONSTRUCTION INSPECTOR FOR LOCATION OF THESE TEMPORARY MAILBOX BANKS.
2. CONTRACTOR TO PLACE BARRIER FENCE ON ALL TREES WITHIN THE ROW IDENTIFIED IN THE PLANS THAT WILL NOT BE REMOVED.
3. PLACE ADVANCED WARNING SIGNS IMMEDIATELY PRIOR TO CONSTRUCTION AND TO REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.
4. CONTRACTOR MUST PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION. CONSTRUCTION OF CROSS STREETS AND DRIVEWAYS MUST BE COMPLETED IN A TIMELY MANNER AND CLOSURES KEPT TO A MINIMUM. CONTRACTOR MUST PLACE BARRICADES ADJACENT TO ALL DRIVEWAYS THAT REMAIN OPEN.
5. CONTRACTOR SHALL ENSURE THAT ALL BARRICADES, SIGNS AND CHANNELIZING DEVICES ARE MAINTAINED IN CLEAN FUNCTIONAL CONDITION AT ALL TIMES.
6. NO EQUIPMENT SHALL BE LEFT IN A POSITION AFTER WORKING HOURS THE WILL PRESENT A DANGER TO THE TRAVELING PUBLIC.
7. ALL MAILBOXES AND SIDEWALK LEADS SHALL BE CONSTRUCTED WITH THE SAME OR LIKE MATERIAL AND FINISH AND WILL BE SUBJECT TO THE ACCEPTANCE OF THE CITY OF ROCKWALL AND PROPERTY OWNER.
8. CONTRACTOR MUST MAKE ALL EFFORTS TO SALVAGE ALL LANDSCAPING WITHIN THE PUBLIC ROW. CONTRACTOR SHALL PROTECT ALL LANDSCAPING SHOWN TO BE PROTECTED WITHIN PUBLIC ROW.

PHASE I

1. RELOCATE ALL WATER METERS TO PROPOSED FINAL LOCATIONS.
2. CONTRACTOR TO ESTABLISH TEMPORARY MAILBOXES AT A LOCATION DETERMINED BY THE CITY. CONTRACTOR SHALL INSTALL TEMPORARY MAILBOX AS REQUIRED FOR EACH PHASE OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE USPS AND THE CONSTRUCTION INSPECTOR FOR LOCATION OF THESE TEMPORARY MAILBOX BANKS.
3. SAW CUT EXISTING CURB ALONG WB RIDGE ROAD WEST AND REMOVE EXISTING INLETS.
4. CONSTRUCT PROPOSED INLET TO THE TEMPORARY ASPHALT ELEVATION. COVER THE INLET BOX WITH 8’x12’ TRAFFIC RATED STEEL PLATE.
5. SEE TCP SHEETS FOR DETAILS AND MORE INFORMATION. PLACE TEMPORARY PAVEMENT CONSISTING OF 2" OF ASPHALT ON TOP OF 6" OF FLEX BASE.
6. CONTRACTOR SHALL LOCATE EXISTING IRRIGATION TO BEHIND BACK OF PROPOSED SIDEWALK LOCATION TO PREPARE FOR PAVING OPERATIONS. ALL SYSTEMS SHALL BE IN WORKING ORDER PRIOR TO PROCEEDING TO NEXT PHASE.

PHASE II

1. PLACE TCP PAVEMENT MARKINGS AS INDICATED IN TCP PLANS. MOVE TWO-WAY TRAFFIC TO THE WB LANE. RECONSTRUCT THE EB LANE AND MEDIAN.
2. CONTRACTOR SHALL ADHERE TO THE FOLLOWING CLOSURES WHILE CONSTRUCTING EB RIDGE ROAD WEST.
 - a. HIDDEN HILL AND HIDDEN VALLEY MAY NOT BE CLOSED AT THE SAME TIME DURING THIS PHASE. CONSTRUCT EACH INTERSECTION ONE HALF AT A TIME. CONTRACTOR MUST FULLY CONSTRUCT AND RE-OPEN ONE PRIOR TO CONSTRUCTING THE OTHER.
 - b. THERE ARE TWO ROADWAY CONNECTIONS OF HIDDEN VALLEY AND MAY NOT BE CLOSED AT THE SAME TIME DURING THIS PHASE. CONSTRUCT EACH INTERSECTION ONE HALF AT A TIME. CONTRACTOR MUST FULLY CONSTRUCT AND RE-OPEN ONE PRIOR TO CONSTRUCTING THE OTHER AND MUST BE COORDINATED WITH HIDDEN HILL.
 - c. FOR THE CONSTRUCTION OF THE INTERSECTIONS WITH RIDGE CREST PL., MURIFIELD AVE., CREEKSIDE DRIVE AND THE ALLEYWAYS IN BETWEEN; CONTRACTOR SHALL ONLY CONSTRUCT TWO INTERSECTIONS AT A TIME, ONE HALF AT A TIME DURING THIS PHASE. AND EACH MUST BE FULLY CONSTRUCTED AND RE-OPENED PRIOR TO BEGINNING CONSTRUCTION ON SUBSEQUENT INTERSETIONS. 3 INTERSECTIONS MUST REMAIN OPEN AT ALL TIMES.
 - d. FOR THE CONSTRUCTION OF THE SEMI-CIRCULAR ROADWAY BETWEEN STA 42+00 AND 43+00 CONTRACTOR SHALL ONLY CONSTRUCT ONE ENTRANCE AT A TIME DURING THIS PHASE. CONTRACTOR MUST FULLY CONSTRUCT AND RE-OPEN ONE PRIOR TO CONSTRUCTING THE OTHER.
3. CONTRACTOR SHALL PROVIDE TEMPORARY SIGNAL MODIFICATIONS FOR N. GOLIAD ST (SH 205) AND RIDGE ROAD WEST SIGNAL. THIS SHALL INCLUDE ALL TEMPORORARY MODIFICATIONS TO ALLOW TRAFFIC TO OPERATE IN CURRENT TCP PHASE. INCLUDING BUT NOT LIMITED TO (SIGNAGE, RADAR DETECTION, VIDEO DETECTION, SIGNAL HEADS, TIMING, ETC). IT SHALL ALSO INCLUDE COORDINATION WITH TxDOT TRAFFIC SIGNAL SHOP AND RETURN SIGNAL BACK TO EXISTING CONFIGURATION AFTER PROJECT COMPLETION. THIS SHALL BE SUBSIDIARY TO THE TRAFFIC CONTROL PAY ITEM.
4. DURING PHASE II ACTIVE CONSTRUCTION, CONTRACTOR MAY SHUT DOWN RIDGE ROAD WEST TO ONE LANE FOR A LENGTH OF NO MORE THAN 500’. FLAGGERS MUST BE PRESENT ON BOTH SIDES AND ALL INTERSECTION LEGS IN ORDER TO ALLOW TRAFFIC TO PASS BACK AND FORTH IN EACH DIRECTION. TRAFFIC MUST RETURN TO TWO-WAY AT END OF THE DAY AND WHEN ACTIVE CONSTRUCTION IS NOT TAKING PLACE.

PHASE III

TRAFFIC:

PLACE TEMPORARY PAVEMENT MARKINGS AS INDICATED IN THE TCP SHEETS. SHIFT TRAFFIC TO THE NEWLY CONSTRUCTED EB RIDGE ROAD WEST LANE.

CONSTRUCTION:

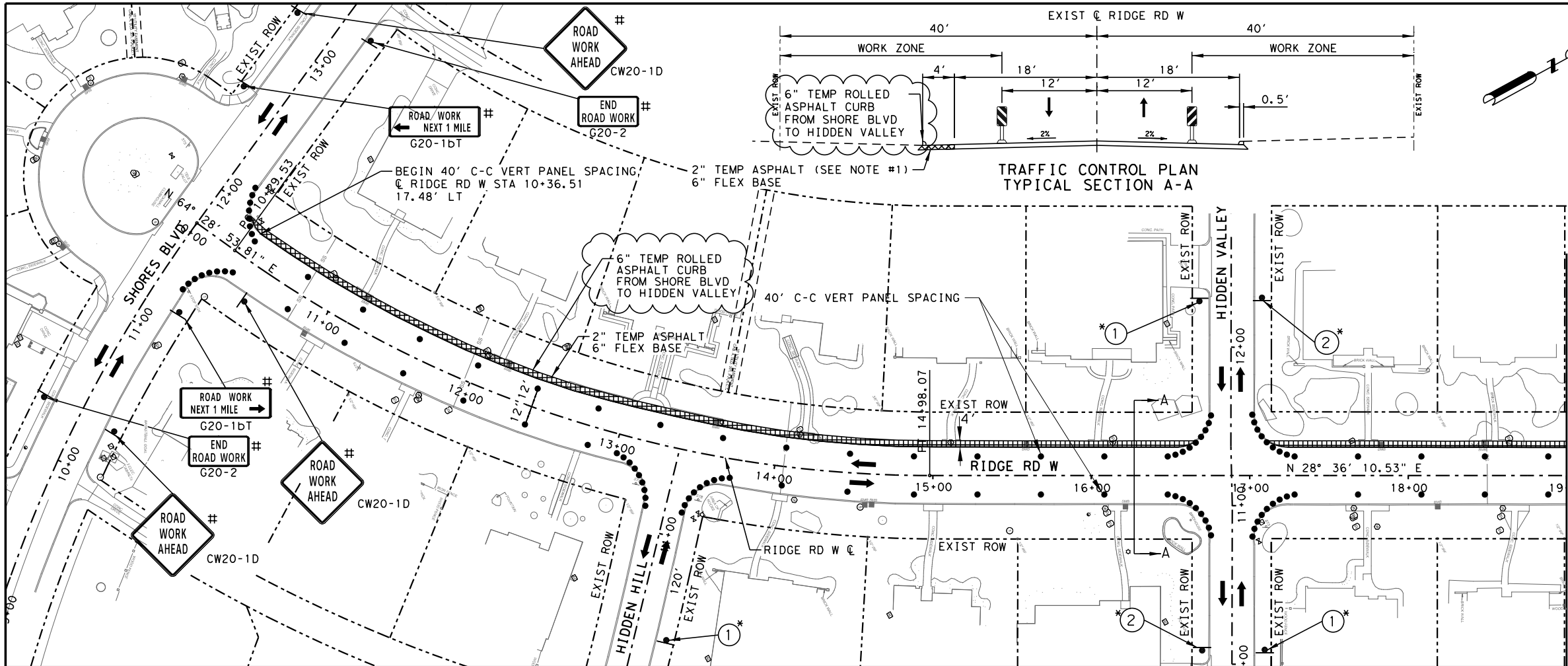
1. FINSH CONSTRUCTING INLETS AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN SYSTEM ALONG WB RIDGE ROAD WEST.
2. CONSTRUCT WB RIDGE ROAD WEST AND SIDEWALKS FROM SHORES BLVD TO GOLIAD ST.
3. CONTRACTOR SHALL ADHERE TO THE FOLLOWING CLOSURES WHILE CONSTRUCTING WB RIDGE ROAD WEST.
 - a. THERE ARE TWO ROADWAY CONNECTIONS OF HIDDEN VALLEY AND MAY NOT BE CLOSED AT THE SAME TIME DURING THIS PHASE. CONTRACTOR MUST FULLY CONSTRUCT AND RE-OPEN ONE PRIOR TO CONSTRUCTING THE OTHER.
 - b. RIDGE ROAD CT. MUST BE PHASED TO ALLOW ACCESS AT ALL TIMES. FULLY CONSTRUCT ONE-HALF OF INTERSECTION AND RE-OPEN PRIOR TO CONSTRUCTING THE OTHER HALF.
 - c. LACEBARK LN. AND TWIN CREEK LN. MAY NOT BE CLOSED DURING THIS PHASE AT THE SAME TIME. CONTRACTOR MUST CONSTRUCT BOTH INTERSECTIONS ONE HALF AT A TIME.
4. CONTRACTOR SHALL PROVIDE TEMPORARY SIGNAL MODIFICATIONS FOR N. GOLIAD ST (SH 205) AND RIDGE ROAD WEST SIGNAL. THIS SHALL INCLUDE ALL TEMPORORARY MODIFICATIONS TO ALLOW TRAFFIC TO OPERATE IN CURRENT TCP PHASE. INCLUDING BUT NOT LIMITED TO (SIGNAGE, RADAR DETECTION, VIDEO DETECTION, SIGNAL HEADS, TIMING, ETC). IT SHALL ALSO INCLUDE COORDINATION WITH TxDOT TRAFFIC SIGNAL SHOP AND RETURN SIGNAL BACK TO EXISTING CONFIGURATION AFTER PROJECT COMPLETION. THIS SHALL BE SUBSIDIARY TO THE TRAFFIC CONTROL PAY ITEM.
5. DURING PHASE III ACTIVE CONSTRUCTION, CONTRACTOR MAY SHUT DOWN RIDGE ROAD WEST TO ONE LANE FOR A LENGTH OF NO MORE THAN 500’. FLAGGERS MUST BE PRESENT ON BOTH SIDES AND ALL INTERSECTION LEGS IN ORDER TO ALLOW TRAFFIC TO PASS BACK AND FORTH IN EACH DIRECTION. TRAFFIC MUST RETURN TO TWO-WAY AT END OF THE DAY AND WHEN ACTIVE CONSTRUCTION IS NOT TAKING PLACE.

PHASE IV

1. PLACE BARRICADES AT GUTTER LINE
2. CONSTRUCT SIDEWALKS
3. RECONSTRUCT MAILBOXES.
4. FINAL GRADING, FINAL IRRIGATION ADJUSTMENTS, PLACE SOD.

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DATE: 3/30/2021

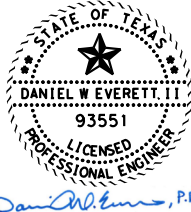
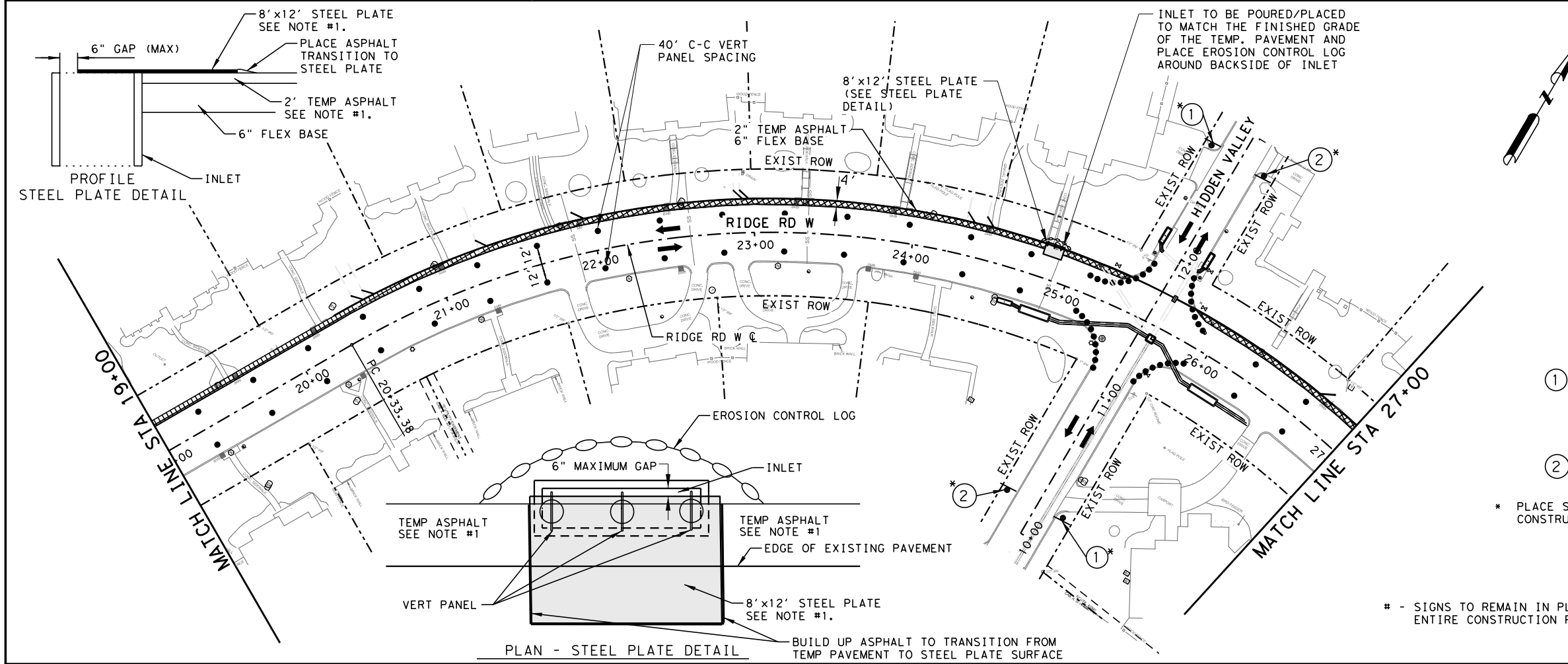
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3/30/2021			
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<div><div><div><div><div></div><div>DANNENBAUM</div></div><div><div></div><div>ENGINEERING COMPANY - DALLAS, LLC</div></div><div><div></div><div>T.B.P.E. FIRM REGISTRATION F-8996</div></div><div><div></div><div>3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002</div></div></div></div></div>			
CITY OF ROCKWALL			
ROCKWALL COUNTY, TEXAS			
RIDGE ROAD WEST TRAFFIC CONTROL NARRATIVE			
SHEET 1 OF 1			
DSN: DWE PROJECT: RIDGE ROAD WEST			
CK: JMG CIP PROJECT NO: TR2018-003		SCALE	
DRN: PRP DEC PROJECT NO: 5159-01		HORIZ:	
CK: JMG DATE: 10/17/2023		VERT: 15	



- LEGEND**
- TEMP ASPHALT PAVEMENT THIS PHASE
 - TEMP ASPHALT PAVEMENT PREVIOUS PHASE
 - PERMANENT CONSTRUCTION THIS PHASE
 - PERMANENT CONSTRUCTION PREVIOUS PHASE
 - DIRECTION OF TRAFFIC
 - CHANNELIZING DEVICE
 - TYPE III BARRICADES
 - SIGN
 - WK ZN PAV MRK REMOV (W) 4" (SLD)
 - WK ZN PAV MRK REMOV (Y) 4" (SLD)
 - WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
- TEMPORARY MAILBOXES PLACEMENT, ADJUSTING, MAINTAINING, REMOVAL, TEMPORARY ASPHALT AND STEEL PLATES SUBSIDIARY TO TCP.
 - CONTRACTOR MUST DOCUMENT MATERIALS AND INVENTORY (INCLUDING PICTURES) ALL EXISTING LEADWALKS FOR RESIDENCES, MAILBOXES AND SIDEWALKS FOR REPLACEMENT.

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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE I

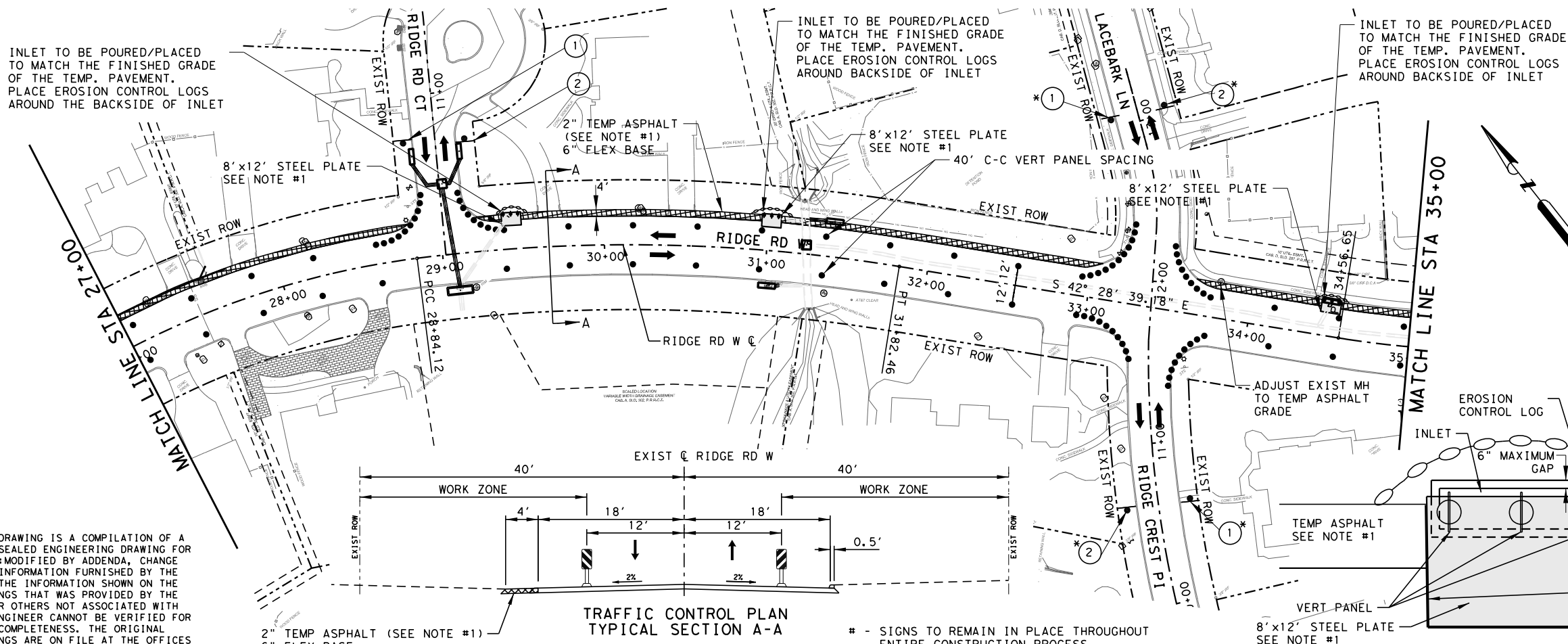
SHEET 1 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	16
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

- 1 ROAD WORK AHEAD CW20-1D
- 2 END ROAD WORK G20-2
- * PLACE SIGNS 120' FROM CONSTRUCTION AREA

* - SIGNS TO REMAIN IN PLACE THROUGHOUT ENTIRE CONSTRUCTION PROCESS

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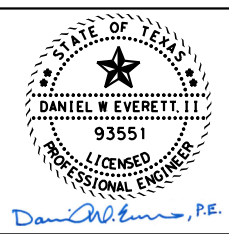
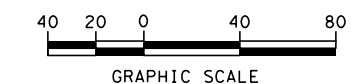
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 - WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
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TRAFFIC CONTROL PLAN
TYPICAL SECTION A-A

PLAN - STEEL PLATE DETAIL



REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

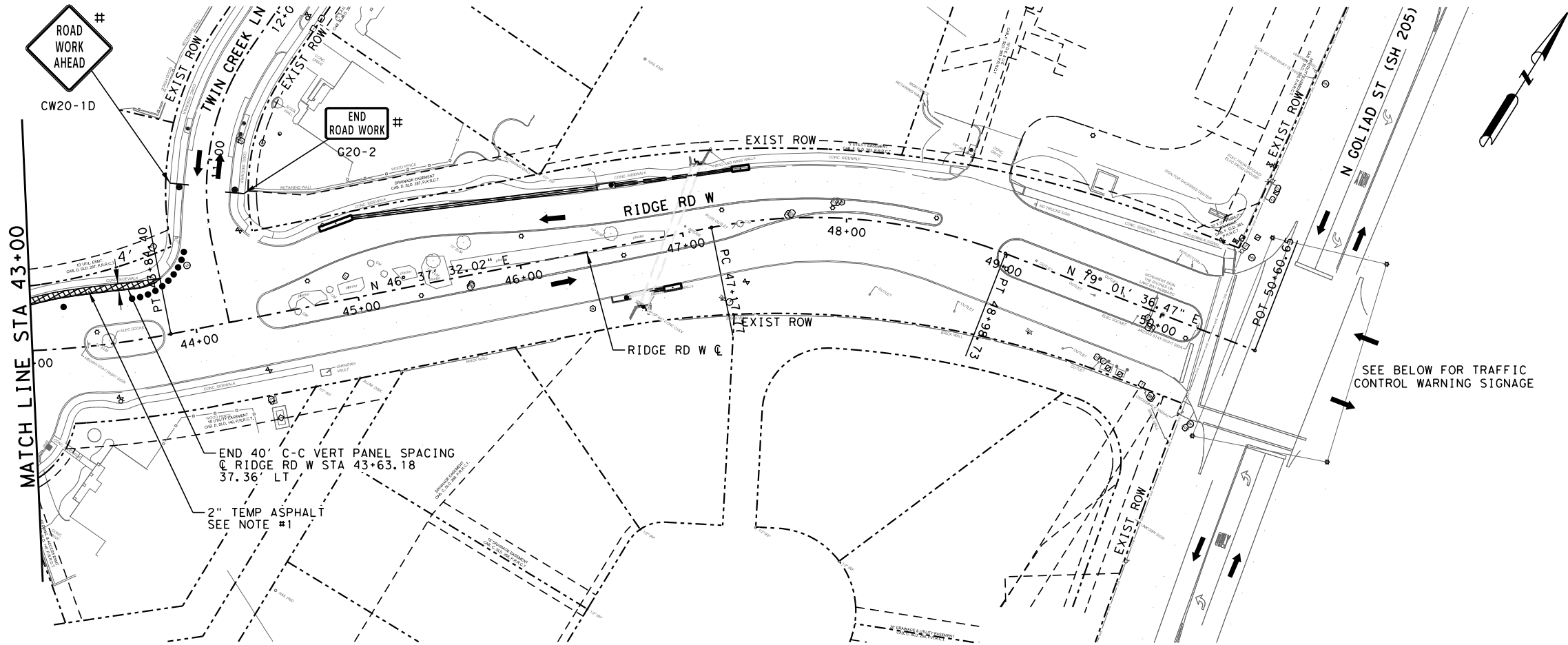
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE I

SHEET 2 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	17
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

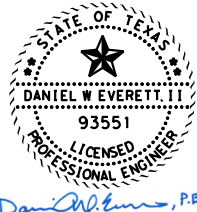
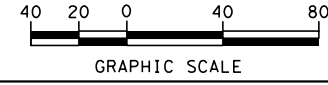
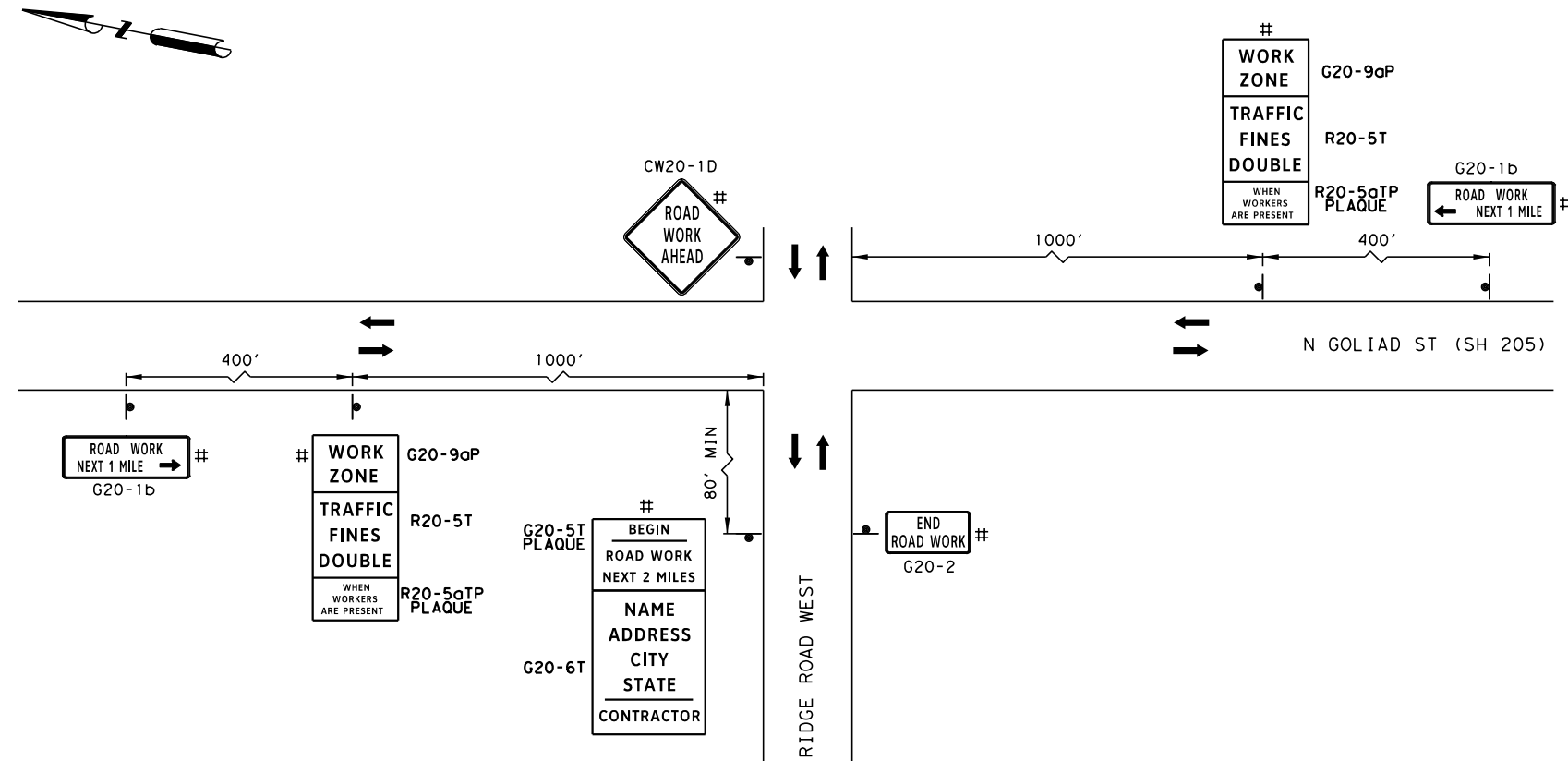
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- LEGEND**
- TEMP ASPHALT PAVEMENT THIS PHASE
 - TEMP ASPHALT PAVEMENT PREVIOUS PHASE
 - PERMANENT CONSTRUCTION THIS PHASE
 - PERMANENT CONSTRUCTION PREVIOUS PHASE
 - DIRECTION OF TRAFFIC
 - CHANNELIZING DEVICE
 - TYPE III BARRICADES
 - SIGN
 - WK ZN PAV MRK REMOV (W) 4" (SLD)
 - WK ZN PAV MRK REMOV (Y) 4" (SLD)
 - WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
- TEMPORARY MAILBOXES PLACEMENT, ADJUSTING, MAINTAINING, REMOVAL, TEMPORARY ASPHALT AND STEEL PLATES SUBSIDIARY TO TCP.
 - CONTRACTOR MUST DOCUMENT MATERIALS AND INVENTORY (INCLUDING PICTURES) ALL EXISTING LEADWALKS FOR RESIDENCES, MAILBOXES AND SIDEWALKS FOR REPLACEMENT.

- SIGNS TO REMAIN IN PLACE THROUGHOUT ENTIRE CONSTRUCTION PROCESS



REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE I

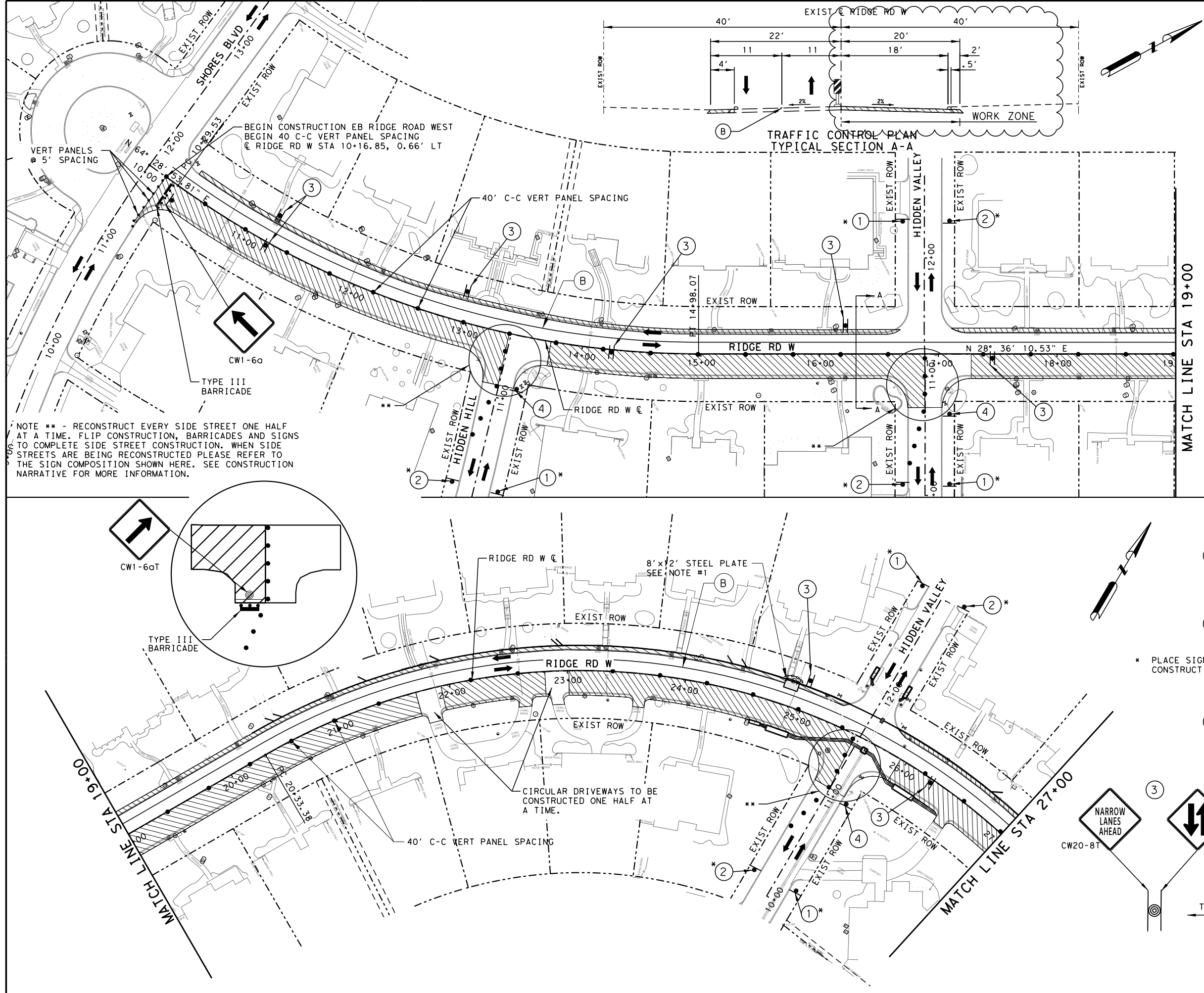
SHEET 3 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	SCALE	18
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:	
CK: JMG DATE: 10/17/2023	VERT:	

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2023

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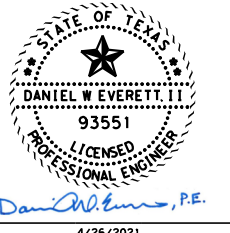
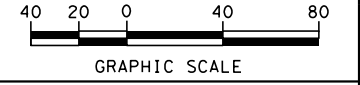


LEGEND

- TEMP ASPHALT PAVEMENT THIS PHASE
- TEMP ASPHALT PAVEMENT PREVIOUS PHASE
- PERMANENT CONSTRUCTION THIS PHASE
- PERMANENT CONSTRUCTION PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE III BARRICADES
- SIGN
- WK ZN PAV MRK REMOV (W) 4" (SLD)
- WK ZN PAV MRK REMOV (Y) 4" (SLD)
- WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
- TEMPORARY MAILBOXES PLACEMENT, ADJUSTING, MAINTAINING, REMOVAL, TEMPORARY ASPHALT AND STEEL PLATES SUBSIDIARY TO TCP.
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DATE: 4/26/2021



REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE II

SHEET 1 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	19
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

1 ROAD WORK AHEAD
CW20-1D

2 END ROAD WORK
G20-2

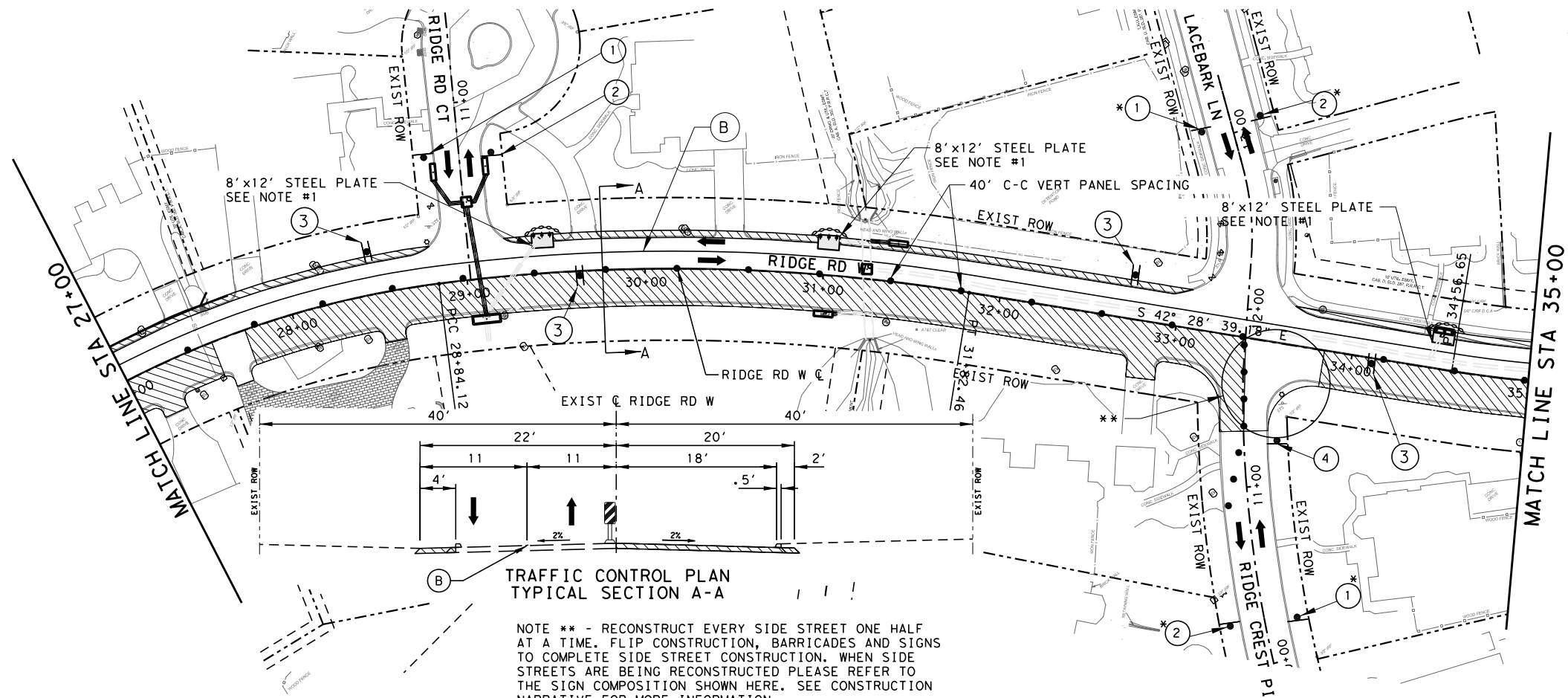
* PLACE SIGNS 120' FROM CONSTRUCTION AREA

4 YIELD TO ONCOMING TRAFFIC
R1-2aP

3 NARROW LANES AHEAD
CW20-8T

TRAFFIC

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TRAFFIC CONTROL PLAN
TYPICAL SECTION A-A

NOTE ** - RECONSTRUCT EVERY SIDE STREET ONE HALF AT A TIME. FLIP CONSTRUCTION, BARRICADES AND SIGNS TO COMPLETE SIDE STREET CONSTRUCTION. WHEN SIDE STREETS ARE BEING RECONSTRUCTED PLEASE REFER TO THE SIGN COMPOSITION SHOWN HERE. SEE CONSTRUCTION NARRATIVE FOR MORE INFORMATION.

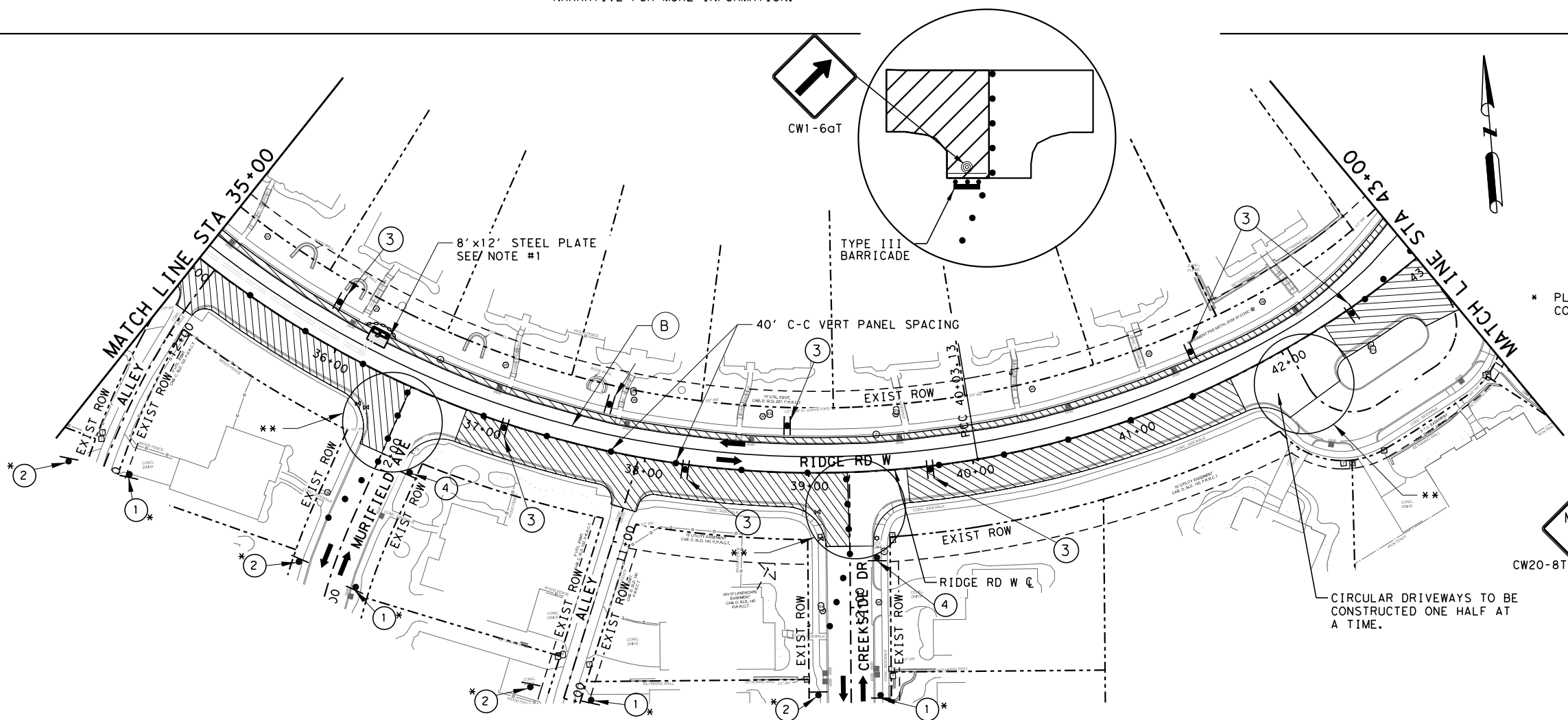
LEGEND

- TEMP ASPHALT PAVEMENT THIS PHASE
- TEMP ASPHALT PAVEMENT PREVIOUS PHASE
- PERMANENT CONSTRUCTION THIS PHASE
- PERMANENT CONSTRUCTION PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE III BARRICADES
- SIGN
- WK ZN PAV MRK REMOV (W) 4" (SLD)
- WK ZN PAV MRK REMOV (Y) 4" (SLD)
- WK ZN PAV MRK REMOV (W) 24" (SLD)

NOTES:

- TEMPORARY MAILBOXES PLACEMENT, ADJUSTING, MAINTAINING, REMOVAL, TEMPORARY ASPHALT AND STEEL PLATES SUBSIDIARY TO TCP.
- CONTRACTOR MUST DOCUMENT MATERIALS AND INVENTORY (INCLUDING PICTURES) ALL EXISTING LEADWALKS FOR RESIDENCES, MAILBOXES AND SIDEWALKS FOR REPLACEMENT.

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DATE: 3/30/2021



CW1-6aT

TYPE III BARRICADE

* PLACE SIGNS 120' FROM CONSTRUCTION AREA

CIRCULAR DRIVEWAYS TO BE CONSTRUCTED ONE HALF AT A TIME.



REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

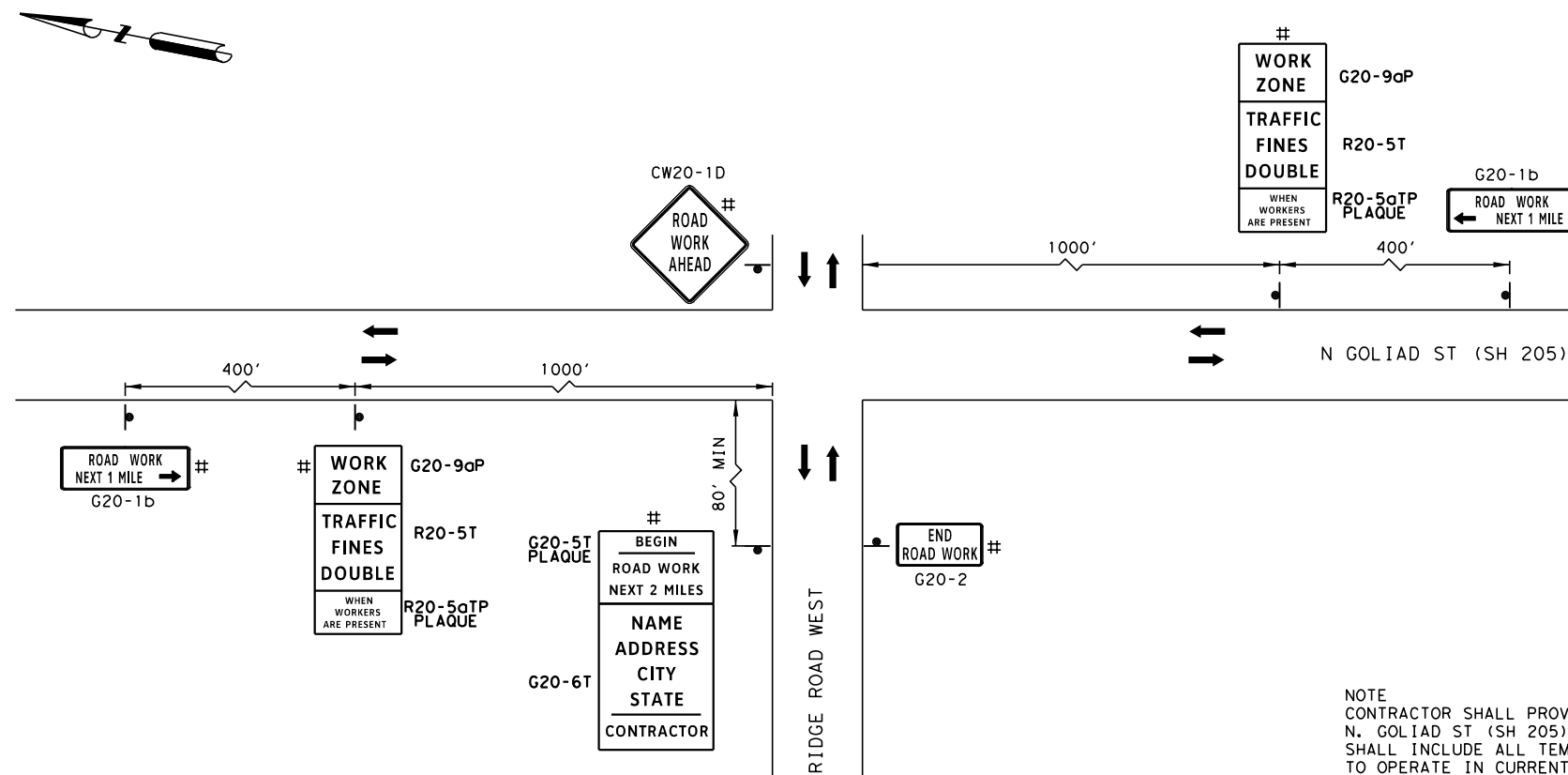
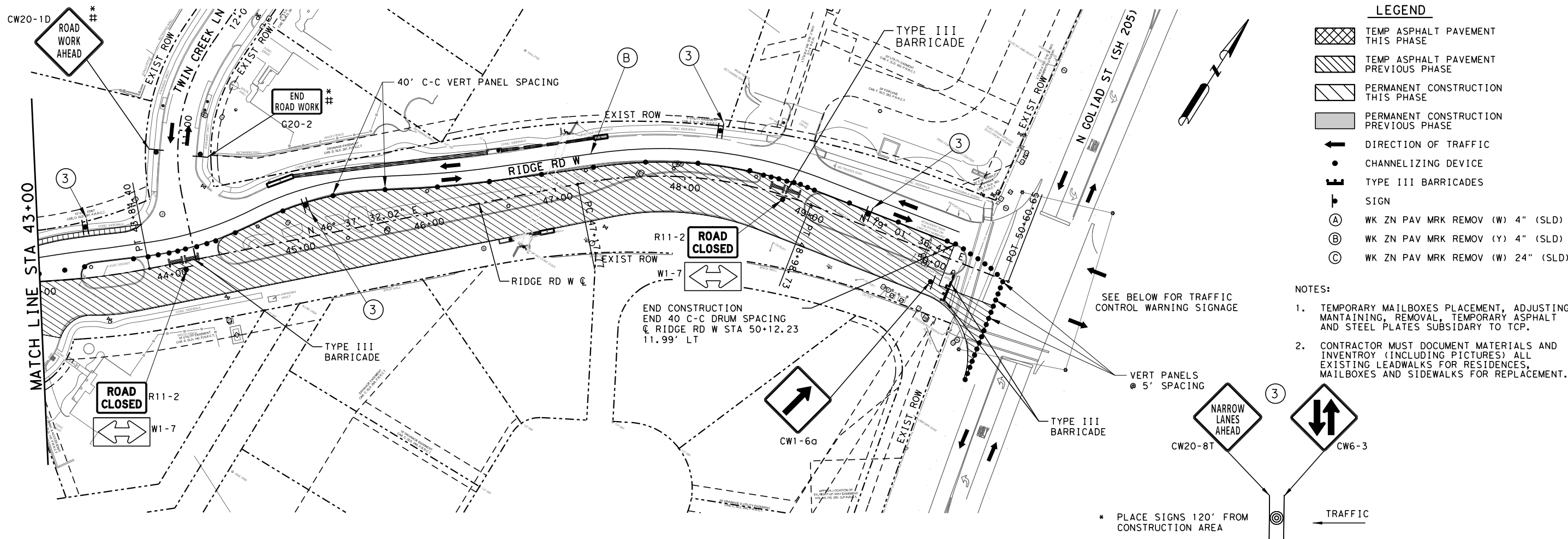
RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE II

SHEET 2 OF 3

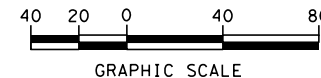
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CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	20
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

- ROAD WORK AHEAD
CW20-1D
- END ROAD WORK
G20-2
- YIELD TO ONCOMING TRAFFIC
R1-2aP
- NARROW LANES AHEAD
CW20-8T
- TRAFFIC
CW6-3

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THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021



REV NO	DATE	DESCRIPTION	BY



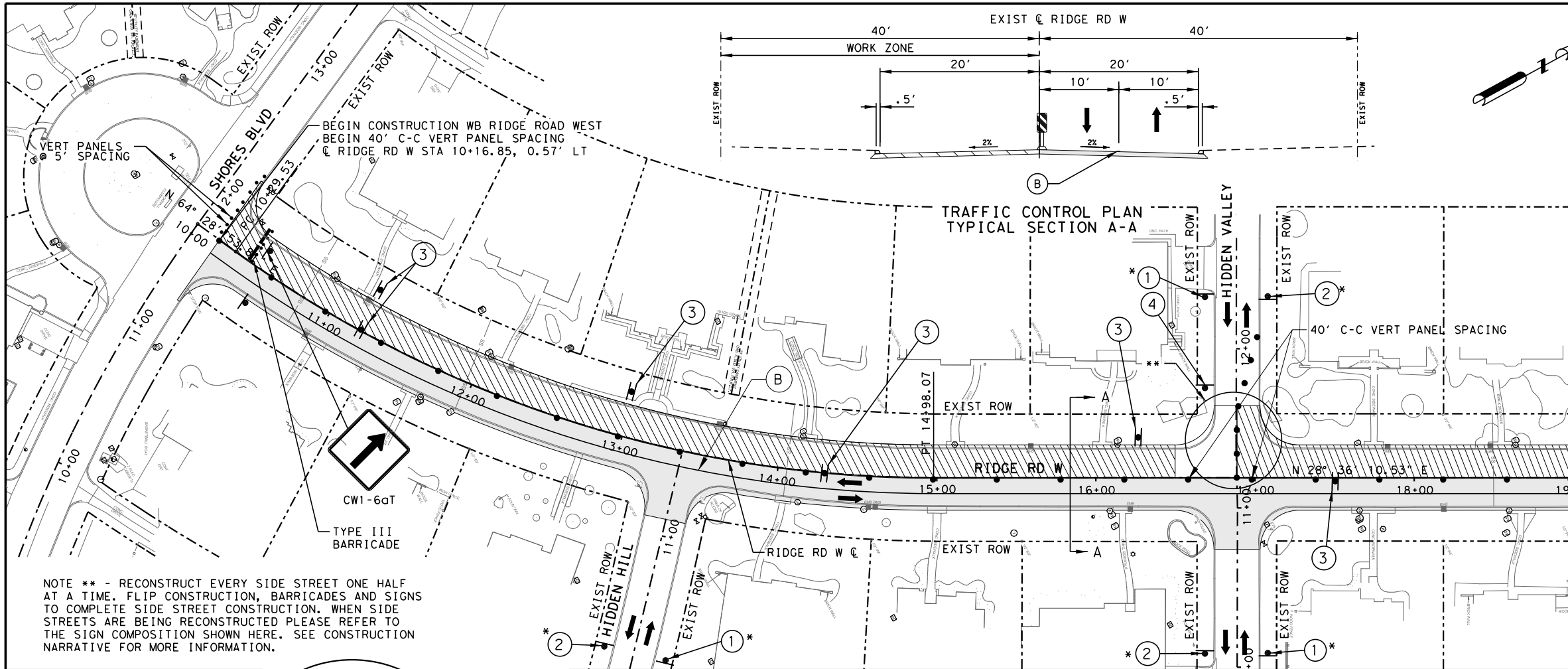
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE II

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	21
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

NOTE
CONTRACTOR SHALL PROVIDE TEMPORARY SIGNAL MODIFICATIONS FOR N. GOLIAD ST (SH 205) AND RIDGE ROAD WEST SIGNAL. THIS SHALL INCLUDE ALL TEMPORARY MODIFICATIONS TO ALLOW TRAFFIC TO OPERATE IN CURRENT TCP PHASE. INCLUDING BUT NOT LIMITED TO (SIGNAGE, RADAR DETECTION, VIDEO DETECTION, SIGNAL HEADS, TIMING, ETC). IT SHALL ALSO INCLUDE COORDINATION WITH TxDOT TRAFFIC SIGNAL SHOP AND RETURN SIGNAL BACK TO EXISTING CONFIGURATION AFTER PROJECT COMPLETION. THIS SHALL BE SUBSIDIARY TO THE TRAFFIC CONTROL PAY ITEM

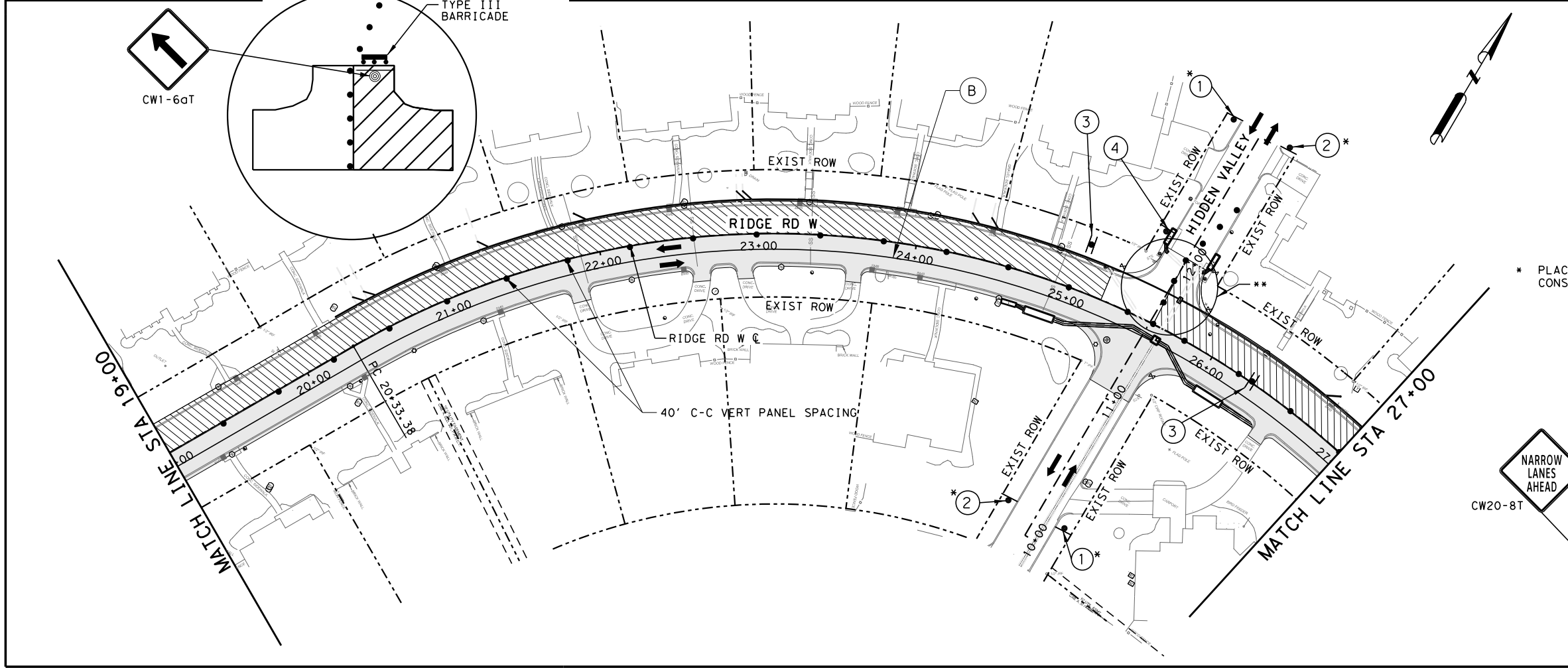


LEGEND

- TEMP ASPHALT PAVEMENT THIS PHASE
- TEMP ASPHALT PAVEMENT PREVIOUS PHASE
- PERMANENT CONSTRUCTION THIS PHASE
- PERMANENT CONSTRUCTION PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE III BARRICADES
- SIGN
- (A) WK ZN PAV MRK REMOV (W) 4" (SLD)
- (B) WK ZN PAV MRK REMOV (Y) 4" (SLD)
- (C) WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
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DATE: 3/30/2021



GRAPHIC SCALE
40 20 0 40 80

STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

TRAFFIC CONTROL PLAN PHASE III

SHEET 1 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003		22
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:	
CK: JMG DATE: 10/17/2023	VERT:	

TRAFFIC

ROAD WORK AHEAD #1
CW20-1D

END ROAD WORK #2
G20-2

* PLACE SIGNS 120' FROM CONSTRUCTION AREA

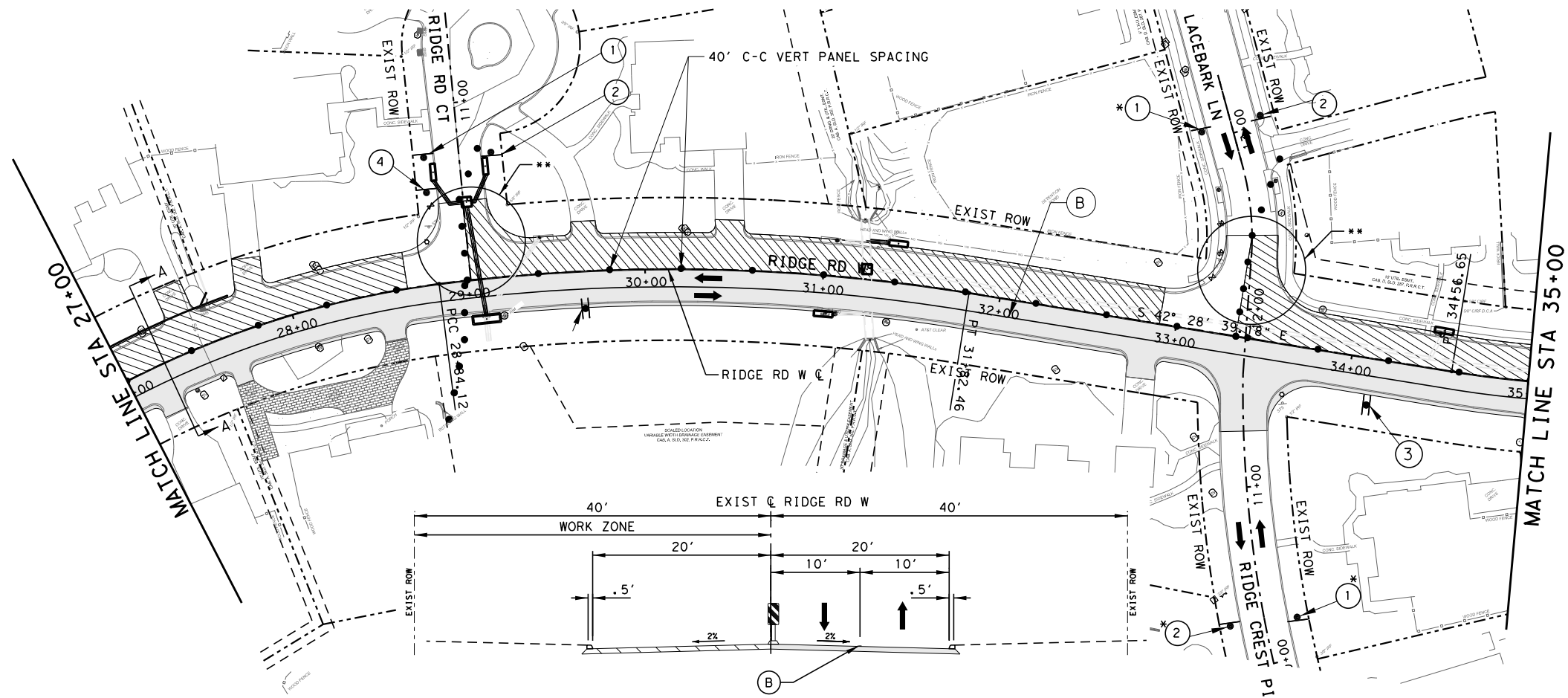
YIELD TO ONCOMING TRAFFIC #4
R1-2aP

NARROW LANES AHEAD #3
CW20-8T

TRAFFIC #3
CW6-3

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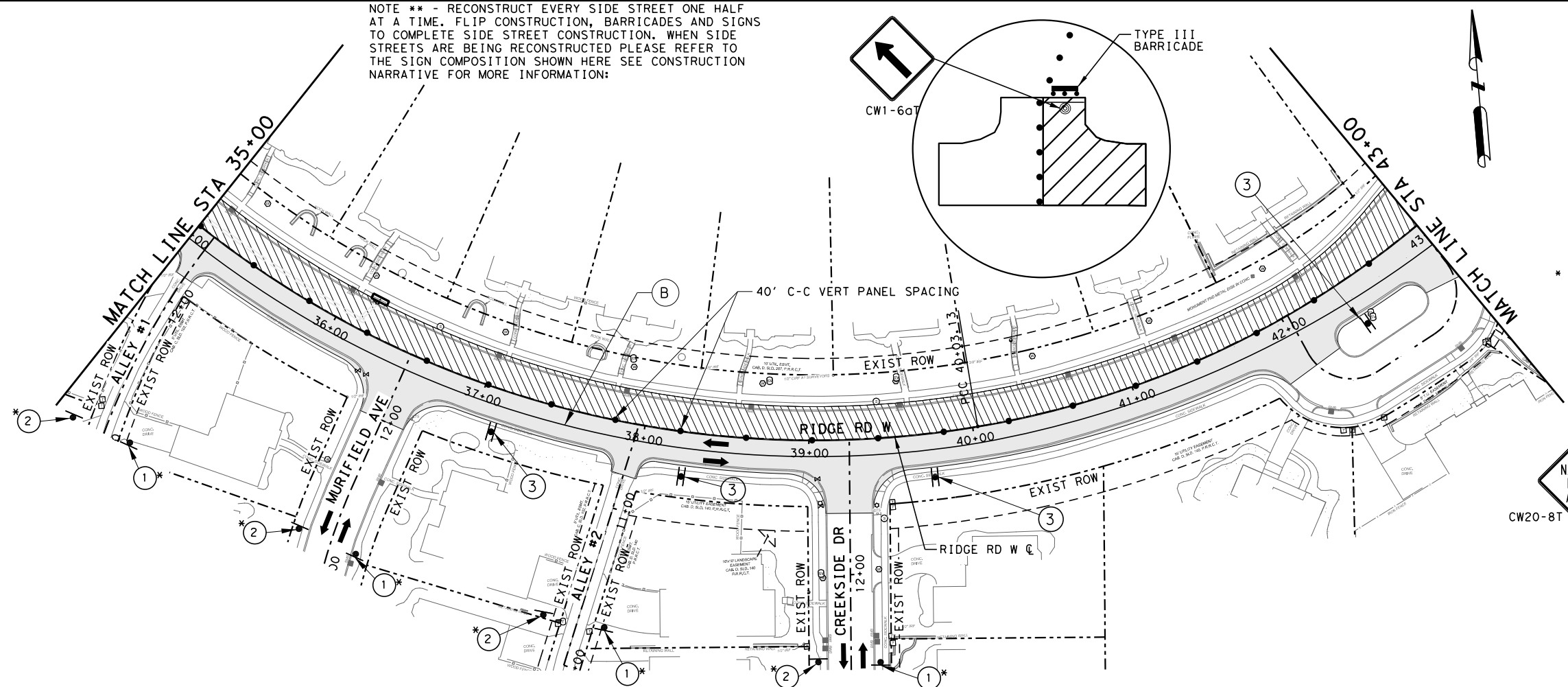


TRAFFIC CONTROL PLAN
TYPICAL SECTION A-A

- LEGEND**
- TEMP ASPHALT PAVEMENT THIS PHASE
 - TEMP ASPHALT PAVEMENT PREVIOUS PHASE
 - PERMANENT CONSTRUCTION THIS PHASE
 - PERMANENT CONSTRUCTION PREVIOUS PHASE
 - DIRECTION OF TRAFFIC
 - CHANNELIZING DEVICE
 - TYPE III BARRICADES
 - SIGN
 - WK ZN PAV MRK REMOV (W) 4" (SLD)
 - WK ZN PAV MRK REMOV (Y) 4" (SLD)
 - WK ZN PAV MRK REMOV (W) 24" (SLD)

- NOTES:**
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DATE: 3/30/2021



NOTE ** - RECONSTRUCT EVERY SIDE STREET ONE HALF AT A TIME. FLIP CONSTRUCTION, BARRICADES AND SIGNS TO COMPLETE SIDE STREET CONSTRUCTION. WHEN SIDE STREETS ARE BEING RECONSTRUCTED PLEASE REFER TO THE SIGN COMPOSITION SHOWN HERE SEE CONSTRUCTION NARRATIVE FOR MORE INFORMATION:

- GRAPHIC SCALE**
- 40 20 0 40 80
- 1 ROAD WORK AHEAD # CW20-1D
- 2 END ROAD WORK # G20-2
- * PLACE SIGNS 120' FROM CONSTRUCTION AREA
- 4 YIELD TO ONCOMING TRAFFIC R1-2aP
- 3 NARROW LANES AHEAD CW20-8T
- TRAFFIC

STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

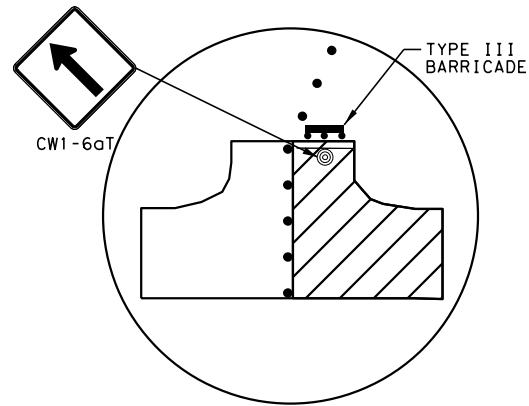
RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE III

SHEET 2 OF 3

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003		23
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:	
CK: JMG DATE: 10/17/2023	VERT:	

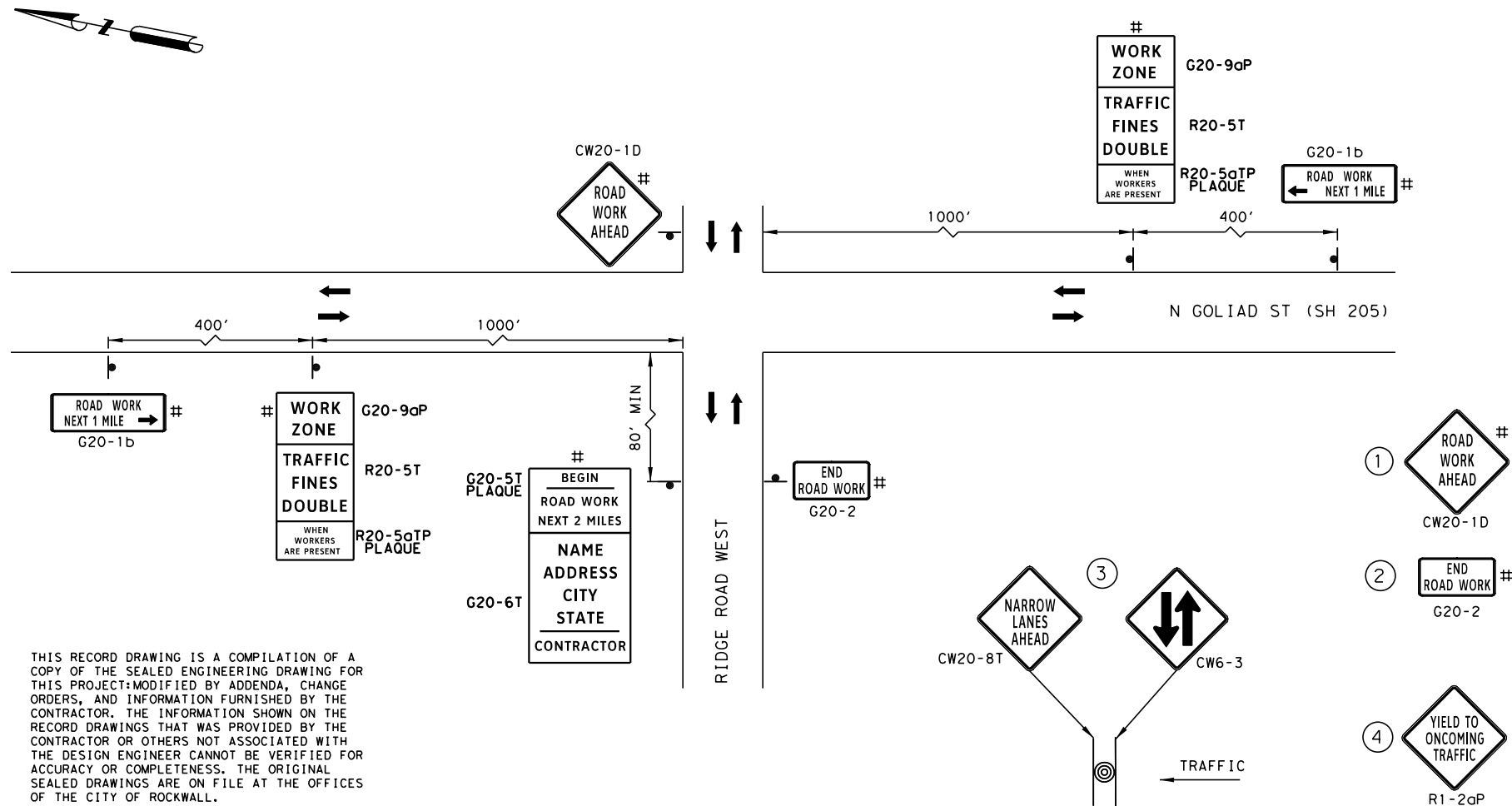
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DATE: 3/30/2021



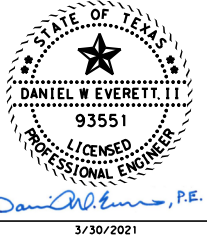
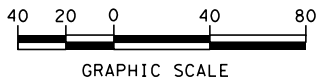
LEGEND

- TEMP ASPHALT PAVEMENT THIS PHASE
- TEMP ASPHALT PAVEMENT PREVIOUS PHASE
- PERMANENT CONSTRUCTION THIS PHASE
- PERMANENT CONSTRUCTION PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE III BARRICADES
- SIGN
- WK ZN PAV MRK REMOV (W) 4" (SLD)
- WK ZN PAV MRK REMOV (Y) 4" (SLD)
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NOTES:

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* PLACE SIGNS 120' FROM CONSTRUCTION AREA



REV NO	DATE	DESCRIPTION	BY
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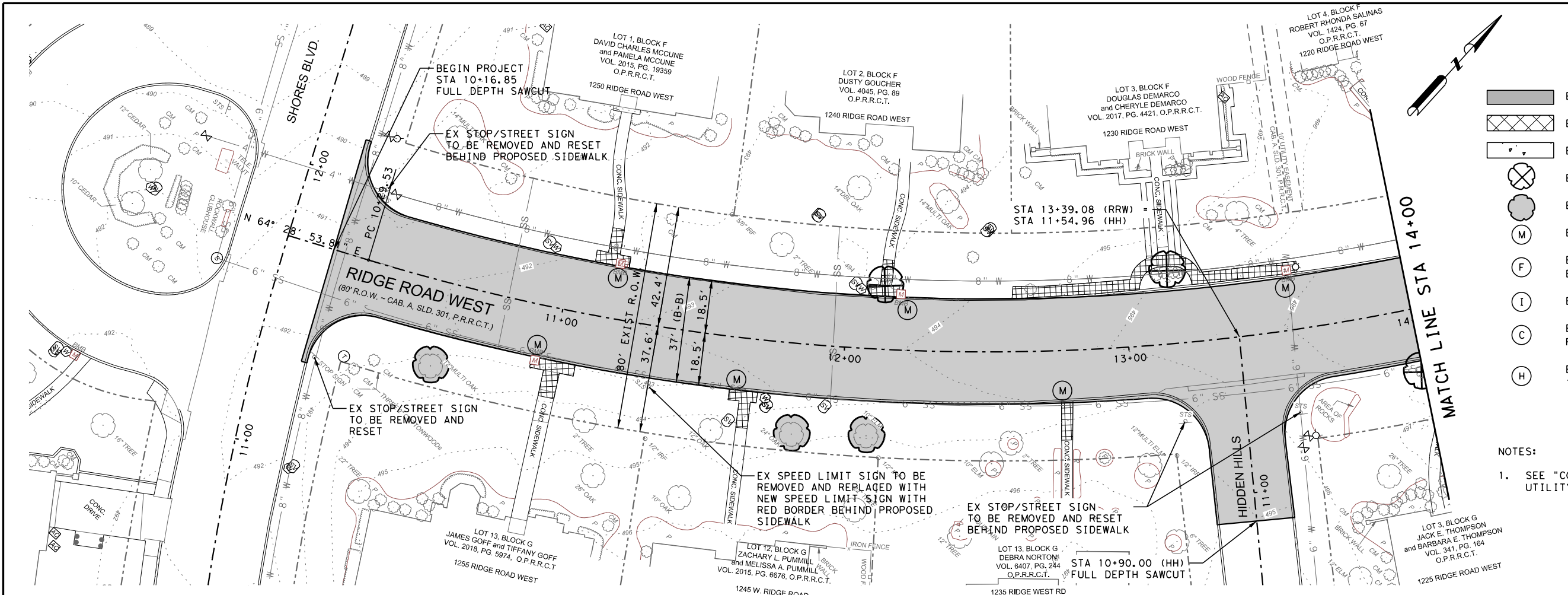
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
TRAFFIC CONTROL PLAN
PHASE III

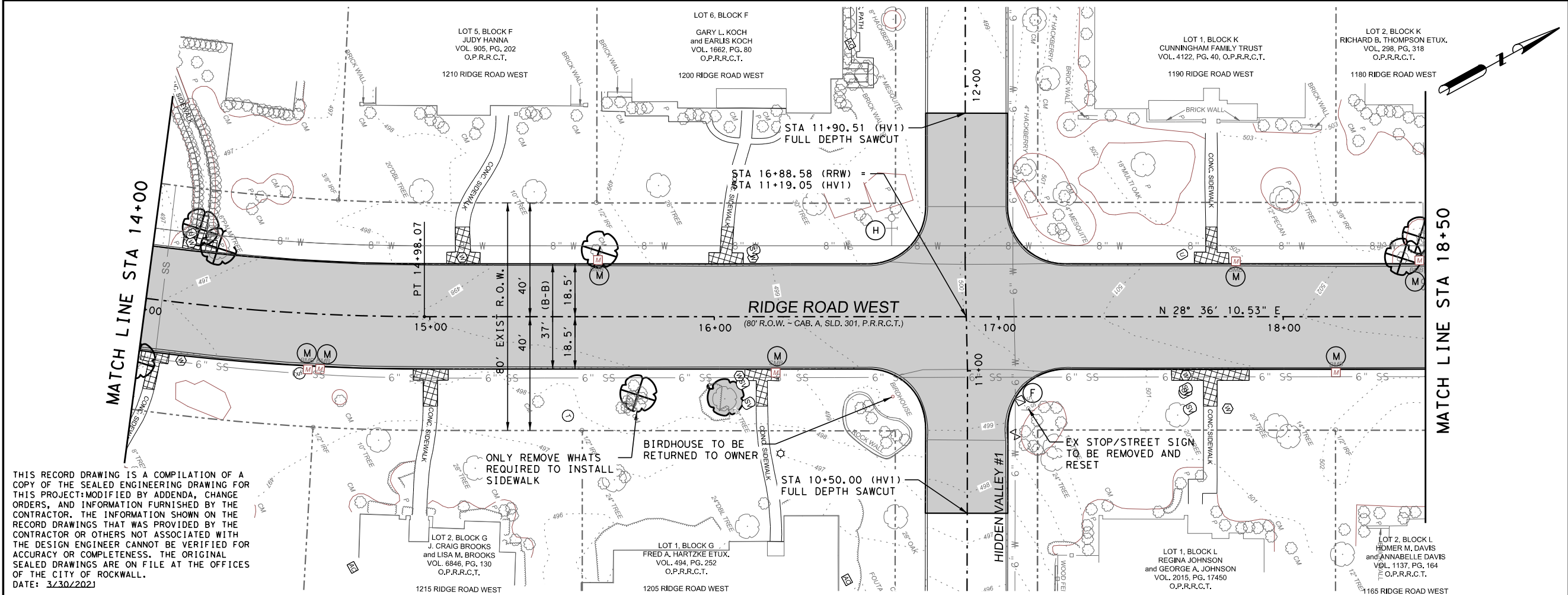
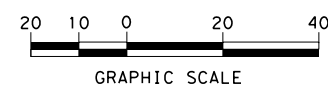
SHEET 3 OF 3

DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	24
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		



- LEGEND**
- EX CONC TO BE REMOVED
 - EX SIDEWALK/RAMP TO BE REMOVED
 - EX DRIVEWAY TO BE REMOVED
 - EX TREE/BUSH TO BE REMOVED
 - EX TREE TO BE PROTECTED
 - EX MAILBOX TO BE REMOVED/REPLACED
 - EX FRANCHISE UTILITY TO BE MOVED BY OTHERS
 - EX INLET TO BE REMOVED/REPLACED
 - EX CLEANOUT TO BE MOVED BEHIND PROPOSED SIDEWALK
 - EX FIRE HYDRANT TO BE RELOCATED 1.0' BEHIND PROPOSED SIDEWALK

NOTES:
1. SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND.



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DATE: 3/30/2021

STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
3/30/2021

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CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

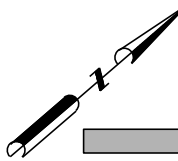
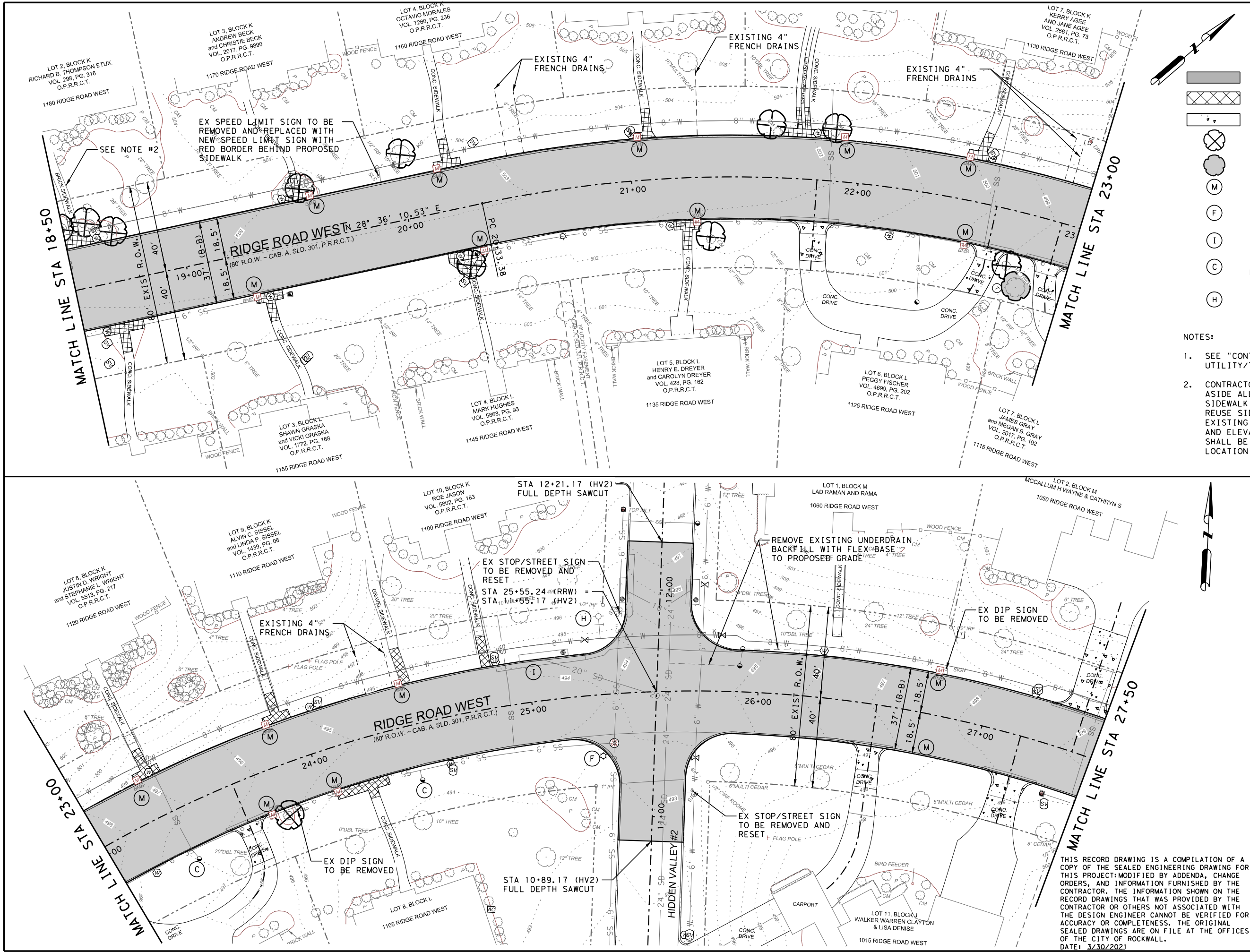
RIDGE ROAD WEST
REMOVAL PLAN

SHEET 1 OF 5

DSN: DNE PROJECT: RIDGE ROAD WEST	
CK: JMG/CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'
CK: JMG DATE: 10/17/2023	VERT: 25'

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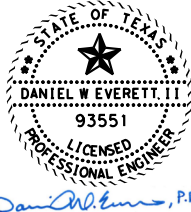
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LEGEND

- EX CONC TO BE REMOVED
- EX SIDEWALK/RAMP TO BE REMOVED
- EX DRIVEWAY TO BE REMOVED
- EX TREE/BUSH TO BE REMOVED
- EX TREE TO BE PROTECTED
- EX MAILBOX TO BE REMOVED/REPLACED
- EX FRANCHISE UTILITY TO BE MOVED BY OTHERS
- EX INLET TO BE REMOVED/REPLACED
- EX CLEANOUT TO BE MOVED BEHIND PROPOSED SIDEWALK
- EX FIRE HYDRANT TO BE RELOCATED 1.0' BEHIND PROPOSED SIDEWALK

- NOTES:
- SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND.
 - CONTRACTOR SHALL SALVAGE AND STACK NEATLY ASIDE ALL BRICK PAVERS FOR THE EXISTING SIDEWALK AND DRIVEWAYS. CONTRACTOR SHALL REUSE SIDEWALK BRICKS FOR REPLACEMENT OF EXISTING LEADWALK TO PROPOSED LOCATION AND ELEVATIONS. ALL LEFT OVER BRICKS SHALL BE RETURNED TO THE HOME OWNER TO LOCATION DESIRED ON THEIR PROPERTY.



REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

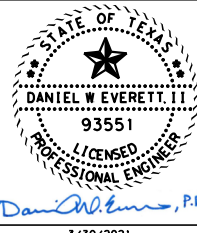
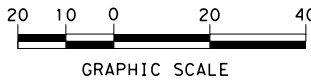
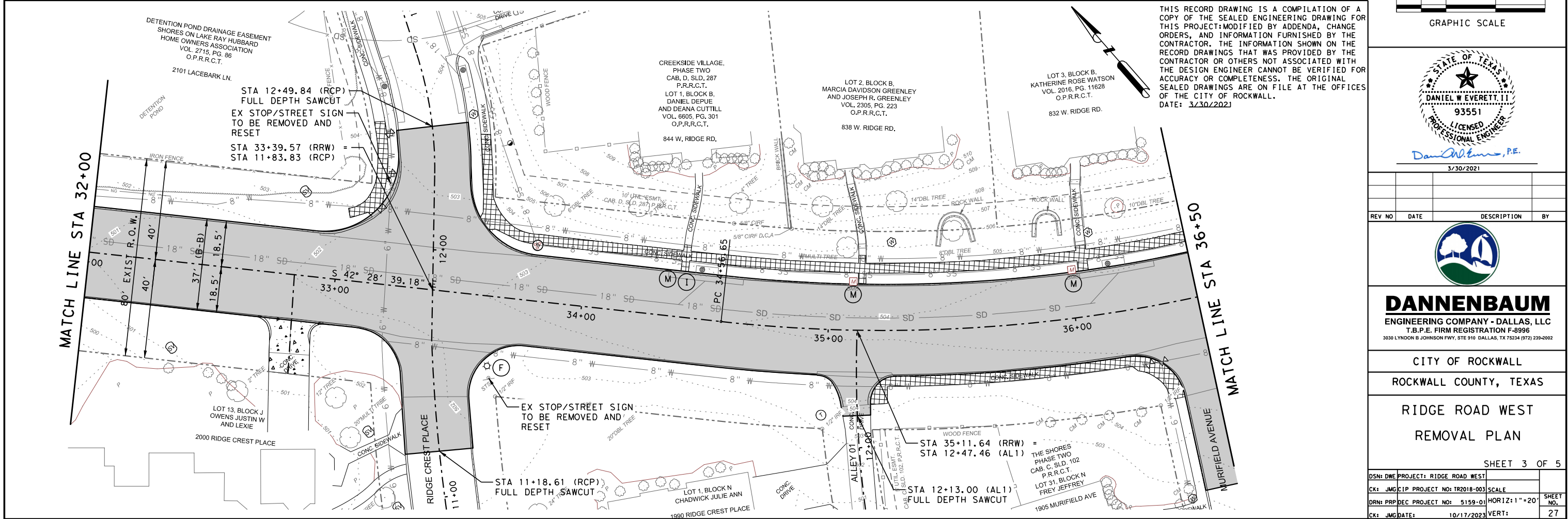
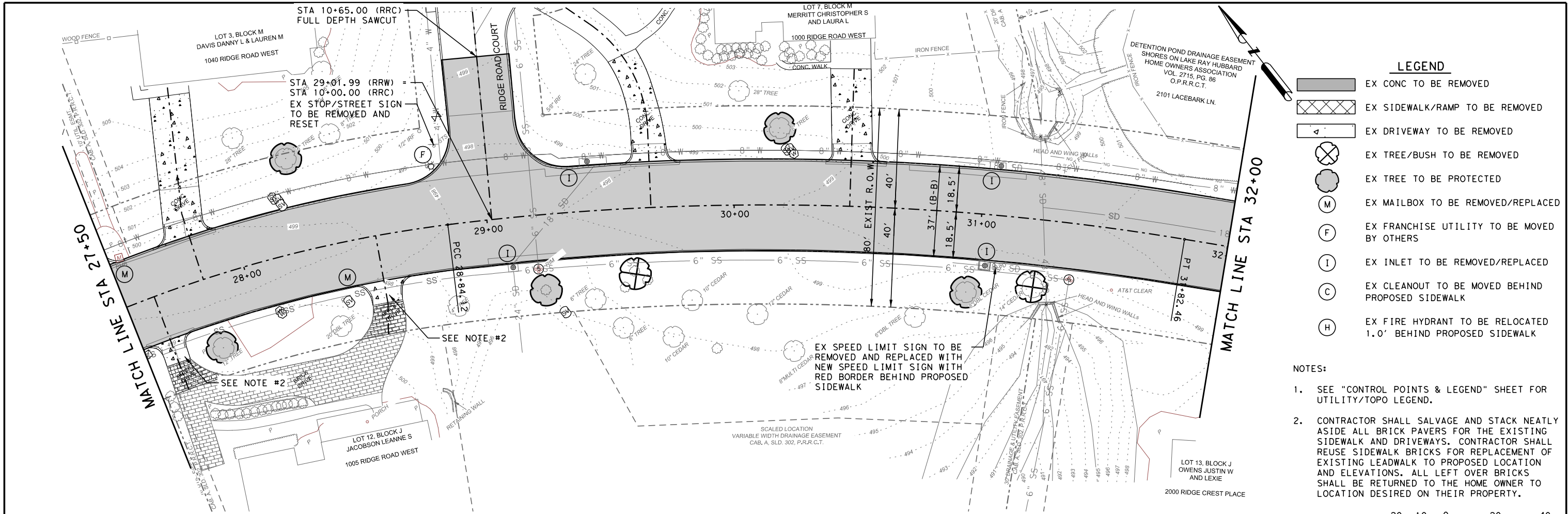
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
REMOVAL PLAN

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2023

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ: 1"=20'	26
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

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REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

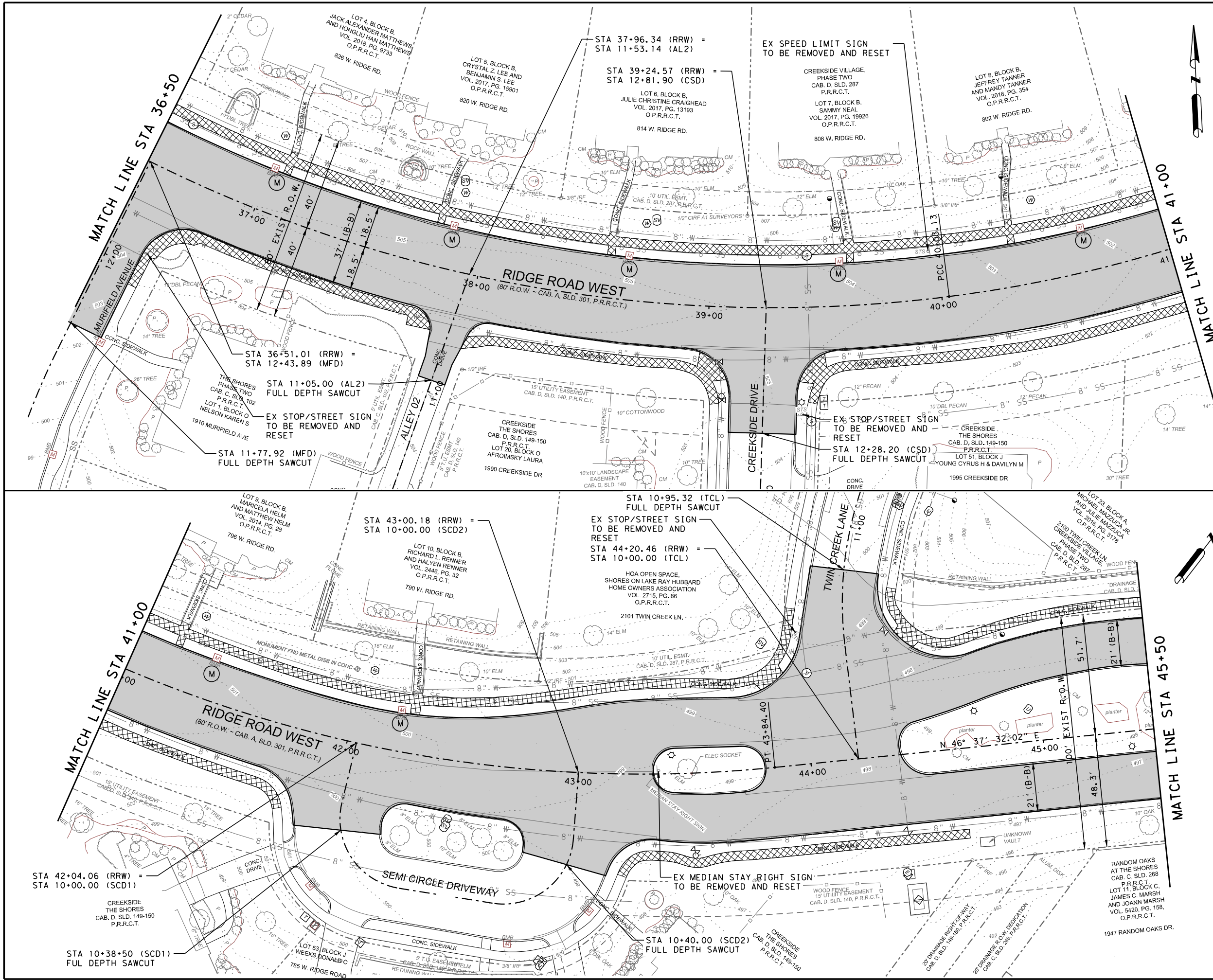
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
REMOVAL PLAN

SHEET 3 OF 5

DSN: DME PROJECT: RIDGE ROAD WEST	
CK: JMC CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1"=20'
CK: JMC DATE: 10/17/2023	VERT: 27

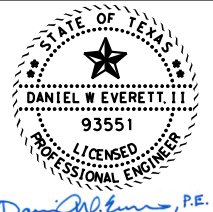
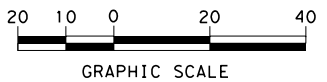
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- LEGEND**
- EX CONC TO BE REMOVED
 - EX SIDEWALK/RAMP TO BE REMOVED
 - EX DRIVEWAY TO BE REMOVED
 - EX TREE/BUSH TO BE REMOVED
 - EX TREE TO BE PROTECTED
 - EX MAILBOX TO BE REMOVED/REPLACED
 - EX FRANCHISE UTILITY TO BE MOVED BY OTHERS
 - EX INLET TO BE REMOVED/REPLACED
 - EX CLEANOUT TO BE MOVED BEHIND PROPOSED SIDEWALK
 - EX FIRE HYDRANT TO BE RELOCATED 1.0' BEHIND PROPOSED SIDEWALK

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DATE: 3/30/2021

- NOTES:
- SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND.



REV NO	DATE	DESCRIPTION	BY



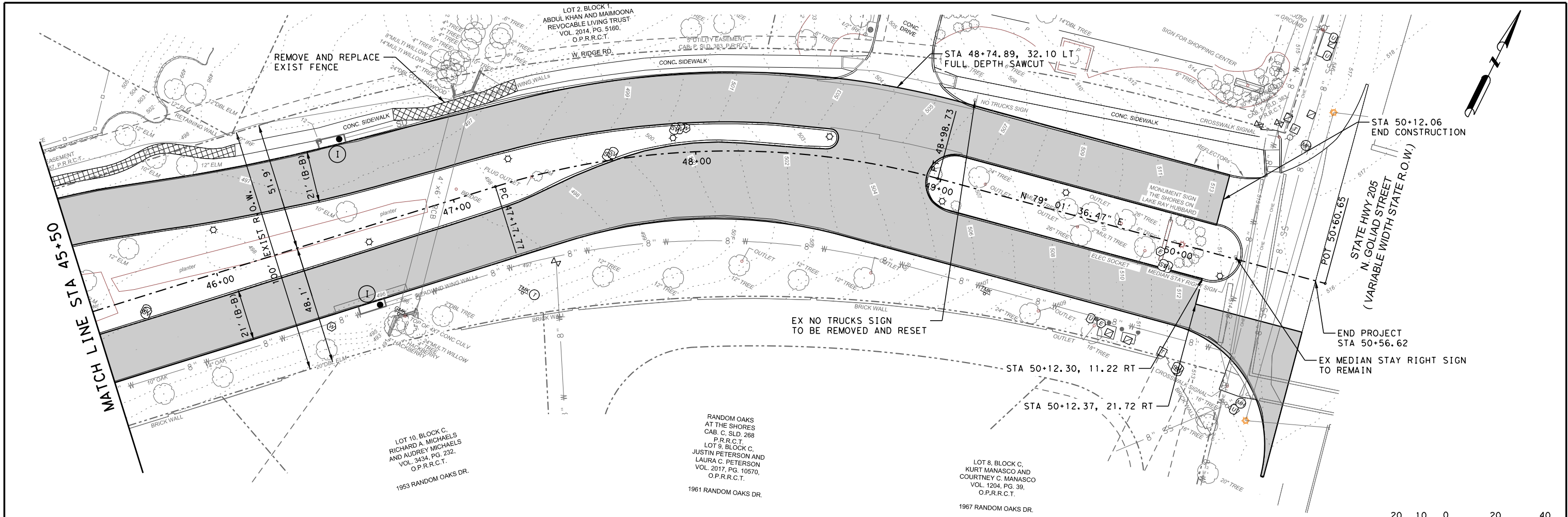
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
REMOVAL PLAN

DSN: DME PROJECT: RIDGE ROAD WEST	SHEET NO.
CK: JMC CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'
CK: JMC DATE: 10/17/2023	VERT: 28

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- LEGEND**
- EX CONC TO BE REMOVED
 - EX SIDEWALK/RAMP TO BE REMOVED
 - EX DRIVEWAY TO BE REMOVED
 - EX TREE TO BE REMOVED
 - EX TREE TO BE PROTECTED
 - EX MAILBOX TO BE REMOVED/REPLACED

NOTES:

- SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND.

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DATE: 3/30/2021

20 10 0 20 40
GRAPHIC SCALE

STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
REMOVAL PLAN

SHEET 5 OF 5

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	SCALE	29
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1"=20'	
CK: JMG DATE: 10/17/2023	VERT: 1"=20'	

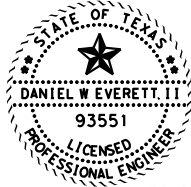
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RIDGE ROAD WEST CONTROL POINT TABLE				
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
411	CP\ X CUT SET	7036986.386	2591392.532	503.914
412	CP\ X CUT SET	7036973.025	2591193.83	499.877
413	CP\ X CUT SET	7037195.878	2591389.586	505.099
415	CP\ X CUT	7037302.027	2591150.892	499.975
800	SAC58	7036385.047	2589599.719	492.17
801	CP - SAC58	7036738.661	2589484.799	481.508
803	SAC58	7037398.402	2592870.164	517.715
804	SAC58	7037028.81	2592253.369	498.742
805	SAC58	7036787.58	2591820.648	504.762
806	SAC58	7036920.211	2591547.303	504.82
807	SAC58	7037074.363	2591301.245	502.813
808	SAC58	7037413.642	2591013.909	498.557
809	SAC58	7037516.122	2590675.208	495.267
810	SAC58	7037377.382	2590336.5	501.506
811	SAC58	7037045.304	2590162.707	501.919
812	SAC58	7036899.866	2590032.799	500.088
813	SAC58	7036606.86	2589917.719	496.062

* LEGEND *

CIRF	IRON ROD WITH CAP FOUND	SV	IRRIGATION CONTROL VALVE
IRF	IRON ROD FOUND	IX	IRRIGATION SPRINKLER HEAD
XCF	"X" CUT FOUND	●	BOLLARD POST
P. R. ? . C. T.	PLAT RECORDS	○	SIGN
○	??? COUNTY, TEXAS	RS	RAILROAD SIGNAL
⊕	CONTROL POINT	U	UTILITY RISER/BOX
⊕	TEMPORARY BENCHMARK	M	UTILITY MANHOLE
○	PROPERTY CORNER	U	UTILITY PULL BOX
○	MARKER FOUND - AS NOTED	U	UTILITY METER
○	PROPERTY CORNER SET	UMK	UTILITY LINE MARKER
○	POWER POLE	M	MONITORING WELL
○	GUY WIRE	TS	TRAFFIC SIGNAL SPAN
⊙	LIGHT POLE	OE	OVERHEAD ELEC.
⊙	ELECTRIC METER	E	U. G. ELECTRIC
EMK	ELECTRIC LINE MARKER	T	U. G. TELE. LINE
⊙	ELECTRIC PULL BOX	FO	U. G. FIBER OPTIC
⊙	ELECTRIC MANHOLE	CATV	U. G. CABLE TV
⊙	ELECTRIC BOX (PANEL)	NG	U. G. GAS
⊙	YARD LIGHT	W	U. G. WATER
CMK	CATV MARKER	SS	U. G. SAN. SEWER
TV	CATV RISER	SD	U. G. STORM SEWER
TV	CATV PULL BOX	O	CHAIN LINK FENCE
TV	CATV MANHOLE	□	WOOD FENCE
TMK	TELEPHONE MARKER	X	WIRE FENCE
T	TELEPHONE RISER	□	WROUGHT IRON FENCE
T	TELEPHONE MANHOLE	—	ASPHALT EDGE
T	TELEPHONE PULL BOX	■	CONCRETE AREA
EMK	FIBER OPTIC MARKER	■	GRAVEL AREA
F	FIBER OPTIC PULL BOX	CI	CURB INLET
AC	AC COMPRESSOR UNIT	GI	GRATE INLET
M	MAILBOX	DP	DIESEL PUMP
GMK	GAS MARKER	GP	GASOLINE PUMP
G	GAS MANHOLE	OWS	ONE WAY SIGN
G	GAS METER	NPS	NO PARKING SIGN
G	GAS VALVE	NTS	NO TRUCKS SIGN
G	GAS TEST STATION	SLS	SPEED LIMIT SIGN
●	TREE (AS DESCRIBED)	STS	STOP SIGN
●	BUSH (GENERAL)	R/W	RETAINING WALL
●	CM (CREPE MYRTLE)	RTS	RIGHT TURN SIGN
W	WATER MANHOLE	TOS	TURN ONLY SIGN
W	WATER METER	TES	TOWING ENFORCED SIGN
W	WATER VALVE	X 555.55	SPOT ELEVATION
W	WATER FAUCET	EC 555.55	EDGE OF CONCRETE ELEVATION
W	FIRE HYDRANT	GT 555.55	GUTTER ELEVATION
S	SAN. SEWER MANHOLE	TC 555.55	TOP OF CURB ELEVATION
S	SAN. SEWER CLEANOUT	TW 555.55	TOP OF WALL ELEVATION
D	STORM DRAIN MANHOLE	—	SUBJECT PROPERTY LINE
⊙	INLET RIM	—	EXISTING EASEMENT LINE
⊙	TRAFFIC SIGNAL LIGHT	—	BUILDING SETBACK LINE
TR	TRAFFIC SIGNAL BOX	⬆	FIRELINE PAINT MARKS
		⬆	INVERT REFERENCE
		⬆	PHOTO LOCATION REFERENCE
		⬆	CANOPY - COVERED AREA

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DATE: 3/30/2023



Daniel W. Everett, II, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
CONTROL POINTS &
LEGEND

SHEET 1 OF 1

DSN: DNE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: JMG	DATE: 10/17/2023	VERT:	30

```
Beginning chain RIDGEROADWEST description
Feature: Road_Centerline
=====
```

		Curve Data			

Curve RIDGEROADWEST_3					
P.I.	Station	12+71.77	N	7,036,532.2208	E 2,589,859.0743
Delta	=	35° 52' 43.28"	(LT)		
Degree	=	7° 39' 27.40"			
Tangent	=	242.2360			
Length	=	468.5363			
Radius	=	748.2200			
External	=	38.2350			
Long Chord	=	460.9185			
Mid. Ord.	=	36.3761			
P.C.	Station	10+29.53	N	7,036,427.8653	E 2,589,640.4691
P.T.	Station	14+98.07	N	7,036,744.8939	E 2,589,975.0416
C.C.			N	7,037,103.0943	E 2,589,318.1354
Back	= N 64° 28' 53.81"	E			
Ahead	= N 28° 36' 10.53"	E			
Chord Bear	= N 46° 32' 32.17"	E			

			Curve Data				

Curve	RIDGEROADWEST_6						
P.I.	Station		25+83.47	N	7,037,697.8314	E	2,590,494.6631
Delta	=	92° 23' 46.42"	(RT)				
Degree	=	10° 51' 38.63"					
Tangent	=	550.0877					
Length	=	850.7367					
Radius	=	527.5499					
External	=	234.6216					
Long Chord	=	761.5050					
Mid. Ord.	=	162.3973					
P.C.	Station		20+33.38	N	7,037,214.8772	E	2,590,231.3159
P.T.	Station		28+84.12	N	7,037,414.5223	E	2,590,966.1845
C.C.				N	7,036,962.3197	E	2,590,694.4829
Back	= N	28° 36' 10.53"	E				
Ahead	= S	59° 00' 03.04"	E				
Chord Bear	= N	74° 48' 03.75"	E				

			Curve Data				

Curve RIDGEROADWEST_7							
P.I. Station			30+34.33	N	7,037,337.1580	E	2,591,094.9446
Delta =	16°	31' 23.86"	(RT)				
Degree =	5°	32' 18.02"					
Tangent =		150.2144					
Length =		298.3438					
Radius =		1,034.5299					
External =		10.8487					
Long Chord =		297.3110					
Mid. Ord. =		10.7361					
P.C. Station		28+84.12	N	7,037,414.5222	E		2,590,966.1846
P.T. Station		31+82.46	N	7,037,226.3685	E		2,591,196.3846
C.C.			N	7,036,527.7492	E		2,590,433.3754
Back = S	59°	00' 03.04" E					
Ahead = S	42°	28' 39.18" E					
Chord Bear = S	50°	44' 21.11" E					

			Curve Data			

Curve	RIDGEROADWES_10					
P. I.	Station					
Delta	=	52° 13' 57.06"	N	7,036,807.3944	E	2,591,580.0018
Degree	=	9° 33' 29.02"	(LT)			
Tangent	=	293.8784				
Length	=	546.4761				
Radius	=	599.4499				
External	=	68.1613				
Long Chord	=	527.7485				
Mid. Ord.	=	61.2022				
P. C.	Station	34+56.65	N	7,037,024.1421	E	2,591,381.5453
P. T.	Station	40+03.13	N	7,036,831.5258	E	2,591,872.8878
C. C.			N	7,037,428.9514	E	2,591,823.6648
Back	= S	42° 28' 39.18"	E			
Ahead	= N	85° 17' 23.76"	E			
Chord Bear	= S	68° 35' 37.71"	E			

		Curve Data			

Curve RIDGEROADWES_11					
P.I. Station		N	7,036,847.8021	E	2,592,070.4350
Delta =	38° 39' 51.73"	(LT)			
Degree =	10° 08' 27.05"				
Tangent =	198.2165				
Length =	381.2736				
Radius =	564.9999				
External =	33.7611				
Long Chord =	374.0802				
Mid. Ord. =	31.8574				
P.C. Station	40+03.13	N	7,036,831.5258	E	2,591,872.8879
P.T. Station	43+84.40	N	7,036,983.9299	E	2,592,214.5148
C.C.		N	7,037,394.6177	E	2,591,826.4937
Back = N	85° 17' 23.76"	E			
Ahead = N	46° 37' 32.02"	E			
Chord Bear = N	65° 57' 27.89"	E			

			Curve Data			

Curve RIDGEROADWES_14						
P.I. Station			N	7,037,276.7262	E	2,592,524.4151
Delta	=	32° 24' 04.45"	(RT)			
Degree	=	17° 54' 17.75"				
Tangent	=	92.9723				
Length	=	180.9626				
Radius	=	320.0000				
External	=	13.2324				
Long Chord	=	178.5609				
Mid. Ord.	=	12.7070				
P.C. Station		47+17.77	N	7,037,212.8762	E	2,592,456.8352
P.T. Station		48+98.73	N	7,037,294.4235	E	2,592,615.6875
C.C.			N	7,036,980.2742	E	2,592,676.5995
Back	= N	46° 37' 32.02"	E			
Ahead	= N	79° 01' 36.47"	E			
Chord Bear	= N	62° 49' 34.25"	E			

=====

Ending chain RIDGEROADWEST description

```
Beginning chain SHORESBLVD description
Feature: Road_Centerline
=====
```

				Curve Data			

Curve SHORESBLVD_3							
P.I.	Station			N	7,036,261.3384	E	2,589,686.4881
Delta	=	21° 55'	10+07.82 38.13"	(RT)			
Degree	=	6° 26'	15.82"				
Tangent	=		172.4122				
Length	=		340.6056				
Radius	=		890.0000				
External	=		16.5462				
Long Chord	=		338.5308				
Mid. Ord.	=		16.2442				
P.C.	Station		8+35.41	N	7,036,144.2335	E	2,589,813.0283
P.T.	Station		11+76.01	N	7,036,417.2255	E	2,589,612.8323
C.C.				N	7,036,797.4402	E	2,590,417.5290
Back	= N	47° 13'	03.83" W				
Ahead	= N	25° 17'	25.69" W				
Chord Bear	= N	36° 15'	14.76" W				

=====

Ending chain SHORESBLVD description

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Beginning chain HIDDENHILLS description
Feature: Road_Centerline
=====
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=====
Ending chain HIDDENHILLS description
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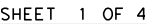
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Beginning chain HIDDENVALLEY description
Feature: Road_Centerline
=====
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.....
Ending chain HIDDENVALLEY description

```
Beginning chain HIDDENVALLEY2 description
Feature: Road_Centerline
=====
```

=====

Ending chain HIDDENVALLEY2 description



DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	NA
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	NA
CK: JMG	DATE: 10/17/2023	VERT:	NA
			SHEET NO. 31

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.

DATE: 3/30/2021


```

Beginning chain RIDGEROADCOURT description
Feature: Road_Centerline
=====
Point RIDGEROADCOURT1 N    7,037,405.1860 E    2,590,981.4234 Sta    10+00.00
Course from RIDGEROADCOURT1 to RIDGEROADCOURT2 N 32° 47' 55.77" E Dist 158.8192
Point RIDGEROADCOURT2 N    7,037,538.6859 E    2,591,067.4544 Sta    11+58.82
=====
Ending chain RIDGEROADCOURT description

```

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Beginning chain RIDGECRESTPL description
Feature: Road_Centerline
=====
Curve Data
*-----*
Curve RIDGECRESTPL_1
P.I. Station      = 10+40.01  N      7,036,997.4867  E      2,591,208.9298
Delta             = 21° 13' 48.87" (RT)
Degree            = 8° 29' 39.21"
Tangent           = 126.4184
Length            = 249.9374
Radius            = 674.5263
External          = 11.7443
Long Chord        = 248.5100
Mid. Ord.         = 11.5433
P.C. Station      = 9+13.59  N      7,036,877.2256  E      2,591,169.9567
P.T. Station      = 11+63.53  N      7,037,095.4731  E      2,591,288.8064
C.C.              = N      7,036,669.2782  E      2,591,811.6292
Back              = N 17° 57' 21.60" E
Ahead             = N 39° 11' 10.47" E
Chord Bear        = N 28° 34' 16.04" E

Course from PT RIDGECRESTPL_1 to PC RIDGECRESTPL_2 N 42° 18' 58.23" E Dist 67.3

```

```

Beginning chain CREEKSIDEDR description
Feature: Road_Centerline
=====
Point CREEKSIDEDR1      N    7,036,548.9695 E    2,591,773.0413 Sta      10+00.00
Course from CREEKSIDEDR1 to CREEKSIDEDR2 N 4° 20' 29.70" E Dist 281.8973
Point CREEKSIDEDR2      N    7,036,830.0578 E    2,591,794.3816 Sta      12+81.90
=====
Ending chain CREEKSIDEDR description

```

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Beginning chain MURIFIELDAVE description
Feature: Road_Centerline
=====
                                Curve Data
                                *-----*
Curve MURIFIELDAVE_1
P.I. Station      10+78.66   N      7,036,757.0723   E      2,591,452.4570
Delta            =      26° 52' 37.17" (RT)
Degree           =      17° 24' 20.00"
Tangent          =      78.6557
Length           =     154.4162
Radius           =     329.1810
External         =      9.2667
Long Chord       =     153.0043
Mid. Ord.        =      9.0130
P.C. Station      10+00.00   N      7,036,678.4623   E      2,591,449.7754
P.T. Station      11+54.42   N      7,036,825.9785   E      2,591,490.3867
C.C.              N      7,036,667.2394   E      2,591,778.7650
Back             = N      1° 57' 13.59" E
Ahead            = N      28° 49' 50.76" E
Chord Bear       = N      15° 23' 32.18" E

Course from PT MURIFIELDAVE_1 to MURIFIELDAVE3 N 28° 49' 50.76" E Dist 89.4991

Point MURIFIELDAVE3   N      7,036,904.3840   E      2,591,533.5454 Sta      12+43.92
=====
Ending chain MURIFIELDAVE description

```

```

Beginning chain TWINCREEKLANE description
Feature: Road_Centerline
=====
Point TWINCREEKLANE1   N      7,037,008.6966 E      2,592,240.7283 Sta      10+00.00

Course from TWINCREEKLANE1 to PC TWINCREEKLANE_3 N 44° 25' 39.79" W Dist 49.446

                                     Curve Data
                                     *-----*

Curve TWINCREEKLANE_3
P.I. Station      11+14.20   N      7,037,090.2530   E      2,592,160.7850
Delta             =      46° 42' 02.08" (RT)
Degree           =      38° 11' 49.87"
Tangent          =      64.7563
Length           =     122.2618
Radius           =     150.0000
External         =      13.3811
Long Chord       =     118.9054
Mid. Ord.        =     12.2852
P.C. Station      10+49.45   N      7,037,044.0083   E      2,592,206.1150
P.T. Station      11+71.71   N      7,037,154.9584   E      2,592,163.3531
C.C.              N      7,037,149.0096   E      2,592,313.2351
Back             = N 44° 25' 39.79" W
Ahead            = N 2° 16' 22.29" E
Chord Bear       = N 21° 04' 38.75" W

Course from PT TWINCREEKLANE_3 to TWINCREEKLANE5 N 2° 16' 22.29" E Dist 109.175

Point TWINCREEKLANE5   N      7,037,264.0483 E      2,592,167.6828 Sta      12+80.88

=====
Ending chain TWINCREEKLANE description

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Beginning chain ALLEY01 description
Feature: Road_Centerline
=====
Curve Data
*-----*
Curve ALLEY01_1
P.I. Station      11+22.81  N      7,036,888.4684  E      2,591,332.2420
Delta            =      31° 55' 48.91"  (RT)
Degree           =      13° 20' 50.69"
Tangent          =      122.8071
Length           =      239.2243
Radius           =      429.2650
External         =      17.2213
Long Chord       =      236.1406
Mid. Ord.        =      16.5571
P.C. Station      10+00.00  N      7,036,767.6783  E      2,591,310.0766
P.T. Station      12+39.22  N      7,036,979.2592  E      2,591,414.9380
C.C.              N      7,036,690.2003  E      2,591,732.2917
Back             = N 10° 23' 53.86" E
Ahead            = N 42° 19' 42.77" E
Chord Bear       = N 26° 21' 48.31" E

Course from PT ALLEY01_1 to ALLEY013 N 42° 19' 42.77" E Dist 8.2348

Point ALLEY013      N      7,036,985.3471  E      2,591,420.4831  Sta      12+47.46
=====
Ending chain ALLEY01 description



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Beginning chain ALLEY02 description
Feature: Road_Centerline
=====
Point ALLEY021      N    7,036,708.2339 E    2,591,610.0022 Sta      10+00.00
Course from ALLEY021 to ALLEY022 N 22° 13' 33.59" E Dist 153.2269
Point ALLEY022      N    7,036,850.0759 E    2,591,667.9620 Sta      11+53.23
=====
Ending chain ALLEY02 description

```

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DATE: 3/30/2021

 <i>Daniel W. Everett, P.E.</i>			
3/30/2021			
REV NO	DATE	DESCRIPTION	BY
			
<h1 style="margin: 0;">DANNENBAUM</h1> <p style="margin: 0;">ENGINEERING COMPANY - DALLAS, LLC T.B.P.E. FIRM REGISTRATION F-8996</p> <p style="margin: 0;">3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002</p>			
CITY OF ROCKWALL			
ROCKWALL COUNTY, TEXAS			
<h2 style="margin: 0;">RIDGE ROAD WEST HORIZONTAL ALIGNMENT DATA</h2>			
SHEET 2 OF 4			
DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	NA
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	NA
CK: JMG	DATE: 10/17/2023	VERT:	NA
			SHEET NO. 32

USER: 10/17/2023 2:02:03 PM
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SEMI CIRCLE DRIVEWAY #1

Beginning chain SEMICIRCLE01 description

Point SEMI101 N 7,036,882.9164 E 2,592,066.0487 Sta 10+00.00

Course from SEMI101 to PC SEMICIRCLE011 S 23° 55' 04.11" E Dist 26.3335

Curve SEMICIRCLE011
P.I. Station 10+58.86 N 7,036,829.1146 E 2,592,089.9104
Delta = 94° 37' 13.84" (LT)
Degree = 190° 59' 09.35"
Tangent = 32.5224
Length = 49.5432
Radius = 30.0000
External = 14.2460
Long Chord = 44.1022
Mid. Ord. = 9.6592
P.C. Station 10+26.33 N 7,036,858.8442 E 2,592,076.7250
P.T. Station 10+75.88 N 7,036,844.6520 E 2,592,118.4813
C.C. N 7,036,871.0069 E 2,592,104.1489
Back = S 23° 55' 04.11" E
Ahead = N 61° 27' 42.05" E
Chord Bear = S 71° 13' 41.03" E

Course from PT SEMICIRCLE011 to SEMI102 N 61° 27' 42.05" E Dist 16.4776

Point SEMI102 N 7,036,852.5241 E 2,592,132.9568 Sta 10+92.35

Ending chain SEMICIRCLE01 description

SEMI CIRCLE DRIVEWAY #2

Beginning chain SEMICIRCLE02 description

Point SEMI201 N 7,036,930.8557 E 2,592,149.2160 Sta 10+00.00

Course from SEMI201 to PC SEMICIRCLE021 S 33° 09' 31.78" E Dist 28.7230

Curve SEMICIRCLE021
P.I. Station 10+61.25 N 7,036,879.5837 E 2,592,182.7149
Delta = 94° 37' 13.84" (RT)
Degree = 190° 59' 09.35"
Tangent = 32.5224
Length = 49.5432
Radius = 30.0000
External = 14.2460
Long Chord = 44.1022
Mid. Ord. = 9.6592
P.C. Station 10+28.72 N 7,036,906.8100 E 2,592,164.9264
P.T. Station 10+78.27 N 7,036,864.0462 E 2,592,154.1441
C.C. N 7,036,890.4012 E 2,592,139.8117
Back = S 33° 09' 31.78" E
Ahead = S 61° 27' 42.05" W
Chord Bear = S 14° 09' 05.13" W

Course from PT SEMICIRCLE021 to SEMI202 S 61° 27' 42.05" W Dist 16.4776

Point SEMI202 N 7,036,856.1741 E 2,592,139.6685 Sta 10+94.74

Ending chain SEMICIRCLE02 description

RIDGE ROAD WEST LEFT TOC @ SPLIT

Beginning chain RRW_LL_FOC_SPL description

Curve RRW_LL_FOC_SPL1
P.I. Station 10+41.46 N 7,036,879.1369 E 2,592,010.7114
Delta = 8° 11' 06.05" (LT)
Degree = 9° 53' 13.58"
Tangent = 41.4629
Length = 82.7847
Radius = 579.5000
External = 1.4814
Long Chord = 82.7144
Mid. Ord. = 1.4777
P.C. Station 10+00.00 N 7,036,868.6531 E 2,591,970.5958
P.T. Station 10+82.78 N 7,036,895.2252 E 2,592,048.9258
C.C. N 7,037,429.3229 E 2,591,824.0705
Back = N 75° 21' 14.05" E
Ahead = N 67° 10' 08.00" E
Chord Bear = N 71° 15' 41.02" E

RIDGE ROAD WEST LEFT TOC @ SPLIT CONT

Curve Data

Curve RRW_LL_FOC_SPL2
P.I. Station 11+27.06 N 7,036,912.4033 E 2,592,089.7288
Delta = 23° 19' 24.82" (LT)
Degree = 26° 42' 40.75"
Tangent = 44.2716
Length = 87.3171
Radius = 214.5000
External = 4.5211
Long Chord = 86.7155
Mid. Ord. = 4.4277
P.C. Station 10+82.78 N 7,036,895.2252 E 2,592,048.9258
P.T. Station 11+70.10 N 7,036,944.3325 E 2,592,120.3964
C.C. N 7,037,092.9197 E 2,591,965.6963
Back = N 67° 10' 08.00" E
Ahead = N 43° 50' 43.17" E
Chord Bear = N 55° 30' 25.58" E

Curve Data

Curve RRW_LL_FOC_SPL3
P.I. Station 11+83.24 N 7,036,953.8053 E 2,592,129.4949
Delta = 6° 58' 32.17" (RT)
Degree = 26° 35' 14.53"
Tangent = 13.1345
Length = 26.2365
Radius = 215.5000
External = 0.3999
Long Chord = 26.2203
Mid. Ord. = 0.3992
P.C. Station 11+70.10 N 7,036,944.3325 E 2,592,120.3964
P.T. Station 11+96.34 N 7,036,962.1030 E 2,592,139.6764
C.C. N 7,036,795.0527 E 2,592,275.8177
Back = N 43° 50' 43.17" E
Ahead = N 50° 49' 15.35" E
Chord Bear = N 47° 19' 59.26" E

Course from PT RRW_LL_FOC_SPL3 to PC RRW_LL_FOC_SPL4 N 50° 49' 15.35" E Dist 68.3878

Curve Data

Curve RRW_LL_FOC_SPL4
P.I. Station 13+07.67 N 7,037,032.4369 E 2,592,225.9786
Delta = 19° 55' 26.26" (LT)
Degree = 23° 26' 01.88"
Tangent = 42.9447
Length = 85.0221
Radius = 244.5000
External = 3.7428
Long Chord = 84.5944
Mid. Ord. = 3.6864
P.C. Station 12+64.73 N 7,037,005.3067 E 2,592,192.6889
P.T. Station 13+49.75 N 7,037,069.2874 E 2,592,248.0305
C.C. N 7,037,194.8371 E 2,592,038.2270
Back = N 50° 49' 15.35" E
Ahead = N 30° 53' 49.08" E
Chord Bear = N 40° 51' 32.21" E

Curve Data

Curve RRW_LL_FOC_SPL5
P.I. Station 14+02.46 N 7,037,114.5181 E 2,592,275.0973
Delta = 24° 14' 08.73" (RT)
Degree = 23° 20' 18.25"
Tangent = 52.7108
Length = 103.8450
Radius = 245.5000
External = 5.5950
Long Chord = 103.0725
Mid. Ord. = 5.4703
P.C. Station 13+49.75 N 7,037,069.2874 E 2,592,248.0305
P.T. Station 14+53.59 N 7,037,144.6516 E 2,592,318.3453
C.C. N 7,036,943.2241 E 2,592,458.6921
Back = N 30° 53' 49.08" E
Ahead = N 55° 07' 57.82" E
Chord Bear = N 43° 00' 53.45" E

Course from PT RRW_LL_FOC_SPL5 to PC RRW_LL_FOC_SPL6 N 55° 07' 57.82" E Dist 26.3234

Curve Data

Curve RRW_LL_FOC_SPL6
P.I. Station 15+08.44 N 7,037,176.0084 E 2,592,363.3491
Delta = 5° 08' 54.91" (LT)
Degree = 9° 01' 48.24"
Tangent = 28.5272
Length = 57.0160
Radius = 634.5000
External = 0.6410
Long Chord = 56.9968
Mid. Ord. = 0.6403
P.C. Station 14+79.92 N 7,037,159.7001 E 2,592,339.9431
P.T. Station 15+36.93 N 7,037,194.3514 E 2,592,385.1971
C.C. N 7,037,680.2937 E 2,591,977.2139
Back = N 55° 07' 57.82" E
Ahead = N 49° 59' 02.91" E
Chord Bear = N 52° 33' 30.36" E

Course from PT RRW_LL_FOC_SPL6 to PC RRW_LL_FOC_SPL7 N 49° 59' 02.91" E Dist 87.5696

RIDGE ROAD WEST LEFT TOC @ SPLIT CONT

Curve Data

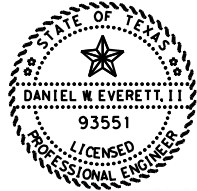

Curve RRW_LL_FOC_SPL7
P.I. Station 17+15.29 N 7,037,309.0332 E 2,592,521.7927
Delta = 29° 02' 33.57" (RT)
Degree = 16° 20' 48.73"
Tangent = 90.7847
Length = 177.6649
Radius = 350.5000
External = 11.5664
Long Chord = 175.7690
Mid. Ord. = 11.1969
P.C. Station 16+24.50 N 7,037,250.6587 E 2,592,452.2638
P.T. Station 18+02.17 N 7,037,326.3140 E 2,592,610.9175
C.C. N 7,036,982.2225 E 2,592,677.6351
Back = N 49° 59' 02.91" E
Ahead = N 79° 01' 36.47" E
Chord Bear = N 64° 30' 19.69" E

Course from PT RRW_LL_FOC_SPL7 to LFOC02 N 79° 01' 36.47" E Dist 111.9234

Point LFOC02 N 7,037,347.6186 E 2,592,720.7945 Sta 19+14.09

Ending chain RRW_LL_FOC_SPL description

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DATE: 3/30/2021

 <i>Daniel W. Everett, II, P.E.</i> 3/30/2021			
REV NO	DATE	DESCRIPTION	BY
			
DANNENBAUM ENGINEERING COMPANY - DALLAS, LLC T.B.P.E. FIRM REGISTRATION F-8996 3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002			
CITY OF ROCKWALL			
ROCKWALL COUNTY, TEXAS			
RIDGE ROAD WEST HORIZONTAL ALIGNMENT DATA			
SHEET 3 OF 4			
DSN: DME	PROJECT: RIDGE ROAD WEST	SCALE	NA
CK: JMG	CIP PROJECT NO: TR2018-003	HORIZ:	NA
DRN: PRP	DEC PROJECT NO: 5159-01	VERT:	NA
CK: JMG	DATE: 10/17/2023		33


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Beginning chain RRW_R_FOC_SPL description
=====
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Course from PT RRW_R_FOC_SPL1 to PC RRW_R_FOC_SPL2 N 58° 13' 45.61" E Dist 40.2486

Course from PT RRW_R_FOC_SPL2 to PC RRW_R_FOC_SPL3 N 46° 32' 48.93" E Dist 371.0870

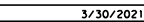
Course from PT RRW_R_FOC_SPL3 to RFOC02 N 79° 01' 36.47" E Dist 144.0502


Point	RFOC02	N	7,037,284.4269	E	2,592,733.3742	Sta	19+00.89
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=====
Ending chain RRW_R_FOC_SPL description
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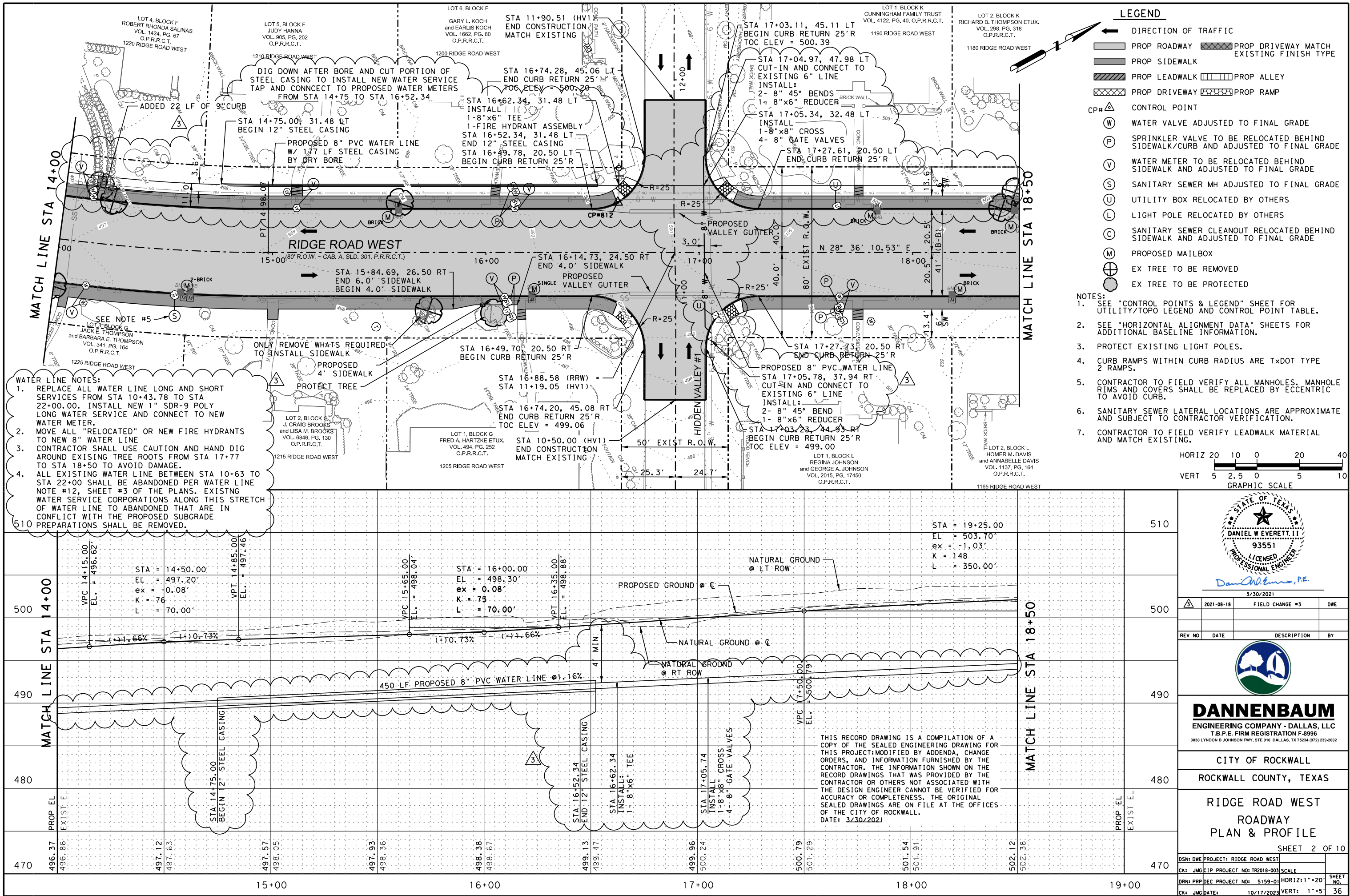
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THIS RECORD DRAWING IS A COMPILATION OF A
COMBINATION OF THE SEALED ENGINEERING DRAWING FOR
THIS PROJECT, MODIFIED, SUPPLEMENTED, APPENDIX, CHANGE
ORDERS, AND INFORMATION FURNISHED BY THE
CONTRACTOR. THE INFORMATION SHOWN ON THE
RECORD DRAWINGS THAT WAS PROVIDED BY THE
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ACCURACY OR COMPLETENESS. THE ORIGINAL
SEALED DRAWINGS ARE ON FILE AT THE OFFICES
OF THE CITY OF ROCKWALL.
DATE: 3/30/2021

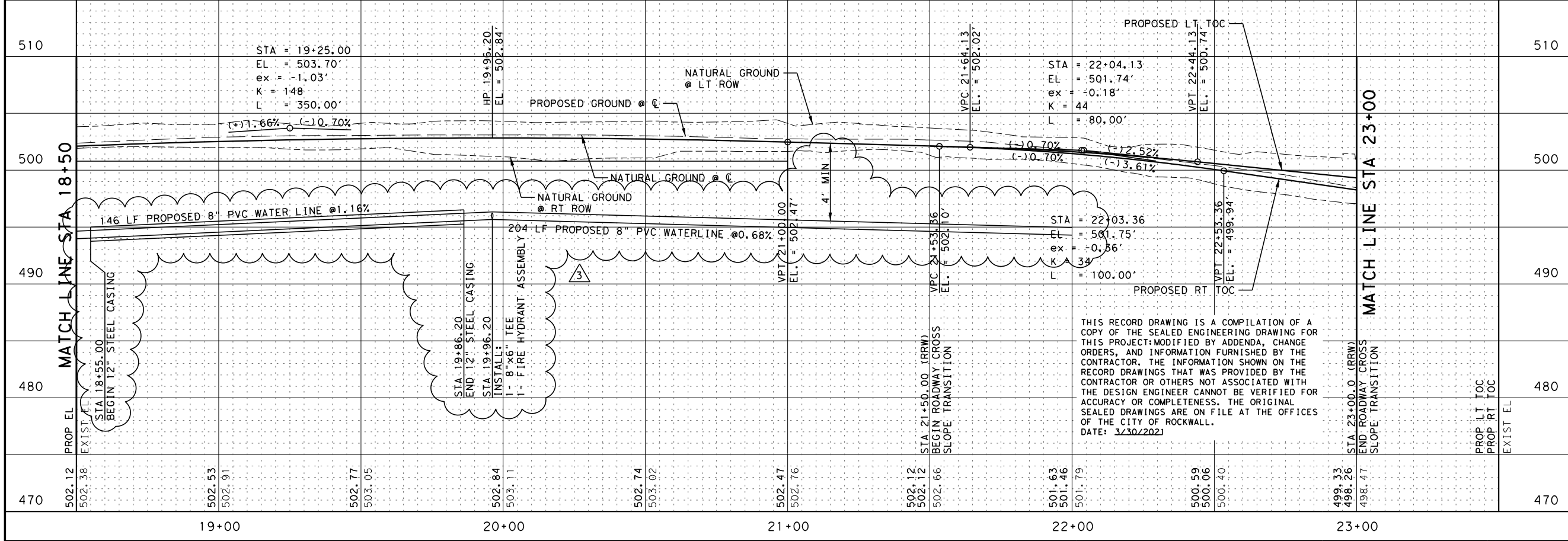
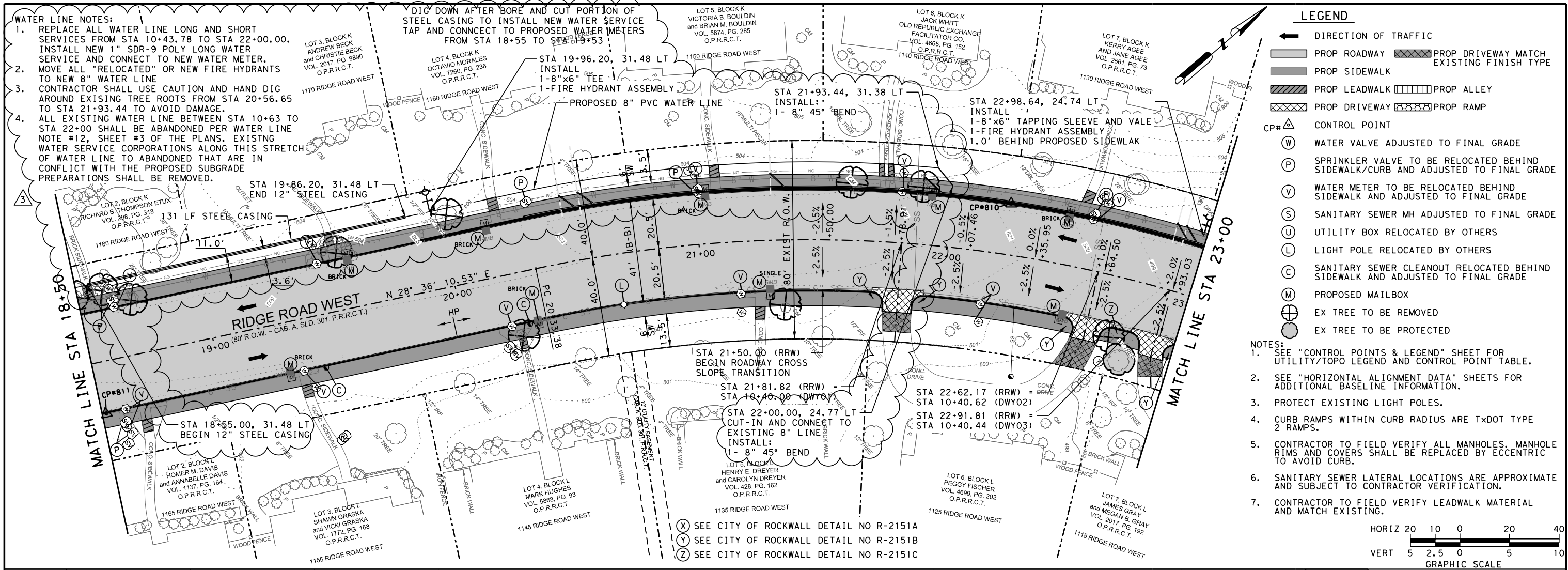


REV NO	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY				
									
<h1>DANNENBAUM</h1> <p>ENGINEERING COMPANY - DALLAS, LLC T.B.P.E. FIRM REGISTRATION F-8996 3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002</p>									
CITY OF ROCKWALL									
ROCKWALL COUNTY, TEXAS									
<h2>RIDGE ROAD WEST HORIZONTAL ALIGNMENT DATA</h2>									
SHEET 4 OF 4									
DRN:	DWE	PROJECT:	RIDGE ROAD WEST	SCALE:					
CK:	JMG	CIP PROJECT NO:	TR2018-003	SCALE:	NA				SHEET NO.
DRN:	PRP	DEC PROJECT NO:	5159-01	HORIZ:	NA				
CK:	JMG	DATE:	10/17/2023	VERT:	NA				34

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USER: 10/17/2023 2:02:54 PM
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STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.

3/30/2021

2021-08-18	FIELD CHANGE #3	DWE
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REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

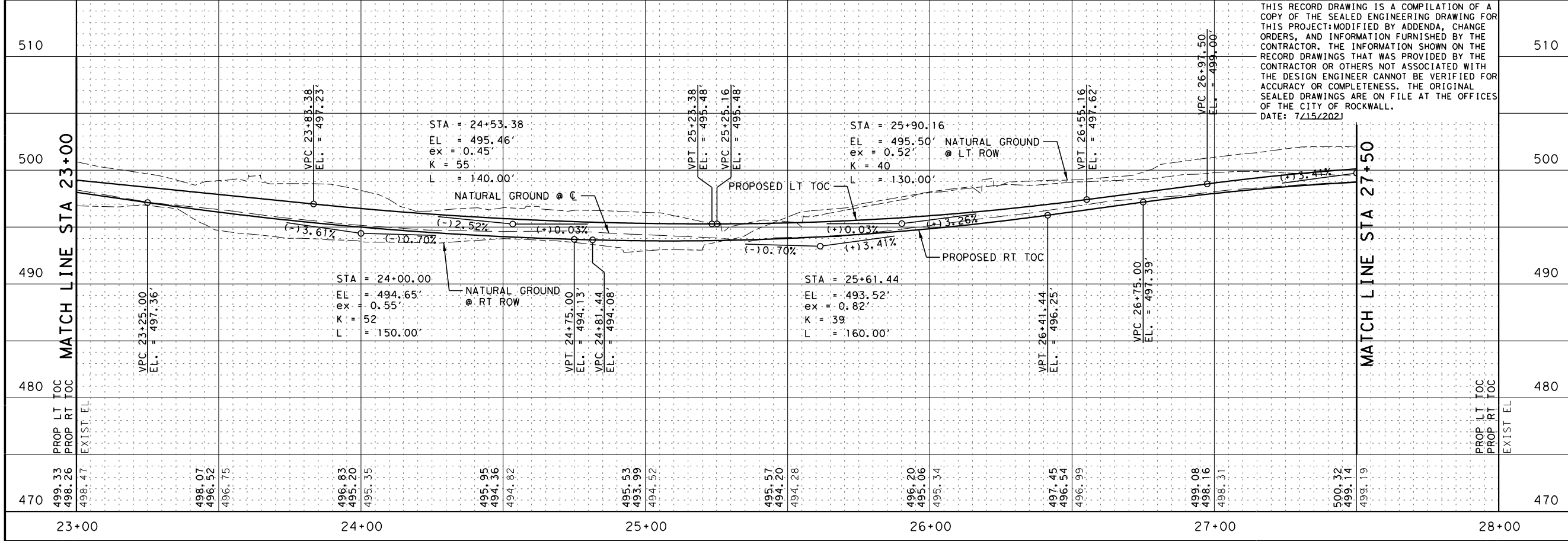
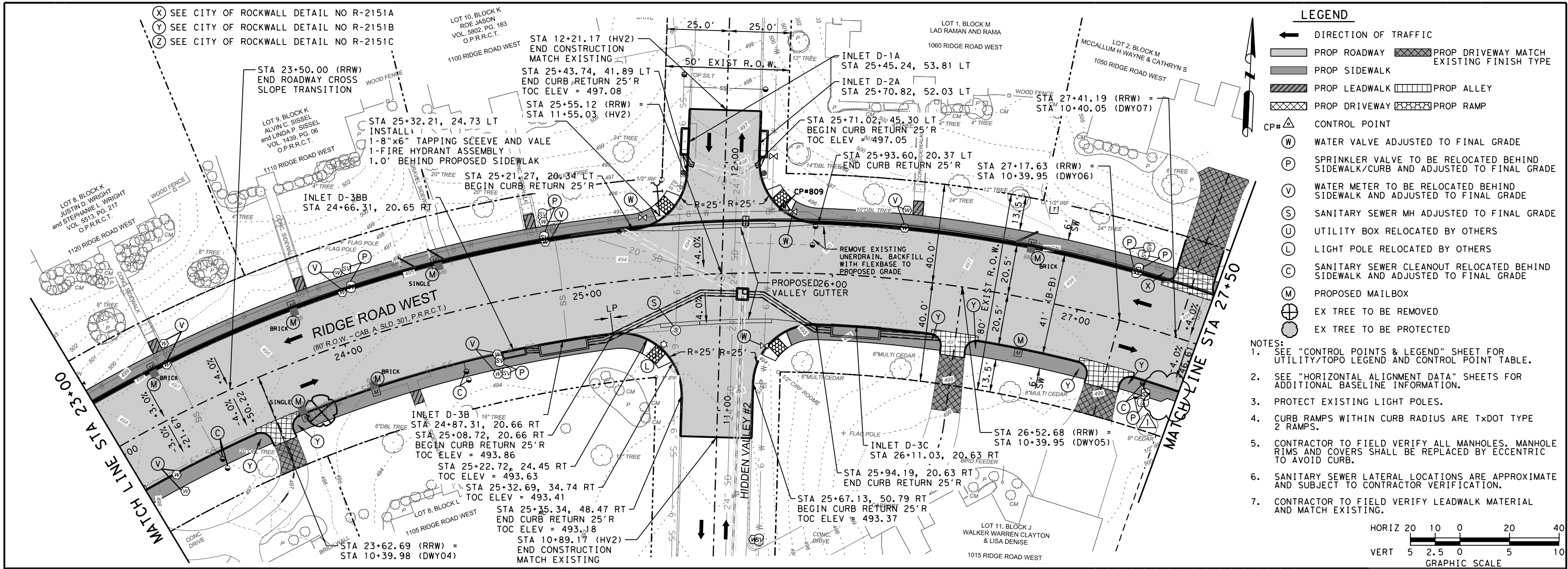
RIDGE ROAD WEST
ROADWAY
PLAN & PROFILE

SHEET 3 OF 10

DSN: DWE PROJECT: RIDGE ROAD WEST	
CK: JMG CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ 1" = 20'
CK: JMG DATE: 10/17/2023	VERT: 1" = 5'

SHEET NO. 37

USER: 10/17/2023 2:03:09 PM
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THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL. DATE: 7/15/2021

510

500

490

480

470

23+00

24+00

25+00

26+00

27+00

28+00

MATCH LINE STA 23+00

MATCH LINE STA 27+50

PROPOSED LT TOC

PROPOSED RT TOC

NATURAL GROUND @ LT ROW

NATURAL GROUND @ RT ROW

VPC 23+25.00 EL = 497.36'

VPT 23+83.38 EL = 497.23'

VPC 24+75.00 EL = 494.13'

VPT 24+75.00 EL = 494.13'

VPC 24+81.44 EL = 494.06'

VPT 24+81.44 EL = 494.06'

VPC 25+25.16 EL = 495.48'

VPT 25+25.16 EL = 495.48'

VPC 26+41.44 EL = 496.25'

VPT 26+41.44 EL = 496.25'

VPC 26+75.00 EL = 497.39'

VPT 26+75.00 EL = 497.39'

VPC 26+81.44 EL = 496.25'

VPT 26+81.44 EL = 496.25'

VPC 26+91.39 EL = 497.39'

VPT 26+91.39 EL = 497.39'

VPC 27+00.00 EL = 497.39'

VPT 27+00.00 EL = 497.39'

PROPOSED LT TOC

PROPOSED RT TOC

NATURAL GROUND @ LT ROW

NATURAL GROUND @ RT ROW

STATE OF TEXAS

DANIEL W. EVERETT, II

93551

LICENSED PROFESSIONAL ENGINEER

7/15/2021

2021-07-14

FIELD CHANGE #1

DWE

REV NO

DATE

DESCRIPTION

BY

DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC

T.B.P.E. FIRM REGISTRATION F-8996

3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST

ROADWAY

PLAN & PROFILE

SHEET 4 OF 10

DSN: DWE PROJECT: RIDGE ROAD WEST

CK: JMG CIP PROJECT NO: TR2018-003

SCALE

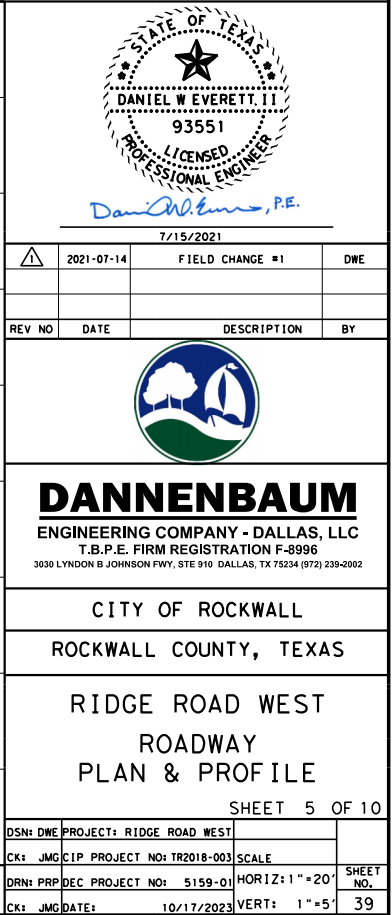
DRN: PRP DEC PROJECT NO: 5159-01

CK: JMG DATE: 10/17/2023

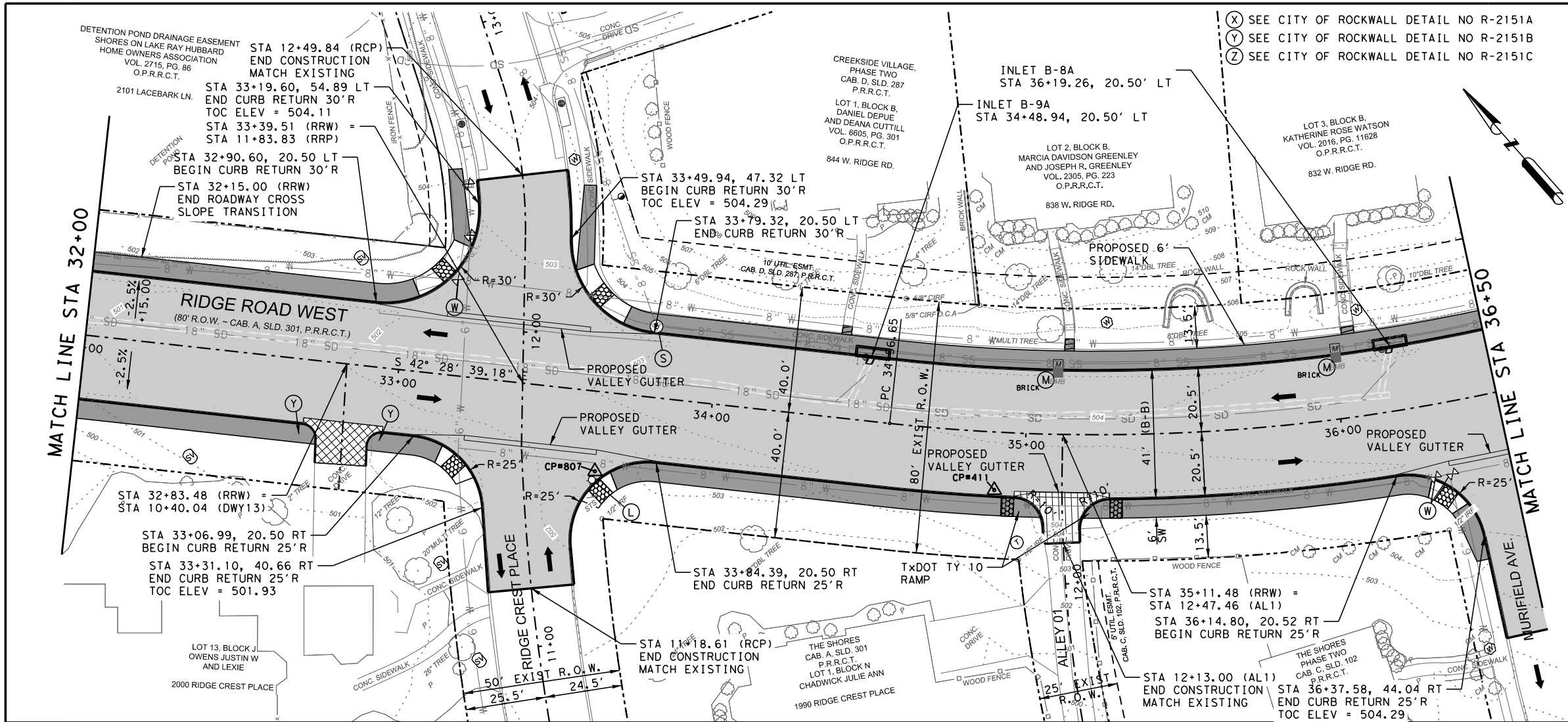
HORIZ: 1" = 20'

VERT: 1" = 5'

SHEET NO. 38



USER: 10/17/2023 2:03:36 PM
c:\projects\wise\dec\work\dr\dannennaum\yes\hwanth_solid\p\uram\0117890\515901\RDW*06.dgn



LEGEND

— DIRECTION OF TRAFFIC

— PROP ROADWAY

— PROP SIDEWALK

— PROP LEADWALK

— PROP DRIVEWAY MATCH EXISTING FINISH TYPE

— PROP ALLEY

— PROP RAMP

CP# Δ CONTROL POINT

W WATER VALVE ADJUSTED TO FINAL GRADE

P SPRINKLER VALVE TO BE RELOCATED BEHIND SIDEWALK/CURB AND ADJUSTED TO FINAL GRADE

V WATER METER TO BE RELOCATED BEHIND SIDEWALK AND ADJUSTED TO FINAL GRADE

S SANITARY SEWER MH ADJUSTED TO FINAL GRADE

U UTILITY BOX RELOCATED BY OTHERS

L LIGHT POLE RELOCATED BY OTHERS

C SANITARY SEWER CLEANOUT RELOCATED BEHIND SIDEWALK AND ADJUSTED TO FINAL GRADE

M PROPOSED MAILBOX

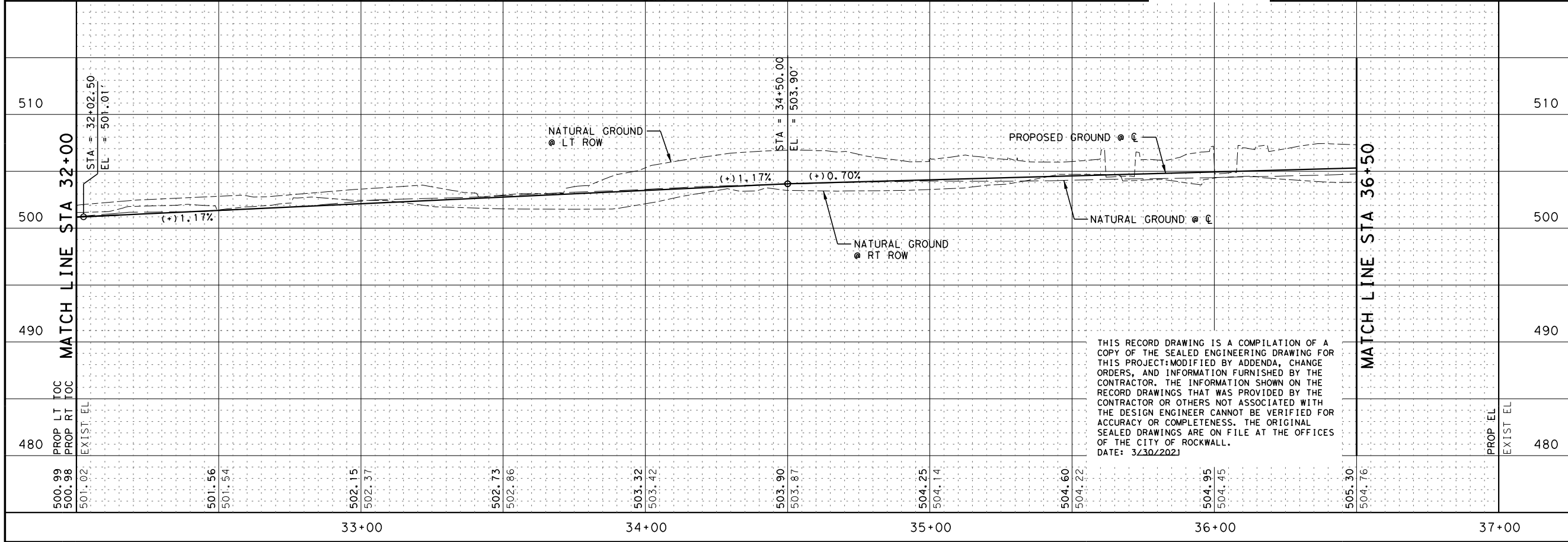
⊕ EX TREE TO BE REMOVED

⊙ EX TREE TO BE PROTECTED

NOTES:

- SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND AND CONTROL POINT TABLE.
- SEE "HORIZONTAL ALIGNMENT DATA" SHEETS FOR ADDITIONAL BASELINE INFORMATION.
- PROTECT EXISTING LIGHT POLES.
- CURB RAMPS WITHIN CURB RADIUS ARE TxDOT TYPE 2 RAMPS.
- CONTRACTOR TO FIELD VERIFY ALL MANHOLES. MANHOLE RIMS AND COVERS SHALL BE REPLACED BY ECCENTRIC TO AVOID CURB.
- SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE AND SUBJECT TO CONTRACTOR VERIFICATION.
- CONTRACTOR TO FIELD VERIFY LEADWALK MATERIAL AND MATCH EXISTING.

HORIZ 20 10 0 20 40
VERT 5 2.5 0 5 10
GRAPHIC SCALE



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STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
3/30/2021

REV NO DATE DESCRIPTION BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

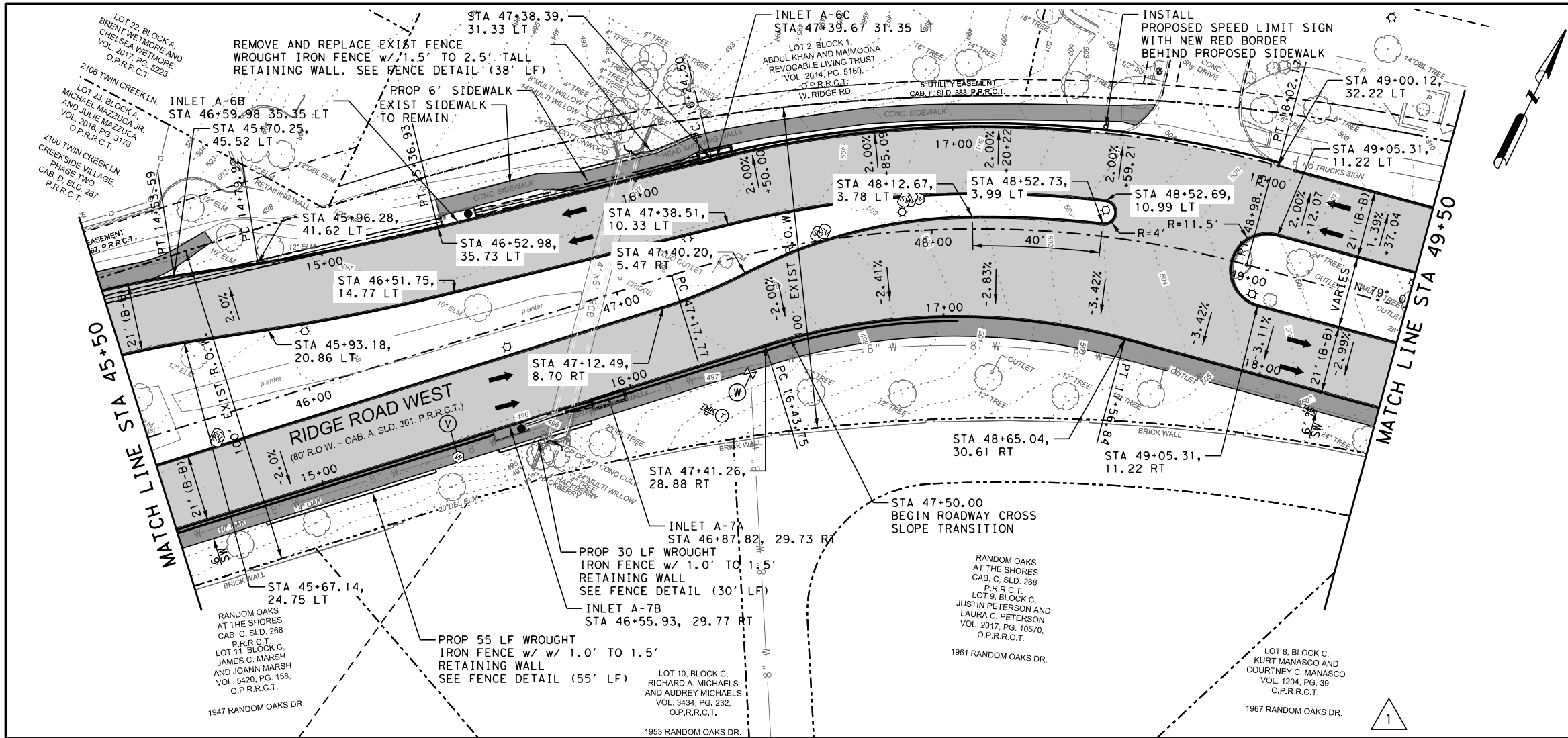
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
ROADWAY
PLAN & PROFILE

SHEET 6 OF 10

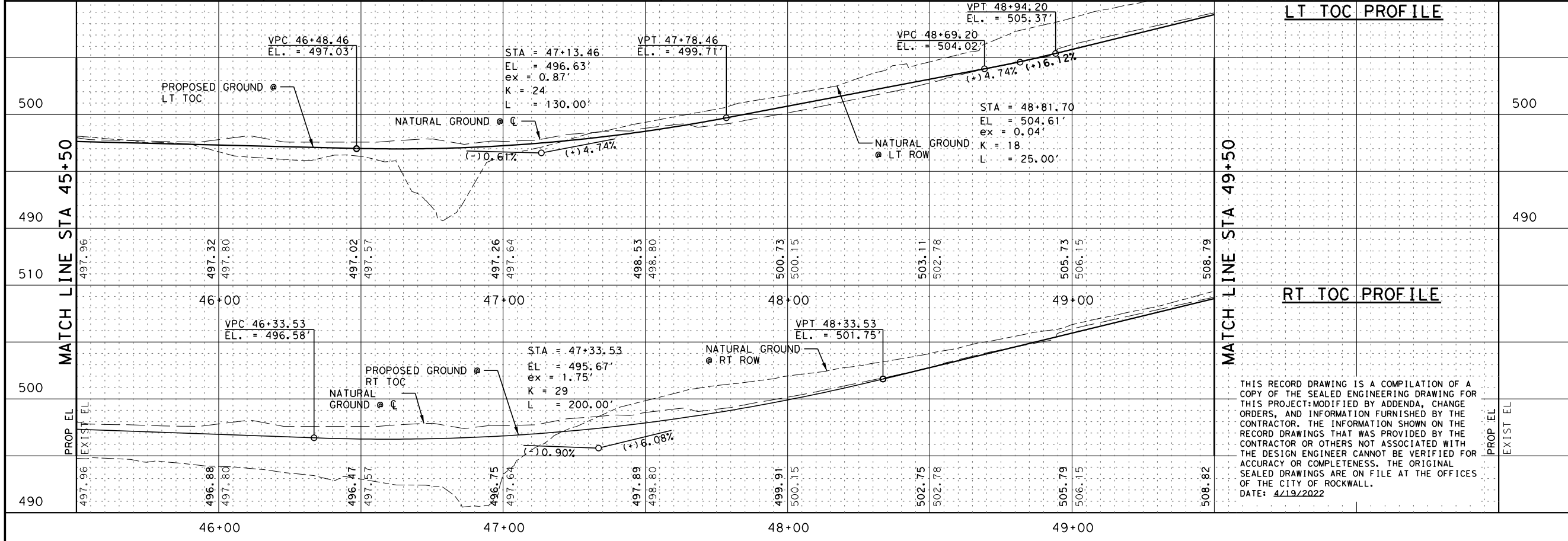
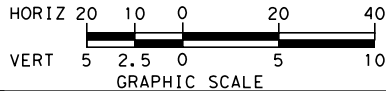
DSN: DNE PROJECT: RIDGE ROAD WEST
CK: JMG CIP PROJECT NO: TR2018-003 SCALE
DRN: PRP DEC PROJECT NO: 5159-01 HORIZ: 1"=20'
CK: JMG DATE: 10/17/2023 VERT: 1"=5' SHEET NO: 40

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- LEGEND**
- DIRECTION OF TRAFFIC
 - PROP ROADWAY
 - PROP SIDEWALK
 - PROP LEADWALK
 - PROP DRIVEWAY MATCH EXISTING FINISH TYPE
 - PROP ALLEY
 - PROP RAMP
 - CONTROL POINT
 - WATER VALVE ADJUSTED TO FINAL GRADE
 - SPRINKLER VALVE TO BE RELOCATED BEHIND SIDEWALK/CURB AND ADJUSTED TO FINAL GRADE
 - WATER METER TO BE RELOCATED BEHIND SIDEWALK AND ADJUSTED TO FINAL GRADE
 - SANITARY SEWER MH ADJUSTED TO FINAL GRADE
 - UTILITY BOX RELOCATED BY OTHERS
 - LIGHT POLE RELOCATED BY OTHERS
 - SANITARY SEWER CLEANOUT RELOCATED BEHIND SIDEWALK AND ADJUSTED TO FINAL GRADE
 - PROPOSED MAILBOX
 - EX TREE TO BE REMOVED
 - EX TREE TO BE PROTECTED

- NOTES:**
- SEE "CONTROL POINTS & LEGEND" SHEET FOR UTILITY/TOPO LEGEND AND CONTROL POINT TABLE.
 - SEE "HORIZONTAL ALIGNMENT DATA" SHEETS FOR ADDITIONAL BASELINE INFORMATION.
 - PROTECT EXISTING LIGHT POLES.
 - CURB RAMPS WITHIN CURB RADIUS ARE TxDOT TYPE 2 RAMPS.
 - CONTRACTOR TO FIELD VERIFY ALL MANHOLES. MANHOLE RIMS AND COVERS SHALL BE REPLACED BY ECCENTRIC TO AVOID CURB.
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STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
4/19/2022

REV NO	DATE	DESCRIPTION	BY
1	2022-04-19	RIDGE ROAD WEST TOC REV	PRP

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

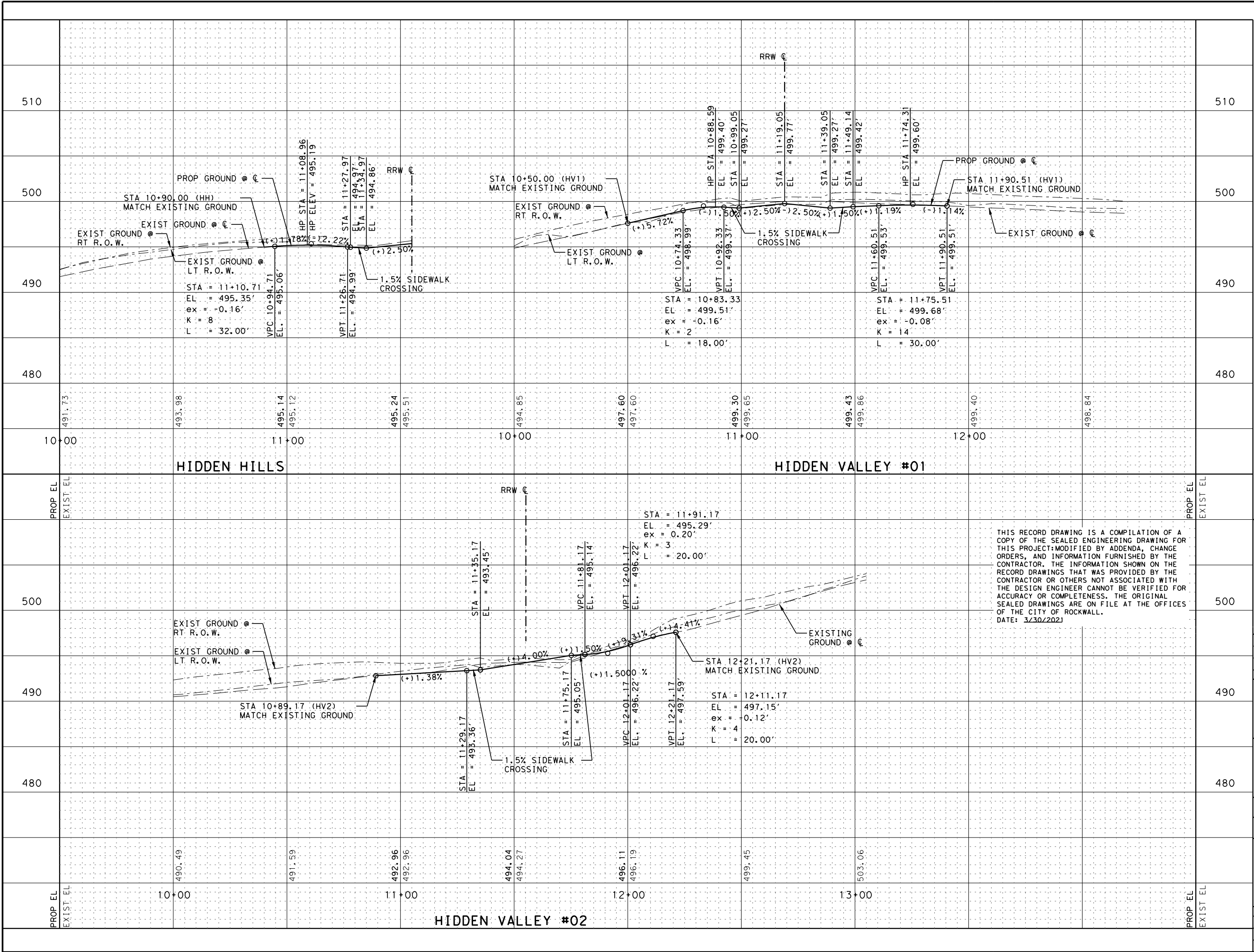
RIDGE ROAD WEST
ROADWAY
PLAN & PROFILE

SHEET 9 OF 10

DSN: DME PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG/CIP PROJECT NO: TR2018-003	HORIZ: 1" = 20'	43
DRN: PRP DEC PROJECT NO: 5159-01	VERT: 1" = 5'	
CK: JMG DATE: 10/17/2023		

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DATE: 4/19/2022

USER: 10/17/2023 2:04:32 PM
c:\project\wise\dec\work\kd\1\rdm\am\0125148\515901*RDW*SIDEST*PROF01.dgn



STATE OF TEXAS

DANIEL W. EVERETT, II

93551

LICENSED PROFESSIONAL ENGINEER

3/30/2021

REV NO

DATE

DESCRIPTION

BY

DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC

T.B.P.E. FIRM REGISTRATION F-8996

3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST

SIDE STREET PROFILES

DSN: DNE PROJECT: RIDGE ROAD WEST

CK: JMG CIP PROJECT NO: TR2018-003

DRN: PRP DEC PROJECT NO: 5159-01

CK: JMG DATE: 10/17/2023

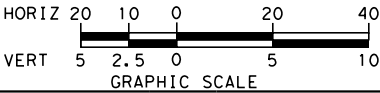
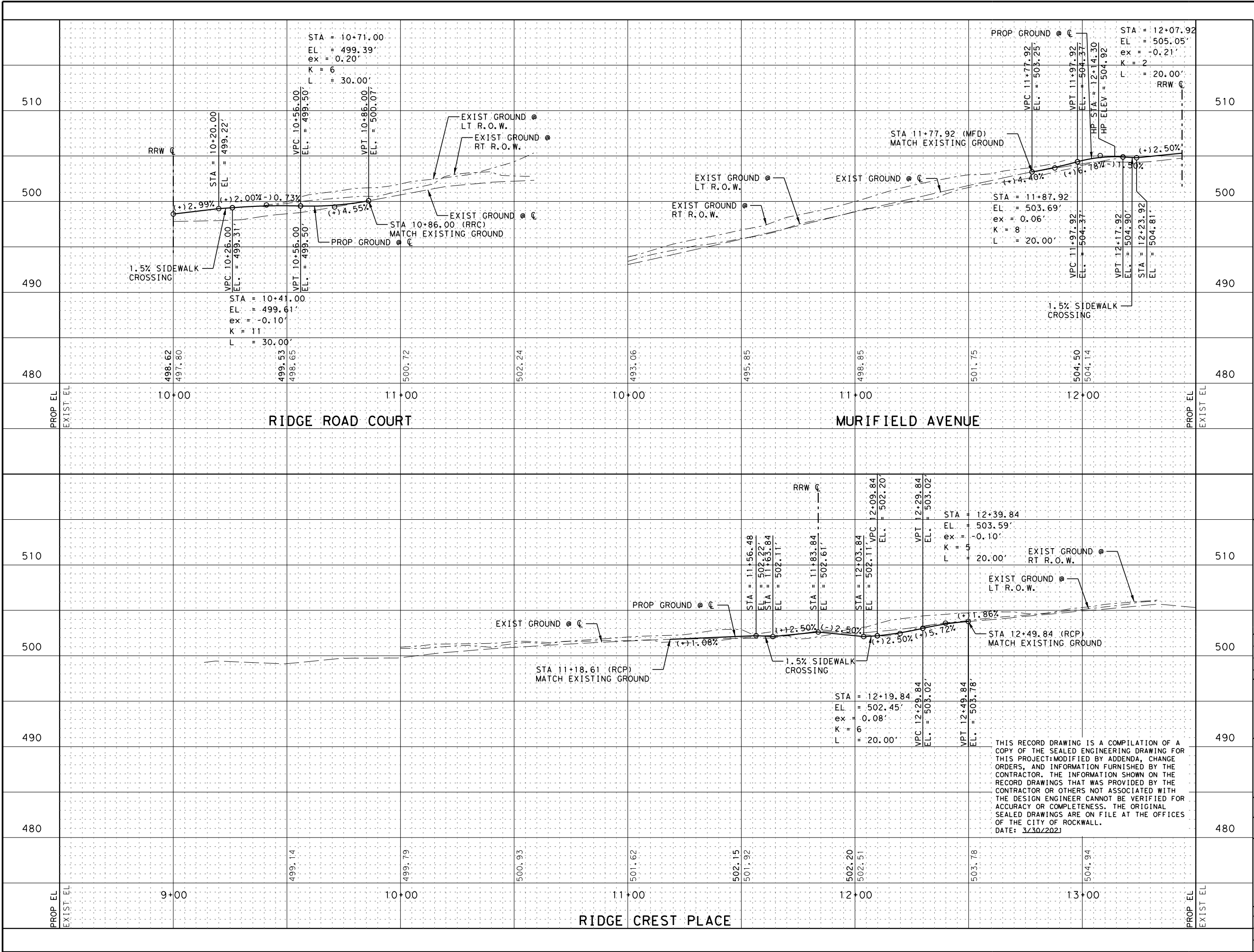
SCALE

HORIZ:

VERT:

SHEET NO. 45

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STATE OF TEXAS

DANIEL W. EVERETT, II

93551

LICENSED PROFESSIONAL ENGINEER

3/30/2021

REV NO

DATE

DESCRIPTION

BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST

SIDE STREET

PROFILES

DSN: DNE PROJECT: RIDGE ROAD WEST

CK: JMG CIP PROJECT NO: TR2018-003

DRN: PRP DEC PROJECT NO: 5159-01

CK: JMG DATE: 10/17/2023

SCALE

HORIZ: 1"=20'

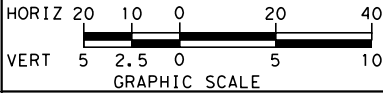
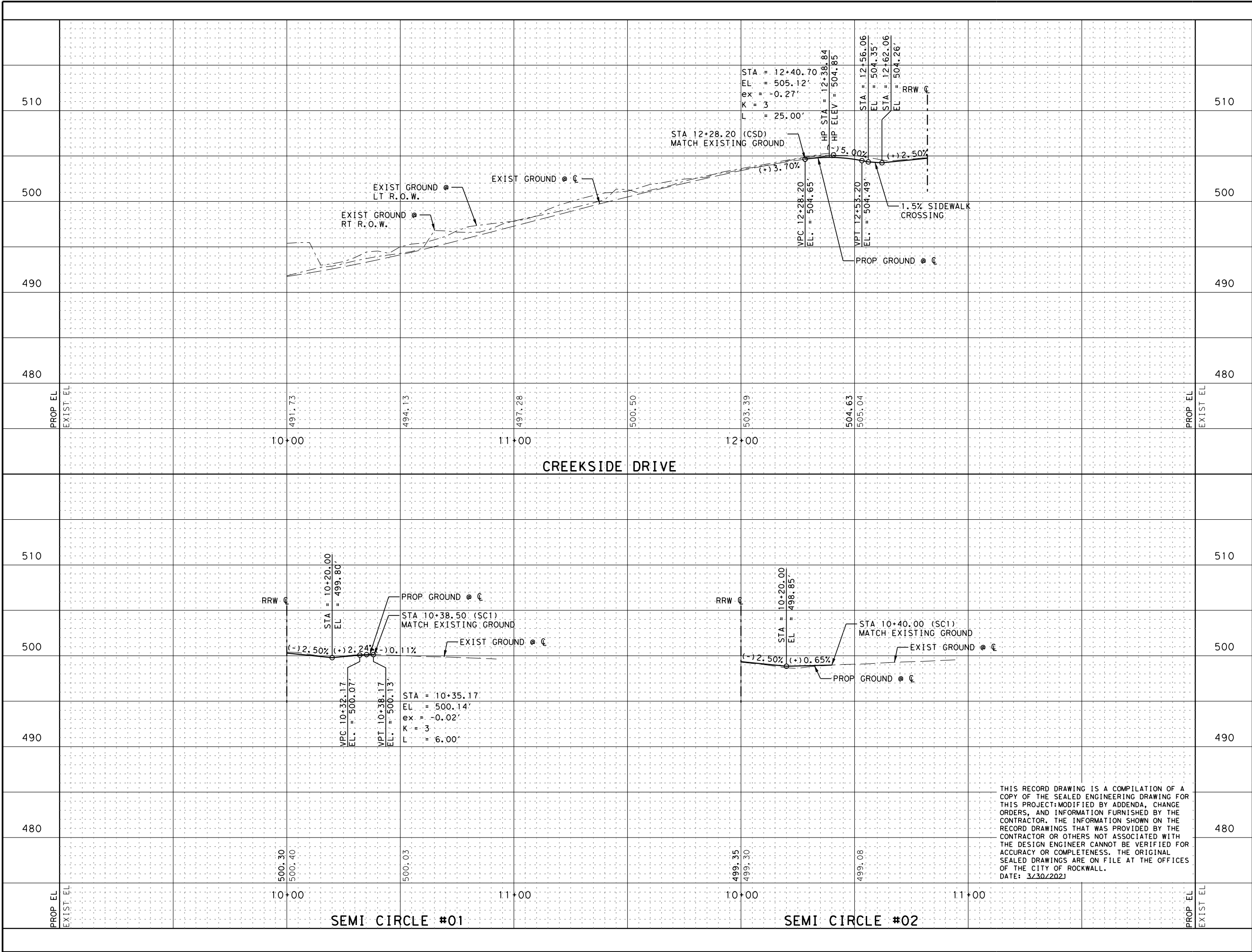
VERT: 1"=5'

SHEET NO.

46

SHEET 2 OF 4

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STATE OF TEXAS

DANIEL W. EVERETT, II

93551

LICENSED PROFESSIONAL ENGINEER

3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC

T.B.P.E. FIRM REGISTRATION F-8996

3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST

SIDE STREET

PROFILES

DSN: DNE PROJECT: RIDGE ROAD WEST

CK: JMG CIP PROJECT NO: TR2018-003

DRN: PRP DEC PROJECT NO: 5159-01

CK: JMG DATE: 10/17/2023

SCALE

HORIZ: 1"=20'

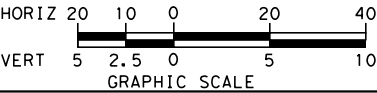
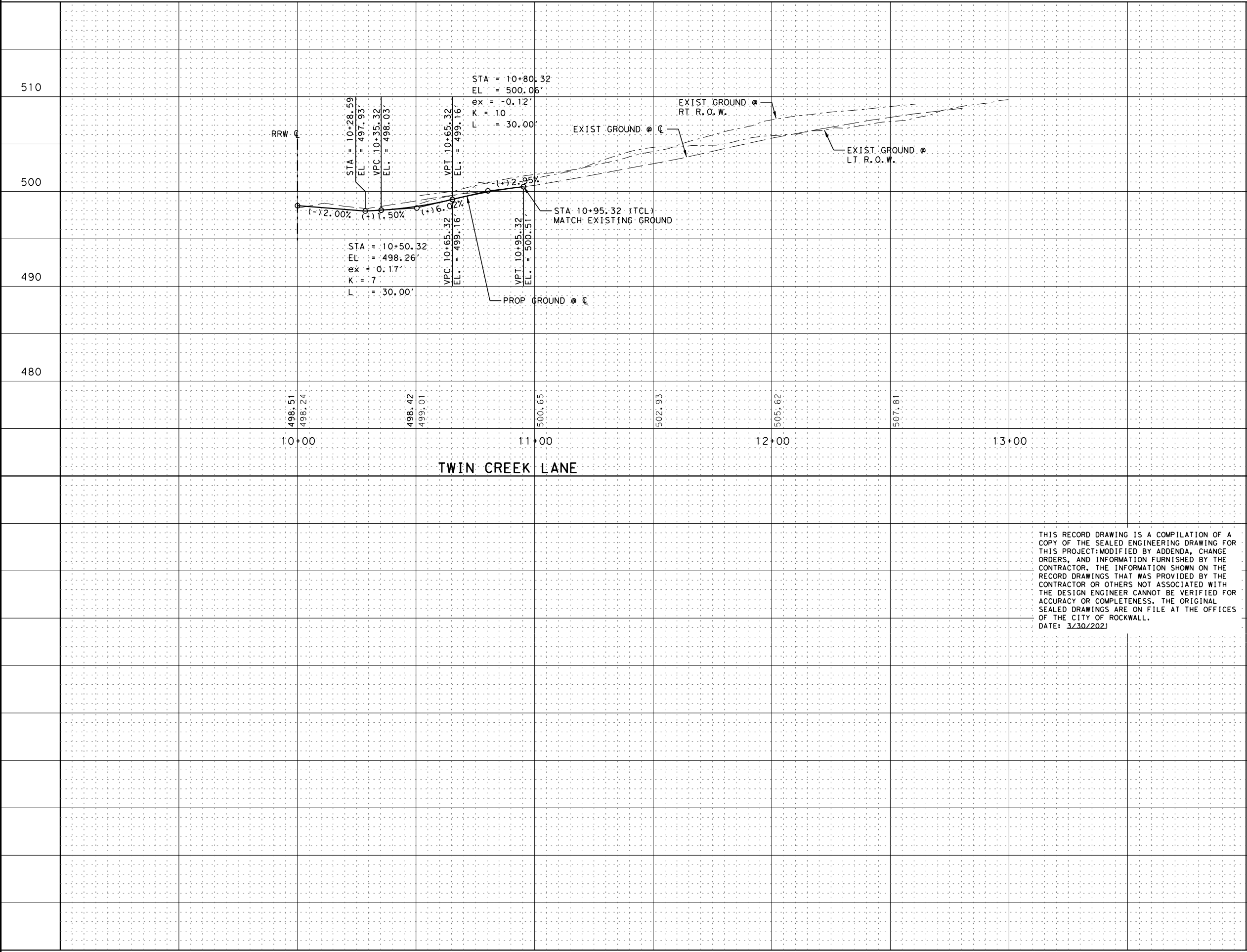
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SHEET NO.

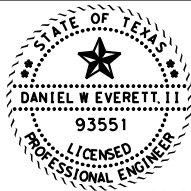
47

SHEET 3 OF 4

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DATE: 3/30/2021



Dannennaum, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

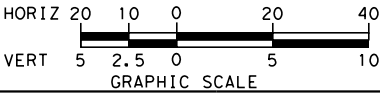
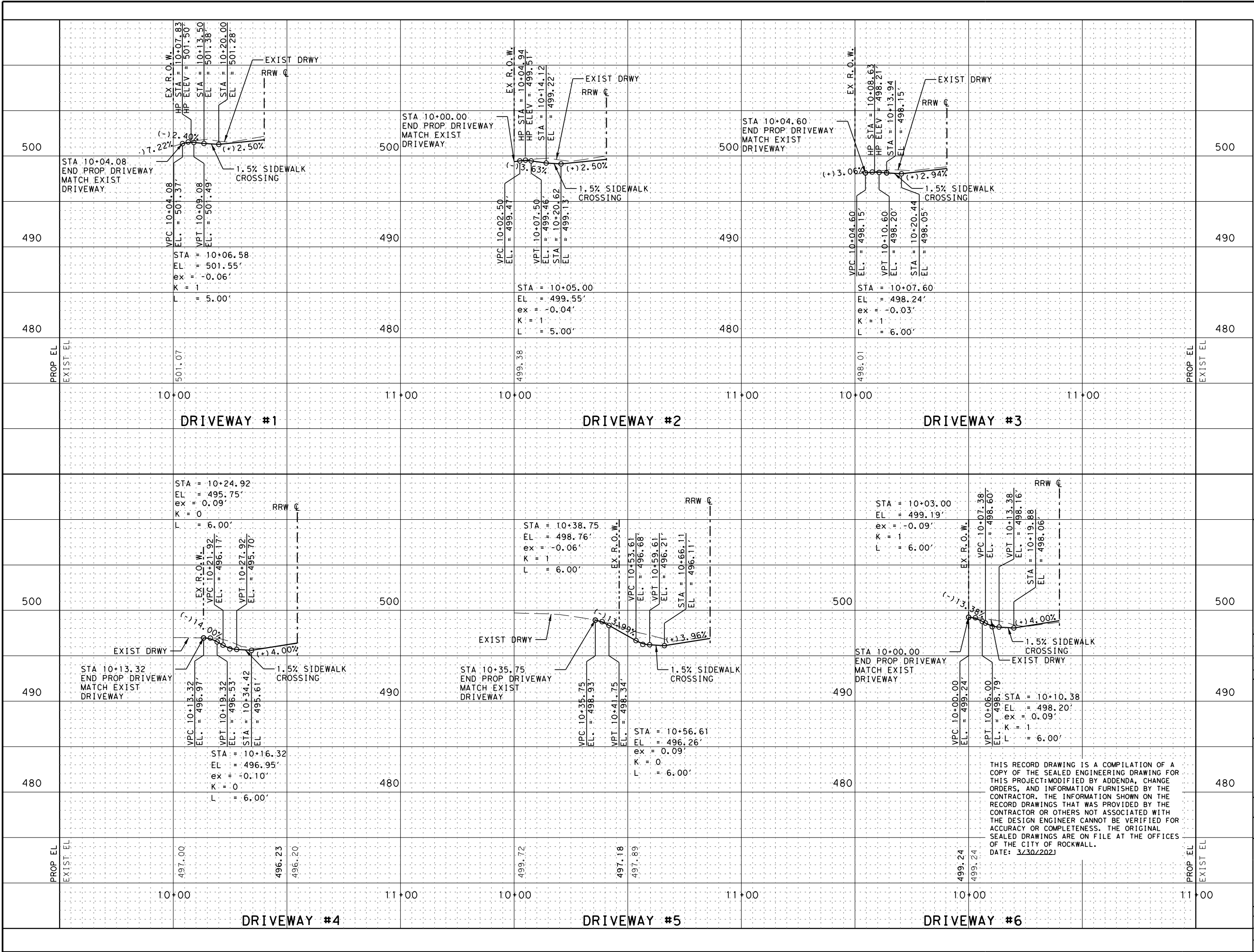
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
SIDE STREET
PROFILES

SHEET 4 OF 4

DSN: DNE PROJECT: RIDGE ROAD WEST		
CK: JMG CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'	SHEET NO.
CK: JMG DATE: 10/17/2023	VERT: 1" = 5'	48

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STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
3/30/2021

REV NO	DATE	DESCRIPTION	BY



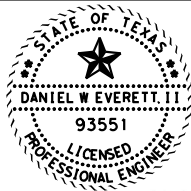
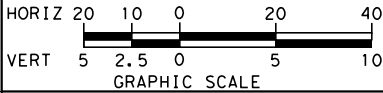
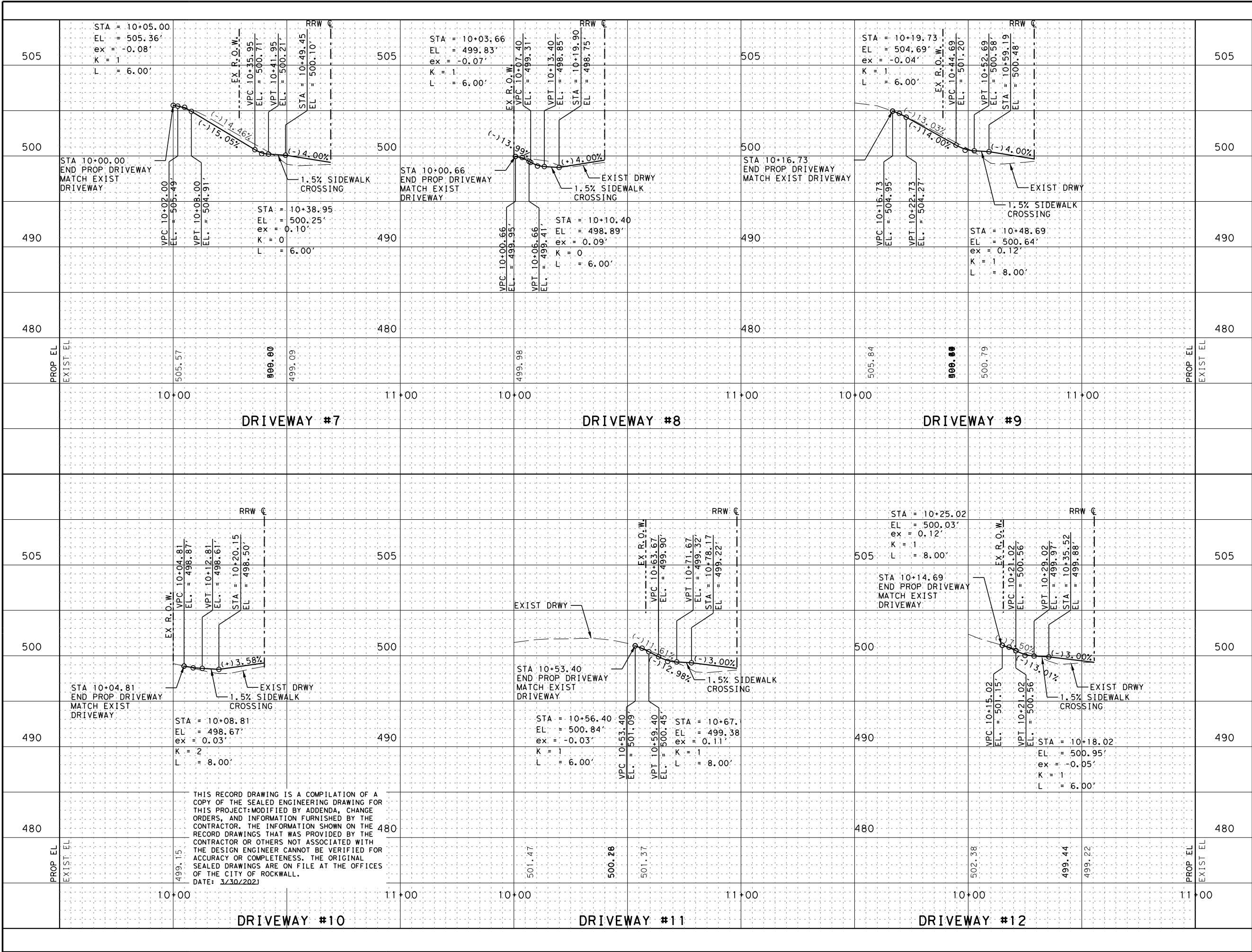
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
DRIVEWAY & ALLEY
PROFILES

SHEET 1 OF 3		
DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ: 1" = 20'	SHEET NO.
DRN: PRP DEC PROJECT NO: 5159-01	VERT: 1" = 5'	49
CK: JMG DATE: 10/17/2023		

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Dannenbaum, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8896
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

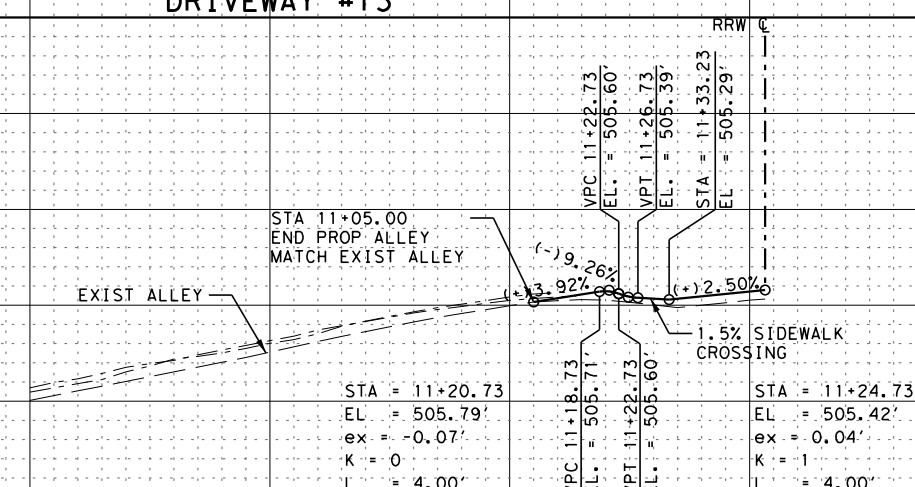
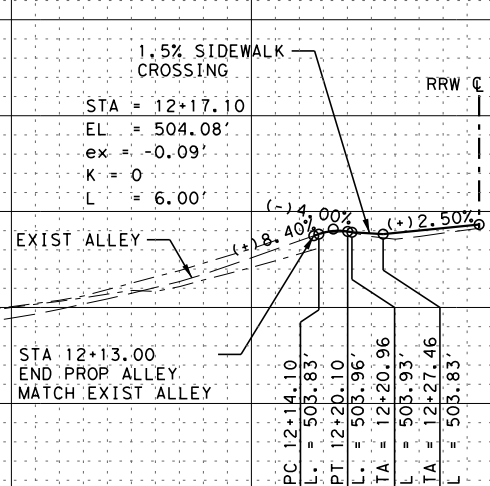
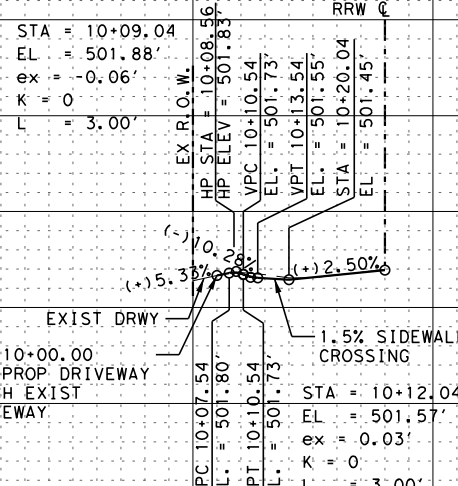
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
DRIVEWAY & ALLEY
PROFILES

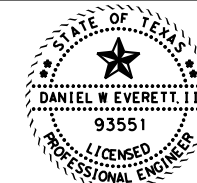
SHEET 2 OF 3

DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
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DRN: PRP DEC PROJECT NO: 5159-01	VERT: 1" = 5'	
CK: JMG DATE: 10/17/2023		

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DATE: 3/30/2021



Daniel W. Evans,

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2011

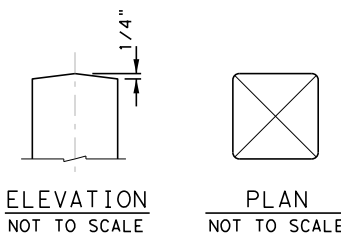
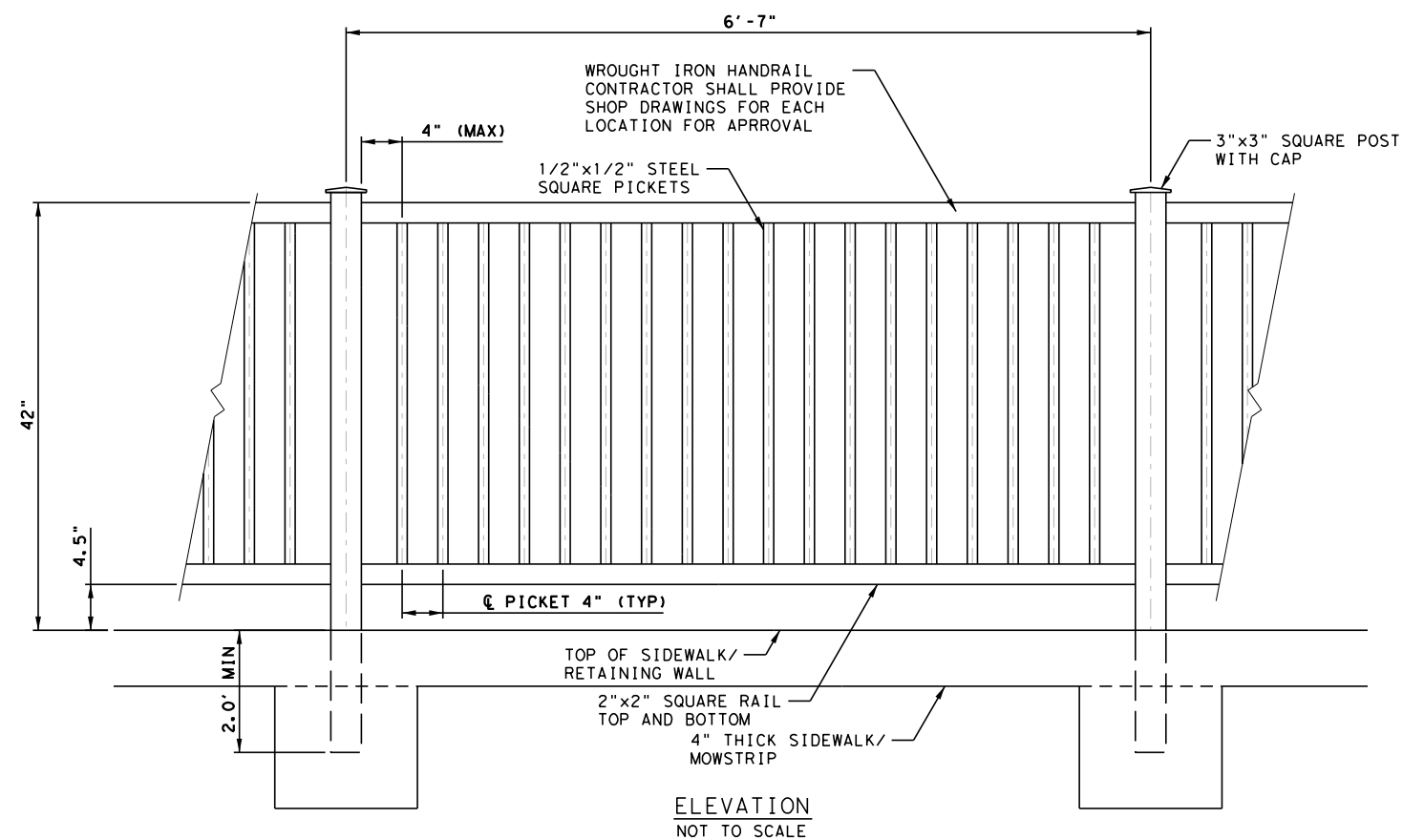
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
DRIVEWAY & ALLEY
PROFILES

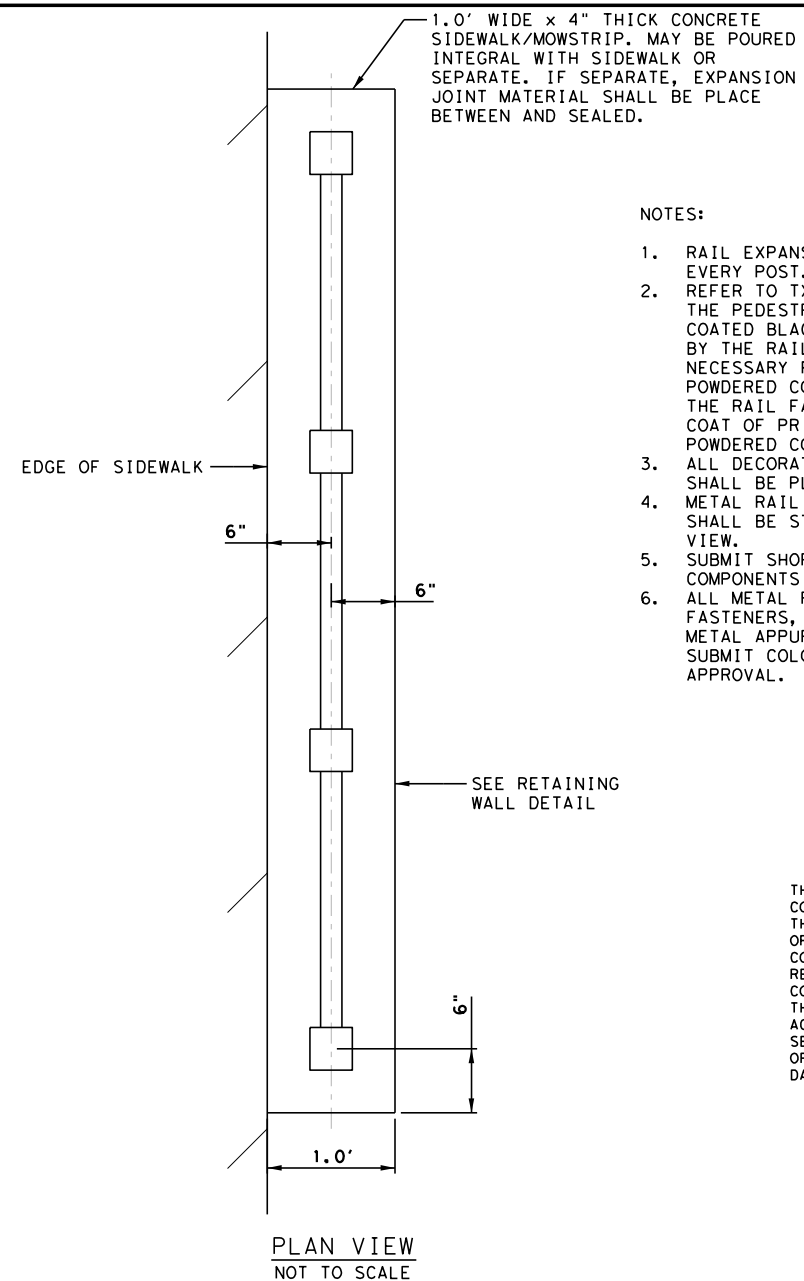
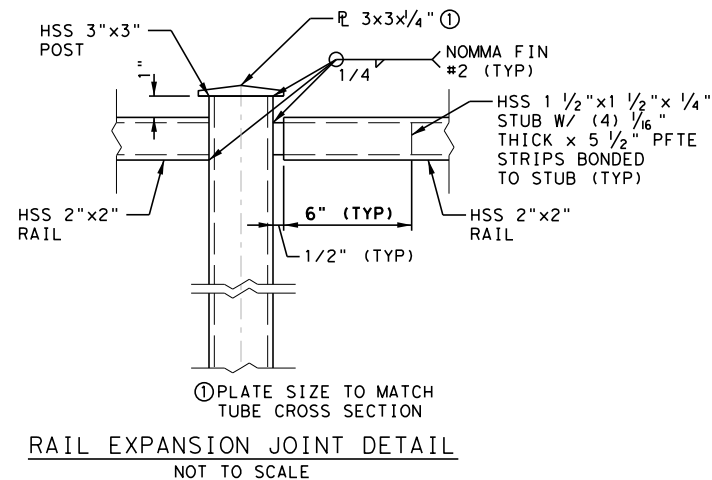
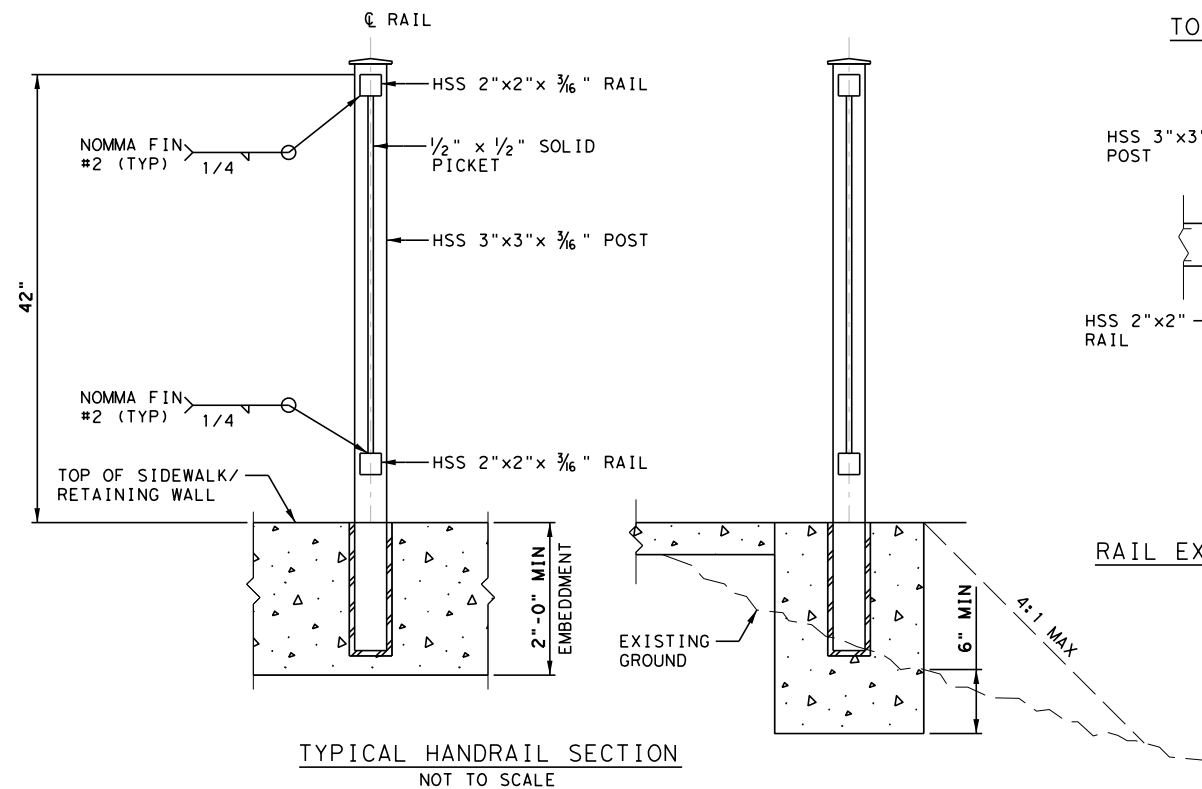
SHEET 3 OF 3

DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'	SHEET NO.
CK: JMG	DATE: 10/17/2023	VERT: 1" = 5'	51

USER:
10/17/2023 2:05:34 PM
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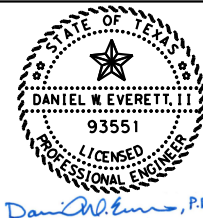
TOP OF STEEL RAIL POST DETAIL



- NOTES:

1. RAIL EXPANSION JOINTS SHALL BE PLACED AT EVERY POST.
2. REFER TO TXDOT ITEM 450 FOR DETAILS. THE PEDESTRIAN RAIL WILL BE POWDERED COATED BLACK PER TXDOT ITEM 445 AND PAINTED BY THE RAIL FABRICATOR. ALL PREPARATION NECESSARY FOR THE RAIL TO RECEIVE THE POWDERED COATED BLACK AND PAINT WILL BE BY THE RAIL FABRICATOR. IT NEEDS TO BE ONE COAT OF PRIMER AND TWO COATS OF EXTERIOR POWDERED COATED BLACK.
3. ALL DECORATIVE RAILING POSTS AND PICKETS SHALL BE PLUMB.
4. METAL RAIL PANEL SEGMENTS BETWEEN POSTS SHALL BE STRAIGHT (NOT CURVED) IN PLAN VIEW.
5. SUBMIT SHOP DRAWINGS OF ALL METAL RAIL COMPONENTS FOR APPROVAL.
6. ALL METAL RAILINGS, POSTS, BRACKETS, FASTENERS, DECORATIVE PANELS, AND RELATED METAL APPURTENANCES SHALL BE BLACK COLOR. SUBMIT COLOR AND FINISH SAMPLES FOR APPROVAL.

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SCALE ENGINEERING DRAWING FOR THIS PROJECT MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021



3/30/2021			
REV NO	DATE	DESCRIPTION	BY



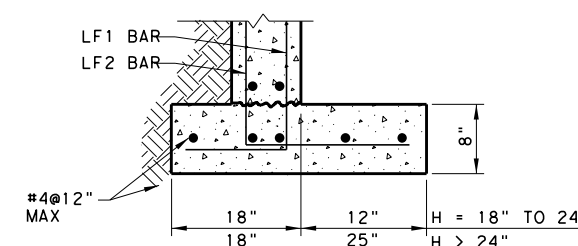
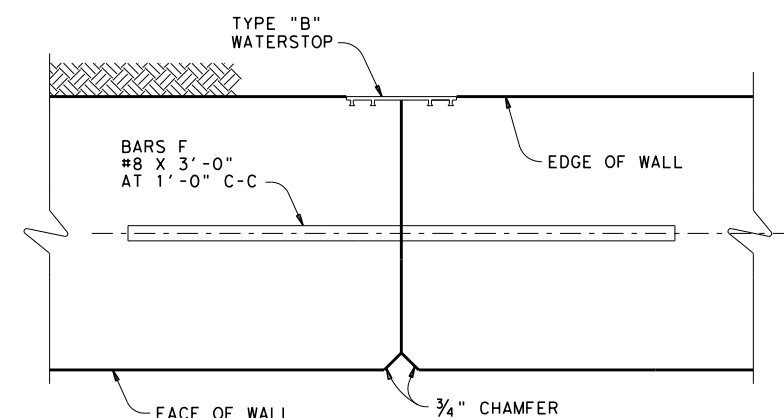
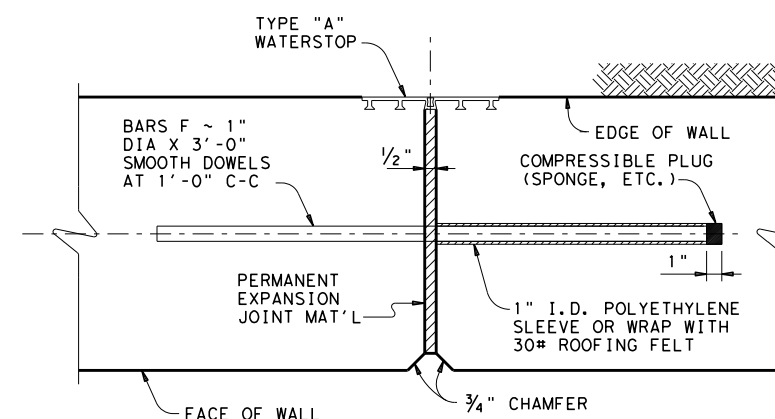
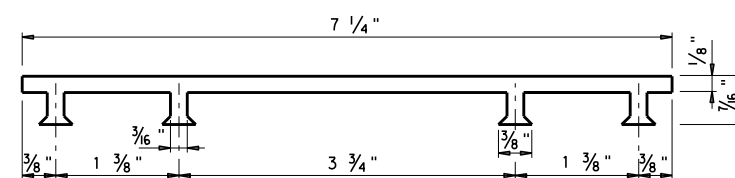
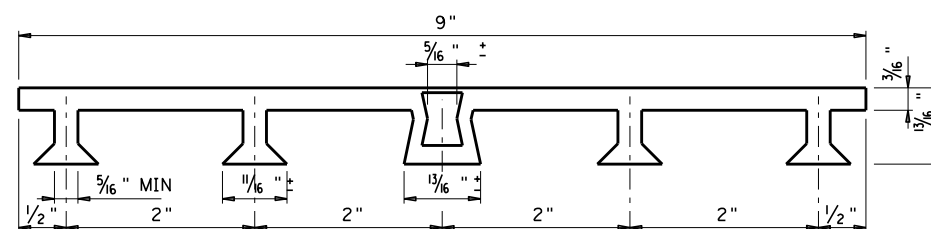
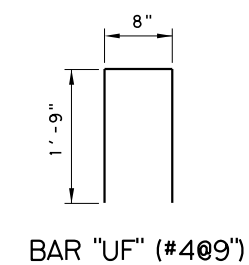
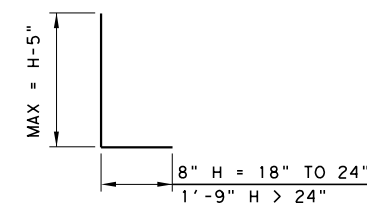
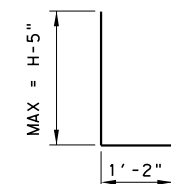
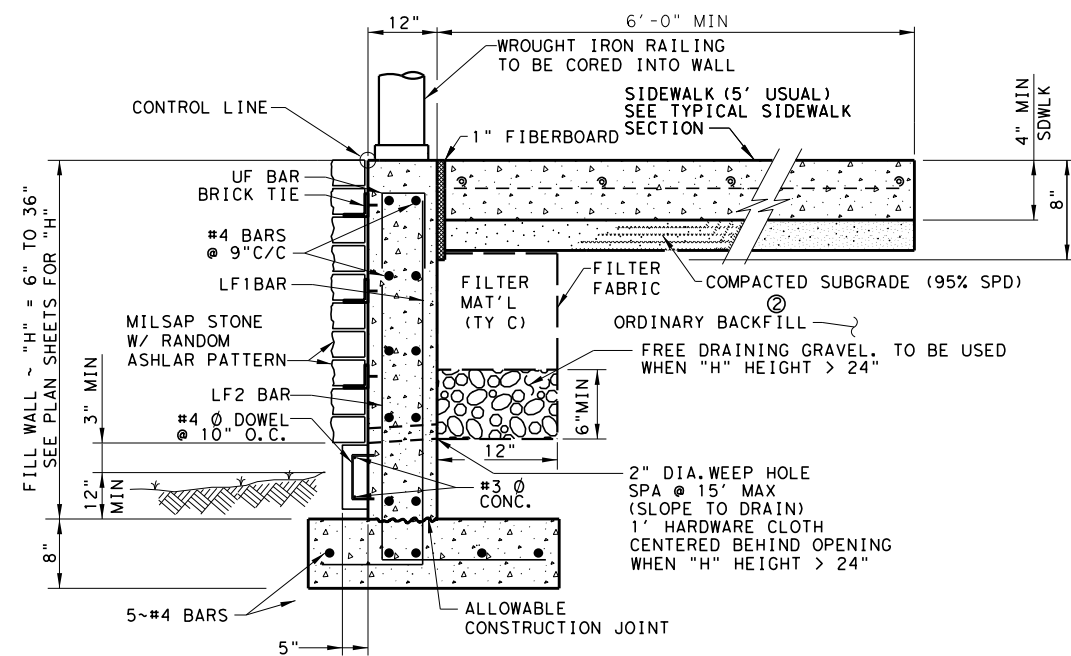
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
FENCE & DRIVEWAY/
SIDEWALK PAVER DETAIL

SHEET 1 OF 1

DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ: NTS	SHEET NO.
CK: JMG	DATE: 10/17/2023	VERT: NTS	52



- GENERAL NOTES:
1. ALL CONCRETE SHALL BE CLASS "C".
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. DESIGN SOIL PARAMETERS:

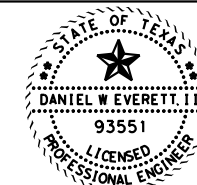
SOIL UNIT WT. = 120 PCF
PHI = 30 DEGREES
COHESION = 800 PSF
MIN PI = 15
MAX PI = 65

SURCHARGE:
WALLS: Q = 2' ADJACENT TO SIDEWALK
MAX SLOPE BEHIND TYPE C CURB = 4:1
MIN FACTOR OF SAFETY AGAINST SLIDING IS 1.5.
DESIGNED IN ACCORDANCE WITH CURRENT AASHTO
STANDARDS AND INTERIM SPECIFICATIONS.

4. SHEAR KEY OF CUT WALL SECTION SHALL BE POURED AGAINST UNDISTURBED EARTH.
5. THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT WALLS, ARE NOT PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 423-6008 RETAINING WALL (CAST-IN-PLACE).
6. COVER FOR REINFORCEMENT CAST AGAINST EARTH SHALL BE 3" (MIN). COVER FOR ALL OTHER REINFORCEMENT SHALL BE 2".

- ① UNTIL THE SIDEWALK IS COMPLETE, LATERAL SUPPORT FOR THE FILL WALL WILL BE REQUIRED.
- ② WHEN BACKFILL IS BETWEEN 6" AND 12", PROVIDE LIME TREATED BASE.
- ③ GROOVED JOINTS IN THE WALL SHALL BE AT A MAX SPACING OF 10 FT AND SHALL HAVE 1/2" EXPANSION JOINTS AT A MAX SPACING OF 60'.

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DATE: 3/30/2021



Daniel W. Kure, P.

3/30/202

31/03/2021			
REV. NO.	DATE	DESCRIPTION	BY



DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY. STE 910 DALLAS, TX 75234 (972) 239-2000

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

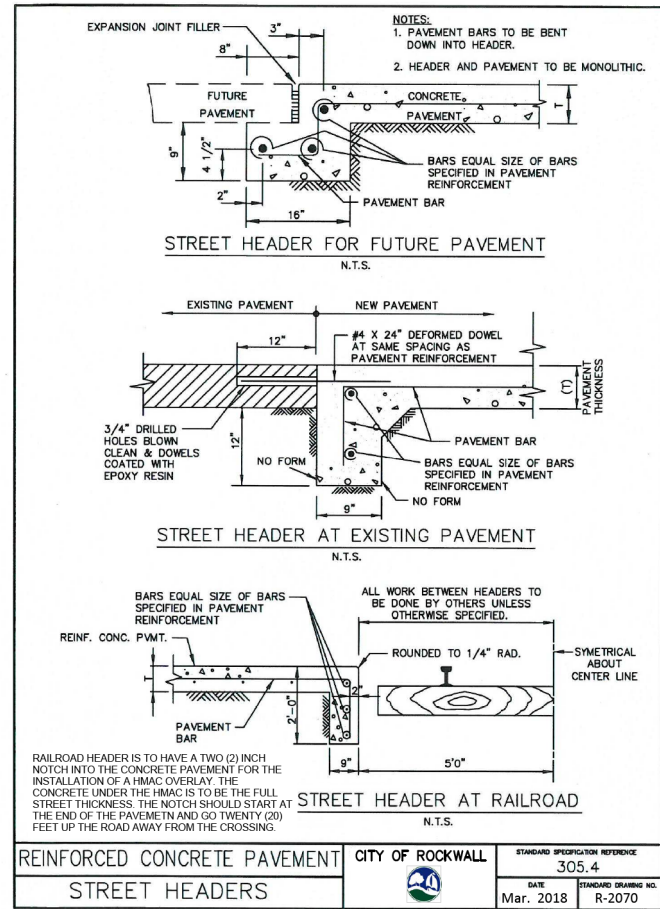
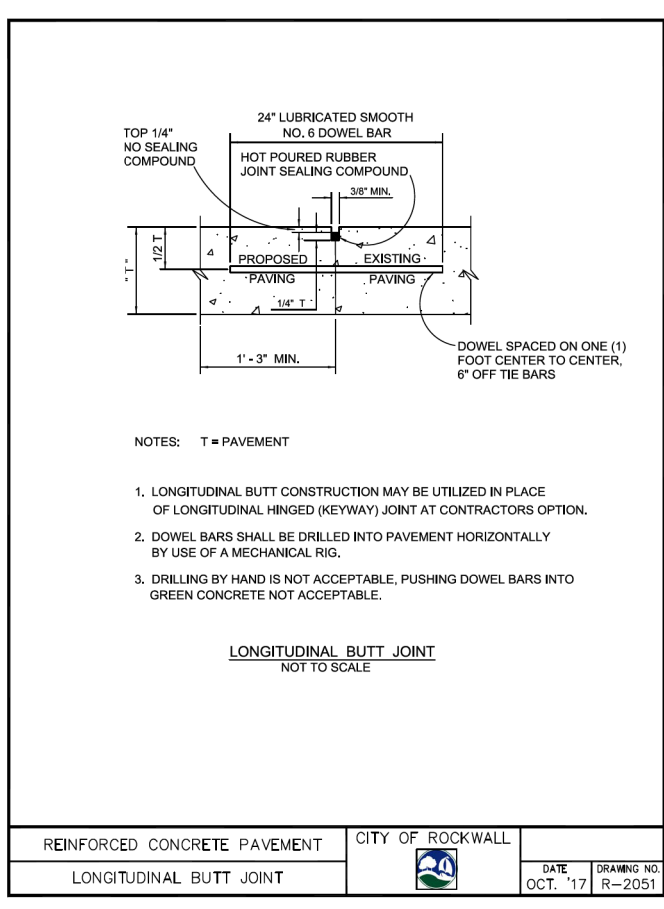
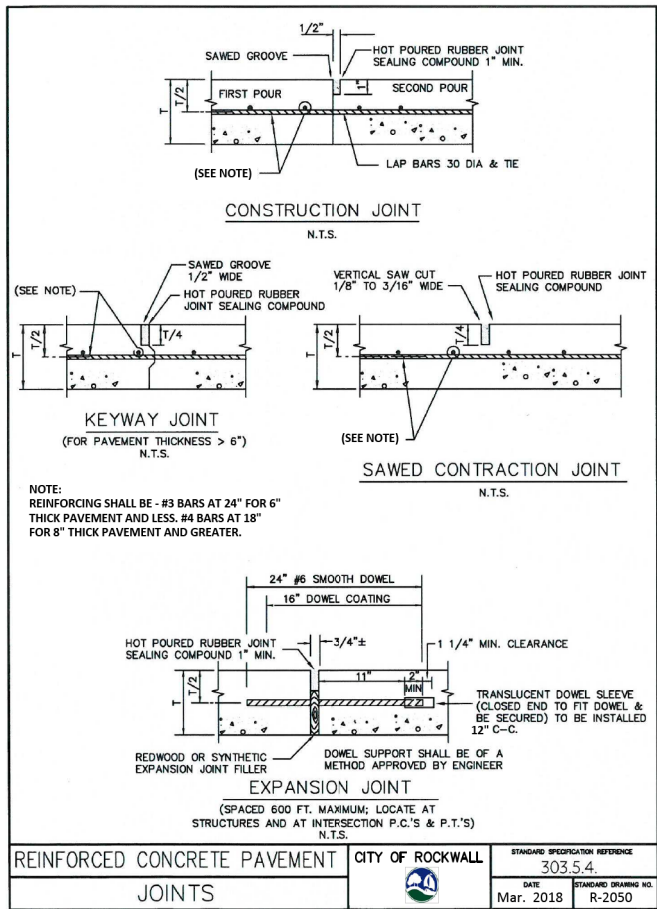
RIDGE ROAD WEST
RETAINING WALL
DETAIL

SHEET 1 OF

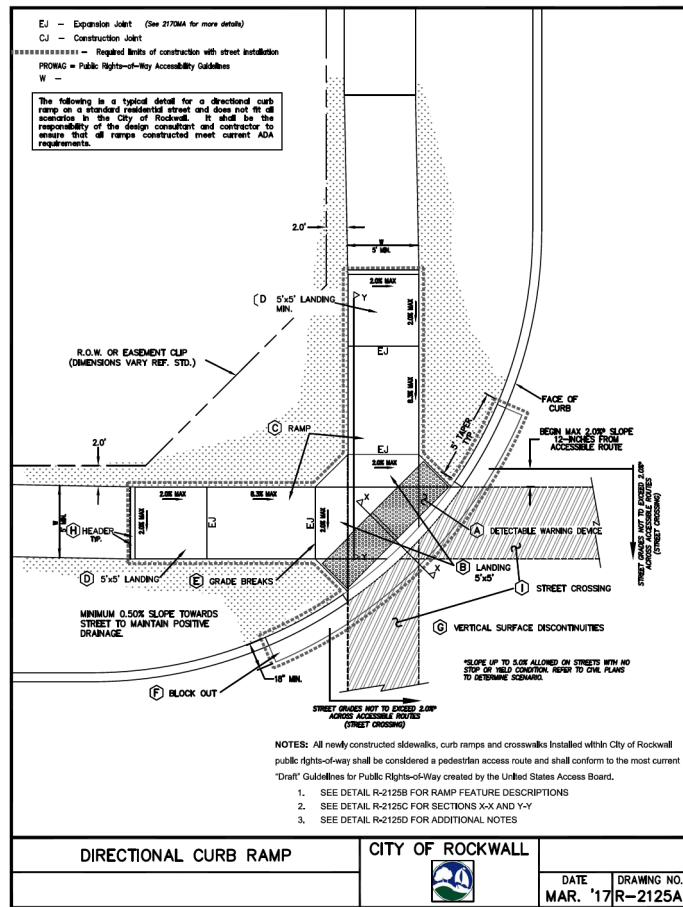
DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ: NTS	SHE NO
CK: JMG	DATE: 10/17/2023	VERT: NTS	5

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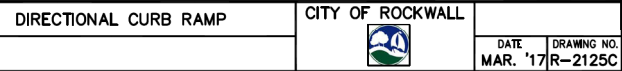
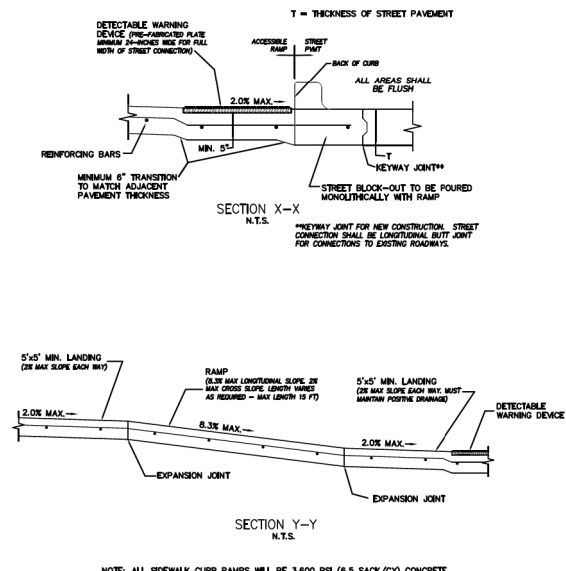
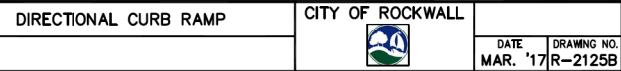
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DATE: 3/30/2021



- A** Detectable Warning Devices (DWD) shall be pre-manufactured cast-in-place truncated dome plates installed to the manufacturer's specifications, and shall meet all ADA requirements. No Brick Pavers allowed. Color to be approved by the City. DWD shall be 24 inches in length for the full width of the street connection starting at the back of curb. A maximum 2-inch border shall be allowed on the sides of the DWD for proper installation.
- B** Also known as "Clear Space" per ADA PROWAG, the City requires a minimum landing space of 5-foot by 5-foot at the bottom of every ramp. This landing space shall have a cross slope in both directions that does not exceed 2.0% and shall be wholly outside the parallel vehicular travel path.
- C** The ramp component of the directional curb ramp shall have a continuous longitudinal slope more than 5% and less than 8.3%. The ramp shall also have a cross slope of no more than 2.0%. Length of ramp can vary, but shall not exceed 15 feet to achieve desired elevation change.
- D** Also known as "Turning Space" per ADA PROWAG, a minimum landing space of 5-foot by 5-foot shall be at the top of every ramp. This landing (turning) space shall have a cross slope in both directions that does not exceed 2.0%. Landing must match width of sidewalk and length shall be the same distance ("Squared" Landing).
- E** All curb ramps shall have grade breaks at the top and bottom that are perpendicular to the direction of the ramp run. Where the ends of the bottom grade break are less than or equal to 5 feet, the DWD shall be placed within the ramp or the bottom grade break. Where either end of the bottom grade break is greater than 5 feet, the DWD shall be placed behind the back of the curb.
- F** Paving contractor shall leave block out with a keyway joint installed, minimum of 18 inches measured from back of curb. Block out shall be poured monolithically with Curb Ramp. Concrete shall tie to street paving with a keyway joint per NCTCOG detail 2050. No curb shall be constructed where a DWD is provided. The curb on either side shall have a typical 5 foot taper to transition from the standard 6-inch curb height to be flush with ramp.
- G** All work associated with accessible routes shall be installed flush with all features to minimize vertical surface discontinuities. Each segment along accessible route shall be flush with no more (zero tolerance) than a 1/4-inch grade separation (elevation difference), or 1/2-inch grade separation if beveled (bevel slope shall not be steeper than 50%).
- H** A sidewalk header shall be constructed at ends of all work performed.
- I** Street crossings shall adhere to same guidelines as other accessible routes within public right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall not exceed 2%. New street construction shall incorporate all ADA design requirements. It shall be the responsibility of the Design Professional and Contractor to ensure all street crossings meet the requirements of PROWAG. Street alterations on existing streets to bring to compliance shall be at the City Engineer's discretion.
- J** All curbs constructed as part of an ADA Ramp shall match City curb standards.
* See PROWAG special design considerations when street crossing has no stop or yield condition.



STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL

SHEET 1 OF 4

DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003		
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:	
CK: JMG DATE: 10/17/2023	VERT:	54

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PEDESTRIAN ACCESSIBILITY (WITHIN PUBLIC R.O.W.)

All newly constructed sidewalks, curb ramps and crosswalks installed within City of Rockwall public rights-of-way shall be considered a pedestrian access route and shall conform to the most current Guidelines for Public Rights-of-Way created by the United States Access Board.

CURB RAMP

1. All slopes shown are **MAXIMUM ALLOWABLE**. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
2. Landings shall be 5' x 5' minimum with a maximum 2% slope in the transverse and longitudinal directions.
3. Clear space at the bottom of curb ramps shall be a minimum of 5' x 5' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
4. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
5. Additional information on curb ramp location, design, light reflective value and texture may be found in the most current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102. Federal guidelines shall supersede any conflicts.
6. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps and accessible routes shall align with theoretical crosswalks unless otherwise directed.
7. Handrails are not required on curb ramps.
8. Provide a flush transition where the curb ramps connect to the street.
9. Accessible routes are considered "ramps" when longitudinal slopes are between 5% and 8.3% (maximum allowable). Sidewalks under 5% longitudinal slope are deemed accessible routes and must follow all applicable guidelines.

DETECTABLE WARNING DEVICE

10. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces. Furnish and install an approved cast-in-place dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
11. Detectable Warning Materials shall be truncated dome plates in the color approved by the City. Install products in accordance with manufacturer's specifications.
12. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
13. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
14. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. When placed on the ramp, align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Where detectable warning surfaces are provided on a surface with a slope that is less than 5 percent, dome orientation is less critical. Detectable warning surfaces may be curved along the corner radius.

SIDEWALKS

15. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
16. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
17. Street grades and cross slopes shall be as shown elsewhere in the plans.
18. Changes in level greater than 1/4 inch are not permitted (1/2 inch with bevel).
19. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
20. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.

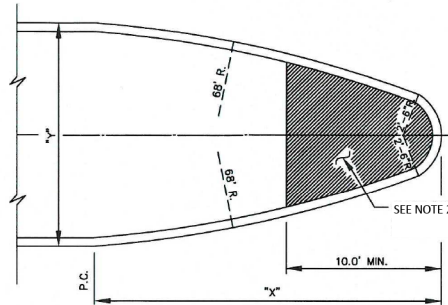
DIRECTIONAL CURB RAMP

CITY OF ROCKWALL



DATE
MAR. '17

DRAWING NO.
R-2125D



DIMENSIONS OF MEDIAN NOSE

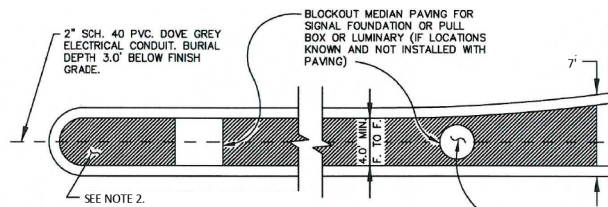
Y = 15'	X = 27.6'
Y = 16'	X = 28.8'
Y = 17'	X = 29.9'
Y = 18'	X = 30.9'

CONCRETE NOSE FOR MEDIAN ISLAND

N.T.S.

NOTES

1. LEFT TURN LANE SHALL HAVE A MOWER ACCESS RAMP.
2. MEDIAN PAVING TO BE CONSTRUCTED OF INTEGRAL STAMPED & STAINED REINFORCED CONCRETE, COLOR AND PATTERN TO BE APPROVED BY THE CITY. CONCRETE TO BE MINIMUM SIX (6") INCH 3600PSI (6.5 SACK/CY) WITH #4 BARS ON 18" CENTERS.
3. STREET LIGHT POLE BASES IN MEDIAN ARE TO HAVE THIRTY-SIX (36") INCH BY THIRTY-SIX (36") INCH, FOUR (4") INCH THICK, 3000PSI REINFORCED CONCRETE MOW STRIP.



LEFT TURN LANE MEDIAN PAVEMENT

N.T.S.

MEDIAN ISLAND PAVEMENT
NOSE & LEFT TURN LANE

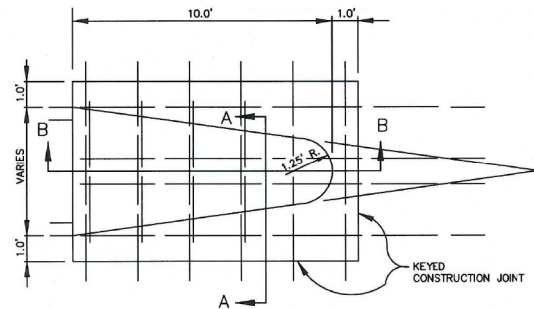
CITY OF ROCKWALL



STANDARD SPECIFICATION REFERENCE
305.3

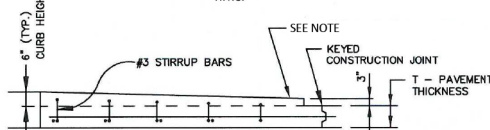
DATE
AUG. '19

STANDARD DRAWING NO.
R-2130



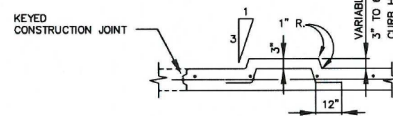
MONOLITHIC CONCRETE MEDIAN NOSE

N.T.S.



SECTION B-B

N.T.S.



SECTION A-A

N.T.S.

MEDIAN ISLAND PAVEMENT
MONOLITHIC CONCRETE NOSE

CITY OF ROCKWALL

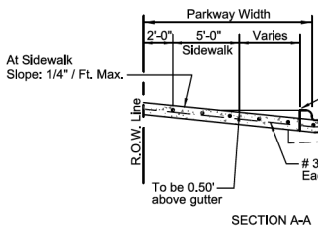


STANDARD SPECIFICATION REFERENCE
305.3

DATE
AUG. '19

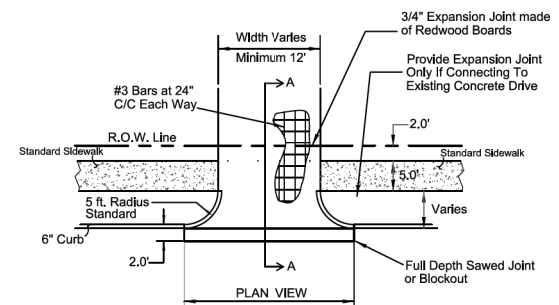
STANDARD DRAWING NO.
R-2140

- NOTE:
1. MEDIAN NOSE PAVEMENT STRENGTH SHALL MATCH THAT OF STREET PAVING.
 2. MONOLITHIC NOSE REQUIRED WHEN LESS THAN 6.0' FACE TO FACE.
 3. REINFORCEMENT BARS SHALL MATCH THOSE IN PAVEMENT.



NOTE:

Sidewalk section thru driveway to be poured same thickness as driveway - 6" Thick 3,600 P.S.I. Reinf. Conc. Pvm. w/ #3 Bars @ 24" O.C.E.W. (Grade 60 Steel)



DRIVEWAY DETAILS
(Not to Scale)

DRIVEWAY DETAIL

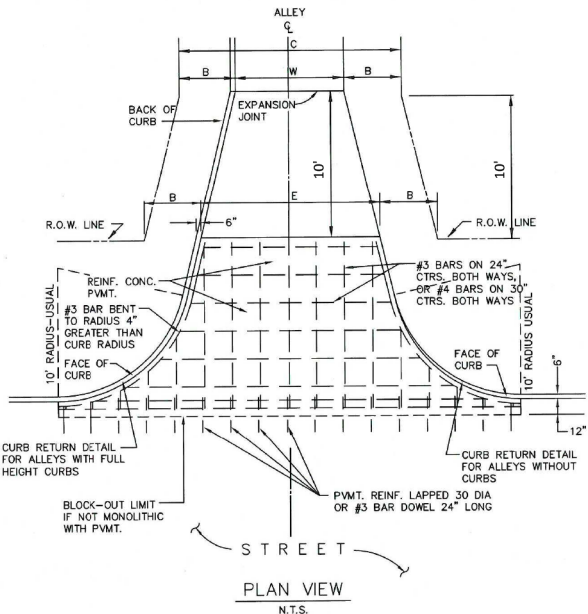
RESIDENTIAL DRIVEWAY

CITY OF ROCKWALL



DATE
AUG. '19

DRAWING NO.
R-2150



PLAN VIEW

N.T.S.

ALLEY WIDTH (W)	R.O.W. WIDTH (C)	B	E
12'	20'	4'	14'

ALLEY APPROACH
RADIUS RETURN TYPE

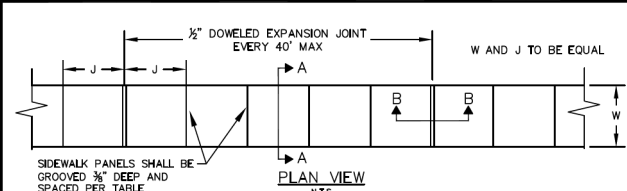
CITY OF ROCKWALL



STANDARD SPECIFICATION REFERENCE
305.2

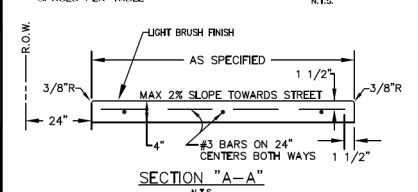
DATE
Mar. 2018

STANDARD DRAWING NO.
R-2160



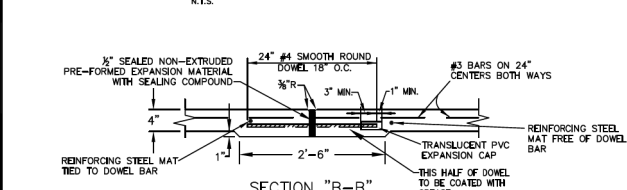
PLAN VIEW

N.T.S.



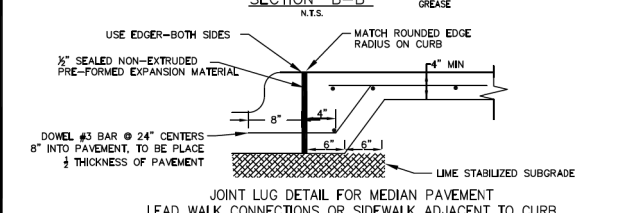
SECTION "A-A"

N.T.S.



SECTION "B-B"

N.T.S.



JOINT LUG DETAIL FOR MEDIAN PAVEMENT

LEAD WALK CONNECTIONS OR SIDEWALK ADJACENT TO CURB

N.T.S.

REINFORCED CONCRETE SIDEWALKS

JOINTS AND SPACING

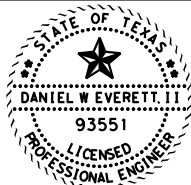
CITY OF ROCKWALL



DATE
AUG. '19

DRAWING NO.
R-2170

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DATE: 3/30/2021



Daniel W. Everett, II, P.E.

3/30/2021

REV. NO. DATE DESCRIPTION BY



DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL


ROCKWALL COUNTY, TEXAS

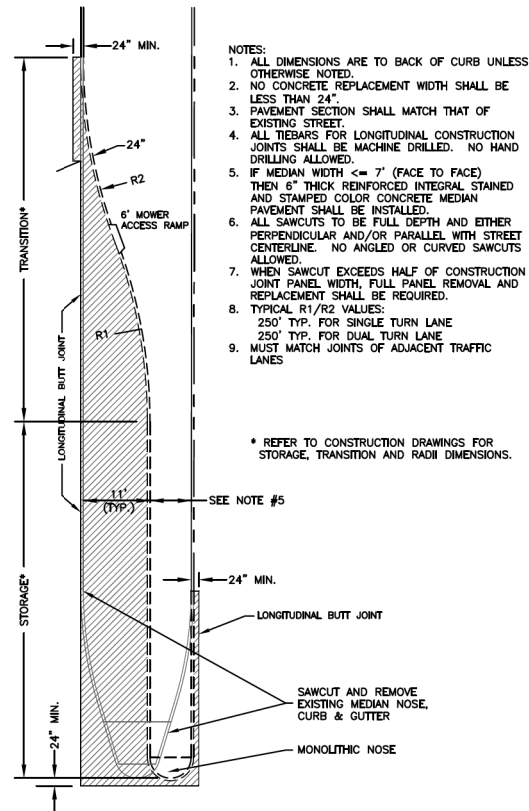
RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL


SHEET 2 OF 4

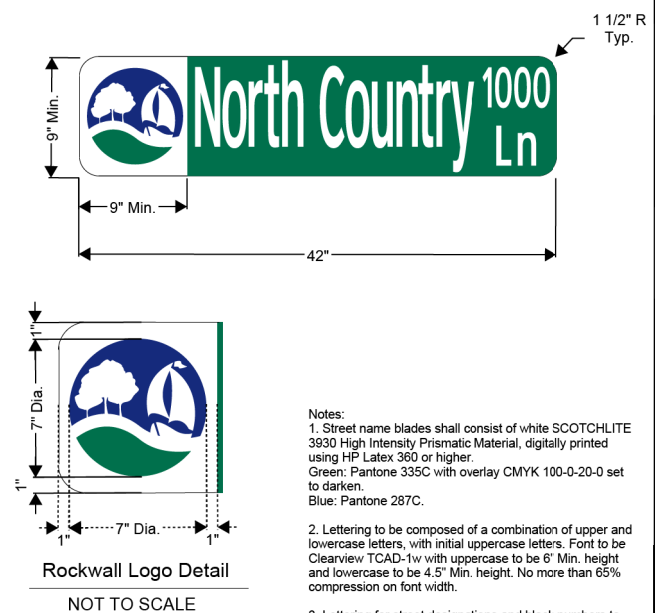
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CK: JMG CIP PROJECT NO: TR2018-003 SCALE
DRN: PRP DEC PROJECT NO: 5159-01 HORIZ: SHEET NO.
CK: JMG DATE: 10/17/2023 VERT: 55


1. REINFORCED CONCRETE PAVEMENT:
 - A. ALL CURBS SHALL BE PLACED INTIMATELY WITH PAVEMENT UNLESS OTHERWISE APPROVED BY THE OWNER.
 - B. CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE PAVEMENT.
 - C. BARS LAPS SHALL BE 30 DIAMETERS.
 - D. REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE OWNER.
2. SUBGRADE: (UNLESS OTHERWISE SPECIFIED BY OWNER)
 - A. SUBGRADE UNDER ALL PAVEMENTS SHALL BE STABILIZED TO A MINIMUM DEPTH OF SIX (6") INCHES WITH HYDRATED LIME CEMENT. LABORATORY TESTS WILL BE PERFORMED TO DETERMINE THE AMOUNT OF LIME OR CEMENT TO USE.

PAVEMENT SYSTEMS	CITY OF ROCKWALL 	STANDARD SPECIFICATION REFERENCE
GENERAL NOTES		302.303 DATE: Mar. 2018 STANDARD DRAWING NO. R-2190

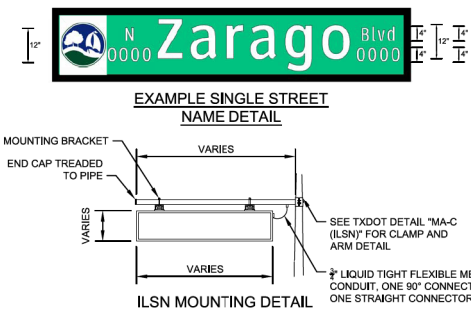


LEFT TURN LANE		DATE	DRAWING NO.
CONCRETE REMOVAL & REPLACEMENT		AUG. '19	R-2270




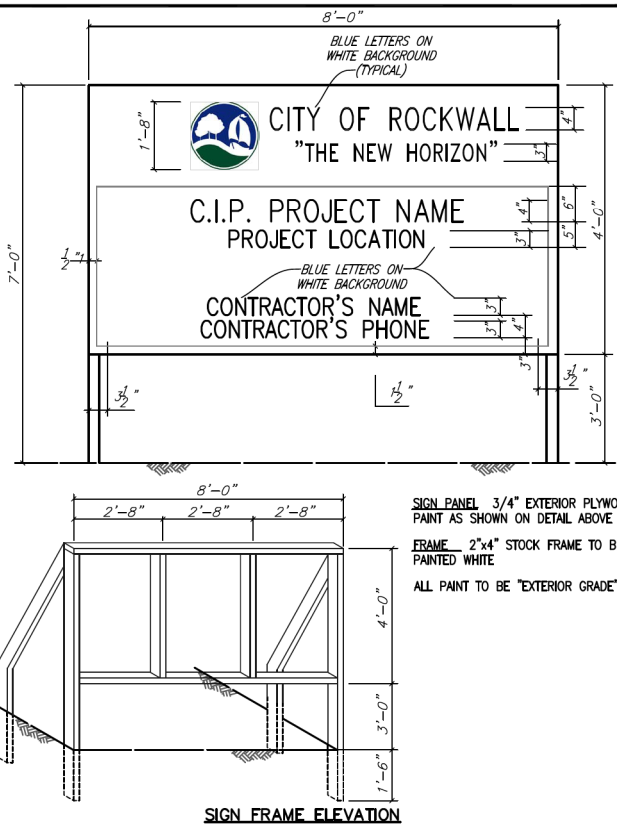
STREET REGULATORY SIGNAGE			
TYPICAL STREET SIGN DETAIL		DATE May 2018	DRAWING NO. R-2300


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DATE: 3/30/2021

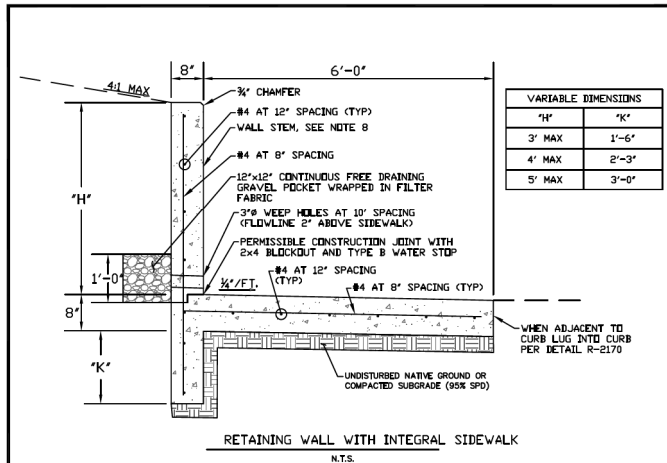


1. UNLESS OTHERWISE SPECIFIED, ALL LETTER SPACING AND WIDTH SHALL BE 100% OF THE US DOT MINIMUM RECOMMENDATION.
 - A. LEGENDS REQUIRING LENGTHS GREATER THAN THE 96" WIDTH OF THE SIGN USING STANDARD POLE SPACING, MAY BE ADJUSTED TO FIT.
2. ILSNS UP TO 8" IN LENGTH MAY BE PLACED ON A 7' ILSN CLAMP-ON ARM. ILSNS UP TO 8" IN LENGTH MAY BE PLACED ON A 12" ILSN CLAMP-ON ARM.
3. LETTER SIZE AND SPACING BETWEEN THE VARIOUS SIGN ELEMENTS SHALL FOLLOW THE CURRENT VERSION OF THE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS MANUAL FOR D3-1.
4. A. MINORED LETTER HEIGHTS MAY BE REDUCED TO 10% OF THE MINIMUM LETTER HEIGHT CASE LETTERS. STREET NAME LETTER HEIGHT MAY BE REDUCED TO 10% TO REDUCE THE SIZE OF THE SIGN AS NEEDED.
5. THE LOGO LOGO HEIGHT SHALL MATCH MAXIMUM TEXT SIZE HEIGHT ON SIGN LEGEND. THE LOGO SHALL BE PLACED ON THE LEFT SIDE OF EACH SIDE OF THE SIGN ON A WHITE BACKGROUND. THE ILSN LEGEND MAY BE COMPOSED OF ONE LINE OR TWO LINES OF TEXT. CONTRACTOR TO VERIFY WITH CITY BEFORE SUBMITTING DRAWINGS FOR SIGNS WITH TWO LINES OF TEXT.
6. SIGNS SHALL BE EDGE-LIT LED ILLUMINATED.
7. FACE COLOR/MATERIAL: GREEN EC FILM OVER HIGH-INTENSITY TRANSLUCENT REFLECTIVE WHITE BACKGROUND ON REVERSE SIDE.
8. FRAME WIDTH TO BE PROVIDED BY MANUFACTURER.
9. SIGN BODIES AND DOORS ARE TO BE POWDER COATED GLOSSY BLACK.
10. SIGNS SHALL BE SINGLE SIDED EXCEPT UNDER THE FOLLOWING CONDITION:
 - A. SIGN SHALL BE DOUBLE SIDED IF BOTH APPROACHES FACING THE SIGN ARE UNDIVIDED (NO MEDIAN).
11. SIGNS SHALL BE TOP MOUNTED USING STANDARD TxDOT DETAIL.
12. SIGNS SHALL BE MOUNTED ON A STANDARD TYPICAL ILSN CLAMP-ON ARM UNLESS OTHERWISE DIRECTED IN THE PLANS.
13. ILSN SHALL BE FULLY GASKETED AND WATERTIGHT.
 - A. SIGN LENGTH TO SIGN LENGTH TO SIGN LENGTH (SEE TxDOT TRAFFIC SIGNAL POLE STANDARDS)
14. A SEPARATE PROTOCOL FOR ILSN/120 VOLT CIRCUIT WILL BE REQUIRED.
15. TWO #8 XHW CONDUCTORS SHALL BE INSTALLED FROM SERVICE TO TERMINAL BLOCK OF EACH POLE TO ILSN. ONE ILSN CONDUCTOR SHALL BE INSTALLED FROM SERVICE TO TERMINAL BLOCK OF EACH POLE SHALL BE PAID FOR SEPARATELY FROM THE ILSN PAID ITEM.)
16. A. DMSY CHAIN ALL ILSNS UNLESS OTHERWISE DIRECTED IN THE PLANS.
17. ILSN 12" XHW CONDUCTORS SHALL BE INSTALLED FROM SERVICE TO TERMINAL BLOCK OF POLE TO ILSN UNLESS OTHERWISE SHOWN IN THE PLANS. (CONDUCTORS FROM THE TERMINAL BLOCK OF EACH POLE TO ILSN SHALL BE PAID FOR SEPARATELY FROM THE ILSN PAID ITEM.)
18. CONTRACTOR TO PROVIDE DRAWING OF THE ILSNS TO SIGNS TO CITY OF ROCKWALL FOR APPROVAL PRIOR TO FABRICATION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT NECESSARY TO INSTALL THE ILSN SIGN.
20. ALL ILSNS SHALL FOLLOW ALL RULES AND GUIDELINES AS SPECIFIED IN THE MOST RECENT EDITIONS OF THE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SIGNAGE. ANY CONFLICTS BETWEEN THE ABOVE NOTES AND THESE DOCUMENTS, THESE DOCUMENTS SHALL GOVERN.


ILLUMINATED STREET NAME SIGN			
ILSN SIGN DETAIL		DATE JUN '17	DRAWING NO. R-2310

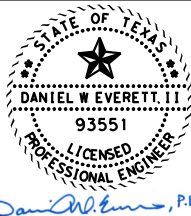


MISCELLANEOUS DETAILS			
CONSTRUCTION SIGN DETAIL		DATE AUG. '15	DRAWING NO. R-7010



1. FOR USE OF THIS STANDARD DETAIL, THE FOLLOWING GEOTECHNICAL SITE CONDITIONS MUST BE MET:
 - MINIMUM ALLOWABLE BEARING PRESSURE 1,500 PSF
 - MINIMUM COEFFICIENT OF FRICTION 0.3
 - MAXIMUM ACTIVE PRESSURE COEFFICIENT (C_o) 0.65
2. ALL MATERIALS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
4. ALL REINFORCING STEEL SHALL BE GRADE 60.
5. CLEAR CURVES SHALL BE 10' AND 3' WHERE CAST AGAINST EARTH.
6. IF ANY SURCHARGE LOAD IS ANTICIPATED AN ENGINEERING DESIGN IS REQUIRED, SEPARATE BY A REGISTERED ENGINEER IN THE STATE OF TEXAS. THIS INCLUDES DEAD LOAD SURCHARGES AND LIVE LOAD SURCHARGES SUCH AS TRAFFIC LOADS.
7. JOINT LOCATIONS SHALL BE 10' ON CENTER. JOINT SPACING SHALL BE EVERY 30 FEET FOR CONTROL JOINTS AND EVERY 90 FEET FOR EXPANSION JOINTS. TYPE B WATERSTOP SHALL BE APPLIED ON THE FILL SIDE OF ALL EXPANSION AND CONSTRUCTION JOINTS.
8. WALL FACE SHALL BE FORM LINER OR STONE VENEER WITH RANDOM ROCK ASHLAR PATTERN, NO SMOOTH CONCRETE SURFACE ALLOWED

REINFORCED CONCRETE RETAINING WALL	CITY OF ROCKWALL 		
INTEGRAL WITH SIDEWALK		DATE AUG '19	DRAWING NO. R-2180



3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
 3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2001

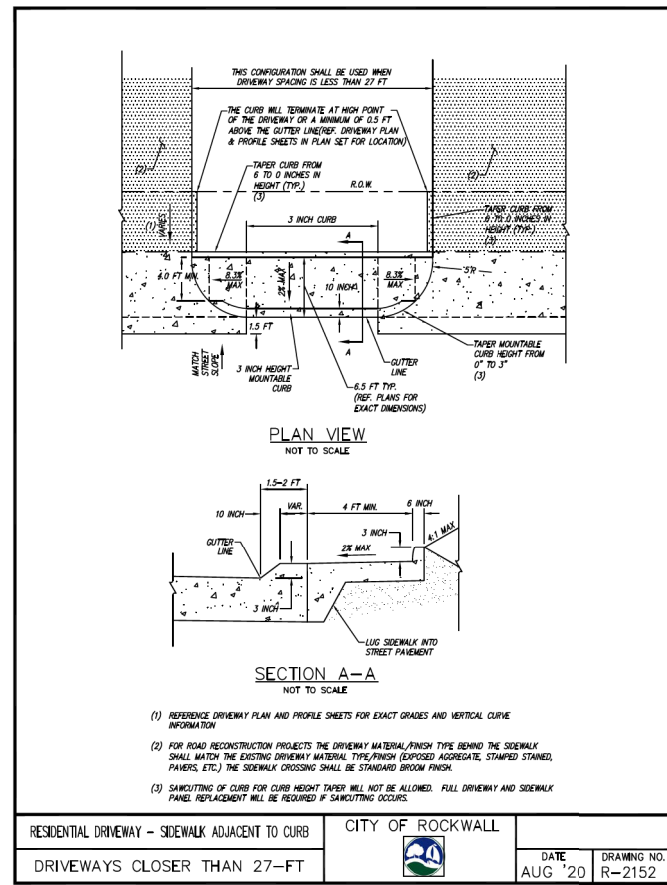
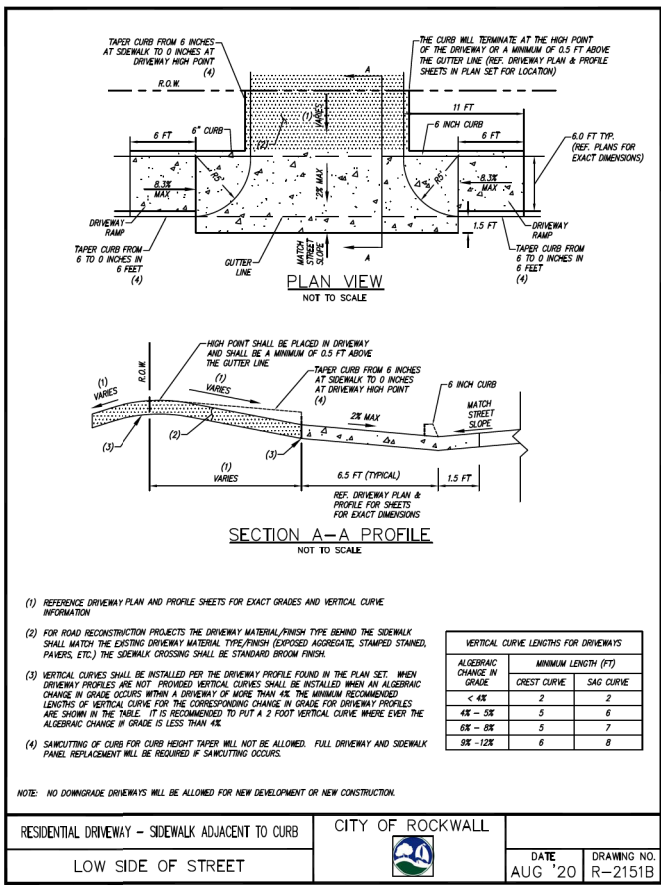
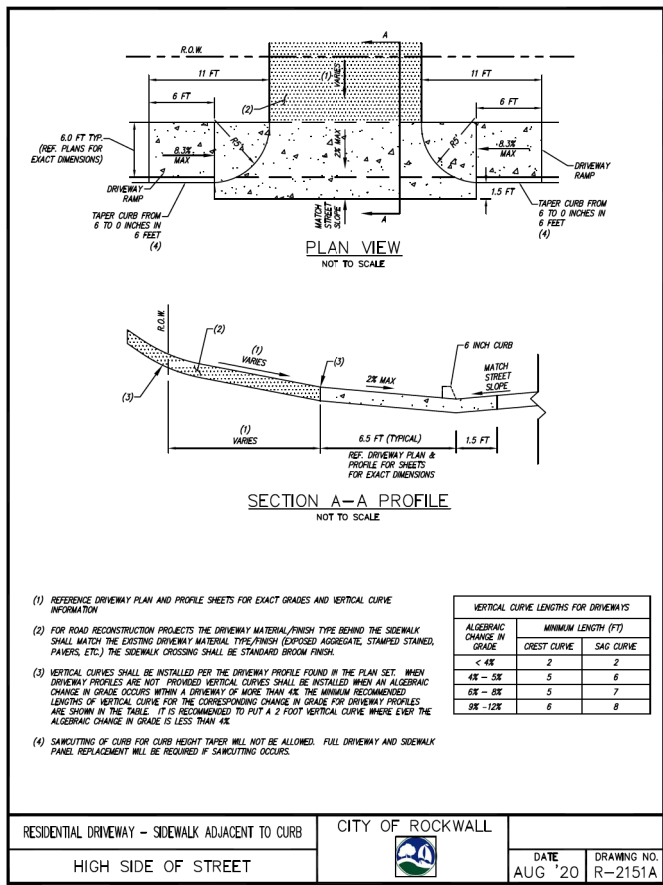
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL

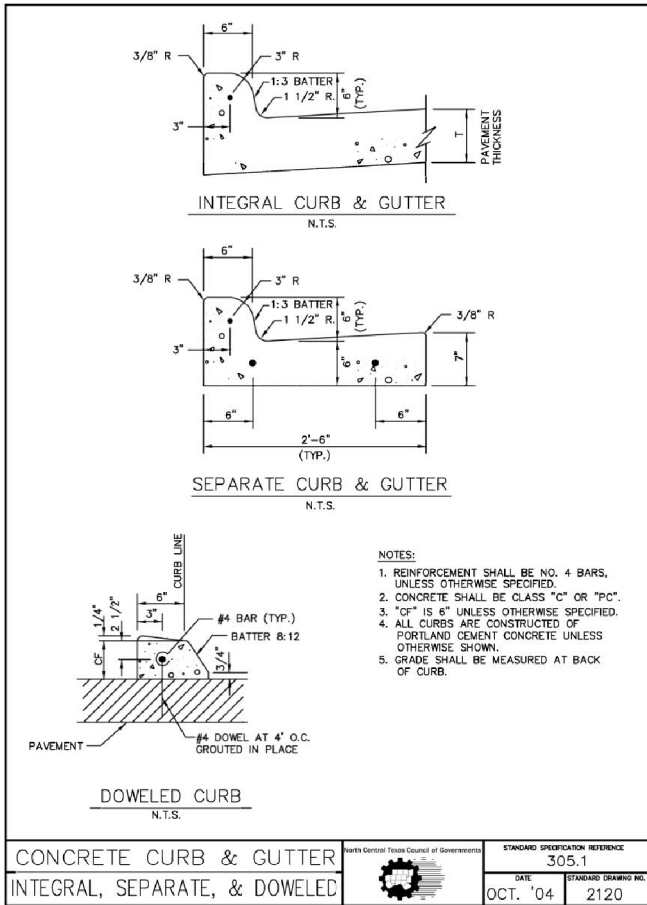
SHEET 3 OF 4

DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: JMG	DATE: 10/17/2023	VERT:	56

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DATE: 3/30/2023



STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY

CONCRETE CURB & GUTTER
INTEGRAL, SEPARATE, & DOWELED

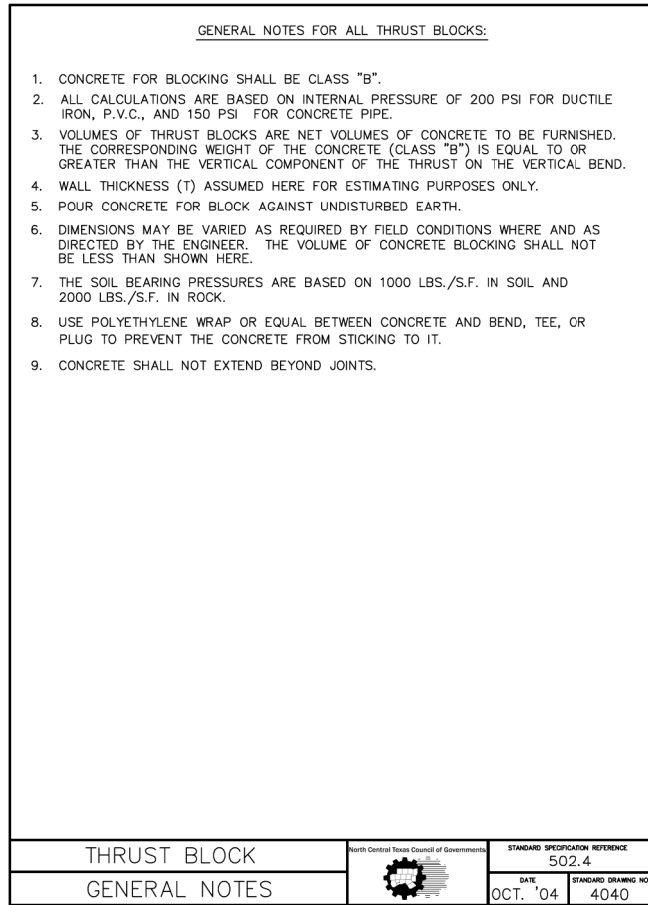
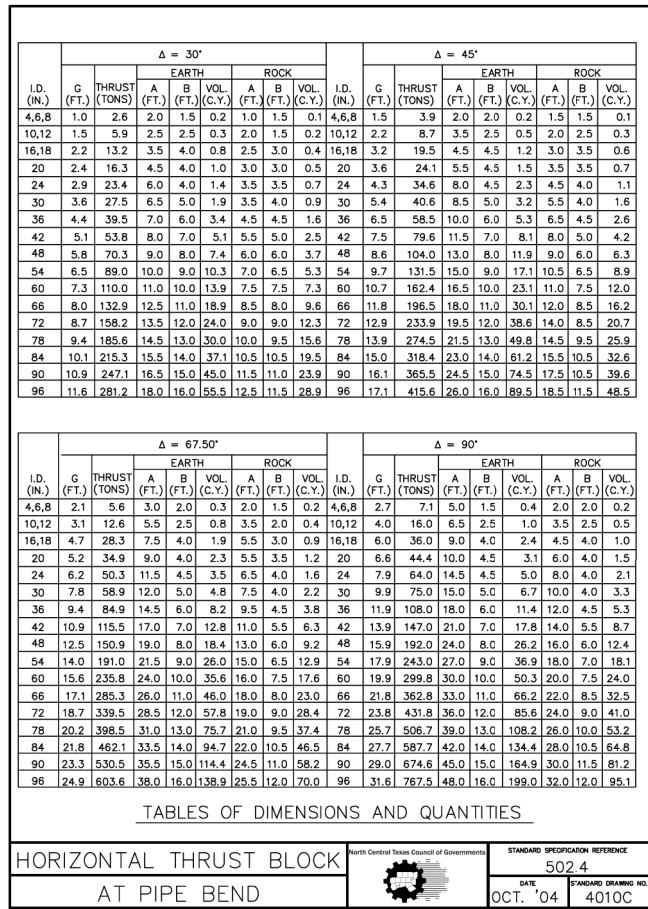
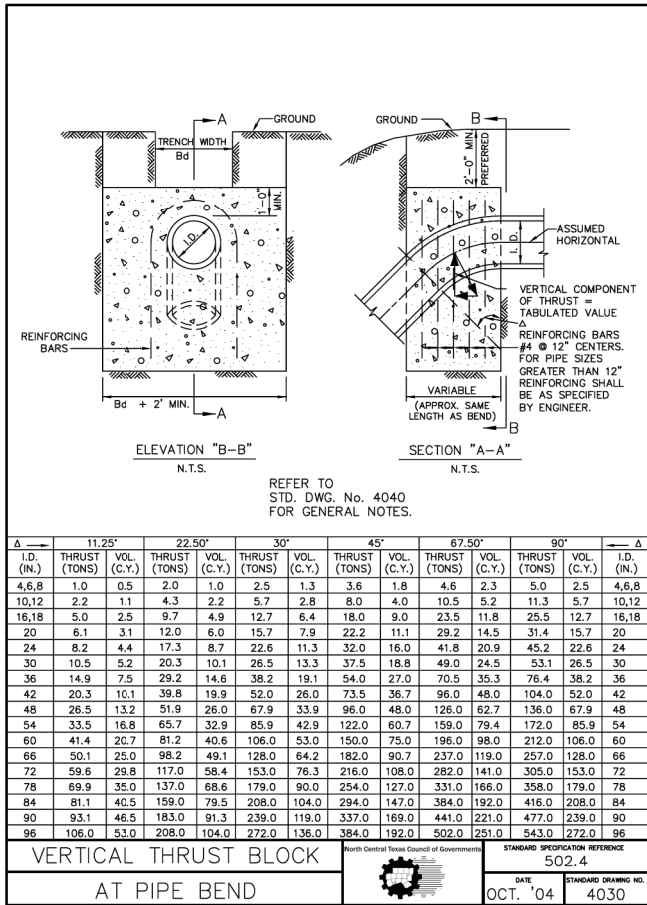
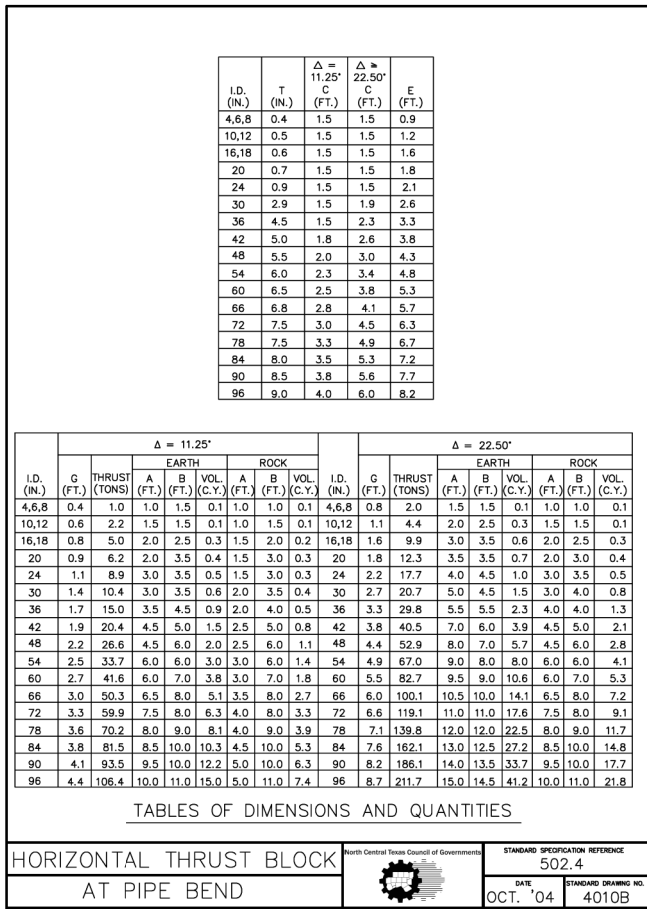
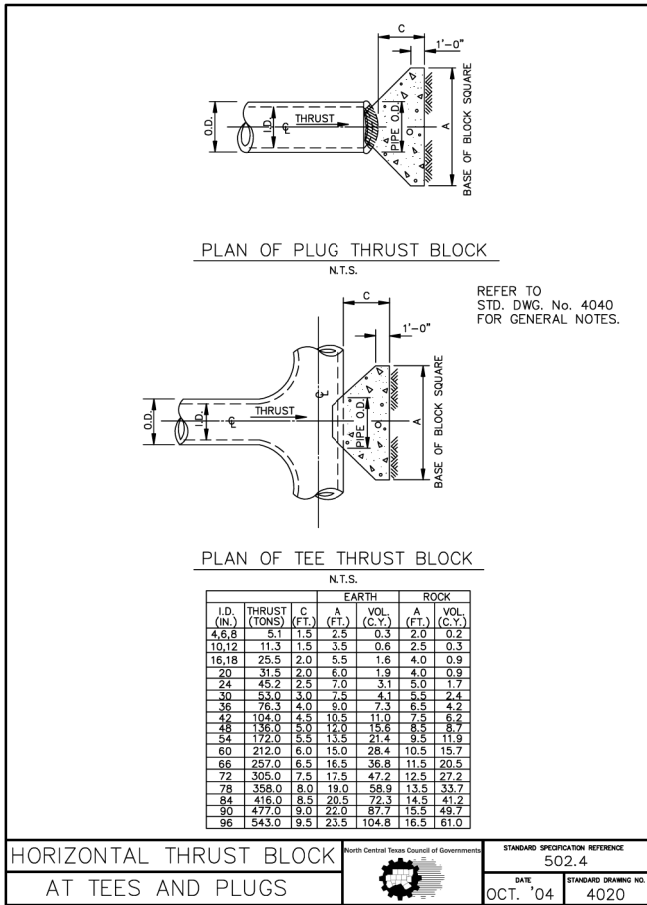
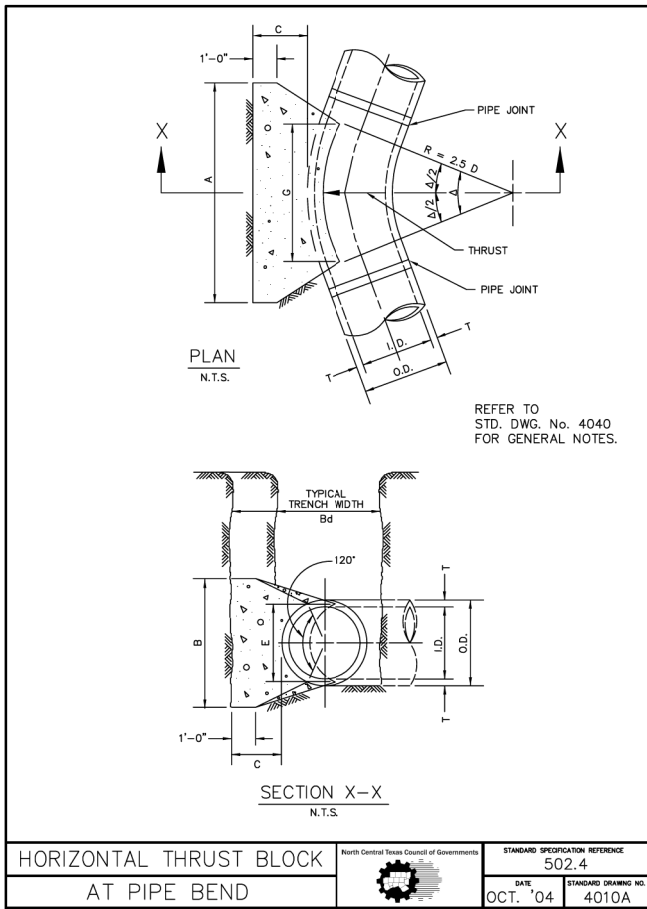
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL

SHEET 4 OF 4

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CK: JMG CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:
CK: JMG DATE: 10/17/2023	VERT: 57

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DATE: 4/26/2021

STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.

4/26/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B. JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-0002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS
RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL

DSN: DWE PROJECT: RIDGE ROAD WEST

CK: JMG CIP PROJECT NO: TR2018-003

DRN: PRP DEC PROJECT NO: 5159-01

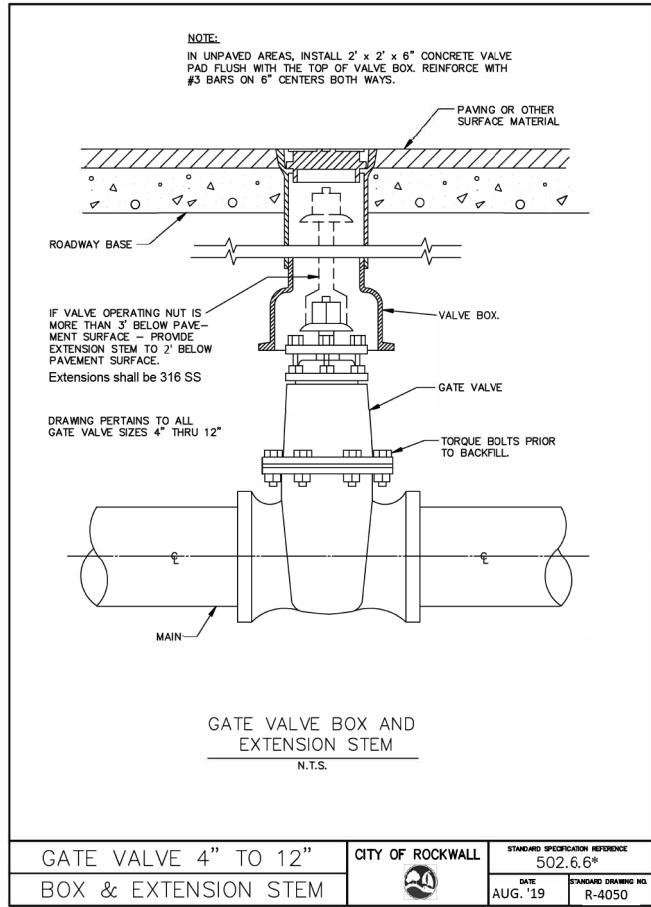
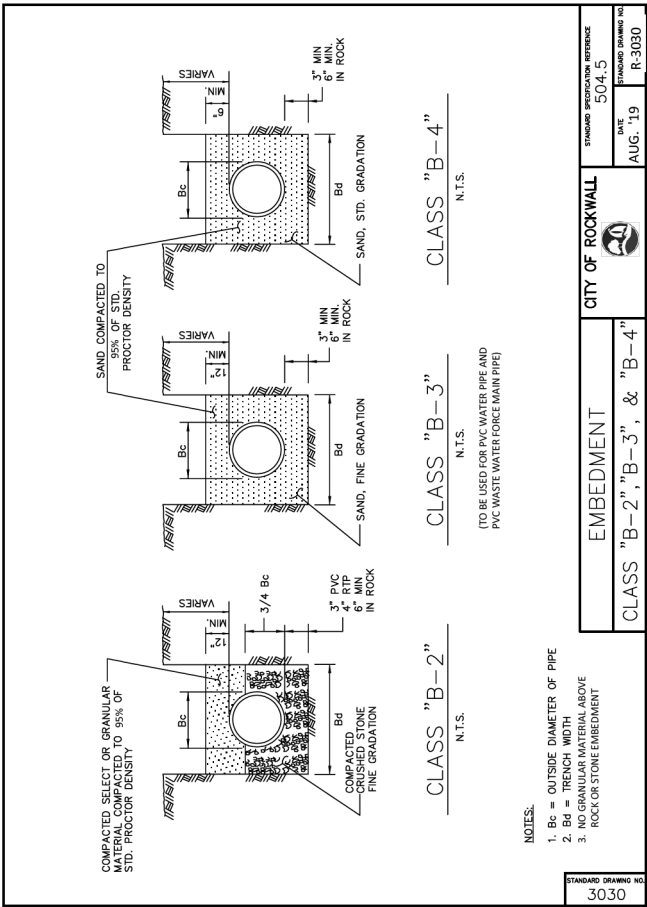
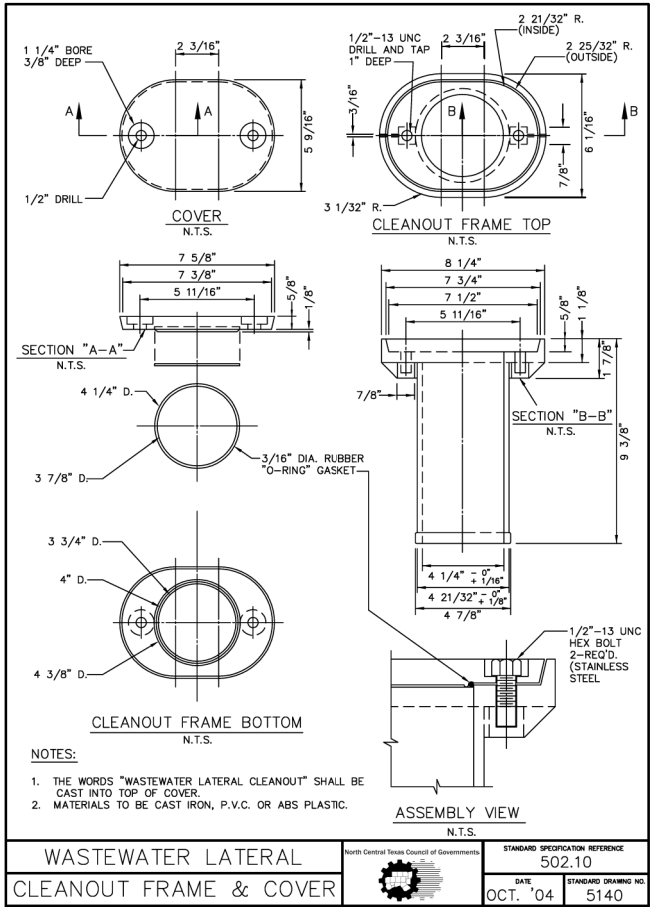
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SHEET NO. OF

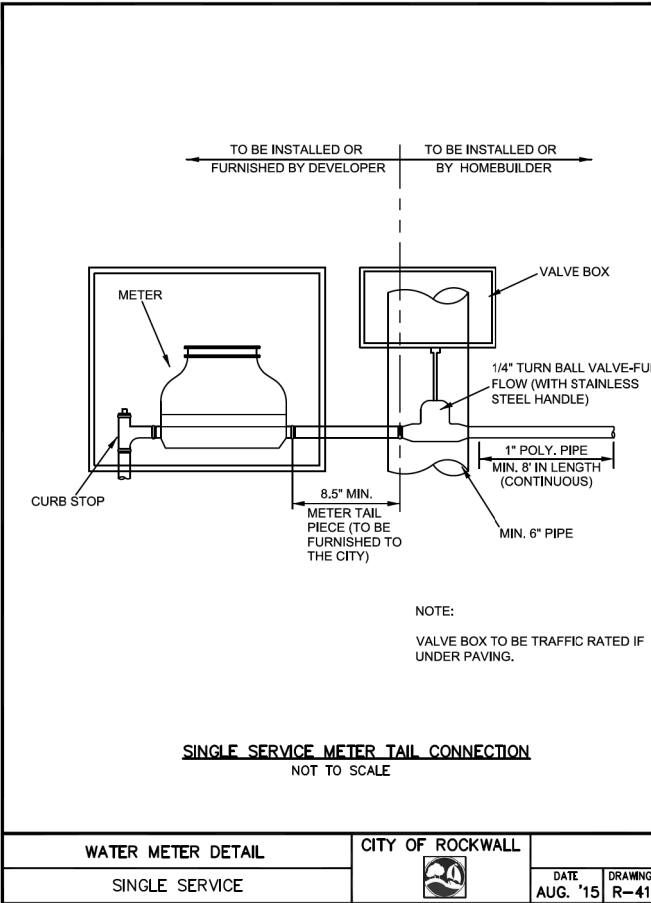
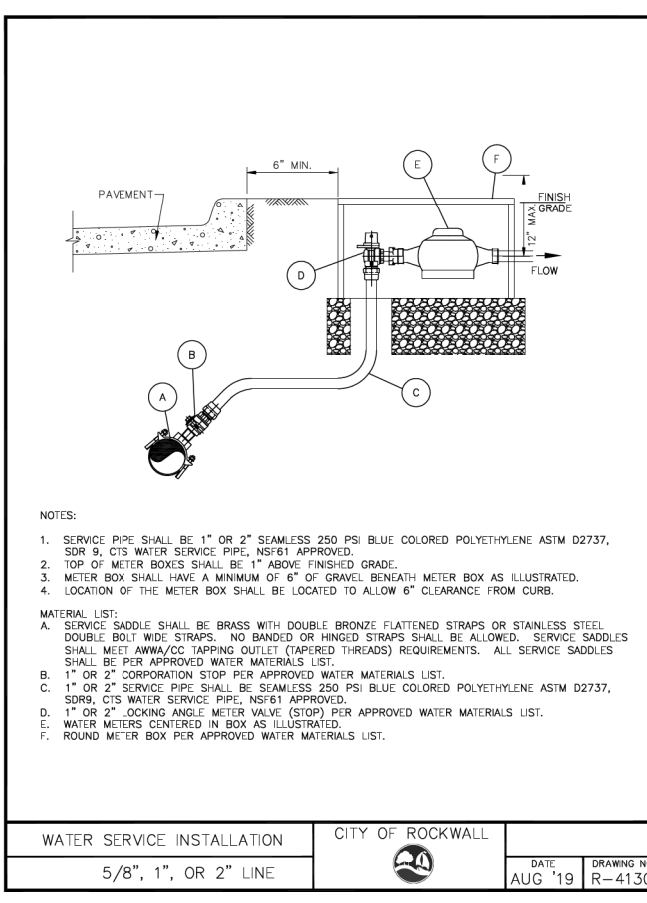
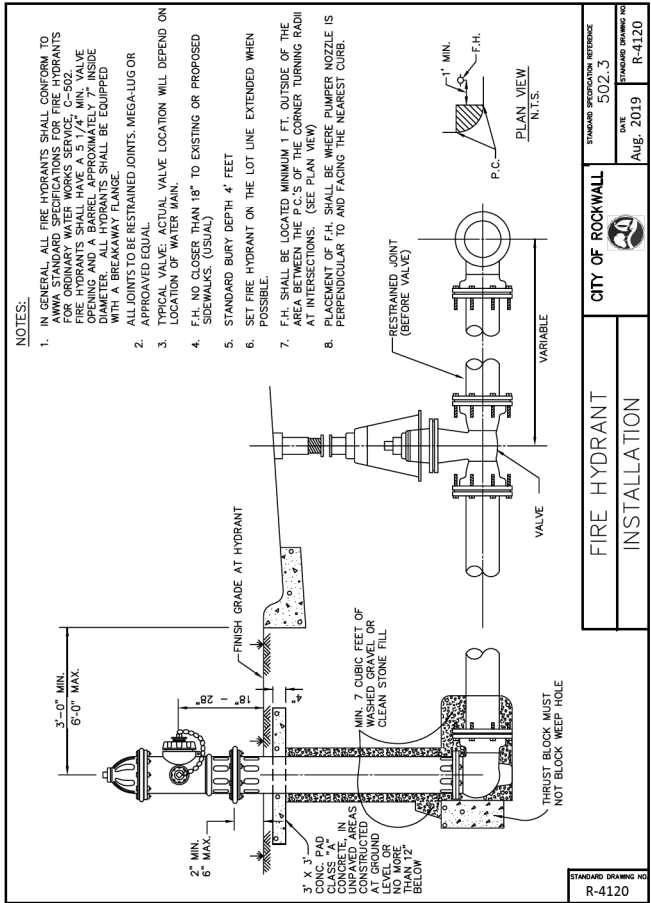
SCALE

HORIZ: VERT:

57A



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STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Daniel W. Everett, P.E.
4/26/2021

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DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

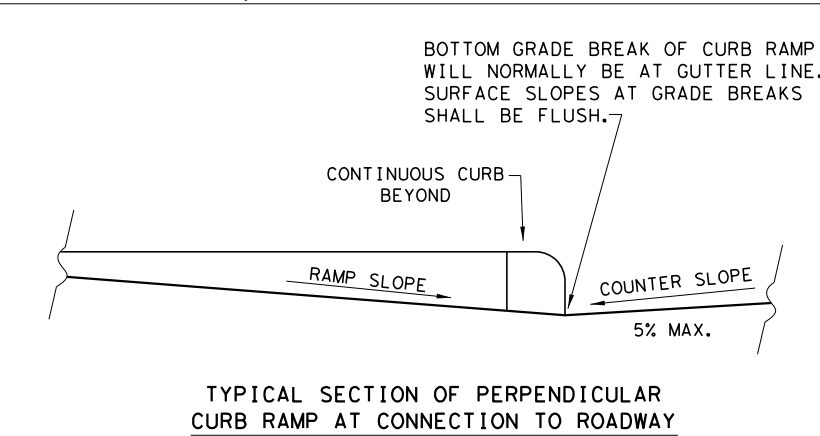
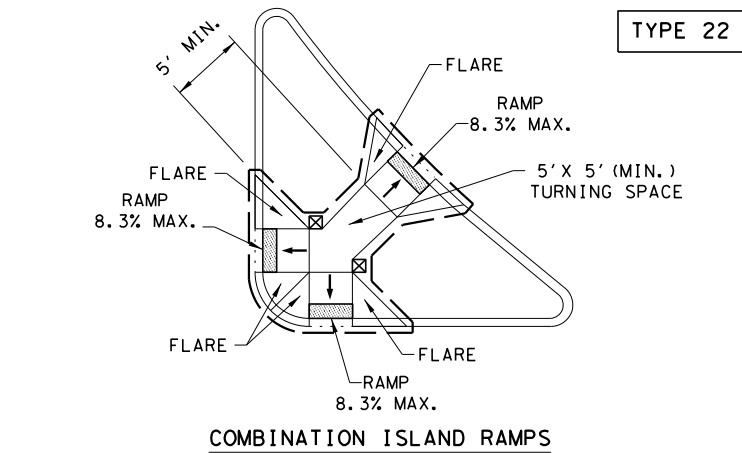
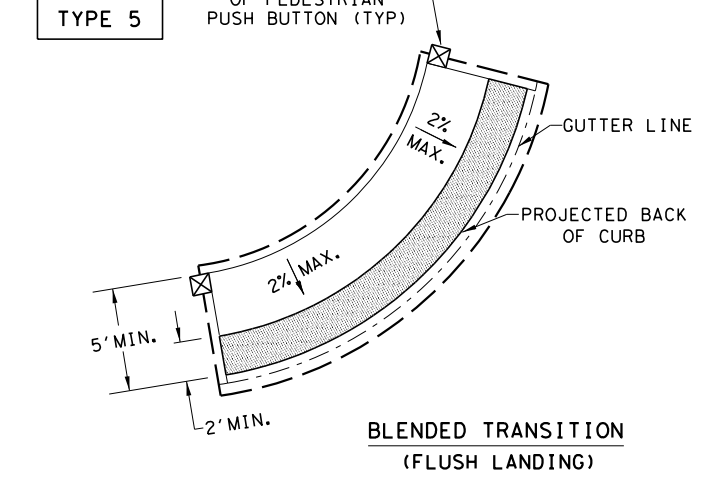
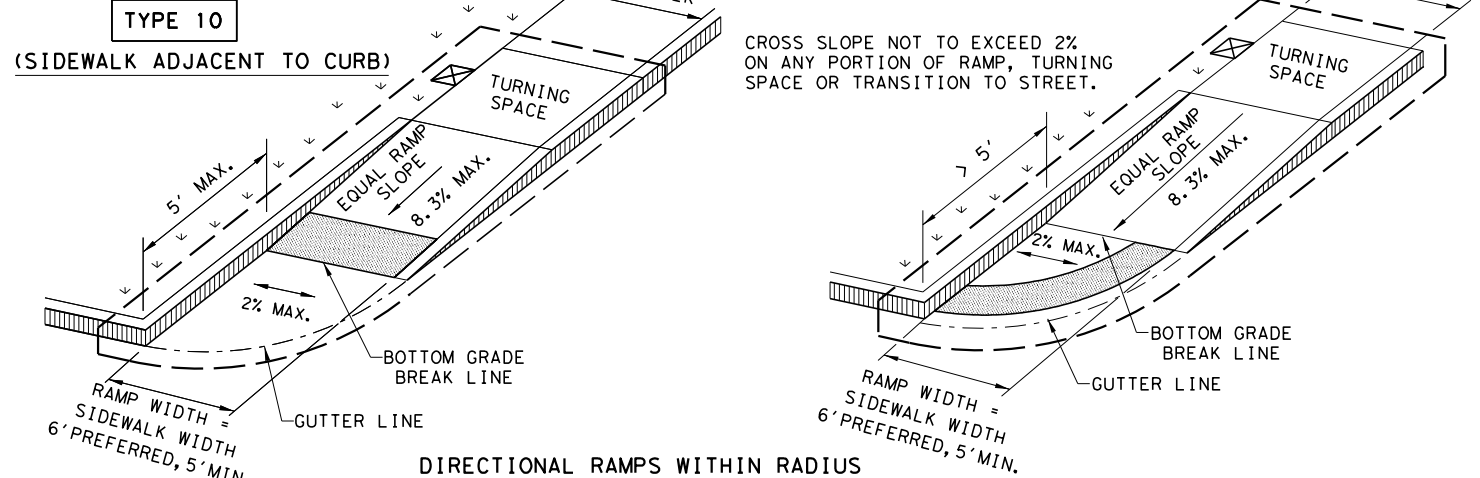
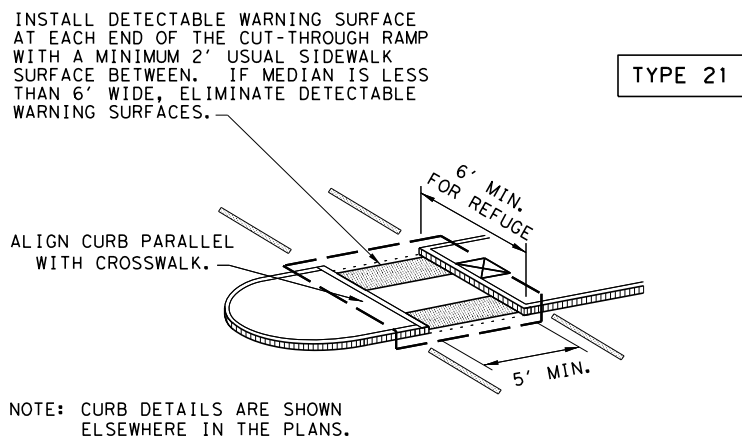
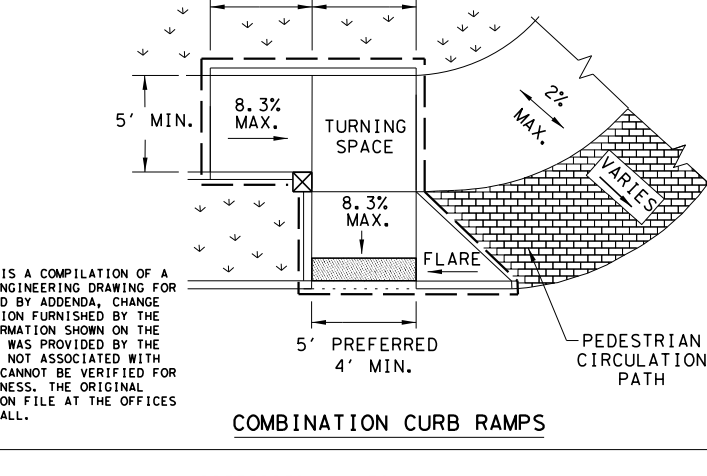
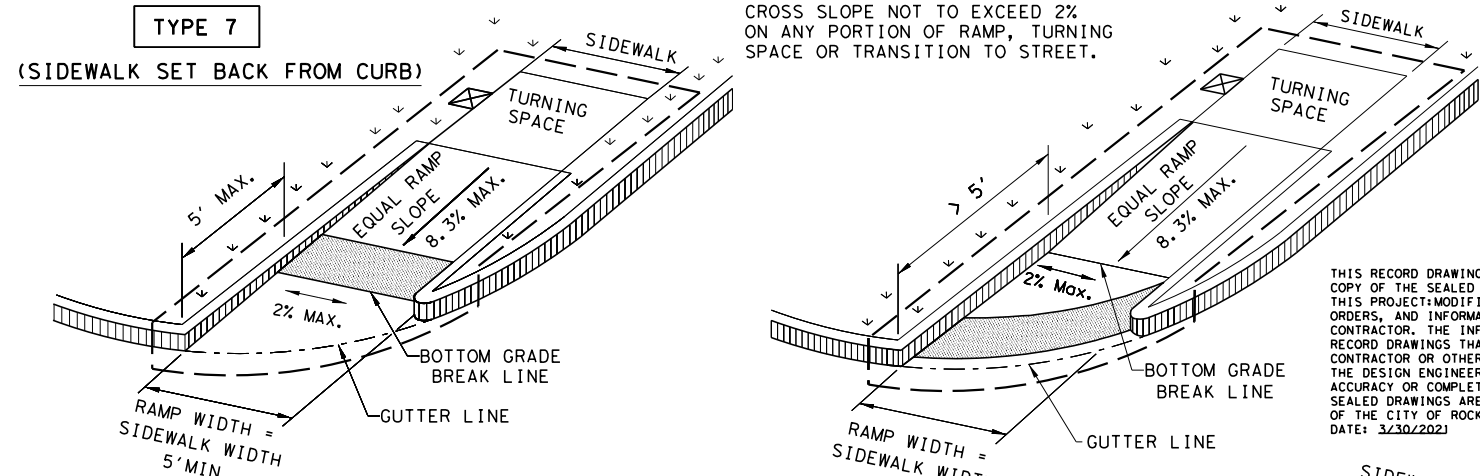
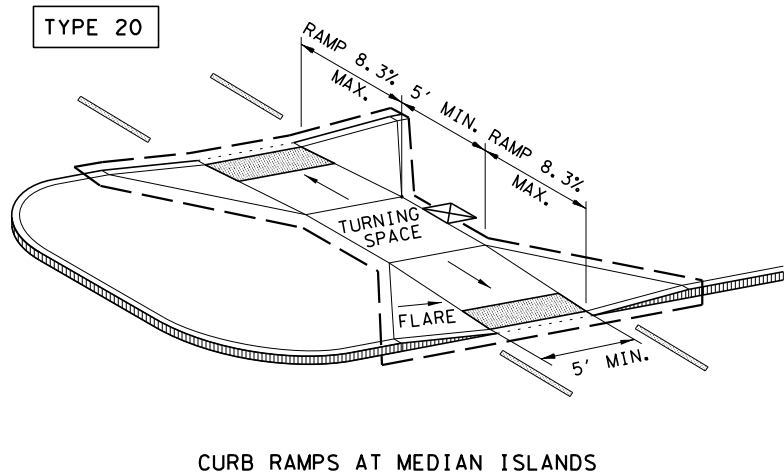
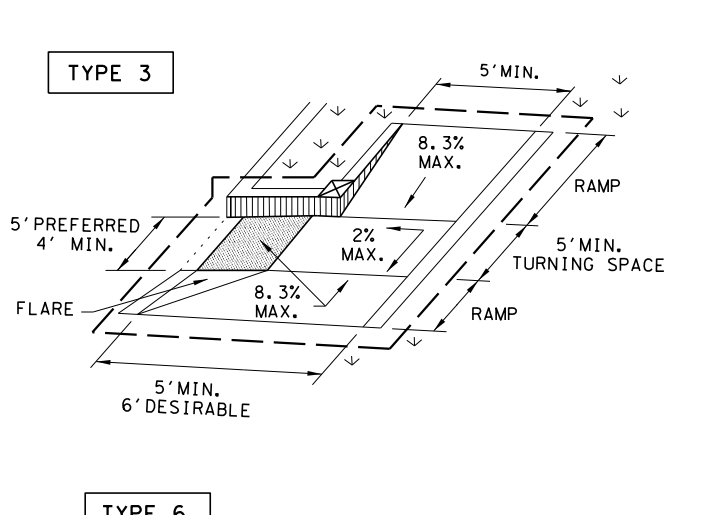
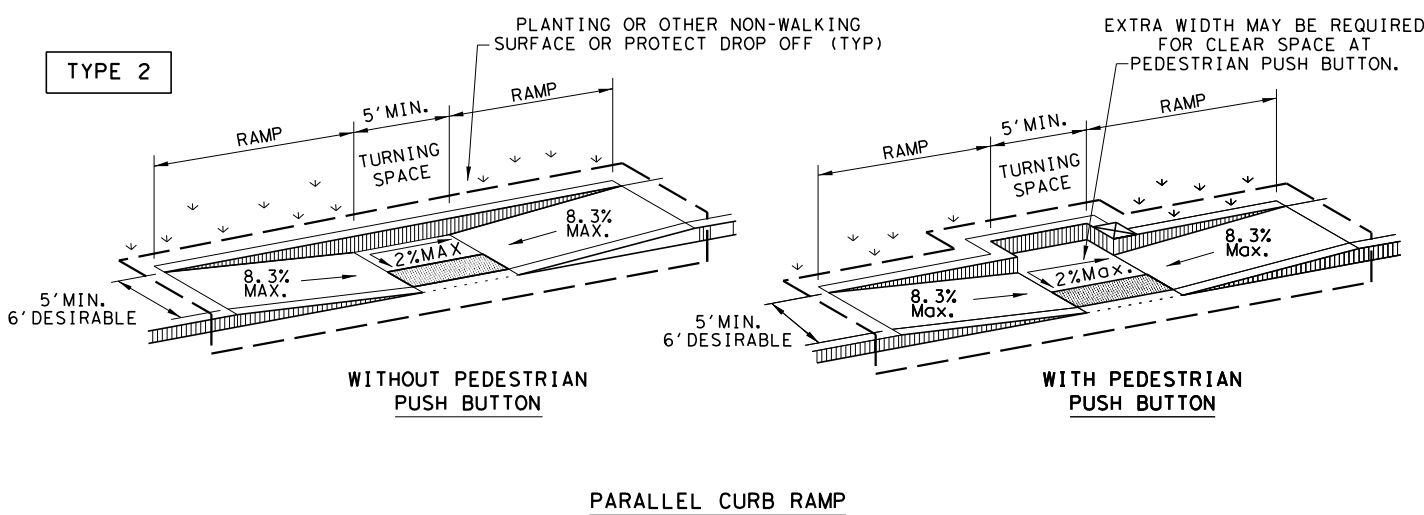
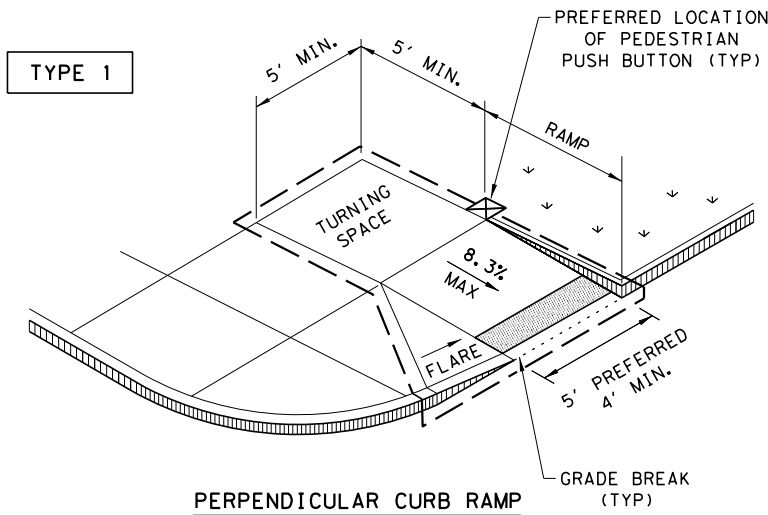
RIDGE ROAD WEST
CITY OF ROCKWALL
DETAIL

SHEET OF

DSN: DNE PROJECT: RIDGE ROAD WEST	
CK: JMG CIP PROJECT NO: TR2018-003	SCALE
DRN: PRP DEC PROJECT NO: 5159-01	HORIZ:
CK: JMG DATE: 10/17/2023	VERT: 57B

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DATE: 10/17/2023
FILE: c:\projectwise\dec\workdir\dannenbaum_yeshwanth.solidworks\d0117893\ped18.dgn



NOTES / LEGEND:

SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.




GUTTER LINE

GRADE BREAK

RAMP LIMITS OF PAYMENT



SHEET 1 OF 4

 Texas Department of Transportation		Design Division Standard			
PEDESTRIAN FACILITIES					
CURB RAMPS					
PED-18					
FILE: ped18		DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002		CONT	SECT	JOB	HIGHWAY
REVISIONS		\$C\$	\$S\$	\$J\$	\$HWY\$
REVISED 08, 2005		DIST		COUNTY	SHEET NO.
REVISED 06, 2012		\$DST\$		\$CTY\$	58
REVISED 01, 2018					

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DATE: 10/17/2023
FILE: c:\projectwise\dec\workdir\dannenbaum_yeshwanth.solidcam\d0117893\ped18.dgn

GENERAL NOTES

CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5'x 5' passing areas at intervals not to exceed 200' are required.
5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Provide a smooth transition where the curb ramps connect to the street.
17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

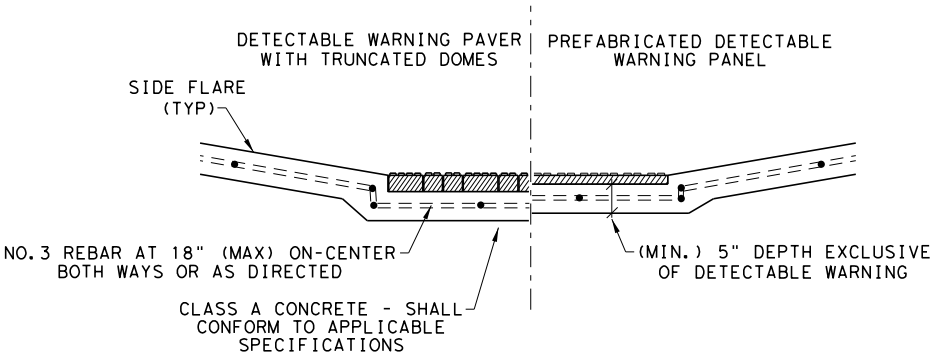
19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DETECTABLE WARNING PAVERS (IF USED)

25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

SIDEWALKS

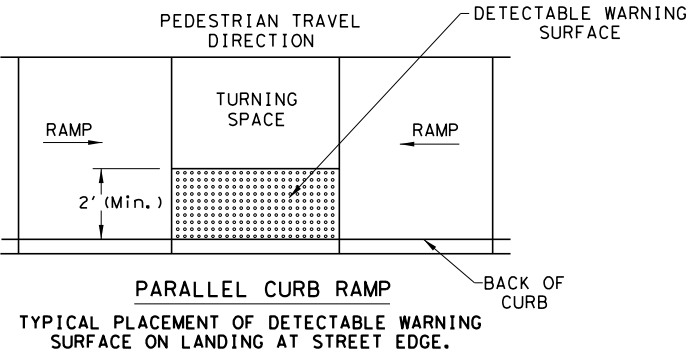
27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
29. Street grades and cross slopes shall be as shown elsewhere in the plans.
30. Changes in level greater than 1/4 inch are not permitted.
31. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
34. Sidewalk details are shown elsewhere in the plans.



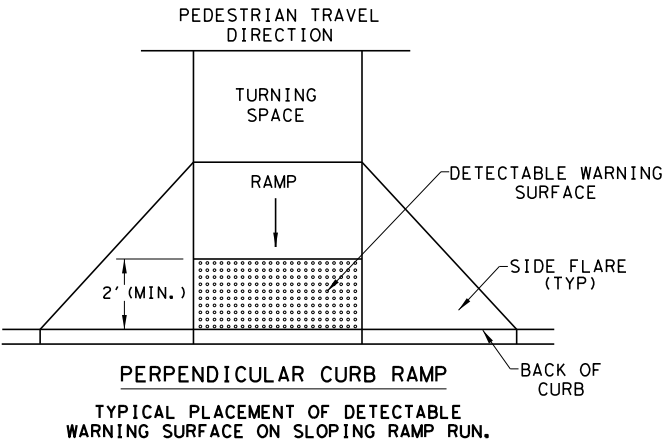
SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

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DATE: 3/30/2021

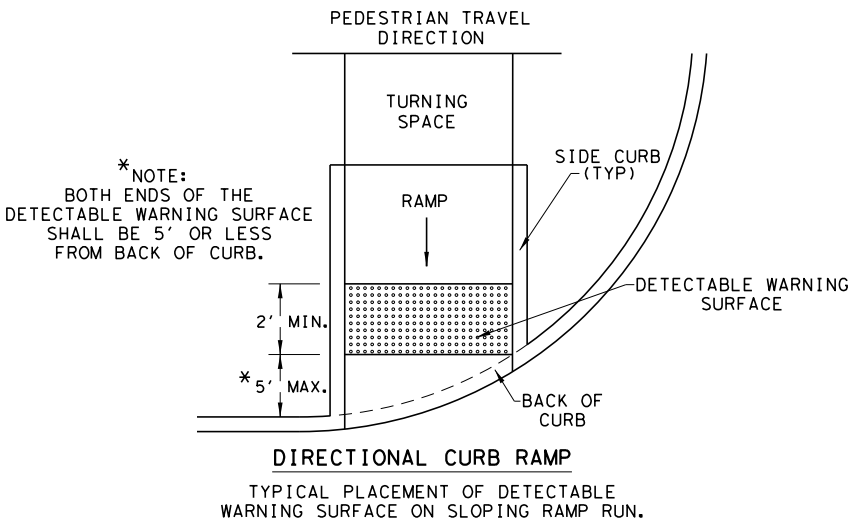
DETECTABLE WARNING SURFACE DETAILS



PARALLEL CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.



PERPENDICULAR CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.



* NOTE:
BOTH ENDS OF THE
DETECTABLE WARNING SURFACE
SHALL BE 5' OR LESS
FROM BACK OF CURB.

DIRECTIONAL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.

SHEET 2 OF 4



Design
Division
Standard

PEDESTRIAN FACILITIES
CURB RAMPS

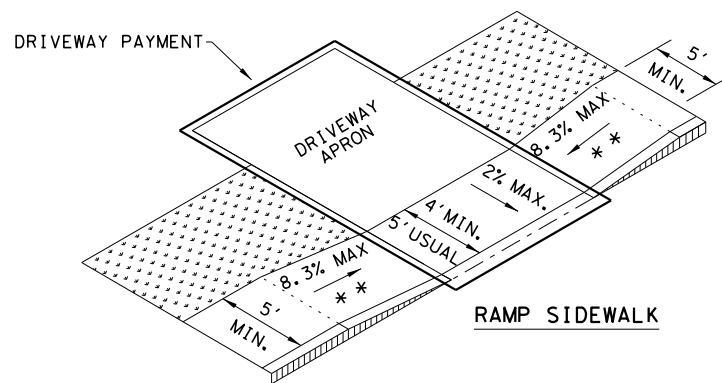
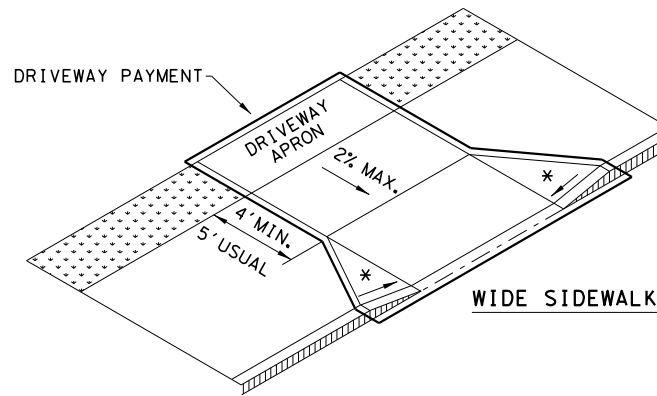
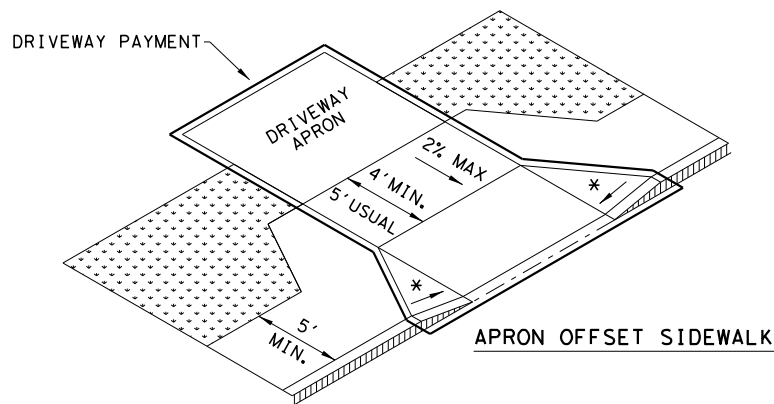
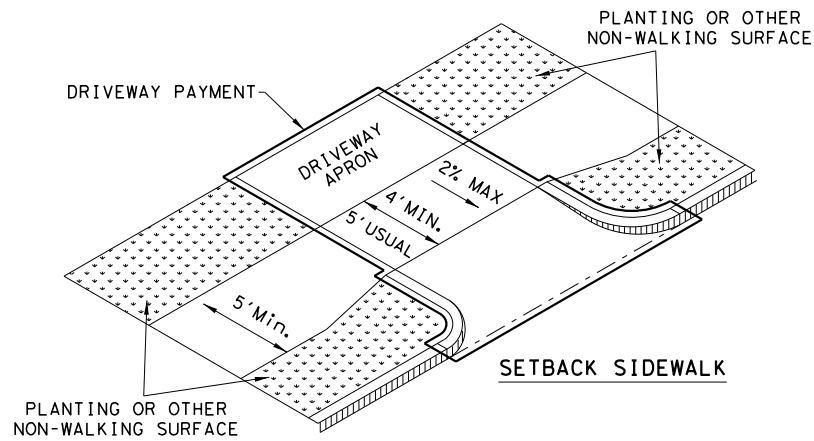
PED-18

FILE: ped18		DN: TxDOT		DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002		CONT	SECT	JOB		HIGHWAY
REVISIONS		\$C\$	\$S\$	\$J\$	\$HWY\$	
REVISED 08, 2005		DIST	COUNTY		SHEET NO.	
REVISED 06, 2012						
REVISED 01, 2018						
		\$DST\$		\$CTY\$	59	

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DATE: 10/17/2023
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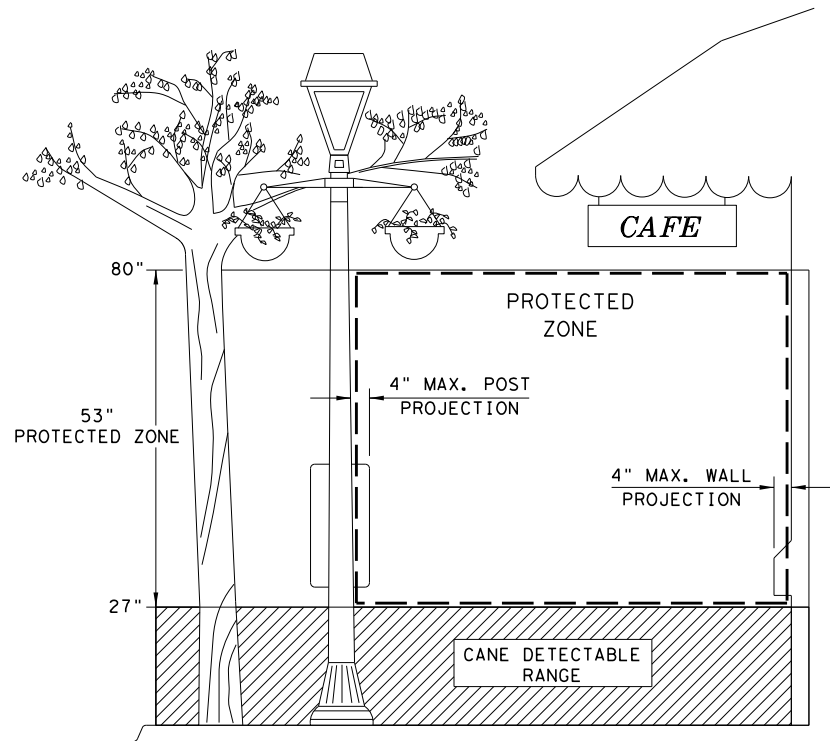
SIDEWALK TREATMENT AT DRIVEWAYS



NOTES:

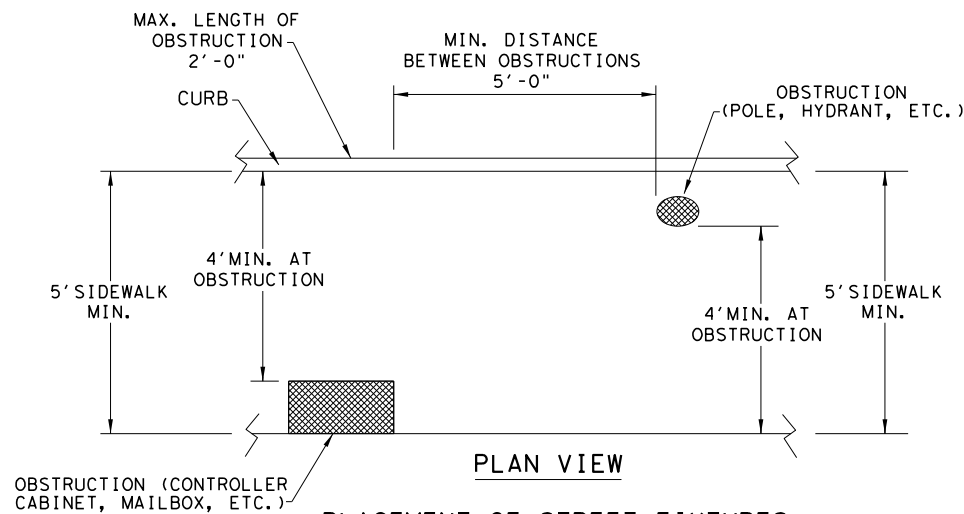
* WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.

* * IF CURB HEIGHT IS GREATER THAN 6 INCHES, USE GRADE LESS THAN OR EQUAL TO 5%. HANDRAIL AND DETECTABLE WARNING ARE NOT REQUIRED.



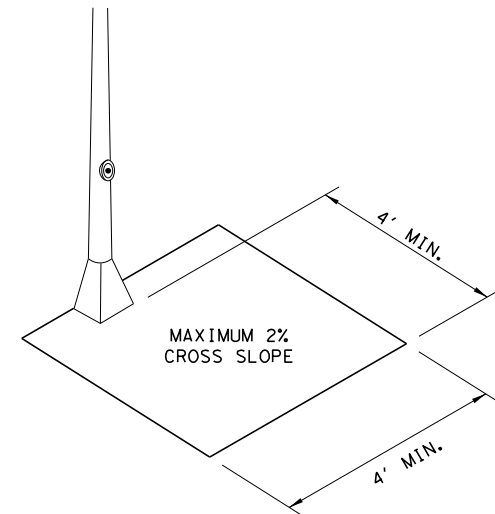
PROTECTED ZONE

NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.

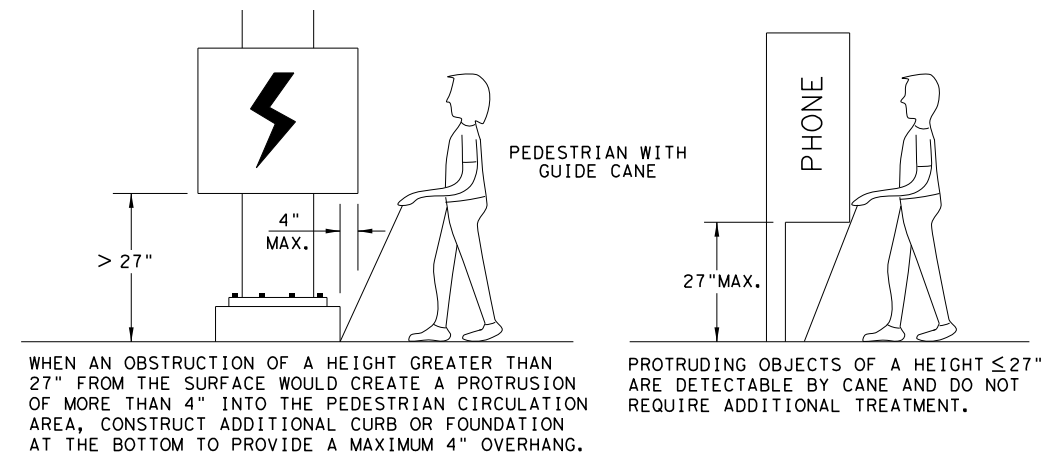


PLACEMENT OF STREET FIXTURES

NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.




CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

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DATE: 3/30/2021

SHEET 3 OF 4



Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES

CURB RAMPS

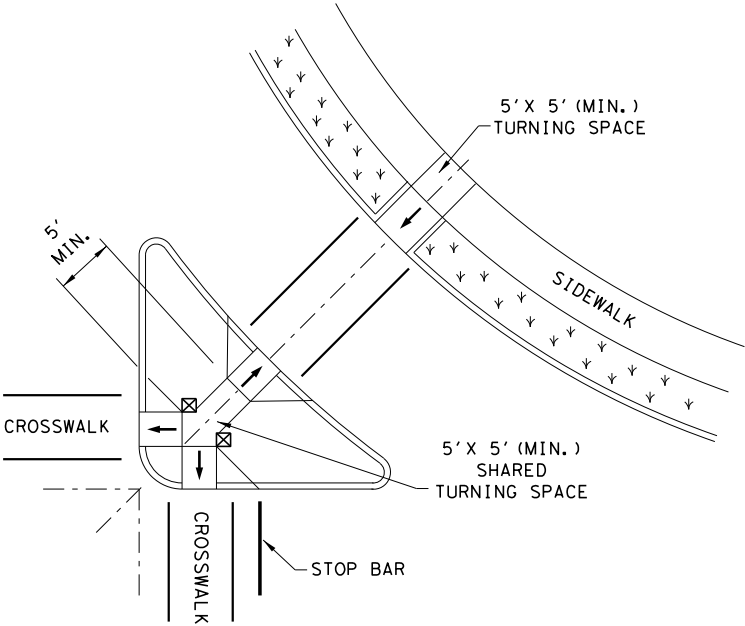
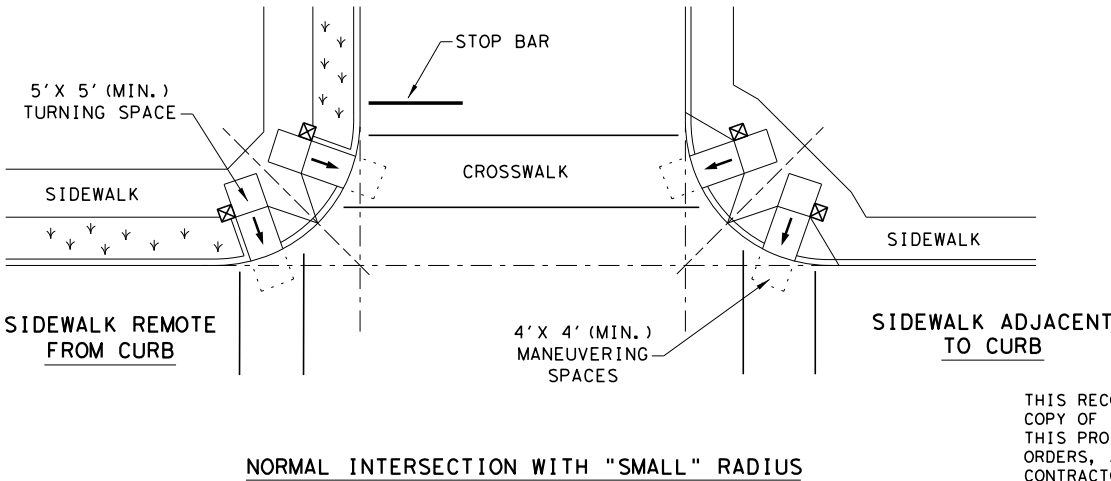
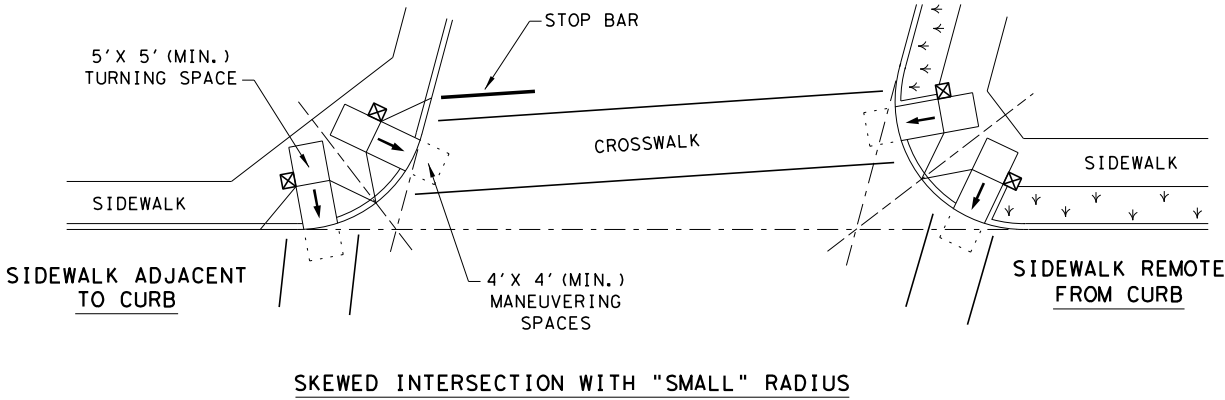
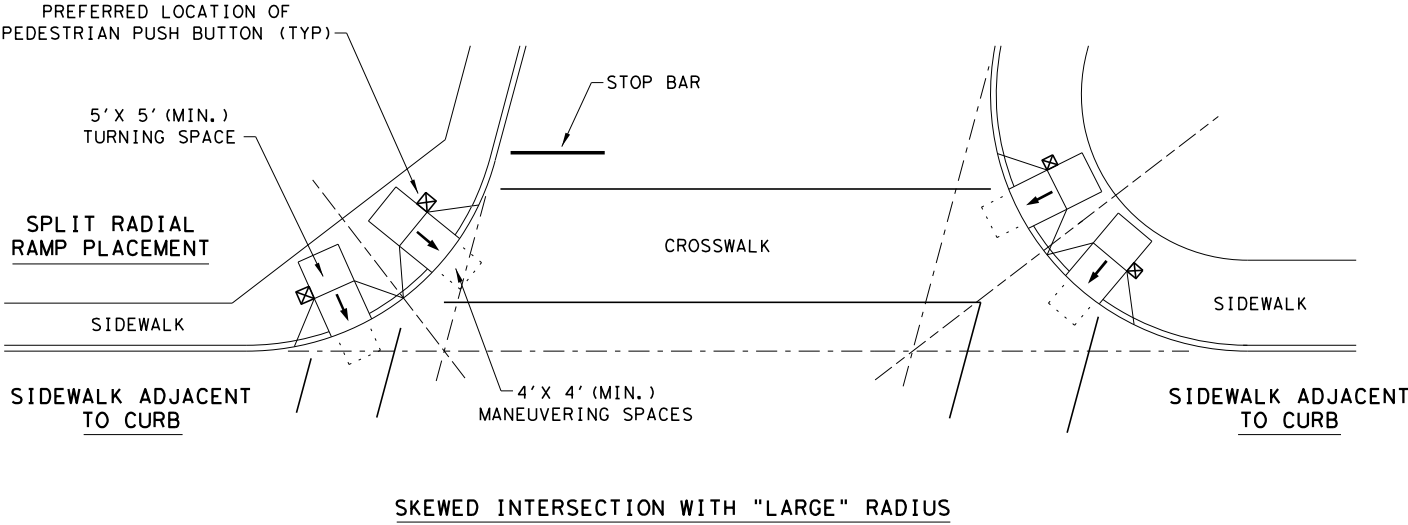
PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & J
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISED 08, 2005	\$C\$	\$S\$	\$J\$	\$HWY\$
REVISED 06, 2012	DIST		COUNTY	
REVISED 01, 2018	\$DST\$		\$CTY\$	
				SHEET NO.
				60

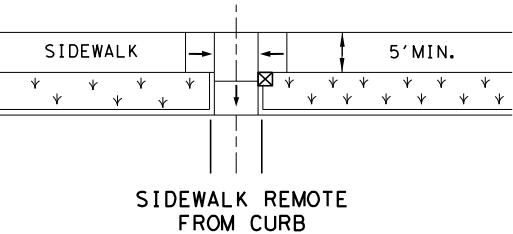
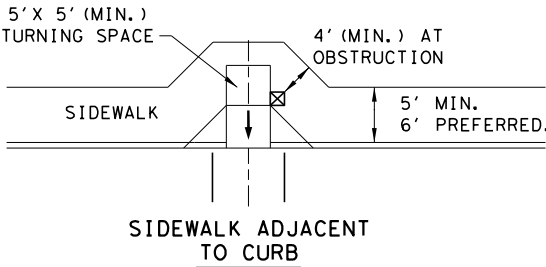
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DATE: 10/17/2023
FILE: c:\projectwise\dec\workdir\dannenbaum_yeshwanth.solidworks\ped18.dgn

TYPICAL CROSSING LAYOUTS
SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



AT INTERSECTION
W/FREE RIGHT TURN & ISLAND



MID-BLOCK PLACEMENT
PERPENDICULAR RAMPS

LEGEND:

SHOWS DOWNWARD SLOPE.



DENOTES PREFERRED LOCATION OF PEDESTRIAN
PUSH BUTTON (IF APPLICABLE).



DENOTES PLANTING OR NON-WALKING SURFACE
NOT PART OF PEDESTRIAN CIRCULATION PATH.



SHEET 4 OF 4



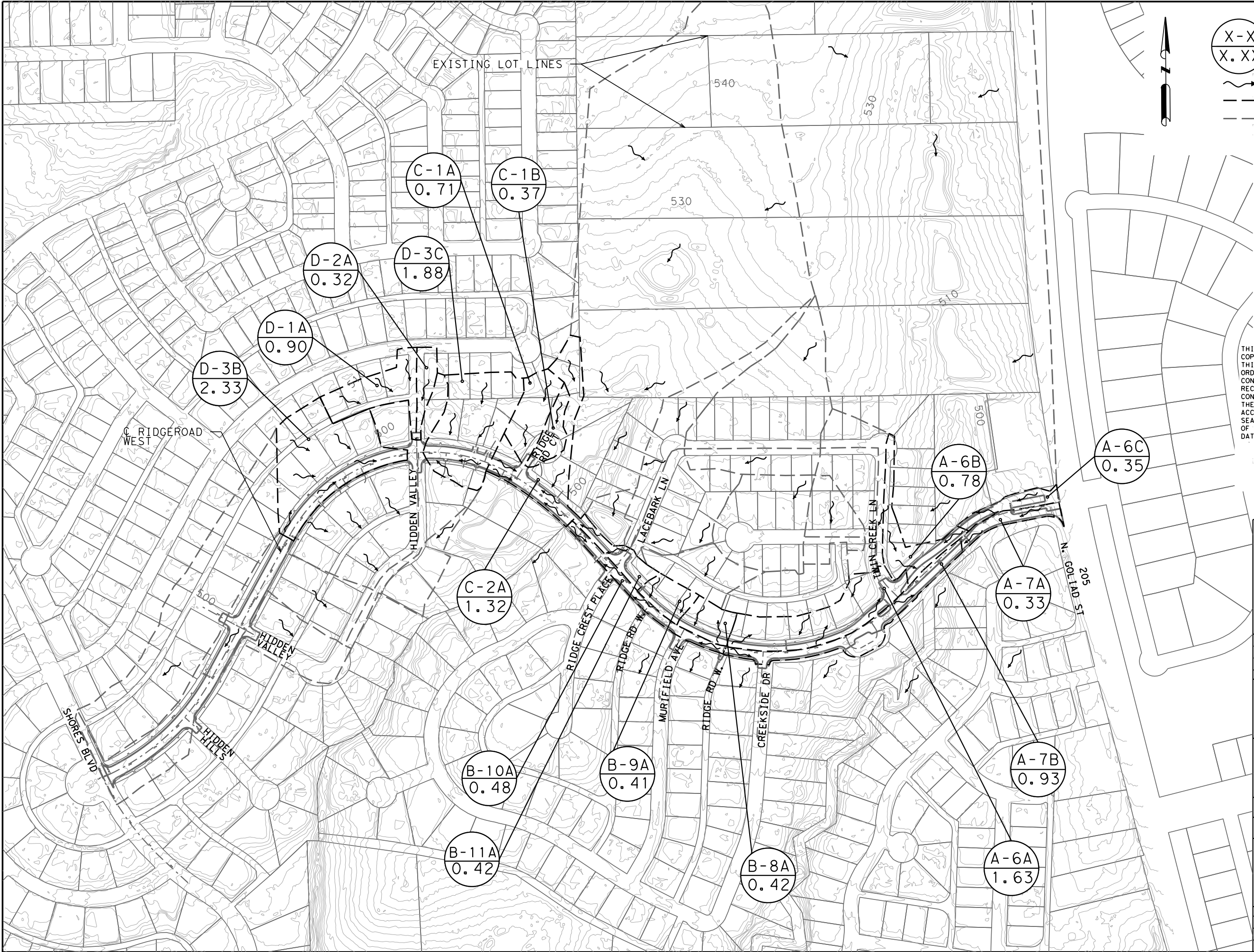
Design
Division
Standard

PEDESTRIAN FACILITIES
CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISED 08, 2005	\$C\$	\$S\$	\$J\$	\$HWY\$
REVISED 06, 2012	DIST	COUNTY	SHEET NO.	
REVISED 01, 2018	\$DST\$	\$CTY\$		61

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LEGEND

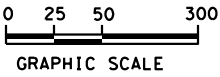
$\frac{X-X}{X.XX}$ DRAINAGE AREA ID NO
ACRES

DIRECTION OF FLOW

PROP DRAINAGE AREA BOUNDARY

EXIST DRAINAGE AREA BOUNDARY

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DATE: 3/30/2021



John K. Huggins, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
DRAINAGE AREA MAP
PROPOSED

SHEET 1 OF 1

DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ:
CK: DME DATE: 10/17/2023	VERT: 62

NOTE:
EXISTING DRAINAGE AREAS-B1,B2,B3,B4,B5,B6 ARE CONNECTED THROUGH STORM DRAIN INTO B-7-DET(DETENTION);
THE OVERFLOW FROM THE DETENTION CALCULATIONS OF 5.6 CFS; WAS ADDED TO THE UPSTREAM B-12.
OVERALL DRAINAGE BASIN IS SUBDIVIDED INTO SUB-BASINS B1-B6 TO CALCULATE CAPTURED OVERLAND FLOW
DRAINAGE AND STREET BYPASS INTO THE STORM DRAIN SYSTEM AT RIDGEROAD.
STREET DRAINAGE FROM LACEBARK LANE BYPASSES THE DETENTION POND COMPLETELY AND CONTRIBUTE TO THE
RIDGE ROAD SYSTEM. THE OUTFLOW RATE FROM THE DETENTION POND CONTRIBUTES TO THE STORM DRAINAGE NETWORK.

LEGEND

X-X

X.XX

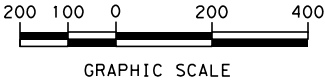
DRAINAGE AREA ID NO

ACRES

DIRECTION OF FLOW

EXIST DRAINAGE AREA BOUNDARY

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3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
DRAINAGE AREA MAP
EXISTING

SHEET 1 OF 1

DSN: EBD PROJECT: RIDGE ROAD WEST		
CK: TL JOB NUMBER NO: XXXX	SCALE	
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO: 63
CK: DWE DATE: 10/17/2023	VERT:	

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EXISTING AREA CALCULATIONS

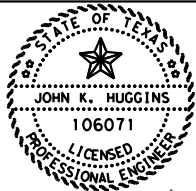
Areas Drained					Weighted Runoff Coeff-C (Ac)	C*A	Time of Concentrati on Tc (min)	Design Storm Frequency (yrs)	Intensity, I (in/hr)	Storm Runoff, Q (cfs)	Drains To/ Remarks
Area ID	Total Drainage Area (Ac)	Open Area (Ac) (C=0.35)	Residential Area (Ac) (C=0.5)	Comm Area/pave (Ac) (C=0.9)							
A-1	0.63	0.00	0.63	0.00	0.50	0.32	10.00	100	9.80	3.09	TWINCREEKLANE
A-2	0.26	0.00	0.26	0.00	0.50	0.13	10.00	100	9.80	1.27	TWINCREEKLANE
A-3	0.66	0.00	0.66	0.00	0.50	0.33	10.00	100	9.80	3.23	TWINCREEKLANE
A-4	1.04	0.00	1.04	0.00	0.50	0.52	10.00	100	9.80	5.10	TWINCREEKLANE
A-5	1.31	0.00	1.31	0.00	0.50	0.66	10.00	100	9.80	6.42	RIDGEROADWEST
A-6	2.76	0.00	1.12	1.64	0.74	2.04	10.00	100	9.80	19.95	RIDGEROADWEST
A-7	1.26	0.00	0.00	1.26	0.90	1.13	10.00	100	9.80	11.11	RIDGEROADWEST
A-8	38.81	32.60	4.20	2.01	0.39	15.32	11.80	100	9.53	145.99	RIDGEROADWEST
B-1	3.02	1.47	1.55	0.00	0.43	1.29	10.00	100	9.80	12.64	RIDGECRESTPL
B-10	0.48	0.00	0.00	0.48	0.90	0.43	10.00	100	9.80	4.23	RIDGEROADWEST
B-11	0.42	0.00	0.27	0.15	0.64	0.27	10.00	100	9.80	2.65	RIDGEROADWEST
B-12	20.26	17.46	2.80	0.00	0.37	7.51	13.05	100	9.34	70.15	RIDGEROADWEST
B-2	0.81	0.00	0.81	0.00	0.50	0.41	10.00	100	9.80	3.97	RIDGECRESTPL
B-3	1.96	0.00	1.96	0.00	0.50	0.98	10.00	100	9.80	9.60	RIDGEROADWEST
B-4	0.92	0.00	0.92	0.00	0.50	0.46	10.00	100	9.80	4.51	RIDGEROADWEST
B-5	1.66	0.00	1.66	0.00	0.50	0.83	10.00	100	9.80	8.13	RIDGECRESTPL
B-6	1.44	0.52	0.92	0.00	0.45	0.64	10.00	100	9.80	6.29	RIDGECRESTPL
B-7-DET	0.44	0.00	0.44	0.00	0.50	0.22	10.00	100	9.80	2.16	RIDGEROADWEST
B-8	0.42	0.00	0.34	0.08	0.58	0.24	10.00	100	9.80	2.37	RIDGEROADWEST
B-9	0.41	0.00	0.32	0.09	0.59	0.24	10.00	100	9.80	2.36	RIDGEROADWEST
C-1	2.17	0.00	1.76	0.41	0.58	1.25	10.00	100	9.80	12.25	RIDGEROADWEST
C-2	0.18	0.00	0.00	0.18	0.90	0.16	10.00	100	9.80	1.59	RIDGEROADWEST
D-1	0.88	0.00	0.58	0.30	0.64	0.56	10.00	100	9.80	5.51	HIDDENVALLEY2
D-2	0.32	0.00	0.11	0.20	0.76	0.24	10.00	100	9.80	2.36	HIDDENVALLEY2
D-3	4.26	0.00	3.75	0.51	0.55	2.34	10.00	100	9.80	22.90	RIDGEROADWEST
D-4	2.96	0.00	2.63	0.33	0.54	1.61	10.00	100	9.80	15.80	HIDDENVALLEY2
D-5	1.30	0.00	1.00	0.30	0.59	0.77	10.00	100	9.80	7.55	HIDDENVALLEY2
EX-1	4.63	0.00	4.63	0.00	0.50	2.32	10.00	100	9.80	22.69	RIDGEROADWEST
EX-2	2.29	0.00	1.27	1.02	0.68	1.55	10.00	100	9.80	15.22	RIDGEROADWEST
EX-3	1.26	0.00	1.26	0.00	0.50	0.63	10.00	100	9.80	6.17	RIDGEROADWEST
EX-4	1.25	0.00	1.25	0.00	0.50	0.63	10.00	100	9.80	6.13	RIDGEROADWEST

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DATE: 3/30/2021

PROPOSED AREA CALCULATIONS

Areas Drained					Weighted Runoff Coeff-C (Ac)	C*A	Time of Concentratio n Tc (min)	Design Storm Frequency (yrs)	Intensity, I (in/hr)	Storm Runoff, Q (cfs)	Drains To/ Remarks
Area ID	Total Drainage Area (Ac)	Open Area (Ac) (C=0.35)	Residential Area (Ac) (C=0.5)	Comm Area/pave (Ac) (C=0.9)							
* A-6A	1.63	0.00	1.10	0.53	0.63	1.03	10.00	100	9.80	10.06	RIDGEROADWEST
* A-6B	0.78	0.00	0.56	0.22	0.61	0.48	10.00	100	9.80	4.68	RIDGEROADWEST
* A-6C	0.35	0.00	0.00	0.35	0.90	0.32	10.00	100	9.80	3.09	RIDGEROADWEST
* A-7A	0.33	0.00	0.00	0.33	0.90	0.30	10.00	100	9.80	2.91	RIDGEROADWEST
* A-7B	0.93	0.00	0.00	0.93	0.90	0.84	10.00	100	9.80	8.20	RIDGEROADWEST
B-10A	0.48	0.00	0.00	0.48	0.90	0.43	10.00	100	9.80	4.23	RIDGEROADWEST
B-11A	0.42	0.00	0.20	0.22	0.71	0.30	10.00	100	9.80	2.92	RIDGEROADWEST
B-8A	0.42	0.00	0.32	0.10	0.60	0.25	10.00	100	9.80	2.45	RIDGEROADWEST
B-9A	0.41	0.00	0.31	0.10	0.60	0.25	10.00	100	9.80	2.40	RIDGEROADWEST
* C-1A	0.71	0.00	0.66	0.04	0.53	0.37	10.00	100	9.80	3.64	RIDGEROADWEST
* C-1B	0.37	0.00	0.19	0.18	0.69	0.26	10.00	100	9.80	2.55	RIDGEROADWEST
C-2A	1.32	0.00	0.97	0.34	0.60	0.80	10.00	100	9.80	7.81	RIDGEROADWEST
D-1A	0.90	0.00	0.59	0.31	0.64	0.58	10.00	100	9.80	5.64	HIDDENVALLEY2
* D-2A	0.32	0.00	0.14	0.18	0.73	0.23	10.00	100	9.80	2.25	HIDDENVALLEY2
* D-3B	2.33	0.00	1.76	0.57	0.60	1.39	10.00	100	9.80	13.66	RIDGEROADWEST
D-3C	1.88	0.00	1.68	0.21	0.54	1.02	10.00	100	9.80	10.03	RIDGEROADWEST

NOTES:
* INDICATES THAT SUB-DIVIDED BASINS INCORPORATES PROPOSED INLETS



John K. Haggan, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
 3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2000

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST DRAINAGE AREA CALCULATIONS

SHEET 1 OF 1

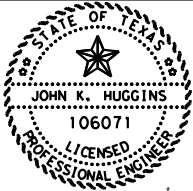
DSN: EBD	PROJECT: RIDGE ROAD WEST		
CK: TL	JOB NUMBER NO: XXXX	SCALE	
DRN: JJR	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: DWE	DATE: 10/17/2023	VERT:	64

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Inlet ID	Location			Area Runoff							Upstream Bypass (cfs)	Total Gutter Flow, Qa(cfs)	Gutter Flow														Depres
	Alignment	Station	Offset	Design Freq. (yr)	C	Area ID	Time of Conc, Tc (min)	Intensity, I(in/hr)	Area, A (acres)	Runoff Q(cfs)			Thorough-fare Type	On Grade/Sag	Manning's, "n"	Street Slope (ft/ft)			Depression(ft)		Ponding width/spread(ft)		Depth of Gutter Flow(ft)		Max. Allowable flow based on max allowable ponding width-Q-allow gutter(cfs)		
																Longit.	Crown type	Cross Slope	Depth, a	Width, W	(allow) Tallow	(actual) Tactual	(allow) y-allow	(actual) y-actual			
A-6A	RIDGEROADWEST	44+95.25	-46.30	100	0.63	A-6A	10.00	9.80	1.63	10.06	0.00	10.06	Minor Collector	On Grade	0.0175	0.0070	NC	0.020	0.50	2.00	20.00	18.89	0.50	0.38	11.65	1.22	
A-6B	RIDGEROADWEST	46+59.98	-36.70	100	0.61	A-6B	10.00	9.80	0.78	4.68	0.00	4.68	Minor Collector	Sag	0.0175	0.0070	NC	0.020	0.50	2.00	20.00	14.19	0.50	0.28	11.63	1.03	
A-6C	RIDGEROADWEST	47+39.67	-32.54	100	0.90	A-6C	10.00	9.80	0.35	3.09	0.00	3.09	Minor Collector	On Grade	0.0175	0.0261	NC	0.020	0.50	2.00	20.00	9.49	0.50	0.19	22.43	0.84	
A-7A	RIDGEROADWEST	46+87.81	31.04	100	0.90	A-7A	10.00	9.80	0.33	2.91	0.00	2.91	Minor Collector	On Grade	0.0175	0.0135	NC	0.020	0.50	2.00	20.00	10.50	0.50	0.21	16.14	0.88	
A-7B	RIDGEROADWEST	46+55.87	31.10	100	0.90	A-7B	10.00	9.80	0.93	8.20	0.00	8.20	Minor Collector	Sag	0.0175	0.0070	NC	0.020	0.50	2.00	20.00	17.51	0.50	0.35	11.63	1.16	
B-10A	RIDGEROADWEST	31+01.81	21.70	100	0.90	B-10A	10.00	9.80	0.48	4.23	0.00	4.23	Minor Collector	On Grade	0.0175	0.0113	NC	0.025	0.50	2.00	20.00	10.87	0.50	0.27	21.40	0.99	
B-11A	RIDGEROADWEST	31+39.85	-21.80	100	0.71	B-11A	10.00	9.80	0.42	2.92	0.00	2.92	Minor Collector	On Grade	0.0175	0.0117	NC	0.025	0.50	2.00	20.00	9.39	0.50	0.23	21.80	0.92	
B-8A	RIDGEROADWEST	36+19.26	-21.68	100	0.60	B-8A	10.00	9.80	0.42	2.45	0.00	2.45	Minor Collector	On Grade	0.0175	0.0070	NC	0.025	0.50	2.00	20.00	9.68	0.50	0.24	16.87	0.93	
B-9A	RIDGEROADWEST	34+48.94	-21.70	100	0.60	B-9A	10.00	9.80	0.41	2.40	0.00	2.40	Minor Collector	On Grade	0.0175	0.0117	NC	0.025	0.50	2.00	20.00	8.73	0.50	0.22	21.80	0.89	
C-1A	RIDGEROADCOURT	28+88.43	-62.49	100	0.53	C-1A	10.00	9.80	0.71	3.64	0.00	3.64	Minor Collector	On Grade	0.0175	0.0541	NC	0.020	0.50	2.00	20.00	8.80	0.50	0.18	32.33	0.81	
C-1B	RIDGEROADCOURT	29+16.22	-62.72	100	0.69	C-1B	10.00	9.80	0.37	2.55	0.00	2.55	Minor Collector	On Grade	0.0175	0.0531	NC	0.020	0.50	2.00	20.00	7.72	0.50	0.15	32.03	0.77	
C-2A	RIDGEROADWEST	29+03.48	22.57	100	0.60	C-2A	10.00	9.80	1.32	7.81	0.77	8.59	Minor Collector	Sag	0.0175	0.0090	NC	0.025	0.50	2.00	20.00	14.78	0.50	0.37	19.12	1.19	
D-1A	HIDDENVALLEY2	25+43.66	-53.99	100	0.64	D-1A	10.00	9.80	0.90	5.64	0.00	5.64	Minor Collector	On Grade	0.0175	0.0571	NC	0.020	0.50	2.00	20.00	10.27	0.50	0.21	33.21	0.87	
D-2A	HIDDENVALLEY2	25+72.41	-51.95	100	0.73	D-2A	10.00	9.80	0.32	2.25	0.00	2.25	Minor Collector	On Grade	0.0175	0.0557	NC	0.020	0.50	2.00	20.00	7.31	0.50	0.15	32.80	0.75	
D-3B	RIDGEROADWEST	24+87.20	22.69	100	0.60	D-3B	10.00	9.80	2.33	13.66	3.91	17.57	Minor Collector	Sag	0.0175	0.0252	NC	0.025	0.50	2.00	20.00	15.94	0.50	0.40	32.00	1.25	
D-3C	RIDGEROADWEST	26+10.81	22.65	100	0.54	D-3C	10.00	9.80	1.88	10.03	0.52	10.55	Minor Collector	On Grade	0.0175	0.0326	NC	0.025	0.50	2.00	20.00	12.54	0.50	0.31	36.40	1.08	

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT:MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021

Inlet ID	Inlet Capacity										Inlet By-pass				Remarks
	sided Gutter Section		Section Beyond Depressed		Conveyance		Ratio of Depression flow to Total flow, Eo	Equivalent Cross-Slope, Se, ft/ft	Inlet Length(ft)		Inlet Capacity (cfs)	Flow Bypassed (cfs)	Bypass C * A	To Inlet ID	
	Flow, Qw	Wetted Perimeter, Pw	Area, Ao	Wetted Perimeter, Po	Depression Section Kw	Section Beyond Depression, Ko			Required, L-req'd	Actual, L-actual					
A-6A		2.072	2.85	16.89	72.34	73.99	0.49	0.14	13.0	20.0	15.59	0.00	0.00	-	
A-6B		2.072	1.49	12.19	54.68	31.02	0.64	0.18	9.9	10.0	11.06	0.00	0.00	-	
A-6C		2.072	0.56	7.49	39.03	8.45	0.82	0.23	8.9	10.0	4.59	0.00	0.00	-	
A-7A		2.072	0.72	8.50	42.22	11.85	0.78	0.22	7.4	10.0	4.59	0.00	0.00	-	
A-7B		2.072	2.40	15.51	66.94	58.94	0.53	0.15	6.5	10.0	11.06	0.00	0.00	-	
B-10A		2.074	0.98	8.87	51.64	19.26	0.73	0.21	8.3	10.0	4.20	0.03	0.00	C-2A	
B-11A		2.074	0.68	7.39	45.40	11.85	0.79	0.22	6.9	10.0	4.20	0.00	0.00	-	
B-8A		2.074	0.74	7.68	46.59	13.12	0.78	0.22	5.5	10.0	4.20	0.00	0.00	-	
B-9A		2.074	0.57	6.73	42.69	9.21	0.82	0.23	6.2	10.0	4.20	0.00	0.00	-	
C-1A		2.072	0.46	6.80	36.92	6.53	0.85	0.23	11.7	10.0	2.90	0.74	0.08	C-2A	
C-1B		2.072	0.33	5.72	33.71	4.13	0.89	0.24	9.8	10.0	2.90	0.00	0.00	-	
C-2A		2.074	2.04	12.78	69.66	51.02	0.58	0.17	13.0	15.0	15.13	0.00	0.00	-	
D-1A		2.072	0.68	8.27	41.48	11.01	0.79	0.22	14.9	10.0	1.73	3.91	0.40	D-3B	
D-2A		2.072	0.28	5.31	32.51	3.38	0.91	0.25	9.3	10.0	1.73	0.52	0.05	D-3C	
D-3B		2.074	2.43	13.94	75.41	64.31	0.54	0.16	26.8	30.0	27.32	0.00	0.00	-	
D-3C		2.074	1.39	10.54	59.09	30.54	0.66	0.19	17.7	20.0	14.03	0.00	0.00	-	



John K. Huggins, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
PROPOSED INLET
COMPUTATION DATA

SHEET 1 OF 1

DSN: EBD PROJECT: RIDGE ROAD WEST		
CK: TL JOB NUMBER NO: XXXX	SCALE	
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: DME DATE: 10/17/2023	VERT:	66

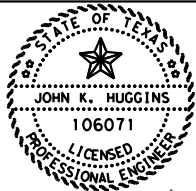
SYSTEM ID	Conduit Properties														Incremental Drainage Area				Accumulated CA Collected	Upstream Tc (min)	Design Storm Freq (yr)	Intensity (In/Hr)	Runoff-Q (cfs)	Conduit Capacity (cfs)
	Collection Point U/S	Collection Point D/S	Pipe Length (ft)	# of Barrels	Pipe Size (inches)	Box (Span x Rise)	Type	Pipe Area(sf)	Wetted Perimeter- Pw(ft)	Hydraulic Radius	Manning's - n	Flowline Ele-Up- stream	Flowline Ele-Down -stream	Slope ft/ft	Inlet/Node ID	Area (Ac)	Runoff Coeff. C	Incremental CA Collected						
A8-JA6	47+16.98	47+15.86	2.10	1	-	7X4	BOX	28.00	22.00	1.27	0.013	489.70	489.68	0.010	A-8	38.81	0.39	15.32	15.32	11.8	100	9.53	145.99	367.82
JA6-JA7	47+15.86	47+12.78	5.90	1	-	7X4	BOX	28.00	22.00	1.27	0.013	489.68	489.64	0.007	J-A-6	2.76	0.74	2.04	17.36	11.8	100	9.53	165.39	310.33
A6-JA7	46+59.98	47+12.78	47.90	1	18	-	RCP	1.77	4.71	0.38	0.013	492.92	489.64	0.068	A-6	2.76	0.74	2.04	2.04	10.0	100	9.80	19.95	27.56
A7-JA8	46+55.87	46+73.33	12.50	1	18	-	RCP	1.77	4.71	0.38	0.013	492.11	489.06	0.244	A-7	1.26	0.90	1.13	1.13	10.0	100	9.80	11.11	52.03
JA7-JA8	47+12.78	46+73.33	75.00	1	-	7X4	BOX	28.00	22.00	1.27	0.013	489.64	489.06	0.008	J-A-7	1.26	0.90	1.13	18.49	12.0	100	9.48	175.28	331.44
JA8-AOUT	46+73.33	46+68.06	10.00	1	-	7X4	BOX	28.00	22.00	1.27	0.013	489.06	488.99	0.007	J-A-8	4.02	0.79	3.17	21.66	12.0	100	9.48	205.33	315.34
B8-JB5	36+18.46	36+13.55	14.10	1	18	-	RCP	1.77	4.71	0.38	0.013	500.93	500.65	0.020	B-8	0.42	0.58	0.24	0.24	10.0	100	9.80	2.37	14.84
JB5-JB6	36+13.55	34+43.27	168.40	1	18	-	RCP	1.77	4.71	0.38	0.013	500.65	499.50	0.007	J-B-5	0.42	0.58	0.24	0.24	12.1	100	9.46	2.37	8.70
B9-JB6	34+48.10	34+43.27	14.00	1	18	-	RCP	1.77	4.71	0.38	0.013	499.87	499.50	0.026	B-9	0.41	0.59	0.24	0.24	10.0	100	9.80	2.36	17.12
JB6-JB8	34+43.27	31+24.11	319.40	1	18	-	RCP	1.77	4.71	0.38	0.013	499.50	494.72	0.015	J-B-6	0.83	0.59	0.49	0.49	14.2	100	9.14	4.48	12.88
JB7-JB8	31+22.29	31+24.11	14.50	1	48	-	RCP	12.57	12.57	1.00	0.013	493.70	493.37	0.023	J-B-7	21.83	0.38	8.36	8.36	13.1	100	9.34	78.05	217.28
B12-JB7	31+20.30	31+22.29	13.30	1	48	-	RCP	12.57	12.57	1.00	0.013	494.03	493.70	0.025	B-12	20.26	0.37	7.51	7.51	13.1	100	9.34	70.15	226.87
B7OVERFLOW-B12	31+25.99	31+20.30	20.00	1	18	-	RCP	1.77	4.71	0.38	0.013	494.72	494.00	0.036	B-7-OVERFLOW	1.15	0.50	0.58	0.58	0.0	100	9.80	5.64	19.98
	B11-JB7	31+02.56	31+22.29	15.10	1	18	-	RCP	1.77	4.71	0.38	0.013	495.08	493.70		0.091	B-11	0.42	0.64	0.27	0.27	10.0	100	9.80
JB8-JB9	31+24.11	31+27.28	25.00	1	48	-	RCP	12.57	12.57	1.00	0.013	493.37	492.80	0.023	J-B-8	22.66	0.39	8.85	8.85	13.2	100	9.34	82.62	217.48
B10-JB9	31+03.03	31+27.28	21.40	1	18	-	RCP	1.77	4.71	0.38	0.013	494.83	492.80	0.095	B-10	0.48	0.48	0.23	0.23	10.0	100	9.80	2.26	32.44
JB9-JBOUT	31+27.28	31+29.95	14.60	1	48	-	RCP	12.57	12.57	1.00	0.013	492.80	492.50	0.021	J-B-9	23.14	0.39	9.08	9.08	13.2	100	9.34	84.77	206.46
CI-C2	29+44.17	29+10.89	50.10	1	18	-	RCP	1.77	4.71	0.38	0.013	493.77	492.13	0.033	C-1	2.17	0.58	1.25	1.25	10.0	100	9.80	12.25	19.06
C2-COUT	29+10.89	29+09.20	15.70	1	24	-	RCP	3.14	6.28	0.50	0.013	492.13	491.00	0.072	C-2	0.18	0.90	0.16	1.41	10.0	100	9.80	13.84	60.85
D2-JD3	11+99.73	11+97.80	5.40	1	18	-	RCP	1.77	4.71	0.38	0.013	490.52	489.86	0.122	D-2	0.32	0.76	0.24	0.24	10.0	100	9.80	2.36	36.82
D1-JD4	11+99.29	11+93.84	25.10	1	18	-	RCP	1.77	4.71	0.38	0.013	491.05	489.75	0.052	D-1	0.88	0.64	0.56	0.56	10.0	100	9.80	5.51	23.97
JD3-JD4	11+97.80	11+93.84	4.00	1	24	-	RCP	3.14	6.28	0.50	0.013	489.86	489.75	0.028	J-D-3	0.32	0.76	0.24	0.24	10.1	100	9.80	2.36	37.62
JD4-JD5	11+93.84	25+63.56	47.10	1	24	-	RCP	3.14	6.28	0.50	0.013	489.75	488.51	0.026	J-D-4	1.20	0.67	0.80	0.80	10.4	100	9.74	7.82	36.80
D3B-JD5	25+07.45	25+63.56	55.20	1	21	-	RCP	2.41	5.50	0.44	0.013	489.32	488.51	0.015	D-3	4.26	0.55	2.34	2.34	10.0	100	9.80	22.90	19.25
JD5-JD6	25+63.56	10+00.00	484.50	1	24	-	RCP	3.14	6.28	0.50	0.013	488.51	476.00	0.026	J-D-5	5.46	0.57	3.14	3.14	11.2	100	9.61	30.17	36.45

SYSTEM ID	Partial Flow Y / N	Uniform Velocity, V(ft/s)	Time in Conduit (min)	Friction Slope (ft/ft)	Friction Head Loss (ft)	HGL		Headloss Calculations					Design HGL	Top of Curb Ele.	HGL Depth Below T/C	Remarks
						U/S.	D/S.	V1^2/2g (ft)	V2^2/2g (ft)	Junction Type	Coeff, KJ	Head Loss, HL (ft)				
A8-JA6	YES	5.2	0.007	0.00150	0.00	494.73	494.73	0.42	0.54	HEADWALL	0.50	0.33	495.06	497.50	2.44	
JA6-JA7	YES	5.9	0.017	0.00193	0.01	494.26	494.25	0.54	0.61	EX WYE	0.25	0.47	494.73	497.43	2.70	
A6-JA7	YES	11.3	0.071	0.03589	1.72	495.97	494.25	1.98	0.61	INLET	1.25	2.47	498.44	497.09	-1.35	
A7-JA8	YES	6.3	0.033	0.01113	0.14	493.61	493.47	0.61	0.84	INLET	1.25	0.77	494.38	496.52	2.14	
JA7-JA8	YES	6.3	0.200	0.00216	0.16	493.63	493.47	0.61	0.84	PIPE JCT	0.35	0.62	494.25	497.01	2.76	
JA8-AOUT	YES	7.3	0.023	0.00297	0.03	493.02	492.99	0.84	0.74	PIPE JCT	0.35	0.45	493.47	496.43	2.96	
B8-JB5	YES	1.3	0.175	0.00051	0.01	501.16	500.89	0.03	0.03	INLET	1.25	0.03	501.19	504.70	3.51	
JB5-JB6	YES	1.3	2.091	0.00051	0.09	500.80	500.71	0.03	0.10	EX WYE	0.43	0.09	500.89	504.42	3.53	
B9-JB6	YES	1.3	0.175	0.00050	0.01	500.72	500.71	0.03	0.10	INLET	1.25	0.03	500.75	503.98	3.23	
JB6-JB8	YES	2.5	2.102	0.00181	0.58	500.07	497.68	0.10	0.67	EX WYE	0.35	0.64	500.71	503.73	3.02	
JB7-JB8	YES	6.2	0.039	0.00294	0.04	497.72	497.68	0.60	0.67	EX WYE	0.25	0.52	498.24	499.90	1.66	
B12-JB7	YES	5.6	0.040	0.00237	0.03	498.27	498.24	0.48	0.60	HEADWALL	0.50	0.36	498.63	501.00	2.37	
B7OVERFLOW-B12	YES	3.2	0.105	0.00286	0.06	498.69	498.63	0.16	0.48	HEADWALL	0.50	0.40	499.09	501.00	1.91	
B11-JB7	YES	1.5	0.168	0.00063	0.01	498.25	498.24	0.03	0.60	INLET	1.25	0.04	498.29	500.05	1.76	
JB8-JB9	YES	6.6	0.063	0.00329	0.08	497.21	497.13	0.67	0.71	JCT BOX	0.35	0.47	497.68	499.74	2.06	
B10-JB9	YES	1.3	0.279	0.00046	0.01	497.14	497.13	0.03	0.71	INLET	1.25	0.03	497.17	499.49	2.32	
JB9-JBOUT	YES	6.7	0.036	0.00346	0.05	496.55	496.50	0.71	0.76	EX WYE	0.25	0.58	497.13	499.33	2.20	
CI-C2	YES	6.9	0.120	0.01353	0.68	497.24	496.56	0.75	0.30	INLET	1.25	0.93	498.17	498.35	0.18	
C2-COUT	YES	4.4	0.059	0.00372	0.06	496.18	496.12	0.30	0.39	INLET	1.25	0.38	496.56	497.74	1.18	
D2-JD3	YES	1.3	0.067	0.00050	0.00	490.58	490.58	0.03	0.01	INLET	1.25	0.03	490.61	496.07	5.46	
D1-JD4	YES	3.1	0.134	0.00274	0.07	490.56	490.49	0.15	0.10	INLET	1.25	0.19	490.75	495.58	4.83	
JD3-JD4	YES	0.8	0.089	0.00011	0.00	490.49	490.49	0.01	0.10	EX WYE	0.35	0.09	490.58	495.79	5.21	
JD4-JD5	YES	2.5	0.316	0.00119	0.06	489.09	489.03	0.10	1.43	EX WYE	0.35	1.40	490.49	495.53	5.04	
D3B-JD5	NO	9.5	0.097	0.02078	1.15	490.18	489.03	1.41	1.43	INLET	1.25	1.76	491.94	494.07	2.13	
JD5-JD6	YES	9.6	0.841	0.01768	8.57	488.93	480.36	1.43	0.60	EX WYE	0.35	0.10	489.03	494.26	5.23	

NOTE:

1. COLLECTION POINT (U/S&D/S) STATIONS REFERENCE STREET ALIGNMENT OF THE INLET AND NODE STATIONS; DOES NOT REFLECT THE ACTUAL LENGTH OF UP STREAM AND DOWN STREAM END OF PIPES.
2. HYDRAULIC GRADE LINE ELEVATIONS ARE FORCED TO THE TOP OF PIPE AT LOCATIONS WHERE COMPUTED HGL FROM HEADLOSS DROPS BELOW THE FLOWLINE OF THE PIPE.

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021



Joh K Haggin, P.E.

3/30/2021			
REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2001

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
EXISTING LINK
COMPUTATION DATA

SHEET 1 OF 1

DSN: EBD	PROJECT: RIDGE ROAD WEST		
CK: TL	JOB NUMBER NO: XXXX	SCALE	
DRN: JJR	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: DWE	DATE: 10/17/2023	VERT:	67

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SYSTEM ID	Conduit Properties														Incremental Drainage Area				Accumulated CA Collected	Upstream Tc (min)	Design Storm Freq (yr)	Intensity (In/Hr)	Runoff-Q (cfs)	Conduit Capacity (cfs)	Partial Flow Y /
	Collection Point U/S	Collection Point D/S	Pipe Length (ft)	# of Barrels	Pipe Size (inches)	Box (Span x Rise)	Type	Pipe Area(sf)	Wetted Perimeter - Pw(ft)	Hydraulic Radius	Manning's - n	Flowline Ele-Up- stream	Flowline Ele-Down -stream	Slope ft/ft	Inlet/Node ID	Area (Ac)	Runoff Coeff. C	Incremental CA Collected							
A8-JA6	47+16.98	47+15.06	2.10	1	-	7X4	RBC	28.00	22.00	1.27	0.013	489.70	489.68	0.010	A-8	38.81	0.39	15.32	15.32	11.8	100	9.51	145.72	273.23	YES
JA6-JA7	47+15.06	47+12.78	5.90	1	-	7X4	RBC	28.00	22.00	1.27	0.013	489.68	489.64	0.007	J-A-6	0.90	0.39	0.66	15.32	11.8	100	9.51	145.72	230.36	YES
A6C-JA7	47+39.67	47+12.78	24.10	1	18	-	RCP	1.77	4.71	0.38	0.013	491.00	489.64	0.056	A-6C	0.35	0.90	0.32	0.32	10.0	100	9.80	3.09	18.59	YES
A6A-A6B	44+95.25	46+59.98	150.00	1	24	-	RCP	3.14	6.28	0.50	0.013	492.78	492.65	0.001	A-6A	1.63	0.63	1.03	1.03	10.0	100	9.80	10.06	4.96	NO
A6B-JA7	46+59.98	47+12.78	47.90	1	24	-	RCP	3.14	6.28	0.50	0.013	492.65	489.83	0.059	A-6B	0.78	0.61	0.48	1.51	10.0	100	9.80	14.75	40.89	YES
JA7-JA8	47+12.78	46+73.33	75.00	1	-	7X4	RBC	28.00	22.00	1.27	0.013	489.64	489.06	0.008	J-A-7	0.00	0.66	0.00	17.14	12.6	100	9.38	160.83	246.21	YES
A7A-JA8	46+87.81	46+73.33	9.50	1	18	-	RCP	1.77	4.71	0.38	0.013	490.51	489.06	0.153	A-7A	0.33	0.90	0.30	0.30	10.0	100	9.80	2.91	30.57	YES
A7B-JA8	46+55.87	46+73.33	12.50	1	18	-	RCP	1.77	4.71	0.38	0.013	490.81	489.06	0.140	A-7B	0.93	0.90	0.84	0.84	10.0	100	9.80	8.20	29.28	YES
JA8-AOUT	46+73.33	46+68.06	10.00	1	-	7X4	RBC	28.00	22.00	1.27	0.013	489.06	488.99	0.007	J-A-8	0.00	0.64	0.00	18.27	12.7	100	9.37	171.18	234.25	YES
B8A-B8JT	36+19.26	36+18.31	2.10	1	18	-	RCP	1.77	4.71	0.38	0.013	500.95	500.93	0.010	B-8A	0.42	0.60	0.25	0.25	10.0	100	9.80	2.45	7.64	YES
B8JT-JB5	36+18.31	36+13.55	13.80	1	18	-	RCP	1.77	4.71	0.38	0.013	500.93	500.65	0.020	B-8 JT	0.00	0.60	0.00	0.25	10.2	100	9.77	2.44	11.15	YES
JB5-JB6	36+13.55	34+43.27	168.40	1	18	-	RCP	1.77	4.71	0.38	0.013	500.65	499.50	0.007	J-B-5	0.00	0.60	0.00	0.25	12.3	100	9.43	2.36	6.47	YES
B9A-B9JT	34+48.94	34+47.97	2.60	1	18	-	RCP	1.77	4.71	0.38	0.013	499.90	499.87	0.012	B-9A	0.41	0.60	0.25	0.25	10.0	100	9.80	2.40	8.40	YES
B9JT-JB6	34+47.97	34+43.27	13.70	1	18	-	RCP	1.77	4.71	0.38	0.013	499.87	499.50	0.027	B-9 JT	0.00	0.60	0.00	0.25	10.2	100	9.77	2.39	12.86	YES
JB6-BJBOX	34+43.27	31+24.11	319.40	1	18	-	RCP	1.77	4.71	0.38	0.013	499.50	494.73	0.015	J-B-6	0.00	0.60	0.00	0.50	14.4	100	9.10	4.50	9.56	YES
B12-JB7	31+20.30	31+22.29	13.30	1	48	-	RCP	12.57	12.57	1.00	0.013	494.03	493.70	0.025	B-12	20.26	0.37	7.50	8.07	13.1	100	9.30	75.06	168.53	YES
B11A-JB7	31+39.85	31+22.29	10.89	1	18	-	RCP	1.77	4.71	0.38	0.013	493.90	493.70	0.018	B-11A	0.42	0.71	0.30	0.30	10.0	100	9.80	2.92	10.60	YES
JB7-BJBOX	31+22.29	31+24.11	15.90	1	48	-	RCP	12.57	12.57	1.00	0.013	493.70	493.37	0.021	J-B-7	0.00	0.38	0.00	8.37	13.1	100	9.30	77.87	154.14	YES
BJBOX-JB8	31+24.11	31+27.28	22.50	1	48	-	RCP	12.57	12.57	1.00	0.013	493.37	492.80	0.025	B-J BOX	0.00	0.38	0.00	8.86	14.4	100	9.10	80.63	170.30	YES
B10A-B10JT	31+01.81	31+08.41	1.70	1	24	-	RCP	3.14	6.28	0.50	0.013	494.84	494.70	0.082	B-10A	0.48	0.90	0.43	0.43	10.0	100	9.80	4.23	48.36	YES
B10JT-JB8	31+08.41	31+27.28	18.60	1	24	-	RCP	3.14	6.28	0.50	0.013	494.70	492.80	0.102	B-10 JT	0.00	0.90	0.00	0.43	10.2	100	9.77	4.22	53.86	YES
JB8-BOUT	31+27.28	31+29.95	14.60	1	48	-	RCP	12.57	12.57	1.00	0.013	492.80	492.50	0.021	J-B-8	0.00	0.90	0.00	9.30	14.5	100	9.08	84.41	153.37	YES
C1B-C1BJT	29+16.22	29+09.28	17.31	1	18	-	RCP	1.77	4.71	0.38	0.013	495.22	494.55	0.039	C-1B	0.37	0.69	0.26	0.26	10.0	100	9.80	2.55	15.39	YES
C1BJT-CJBOX	29+09.28	29+04.30	2.27	1	18	-	RCP	1.77	4.71	0.38	0.013	494.55	492.23	1.022	C-1B JT	0.00	0.69	0.00	0.26	10.0	100	9.80	2.55	79.10	YES
C1A-C1AJT	28+88.43	28+94.78	16.73	1	18	-	RCP	1.77	4.71	0.38	0.013	495.51	494.70	0.048	C-1A	0.71	0.53	0.37	0.37	10.0	100	9.80	3.64	17.22	YES
C1AJT-CJBOX	28+94.78	29+04.30	7.00	1	18	-	RCP	1.77	4.71	0.38	0.013	494.70	492.23	0.353	C-1A JT	0.00	0.53	0.00	0.37	10.1	100	9.78	3.68	46.48	YES
CJBOX-C2A	29+04.30	29+08.68	61.04	1	24	-	RCP	3.14	6.28	0.50	0.013	492.23	492.13	0.002	C-J BOX	0.00	0.58	0.00	0.63	10.6	100	9.75	6.15	6.82	YES
C2A-COUT	29+08.68	29+08.68	16.70	1	24	-	RCP	3.14	6.28	0.50	0.013	492.13	491.00	0.072	C-2A	1.32	0.60	0.80	1.48	10.6	100	9.74	13.91	45.21	YES

SYSTEM ID	I N	Uniform Velocity, V(ft/s)	Time in Conduit t(min)	Friction Slope (ft/ft)	Friction Head Loss (ft)	HGL		Headloss Calculations					Design HGL	Top of Curb Ele.	HGL Depth Below T/C	Remarks
						U/S.	D/S.	V1^2/2g (ft)	V2^2/2g (ft)	Junction Type	Coeff, KJ	Head Loss, HL (ft)				
A8-JA6		5.20	0.007	0.00149	0.003	494.27	494.27	0.42	0.42	HEADWALL	0.50	0.21	494.48	497.50	3.02	
JA6-JA7		5.30	0.019	0.00149	0.009	492.95	492.95	0.42	0.42	EX WYE	0.25	0.32	494.27	497.43	3.16	
A6C-JA7		1.75	0.230	0.00086	0.021	493.97	493.95	0.10	0.05	INLET	1.25	0.06	494.03	497.56	3.53	
A6A-A6B		3.20	0.780	0.00197	0.295	494.87	494.58	0.38	0.16	INLET	1.25	0.20	495.07	497.78	2.71	
A6B-JA7		4.69	0.170	0.00423	0.203	494.15	493.95	0.38	0.34	INLET	1.25	0.43	494.58	496.56	1.98	
JA7-JA8		5.74	0.218	0.00182	0.137	493.58	493.44	0.42	0.51	EX WYE	0.35	0.37	493.95	496.96	3.01	
A7A-JA8		1.65	0.096	0.00076	0.007	493.45	493.44	0.10	0.04	INLET	1.25	0.05	493.50	496.42	2.92	
A7B-JA8		4.64	0.045	0.00606	0.076	493.52	493.44	0.61	0.33	INLET	1.25	0.42	493.94	496.09	2.15	
JA8-AOUT		6.11	0.027	0.00206	0.021	493.01	492.99	0.42	0.58	EX WYE	0.35	0.43	493.44	496.24	2.80	
B8A-B8JT		1.39	0.025	0.00054	0.001	501.23	501.23	0.09	0.03	INLET	1.25	0.04	501.27	504.72	3.45	
B8JT-JB5		1.38	0.166	0.00054	0.007	501.20	501.19	0.09	0.03	CONNECTION	1.00	0.03	501.23	504.22	2.99	
JB5-JB6		1.33	2.103	0.00050	0.084	501.18	501.09	0.03	0.03	EX WYE	0.43	0.01	501.19	504.42	3.23	
B9A-B9JT		1.36	0.032	0.00052	0.001	501.13	501.13	0.09	0.03	INLET	1.25	0.04	501.17	503.90	2.73	
B9JT-JB6		1.35	0.169	0.00052	0.007	501.10	501.09	0.09	0.03	CONNECTION	1.00	0.03	501.13	503.40	2.27	
JB6-BJBOX		2.55	2.089	0.00183	0.584	501.00	496.82	0.03	0.10	EX WYE	0.25	0.09	501.09	503.73	2.64	
B12-JB7		5.97	0.037	0.00272	0.036	497.44	497.41	0.16	0.55	HEADWALL	0.50	0.47	497.92	501.00	3.08	
B11A-JB7		1.65	0.110	0.00077	0.008	497.42	497.41	0.04	0.04	INLET	1.25	0.05	497.47	500.50	3.03	
JB7-BJBOX		6.20	0.043	0.00292	0.046	496.87	496.82	0.16	0.60	EX WYE	0.35	0.54	497.41	499.90	2.49	
BJBOX-JB8		6.42	0.058	0.00313	0.071	496.75	496.68	0.57	0.64	JCT BOX	1.00	0.07	496.82	499.74	2.92	
B10A-B10JT		1.35	0.021	0.00035	0.001	496.69	496.69	0.03	0.03	INLET	1.25	0.04	496.73	499.42	2.69	
B10JT-JB8		1.34	0.231	0.00035	0.006	496.69	496.68	0.03	0.03	30-BEND	0.25	0.01	496.69	498.92	2.23	
JB8-BOUT		6.72	0.036	0.00343	0.050	496.55	496.50	0.57	0.70	CONNECTION	1.00	0.13	496.68	499.33	2.65	
C1B-C1BJT		1.44	0.200	0.00058	0.010	496.06	496.05	0.11	0.03	INLET	1.25	0.04	496.10	499.00	2.90	
C1BJT-CJBOX		1.44	0.026	0.00058	0.001	493.43	493.43	0.11	0.03	60-BEND	0.43	0.01	493.45	497.90	4.45	
C1A-C1AJT		2.06	0.135	0.00119	0.020	496.22	496.20	0.16	0.07	INLET	1.25	0.08	496.30	499.00	2.70	
C1AJT-CJBOX		2.06	0.057	0.00119	0.008	493.44	493.43	0.16	0.07	60-BEND	0.43	0.03	493.47	498.10	4.63	
CJBOX-C2A		1.96	0.519	0.00074	0.045	493.48	493.44	0.11	0.06	JCT BOX	1.00	-0.05	493.43	498.00	4.57	
C2A-COUT		4.43	0.059	0.00376	0.059	493.06	493.00	0.11	0.30	INLET	1.25	0.38	493.44	498.40	4.96	

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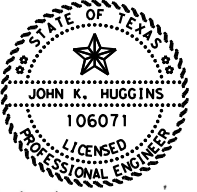
SYSTEM ID	Conduit Properties														Incremental Drainage Area				Accumulated CA Collected	Upstream Tc (min)	Design Storm Freq (yr)	Intensity (In/Hr)	Runoff-Q (cfs)	Conduit Capacity (cfs)	Partia Flow Y /
	Collection Point U/S	Collection Point D/S	Pipe Length (ft)	# of Barrels	Pipe Size (inches)	Box (Span x Rise)	Type	Pipe Area(sf)	Wetted Perimeter - Pw(ft)	Hydraulic Radius	Manning's - n	Flowline Ele-Up- stream	Flowline Ele-Down -stream	Slope ft/ft	Inlet/Node ID	Area (Ac)	Runoff Coeff. C	Incremental CA Collected							
D2A-D2AJT	25+72.41	25+71.32	4.53	1	18	-	RCP	1.77	4.71	0.38	0.013	491.20	490.50	0.155	D-2A	0.32	0.73	0.23	0.23	10.0	100	9.80	2.25	30.76	YES
D2AJT-JD1	25+71.32	25+66.44	4.28	1	18	-	RCP	1.77	4.71	0.38	0.013	490.50	489.86	0.150	D-2A JT	0.00	0.73	0.00	0.23	10.1	100	9.78	2.25	30.26	YES
JD1-JD2	25+66.44	25+66.22	4.00	1	24	-	RCP	3.14	6.28	0.50	0.013	489.86	489.75	0.028	J-D-1	0.00	0.73	0.00	0.23	10.1	100	9.78	2.25	27.94	YES
D1A-D1AJT	25+43.66	25+44.61	5.86	1	18	-	RCP	1.77	4.71	0.38	0.013	491.52	491.30	0.038	D-1A	0.90	0.64	0.58	0.58	10.0	100	9.80	5.64	15.16	YES
D1AJT-JD2	25+44.61	25+66.22	22.93	1	18	-	RCP	1.77	4.71	0.38	0.013	491.30	489.75	0.068	D-1A JT	0.00	0.64	0.00	0.58	10.1	100	9.78	5.63	20.34	YES
JD2-DJBOX	25+66.22	25+63.50	44.61	1	24	-	RCP	3.14	6.28	0.50	0.013	489.75	488.18	0.035	J-D-2	0.00	0.66	0.00	0.81	10.4	100	9.74	7.84	31.61	YES
D3C-D3CJTA	26+10.81	25+93.79	6.41	1	24	-	RCP	3.14	6.28	0.50	0.013	490.80	490.50	0.047	D-3C	1.88	0.54	1.02	1.02	10.0	100	9.80	10.03	36.45	YES
D3CJTA-D3CJTB	25+93.79	25+72.39	25.14	1	24	-	RCP	3.14	6.28	0.50	0.013	490.50	488.50	0.080	D-3C JTA	0.00	0.54	0.00	1.02	10.1	100	9.78	10.01	47.53	YES
D3CJTB-DJBOX	25+72.39	25+63.50	5.86	1	24	-	RCP	3.14	6.28	0.50	0.013	488.50	488.18	0.055	D-3C JTB	0.00	0.54	0.00	1.02	10.2	100	9.77	10.00	39.38	YES
D3BB-D3B	24+66.30	24+87.20	5.27	1	24	-	RCP	3.14	6.28	0.50	0.013	489.75	489.65	0.019	D-3BB	2.33	0.60	1.39	1.39	10.0	100	9.80	13.66	23.21	YES
D3B-D3BJTA	24+87.20	25+04.96	6.83	1	24	-	RCP	3.14	6.28	0.50	0.013	489.65	489.50	0.022	D-3B	0.00	0.60	0.00	1.39	10.0	100	9.80	13.66	24.97	YES
D3BJTA-D3BJTB	25+04.96	25+46.33	43.18	1	24	-	RCP	3.14	6.28	0.50	0.013	489.50	488.40	0.025	D-3B JTA	0.00	0.60	0.00	1.39	10.2	100	9.77	13.62	26.89	YES
D3BJTB-DJBOX	25+46.33	25+63.50	14.25	1	24	-	RCP	3.14	6.28	0.50	0.013	488.40	488.18	0.015	D-3B JTB	0.00	0.60	0.00	1.39	10.2	100	9.77	13.61	20.94	YES
DJBOX-DOUT	25+63.50	-	468.45	1	24	-	RCP	3.14	6.28	0.50	0.013	488.18	476.00	0.026	D-J BOX	0.00	0.60	0.00	3.22	11.2	100	9.61	30.96	27.17	NO

SYSTEM ID	I N	Uniform Velocity, V(ft/s)	Time in Condui t(min)	Friction Slope (ft/ft)	Friction Head Loss (ft)	HGL		Headloss Calculations					Design HGL	Top of Curb Ele.	HGL Depth Below T/C	Remarks
						U/S.	D/S.	V1^2/2g (ft)	V2^2/2g (ft)	Junction Type	Coeff, KJ	Head Loss, HL (ft)				
D2A-D2AJT		1.27	0.059	0.00046	0.002	492.56	492.56	0.03	0.03	INLET	1.25	0.03	492.59	496.78	4.19	
D2AJT-JD1		1.27	0.056	0.00045	0.002	492.55	492.54	0.03	0.03	45-BEND	0.37	0.01	492.56	495.73	3.17	
JD1-JD2		0.72	0.093	0.00010	0.000	492.55	492.55	0.01	0.01	EX WYE	1.00	0.00	492.54	496.00	3.46	
D1A-D1AJT		3.19	0.031	0.00287	0.017	492.69	492.67	0.10	0.16	INLET	1.25	0.20	492.89	496.41	3.52	
D1AJT-JD2		3.19	0.120	0.00286	0.066	492.61	492.55	0.10	0.16	45-BEND	0.37	0.06	492.67	495.80	3.13	
JD2-DJBOX		2.50	0.298	0.00120	0.053	492.45	492.40	0.01	0.10	EX WYE	0.25	0.09	492.55	495.15	2.60	
D3C-D3CJTA		3.19	0.033	0.00195	0.013	492.55	492.54	0.15	0.16	INLET	1.25	0.20	492.75	495.91	3.16	
D3CJTA-D3CJTB		3.19	0.131	0.00195	0.049	492.50	492.45	0.16	0.16	30-BEND	0.25	0.04	492.54	495.89	3.35	
D3CJTB-DJBOX		3.18	0.031	0.00194	0.011	492.41	492.40	0.16	0.16	30-BEND	0.25	0.04	492.45	494.75	2.30	
D3BB-D3B		4.35	0.020	0.00363	0.019	493.16	493.15	0.29	0.29	INLET	1.25	0.37	493.53	494.71	1.18	
D3B-D3BJTA		4.35	0.026	0.00363	0.025	492.78	492.75	0.29	0.29	INLET	1.25	0.37	493.15	494.68	1.53	
D3BJTA-D3BJTB		4.33	0.166	0.00360	0.156	492.68	492.52	0.29	0.29	30-BEND	0.25	0.07	492.75	494.65	1.90	
D3BJTB-DJBOX		4.33	0.055	0.00360	0.051	492.45	492.40	0.29	0.29	30-BEND	0.25	0.07	492.52	494.63	2.11	
DJBOX-DOUT		9.86	0.792	0.01863	8.729	491.18	478.00	0.29	1.51	JCT BOX	1.00	1.22	492.40	494.65	2.25	

NOTE:

1. COLLECTION POINT (U/S&D/S) STATIONS REFERENCE STREET ALIGNMENT OF THE INLET AND NODE STATIONS; DOES NOT REFLECT THE ACTUAL LENGTH OF UP STREAM AND DOWN STREAM END OF PIPES.
2. HYDRAULIC GRADE LINE ELEVATIONS ARE FORCED TO THE TOP OF PIPE AT LOCATIONS WHERE COMPUTED HGL FROM HEADLOSS DROPS BELOW THE FLOWLINE OF THE PIPE.


THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT:MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021



John K. Huggins, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

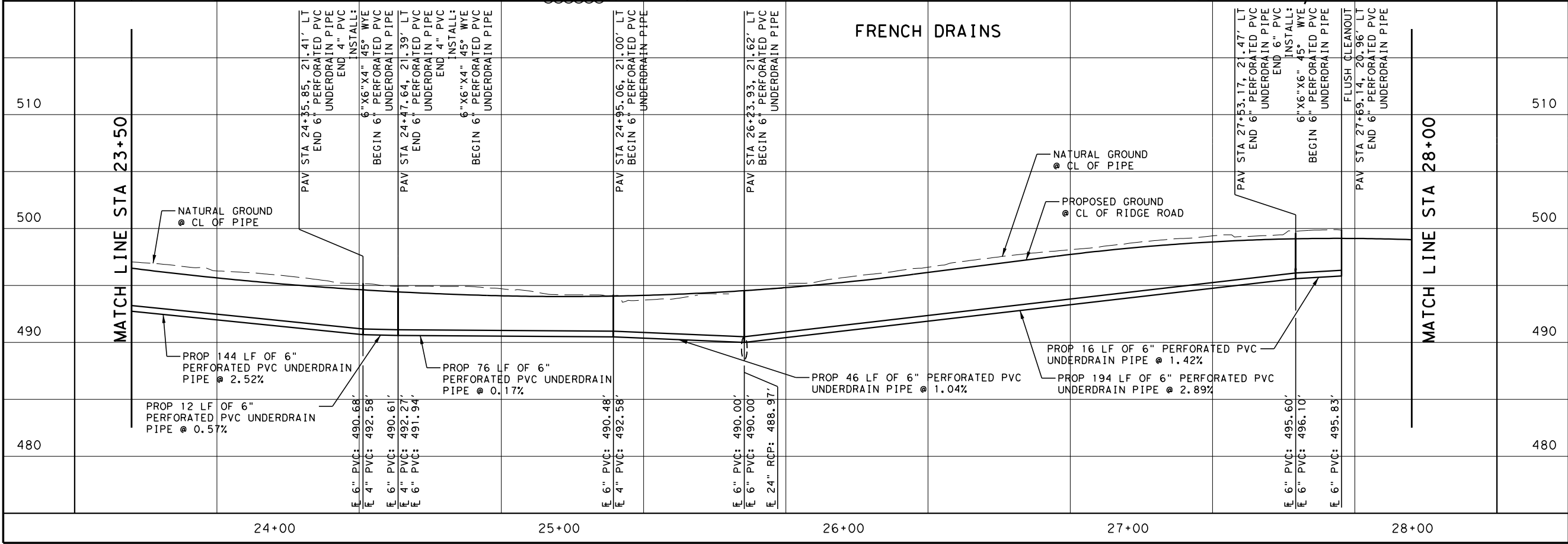
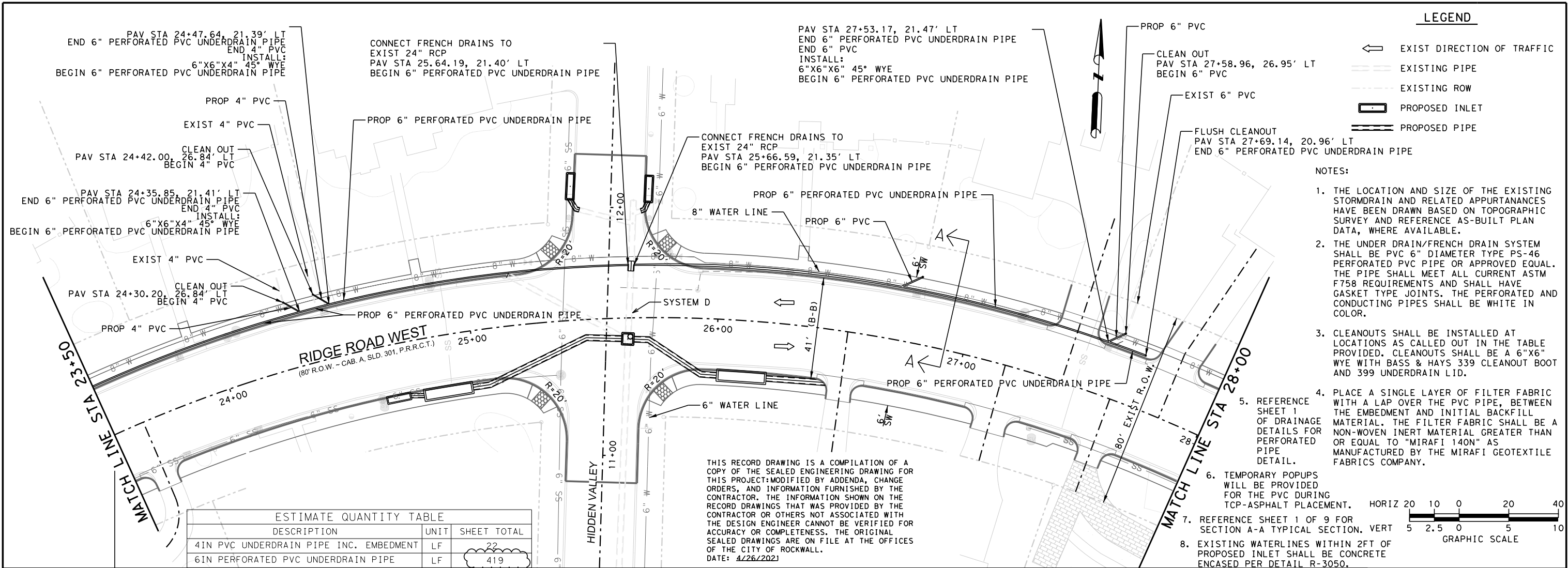
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
PROPOSED LINK
COMPUTATION DATA

SHEET 2 OF 2

DSN: EBD PROJECT: RIDGE ROAD WEST		
CK: TL	JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: DWE DATE: 10/17/2023	VERT:	69

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STATE OF TEXAS
JOHN K. HUGGINS
106071
LICENSED PROFESSIONAL ENGINEER

John K. Huggins, P.E.
4/26/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

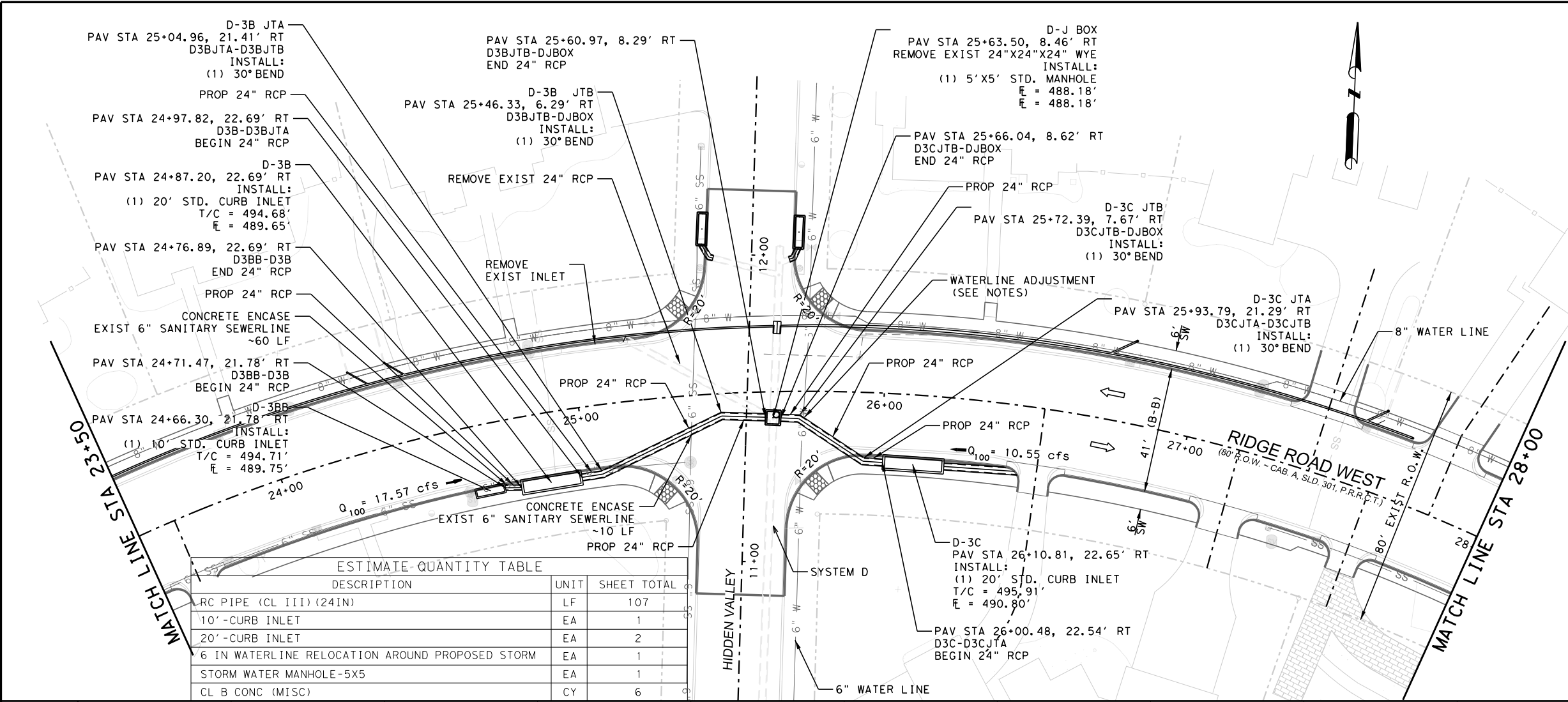
RIDGE ROAD WEST
DRAINAGE
PLAN & PROFILE

SHEET 2 OF 9

DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ 1" = 20'
CK: DME DATE: 10/17/2023	VERT: 1" = 5'

71

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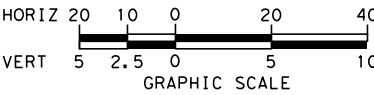
LEGEND

- EXIST DIRECTION OF TRAFFIC
- EXISTING PIPE
- EXISTING ROW
- PROPOSED INLET
- PROPOSED PIPE

NOTES:

- THE LOCATION AND SIZE OF THE EXISTING STORMDRAIN AND RELATED APPURTANANCES HAVE BEEN DRAWN BASED ON TOPOGRAPHIC SURVEY AND REFERENCE AS-BUILT PLAN DATA, WHERE AVAILABLE.
- THE WORK DONE ON MAKING THE 24" 30° RCP BENDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE SUBSIDIARY TO RC PIPE (CL III) (24 IN).
- EXISTING WATERLINE LOCATION AT ALL PROPOSED INLETS AND STORM DRAIN LINES TO BE FIELD VERIFIED BEFORE CONSTRUCTION. WATERLINE TO BE ADJUSTED PER CITY OF ROCKWALL STANDARD DETAILS IF NEEDED.

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021



ESTIMATE QUANTITY TABLE			
DESCRIPTION	UNIT	SHEET TOTAL	
RC PIPE (CL III) (24IN)	LF	107	
10'-CURB INLET	EA	1	
20'-CURB INLET	EA	2	
6 IN WATERLINE RELOCATION AROUND PROPOSED STORM	EA	1	
STORM WATER MANHOLE-5X5	EA	1	
CL B CONC (MISC)	CY	6	

SYSTEM D			
510			
500			
490			
480			

John K. Huggins, P.E.

3/30/2021

REV NO	DATE	DESCRIPTION	BY

DANNENBAUM

ENGINEERING COMPANY - DALLAS, LLC

T.B.P.E. FIRM REGISTRATION F-8996

3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL

ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST

DRAINAGE

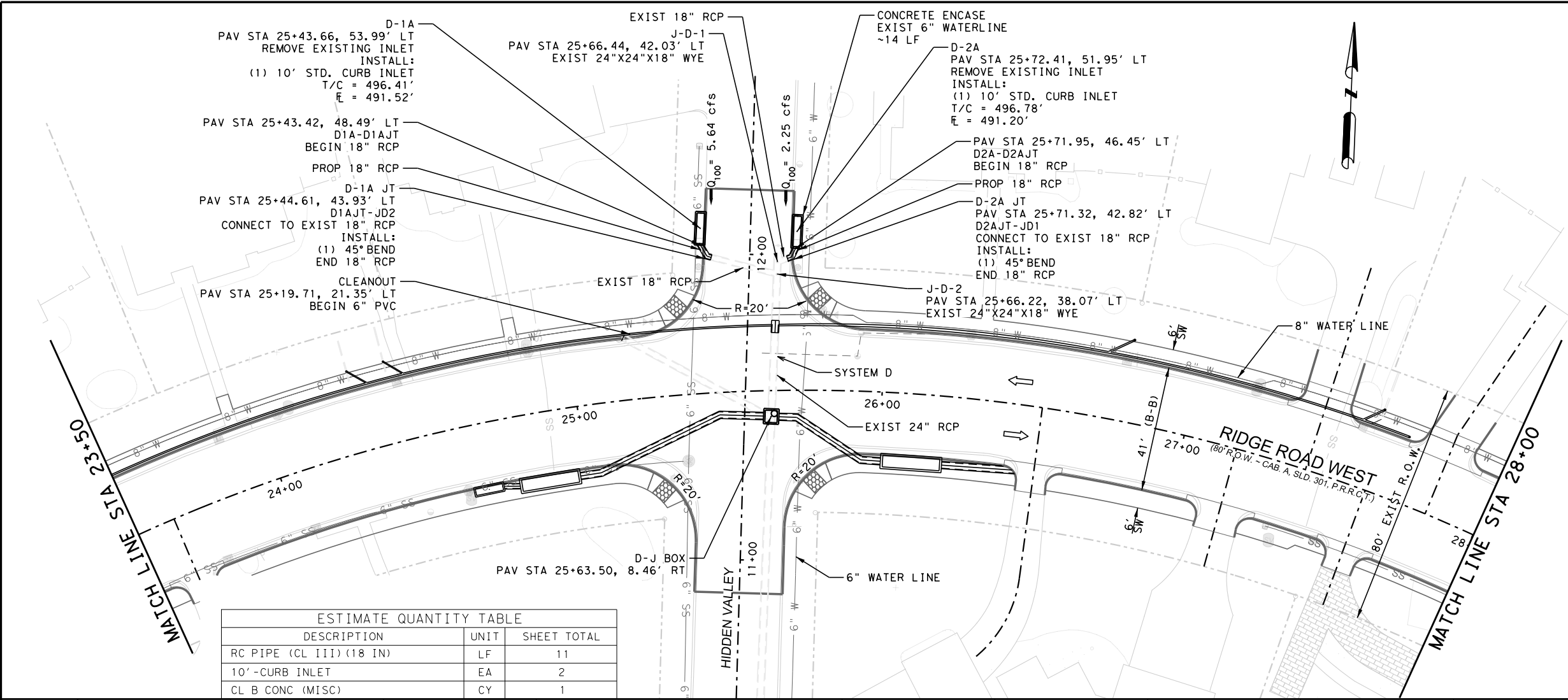
PLAN & PROFILE

SHEET 3 OF 9

DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ: 1"=20'
CK: DME DATE: 10/17/2023	VERT: 1"=5'

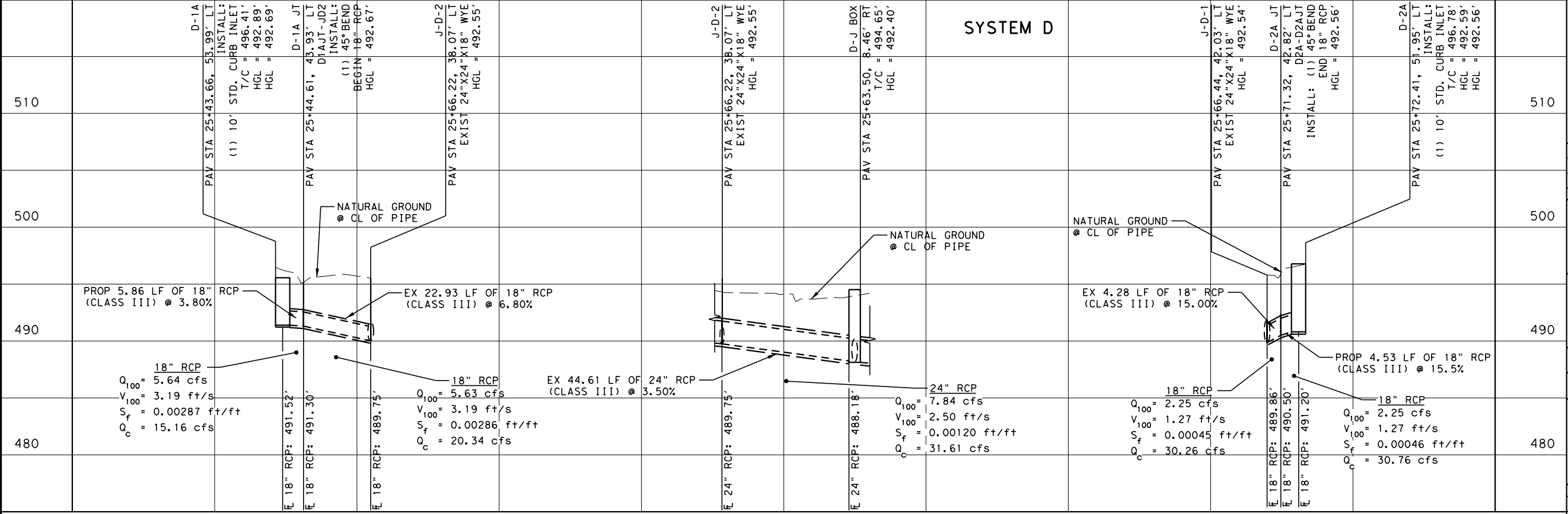
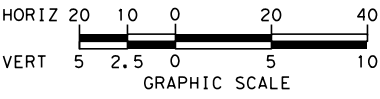
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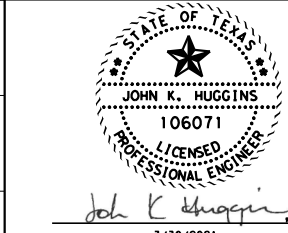
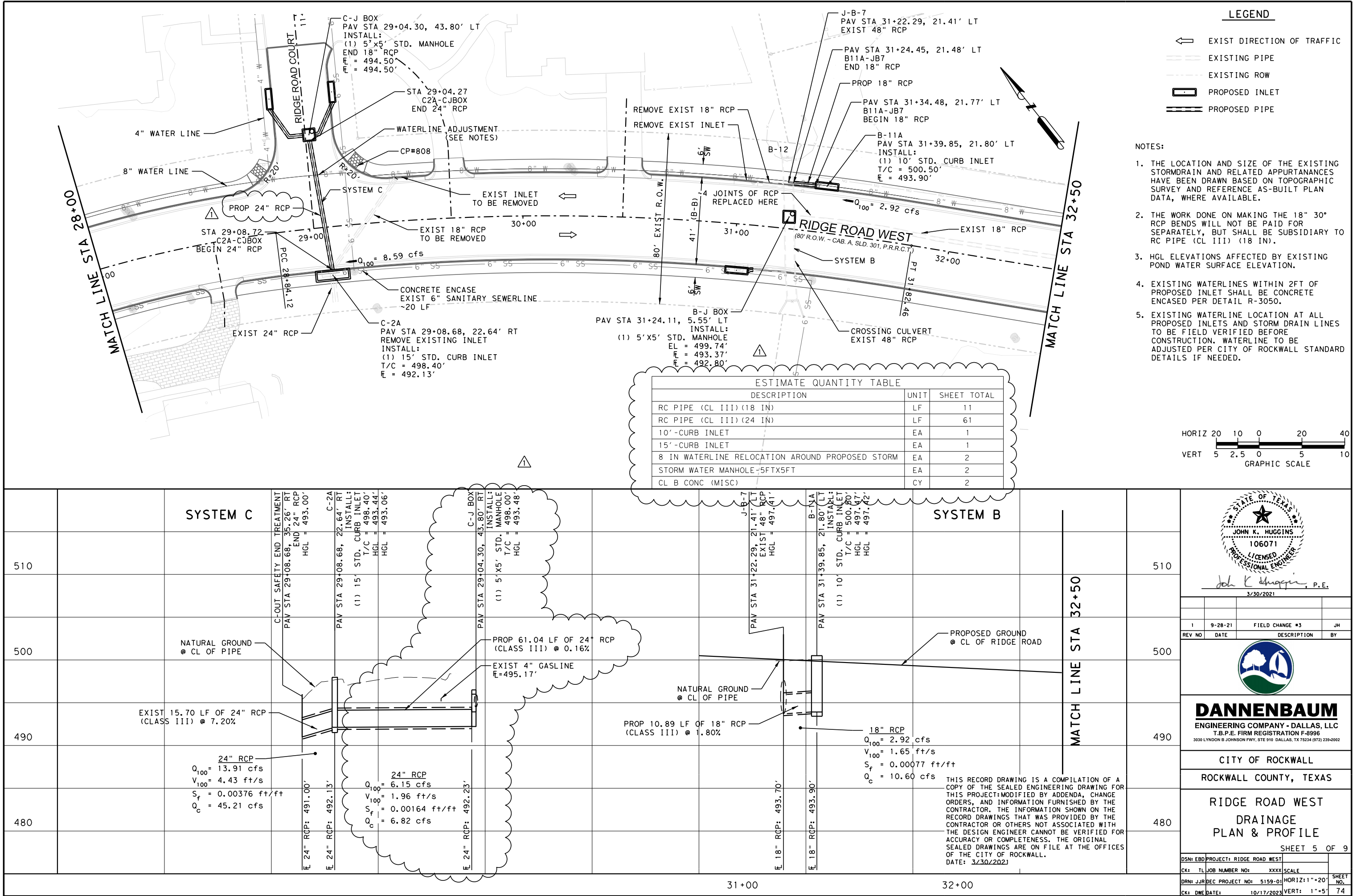


- LEGEND
- EXIST DIRECTION OF TRAFFIC
 - EXISTING PIPE
 - EXISTING ROW
 - PROPOSED INLET
 - PROPOSED PIPE
- NOTES:
- THE LOCATION AND SIZE OF THE EXISTING STORMDRAIN AND RELATED APPURTANANCES HAVE BEEN DRAWN BASED ON TOPOGRAPHIC SURVEY AND REFERENCE AS-BUILT PLAN DATA, WHERE AVAILABLE.
 - THE WORK DONE ON MAKING THE 18" 45° RCP BENDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE SUBSIDIARY TO RC PIPE (CL III) (18 IN).
 - EXISTING WATERLINE LOCATION AT ALL PROPOSED INLETS AND STORM DRAIN LINES TO BE FIELD VERIFIED BEFORE CONSTRUCTION. WATERLINE TO BE ADJUSTED PER CITY OF ROCKWALL STANDARD DETAILS IF NEEDED.

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DATE: 3/30/2021



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3/30/2021

REV NO	DATE	DESCRIPTION	BY
1	9-28-21	FIELD CHANGE #3	JH



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

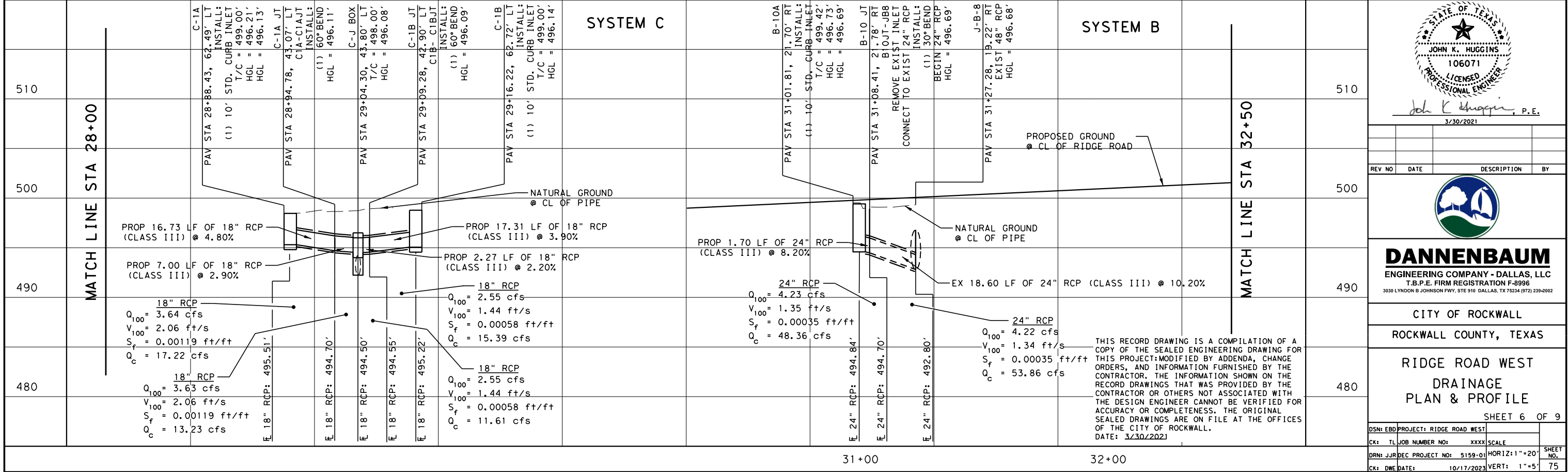
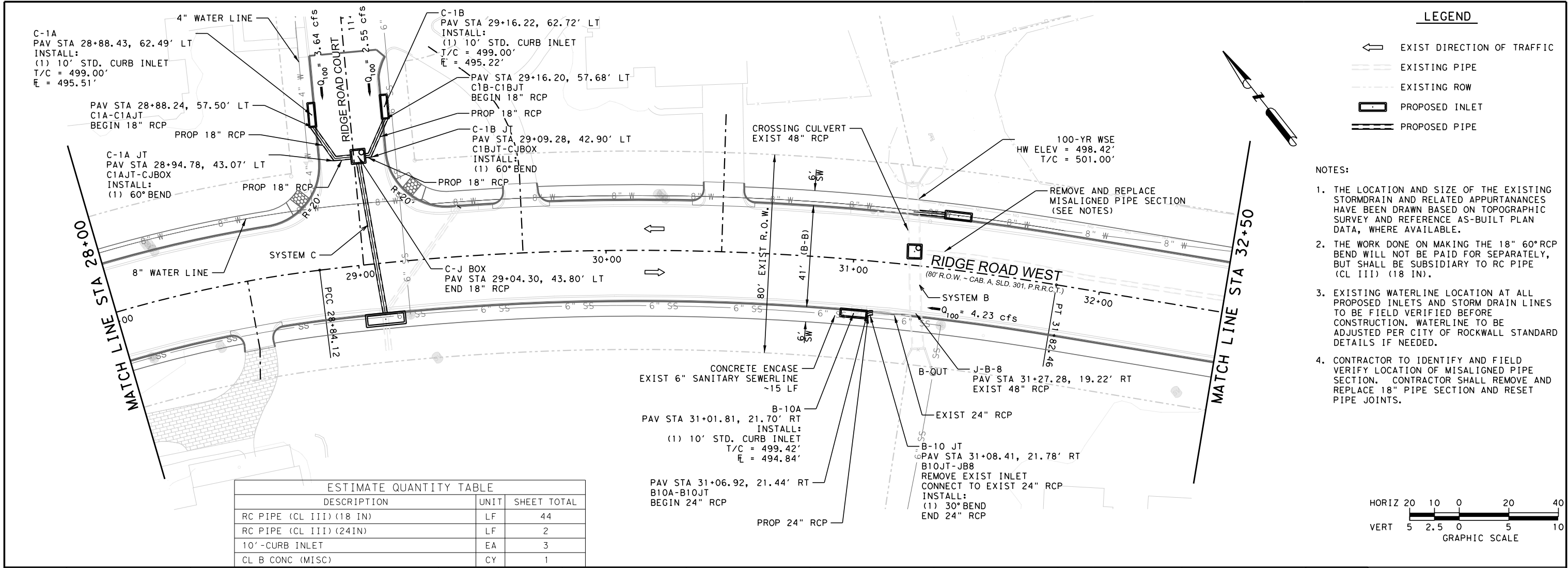
RIDGE ROAD WEST
DRAINAGE
PLAN & PROFILE

SHEET 5 OF 9

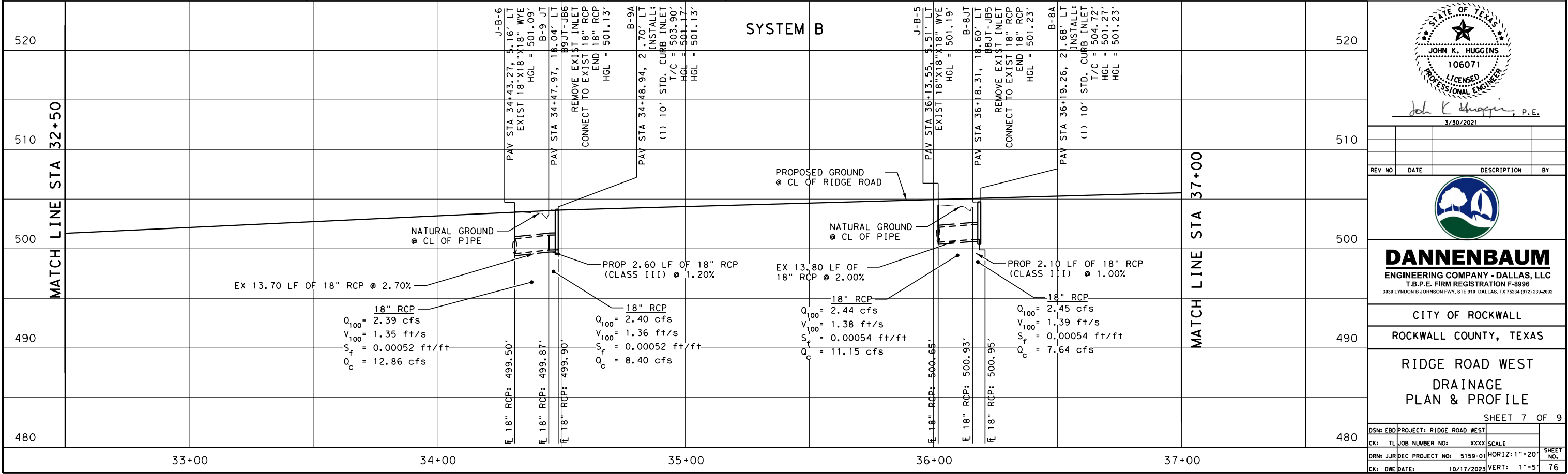
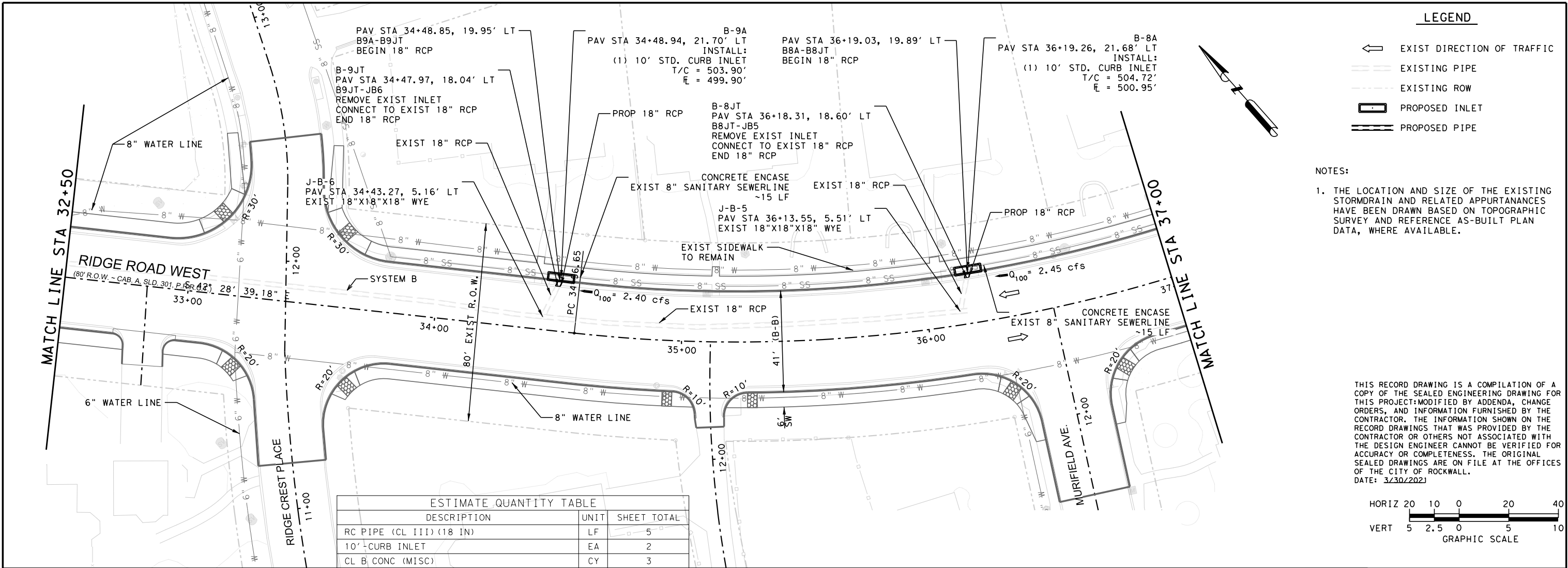
DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ: 1"=20'
CK: DME DATE: 10/17/2023	VERT: 1"=5'

SHEET NO. 74

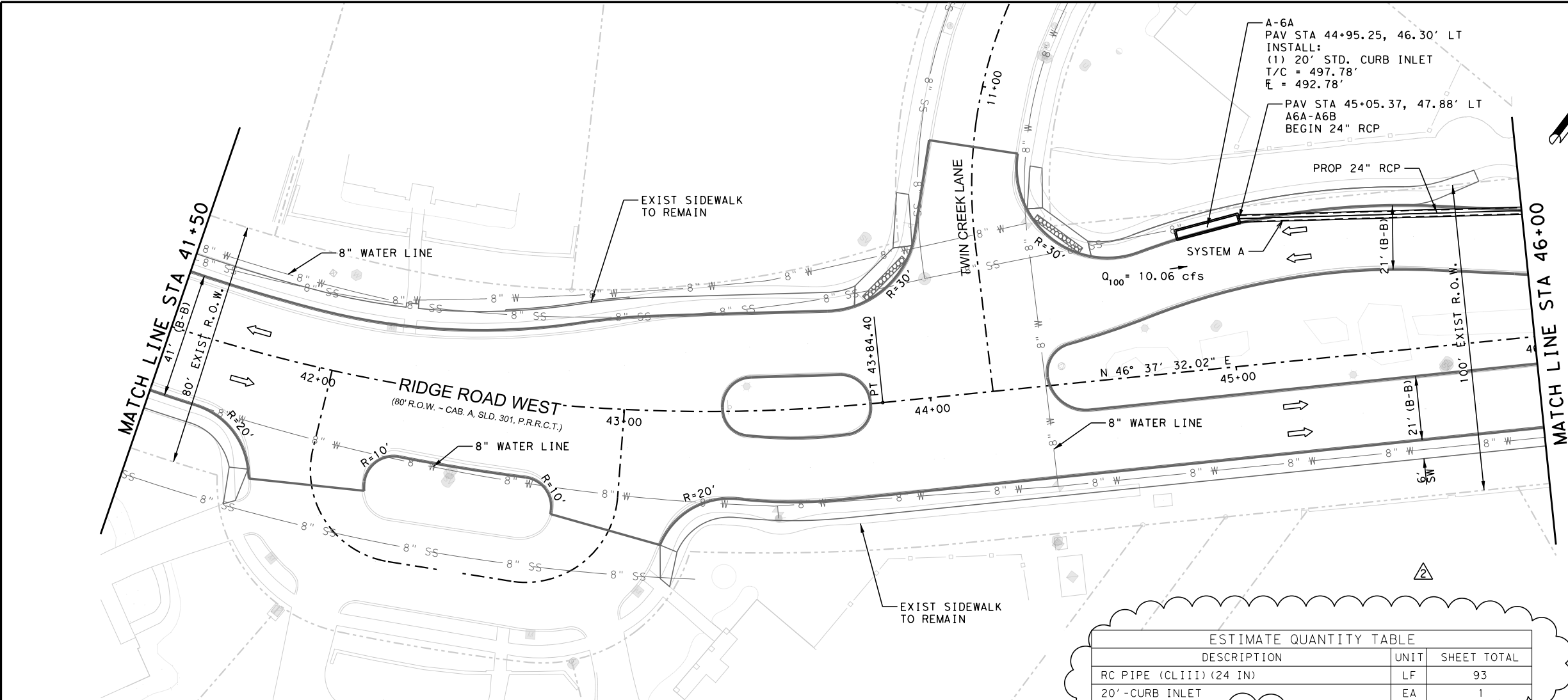
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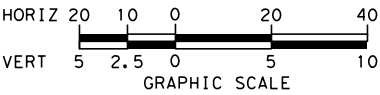
LEGEND

- EXIST DIRECTION OF TRAFFIC
- EXISTING PIPE
- EXISTING ROW
- PROPOSED INLET
- PROPOSED PIPE

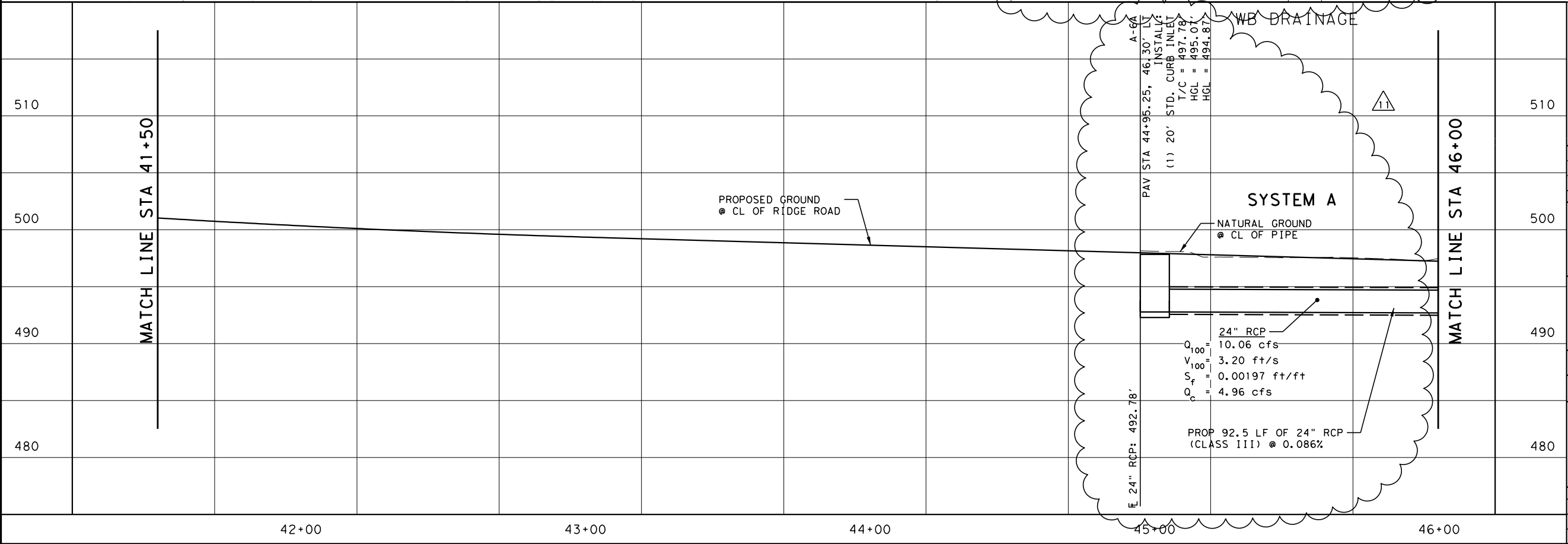
NOTES:

1. THE LOCATION AND SIZE OF THE EXISTING STORMDRAIN AND RELATED APPURTANANCES HAVE BEEN DRAWN BASED ON TOPOGRAPHIC SURVEY AND REFERENCE AS-BUILT PLAN DATA, WHERE AVAILABLE.

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DATE: 7/16/2021



ESTIMATE QUANTITY TABLE		
DESCRIPTION	UNIT	SHEET TOTAL
RC PIPE (CLIII) (24 IN)	LF	93
20' - CURB INLET	EA	1



STATE OF TEXAS
DANIEL W. EVERETT, II
93551
LICENSED PROFESSIONAL ENGINEER
Dannennaum, P.E.
7/16/2021

REV NO	DATE	DESCRIPTION	BY
11	4-20-22	FIELD CHANGE #11	NO
2	7-16-21	FIELD CHANGE #2	JH

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

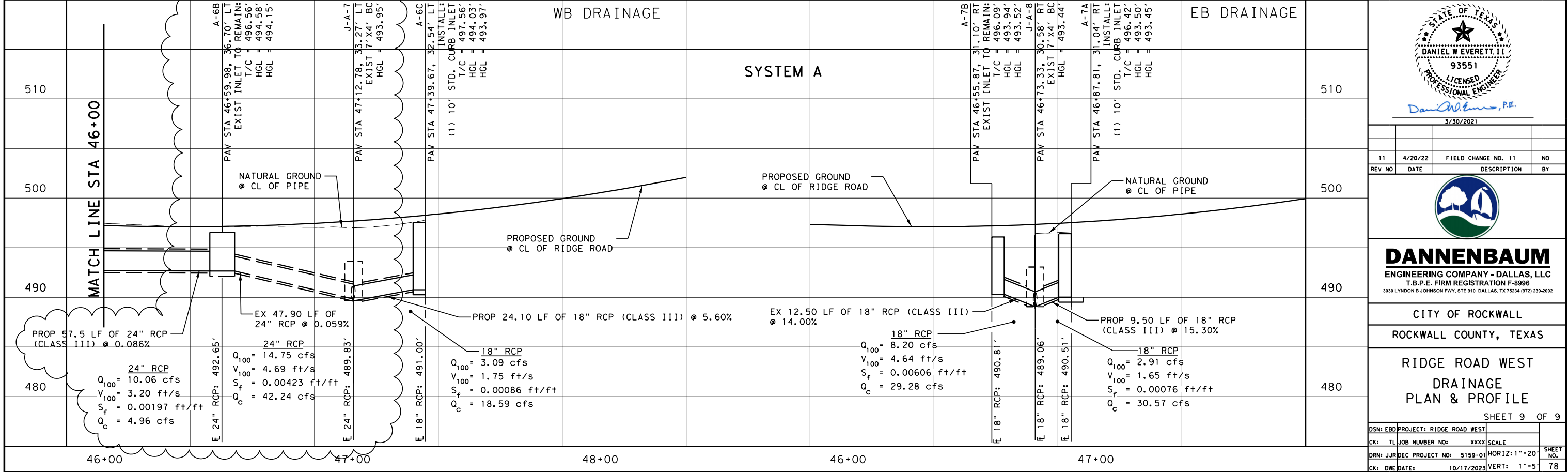
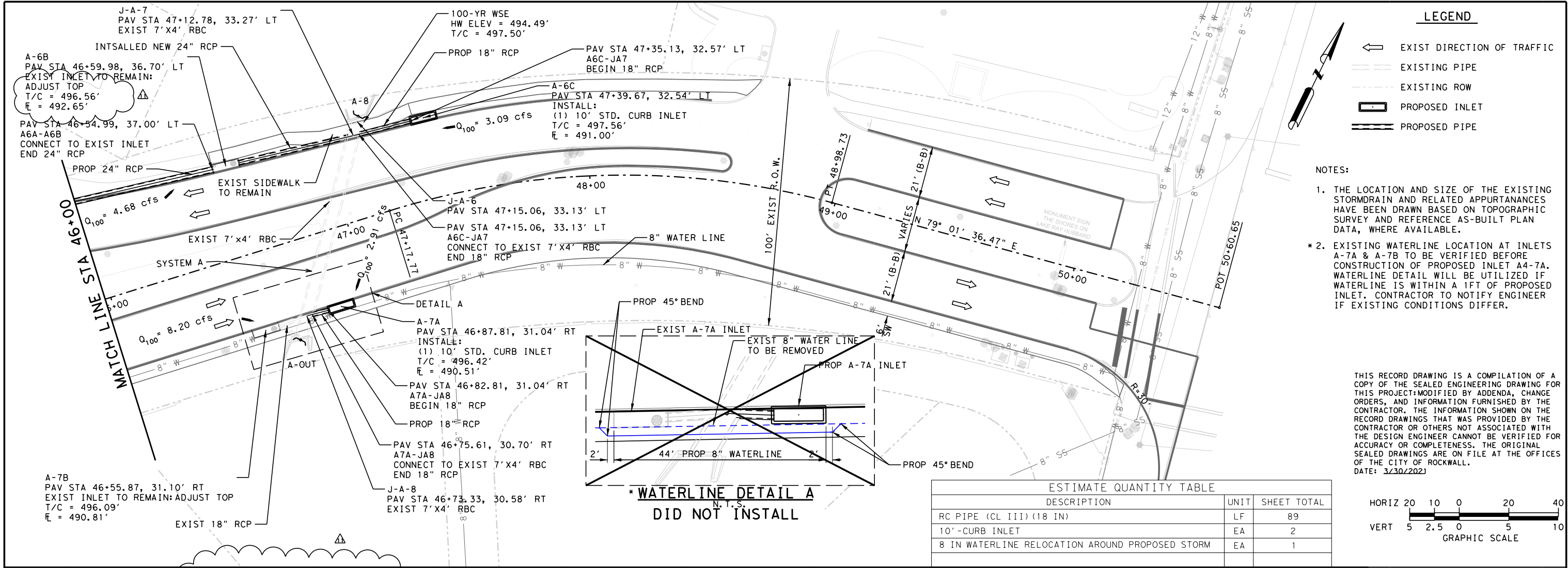
RIDGE ROAD WEST
DRAINAGE
PLAN & PROFILE

SHEET 8 OF 9

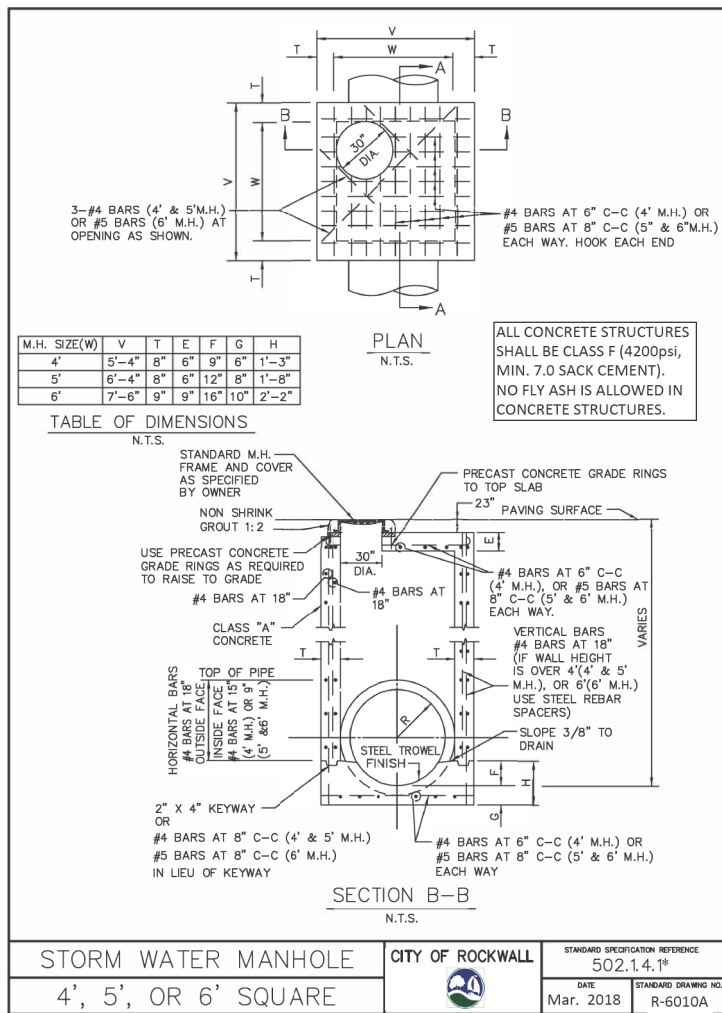
DSN: EBD	PROJECT: RIDGE ROAD WEST	
CK: TL	JOB NUMBER NO: XXXX	SCALE
DRN: JJR	DEC PROJECT NO: 5159-01	HORIZ: 1" = 20'
CK: DNE	DATE: 10/17/2023	VERT: 1" = 5'

77

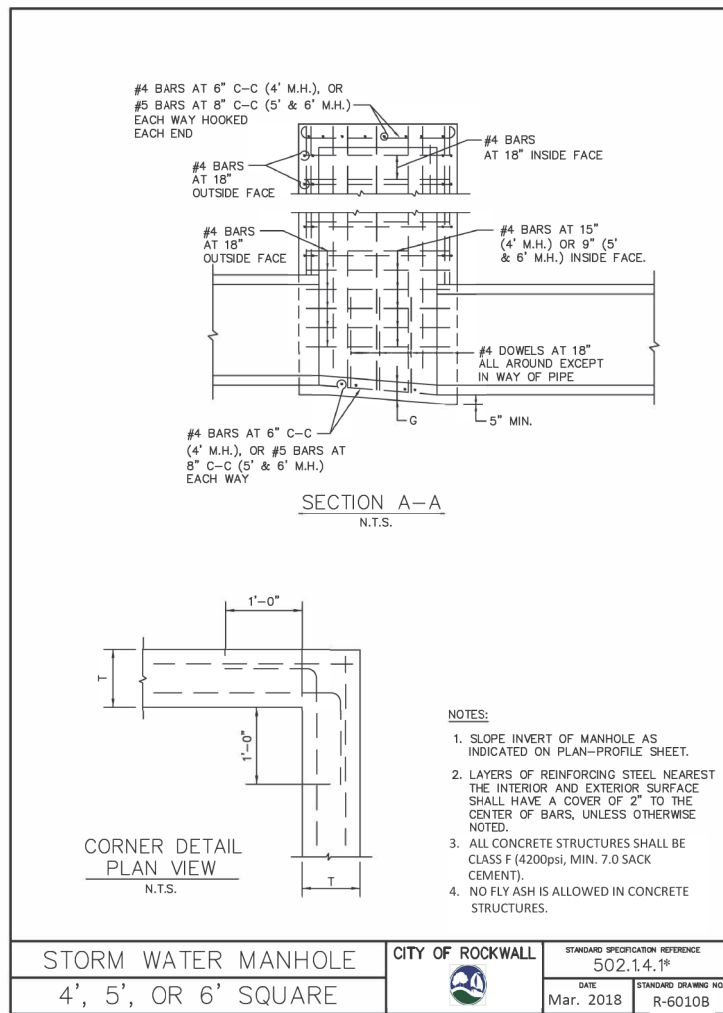
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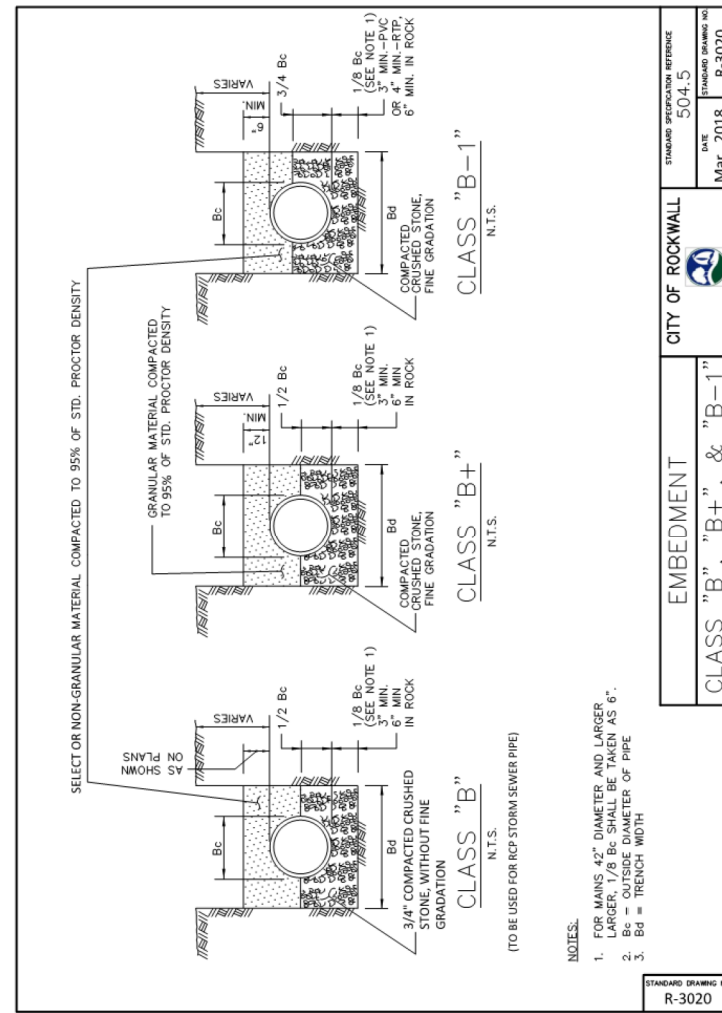
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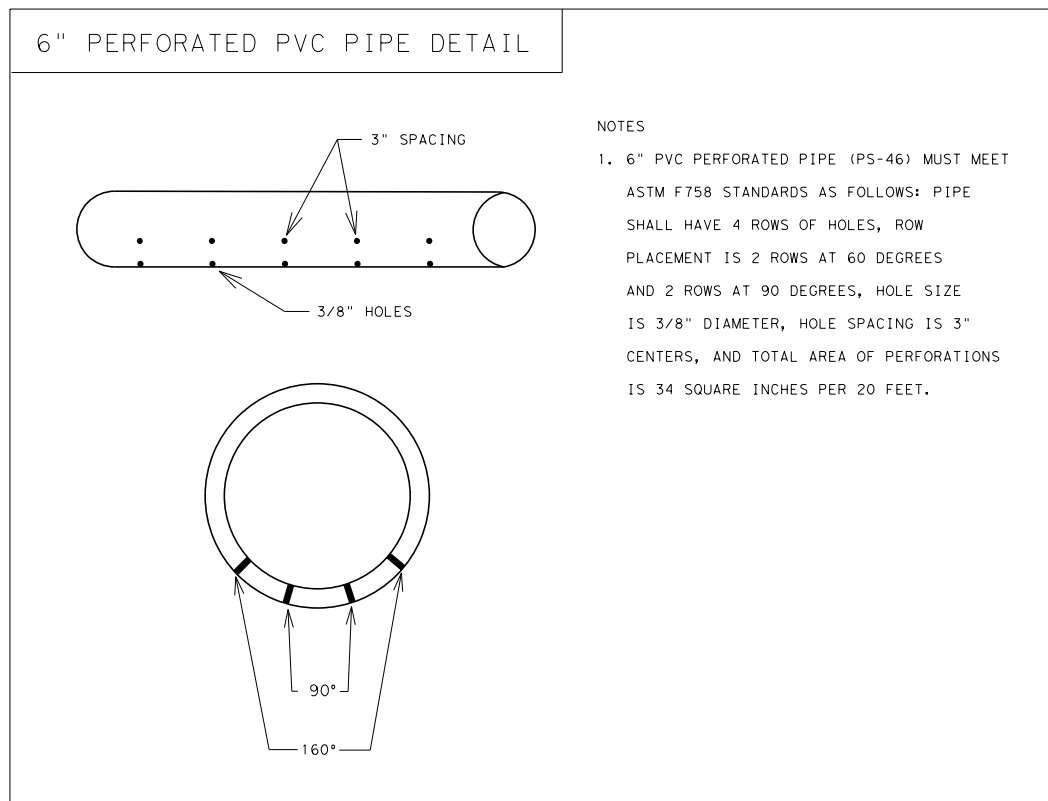
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



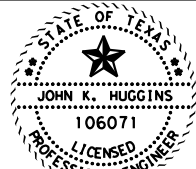
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



Page 301



THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT: MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 4/26/2023



John K. Higgins, P.E.
4/26/2021

REV NO	DATE	DESCRIPTION	BY



DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2001

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST DRAINAGE DETAILS

SHEET 1 OF 1

DSN: EBD	PROJECT: RIDGE ROAD WEST		
CK: TL	JOB NUMBER NO: XXXX	SCALE	
DRN: JJR	DEC PROJECT NO: 5159-01	HORIZ:	SHEET NO.
CK: DWE	DATE: 10/17/2023	VERT:	79

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BILL OF REINFORCING STEEL																																					
DEPTH "D"	ALL AND LENGTHS			OPENING LENGTH "L" = 5 ft								OPENING LENGTH "L" = 10 ft								OPENING LENGTH "L" = 15 ft								OPENING LENGTH "L" = 20 ft									
				Widths "W"				Widths "W"				Widths "W"				Widths "W"				Widths "W"				Widths "W"													
				3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft	3ft	4ft	5ft				
	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR			
C	D	E	J	F	F	F	A	B	G	F	F	F	A	B	G	F	F	F	A	B	G	M	N	F	F	F	A	B	G	M	N						
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	52	34	34	44	2	2						
3'-9"	18	"	"	"	"	"	"	"	"	20	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	"	"	"	"	"	"	"			
4'-0"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	"	"	"	"	"	"			
4'-3"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	"	"	"	"	"	"			
4'-6"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	"	"	"	"	"	"			
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5'-9"	25	"	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	"	"	"	"	"	"	"			
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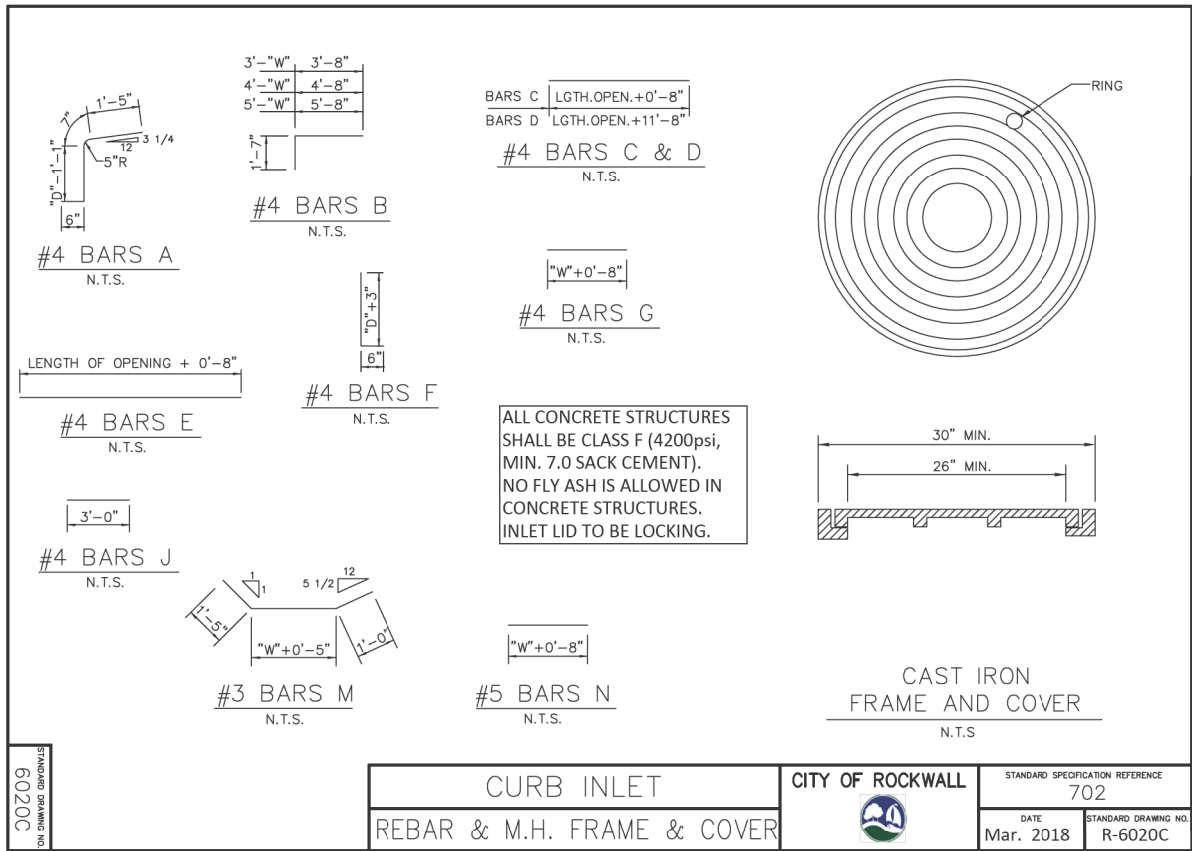
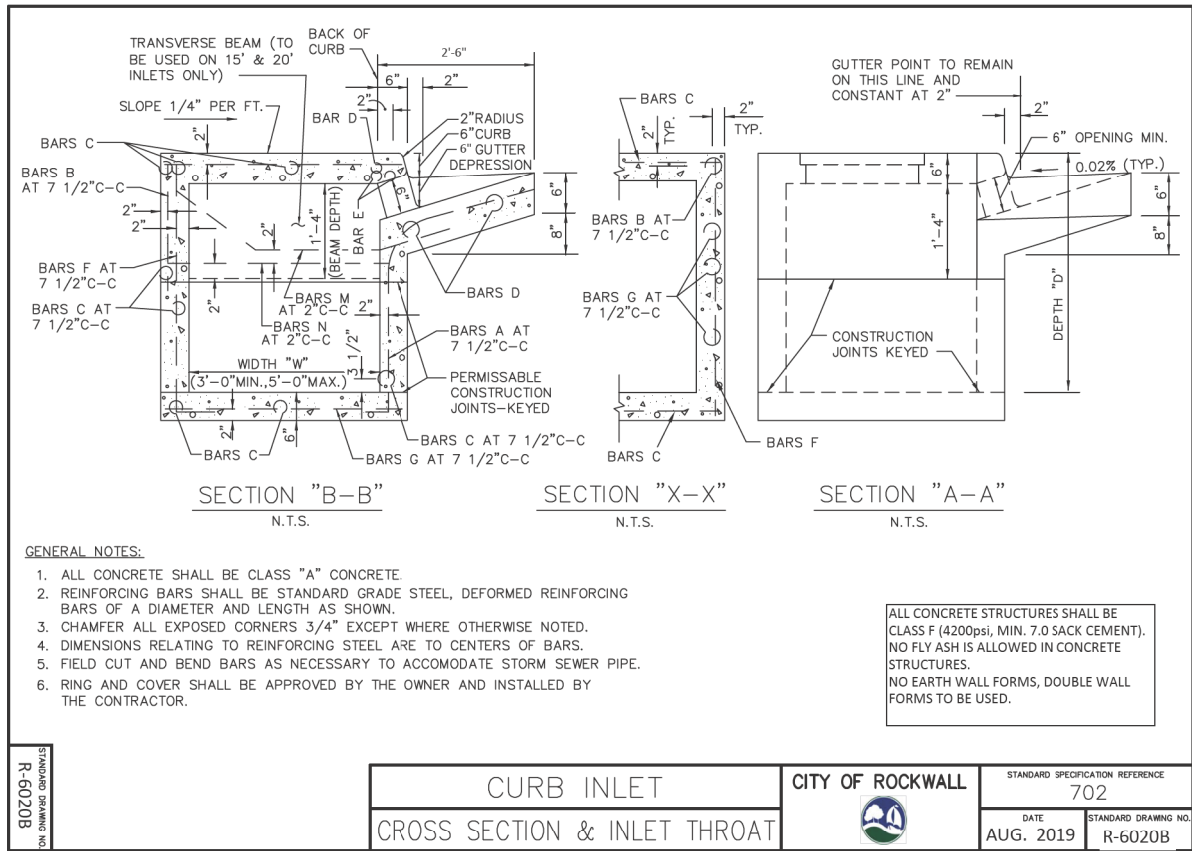
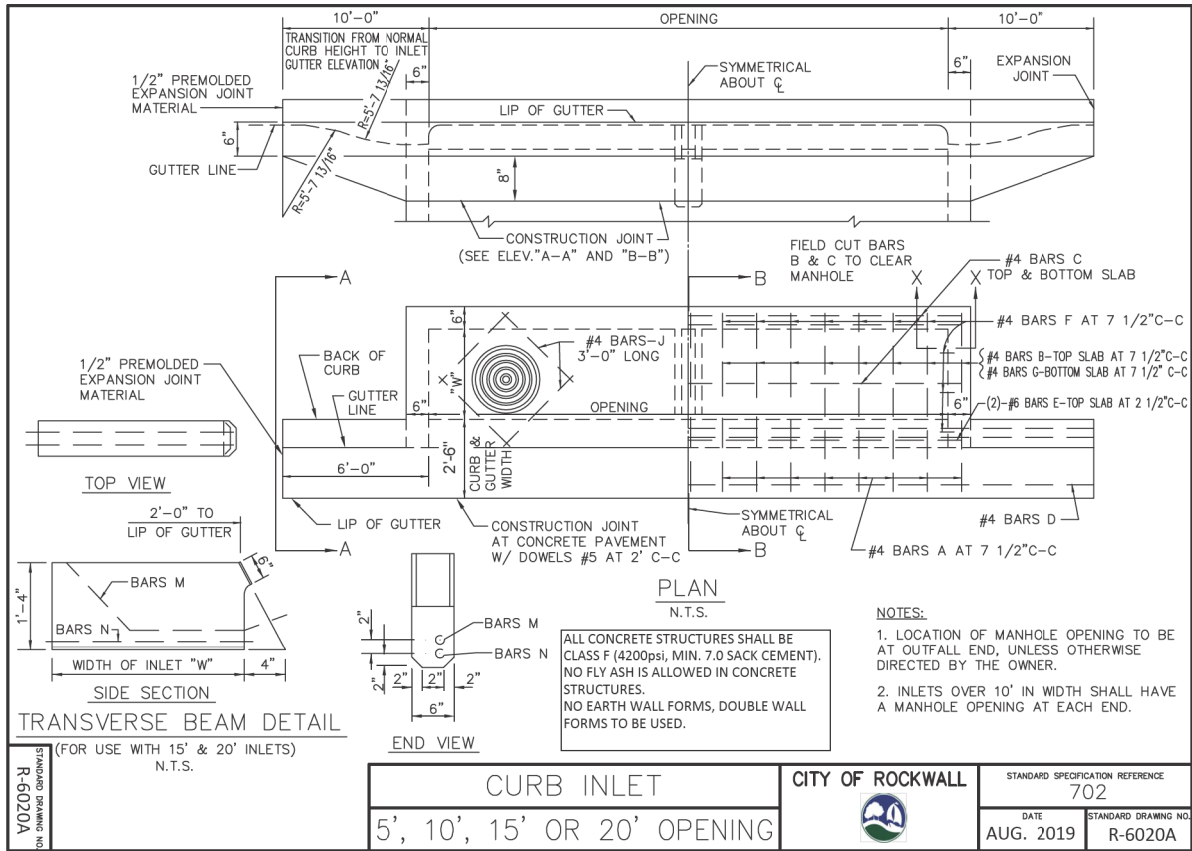
NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

STANDARD DRAWING NO. R-6020D

CURB INLET
BILL OF REINFORCING STEEL

CITY OF ROCKWALL

STANDARD SPECIFICATION REFERENCE 702
DATE Mar. 2018
STANDARD DRAWING NO. R-6020D



THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE CITY OF ROCKWALL.
DATE: 3/30/2021

STATE OF TEXAS
JOHN K. HUGGINS
106071
LICENSED PROFESSIONAL ENGINEER
John K. Huggins, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY

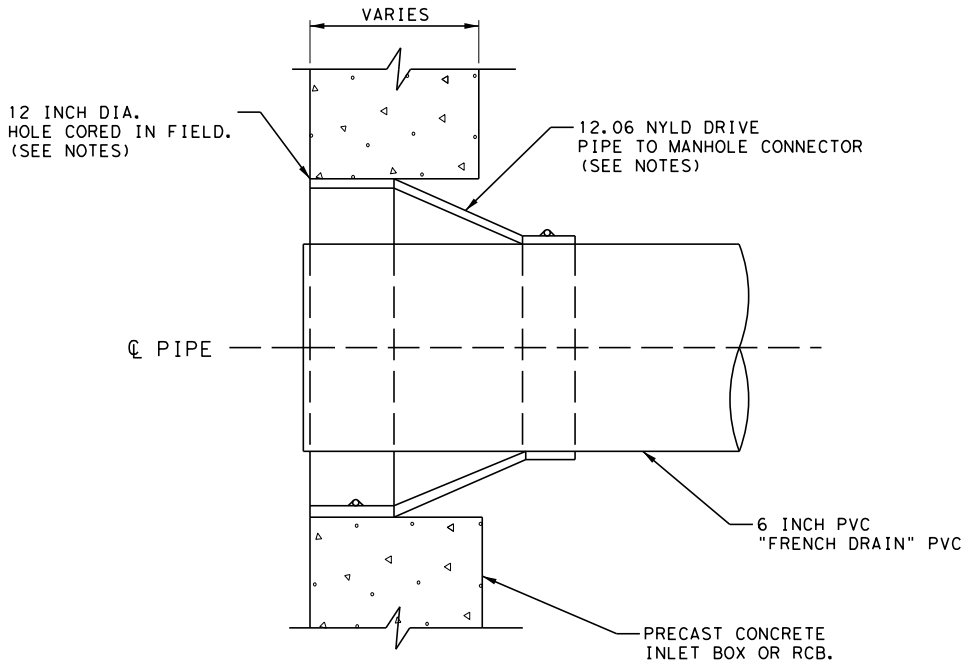
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE 910 DALLAS, TX 75234 (972) 239-2002

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS
RIDGE ROAD WEST
DRAINAGE
DETAILS

SHEET 1 OF 1

DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ:
CK: DME DATE: 10/17/2023	VERT: 80

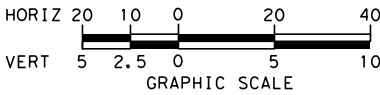
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NOTES:

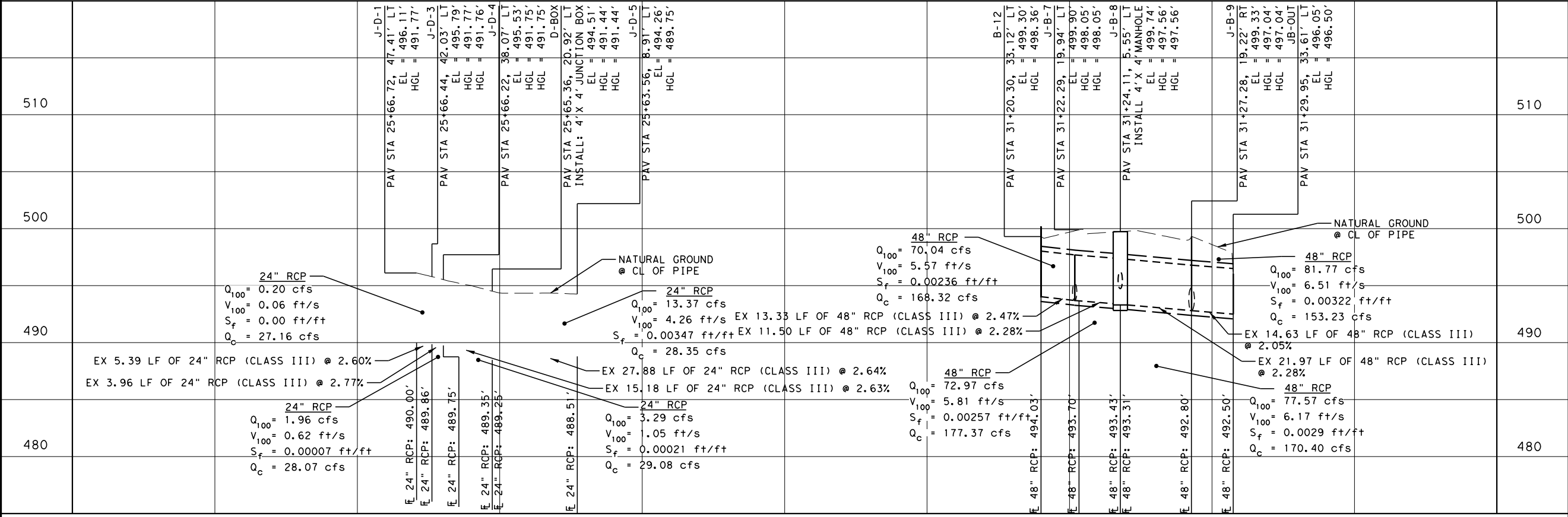
1. A WATERTIGHT FLEXIBLE BOOT CONNECTION SHALL BE USED IN THE CONNECTION OF THE FRENCH DRAIN PVC PIPING TO PRECAST INLETS OR OTHER STRUCTURES. THE FLEXIBLE CONNECTOR SHALL MEET OR EXCEED ALL THE REQUIREMENTS OF ASTM C-923. THE CONNECTOR SHALL BE NYCO DRIVE AND/OR PSX: DIRECT DRIVE AS MANUFACTURED BY PRESS-SEAL CORPORATION FT. WAYNE, IN, OR APPROVED EQUAL.
2. CONTRACTOR SHALL COORDINATE REQUIRED HOLE DIAMETER WITH BOOT MANUFACTURER PRIOR TO CORING HOLE IN STRUCTURE.

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DATE: 3/30/2021



LINE SYSTEM D JUNCTION BOX

LINE SYSTEM B MANHOLE



John K. Huggins, P.E.
3/30/2021

REV NO	DATE	DESCRIPTION	BY

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ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION F-8996
3030 LYNDON B JOHNSON FWY, STE B10 DALLAS, TX 75234 (972) 239-0002

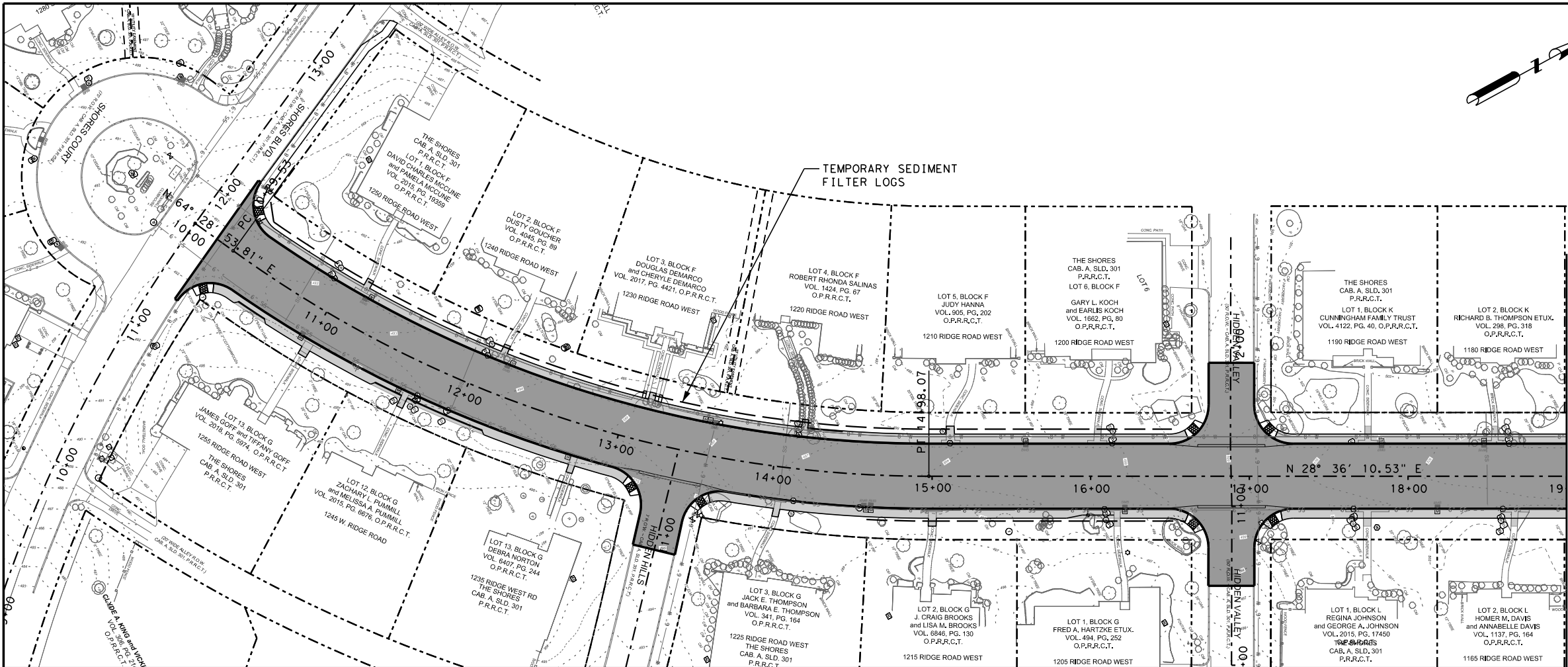
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
MISCELLANEOUS

SHEET 1 OF 1

DSN: EBD PROJECT: RIDGE ROAD WEST	
CK: TL JOB NUMBER NO: XXXX	SCALE
DRN: JJR DEC PROJECT NO: 5159-01	HORIZ: 1"=20'
CK: DME DATE: 10/17/2023	VERT: 1"=5'

81

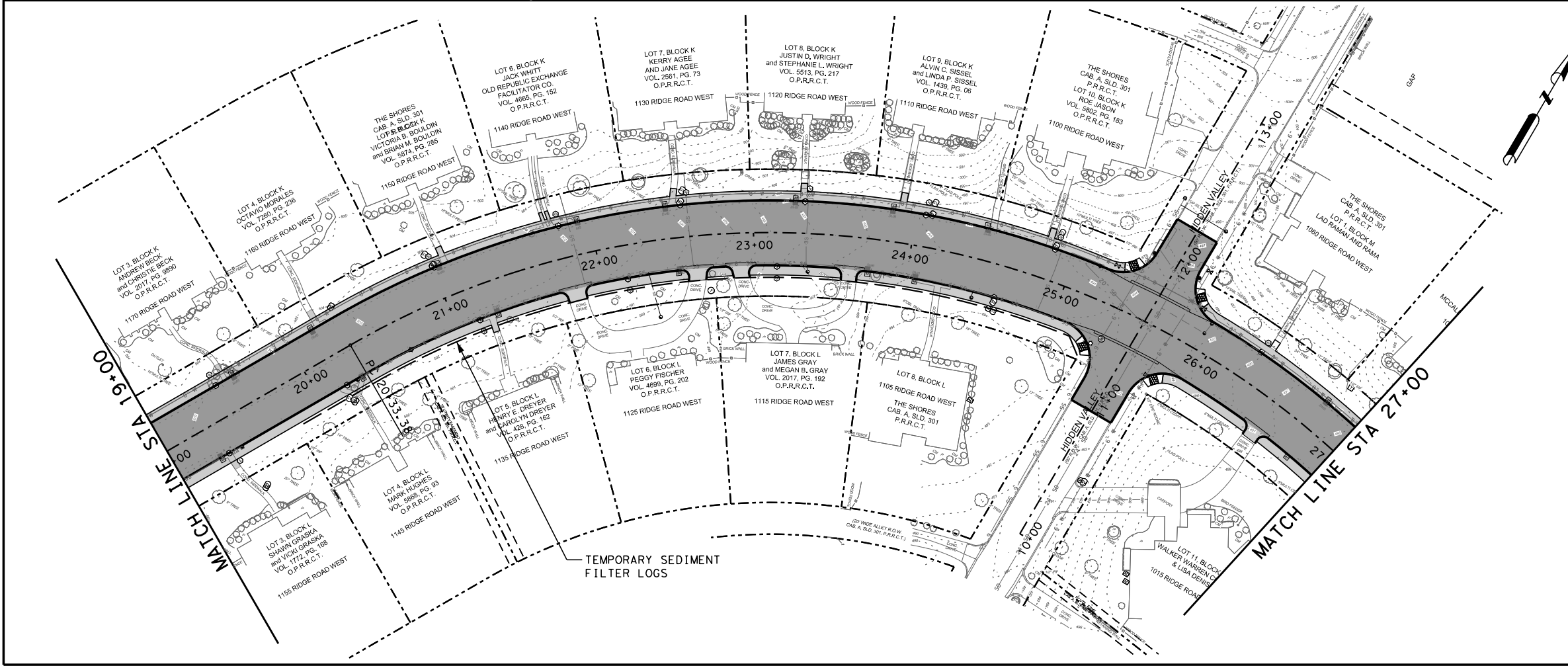
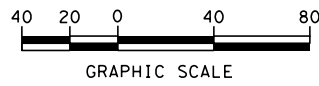


LEGEND

--- TEMPORARY SEDIMENT FILTER LOGS

CONSTRUCTION AREA

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REV NO	DATE	DESCRIPTION	BY



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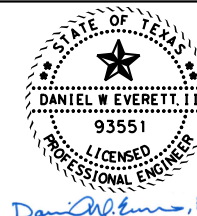
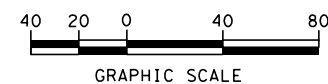
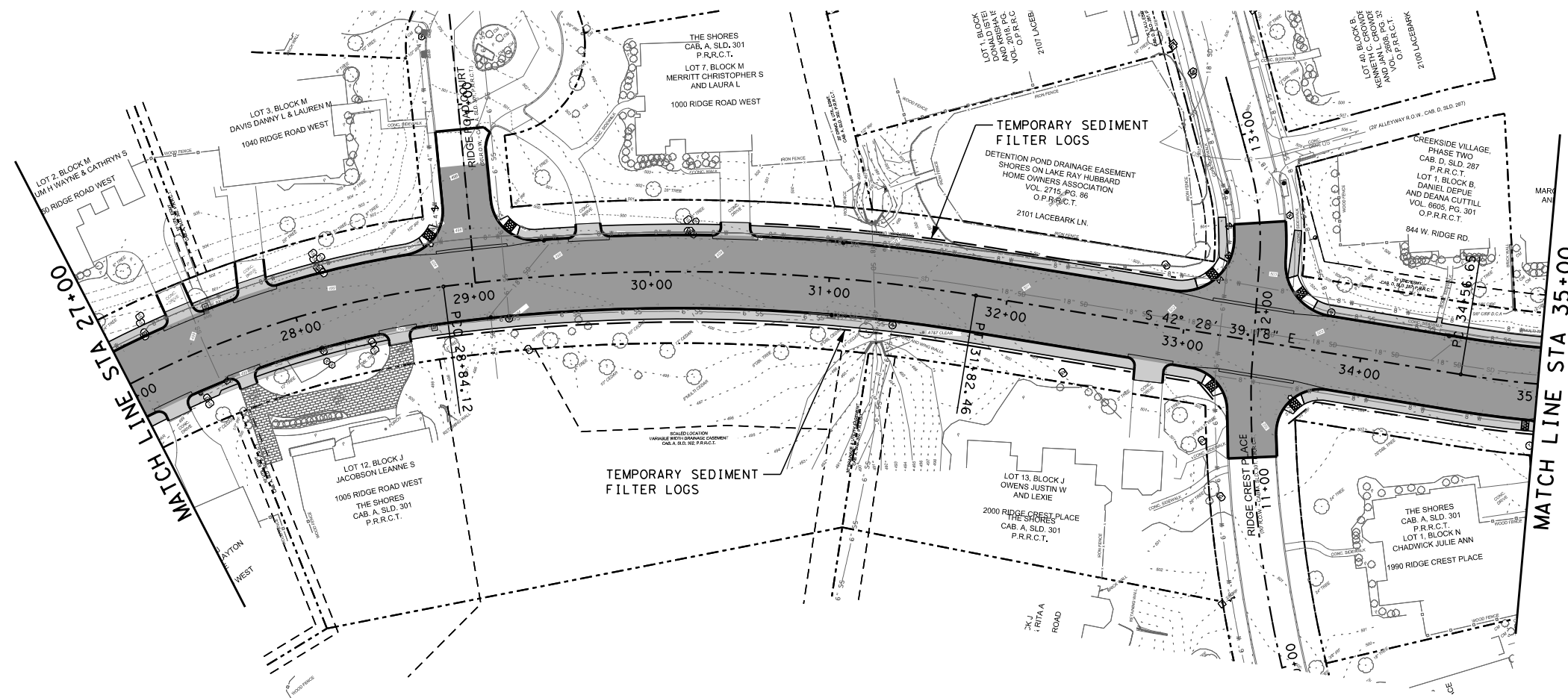
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
SW3P LAYOUT

SHEET 1 OF 3

DSN: DNE PROJECT: RIDGE ROAD WEST	SCALE	SHEET NO.
CK: JMG CIP PROJECT NO: TR2018-003	HORIZ:	82
DRN: PRP DEC PROJECT NO: 5159-01	VERT:	
CK: JMG DATE: 10/17/2023		

USER: 10/17/2023 2:09:49 PM
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3/30/2021			
REV NO	DATE	DESCRIPTION	BY



CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

RIDGE ROAD WEST
SW3P LAYOUT

SHEET 2 OF 3

DSN: DWE	PROJECT: RIDGE ROAD WEST		
CK: JMG	CIP PROJECT NO: TR2018-003	SCALE	
DRN: PRP	DEC PROJECT NO: 5159-01	HORIZ:	SHE NO
CK: JMG	DATE: 10/17/2023	VERT:	8

