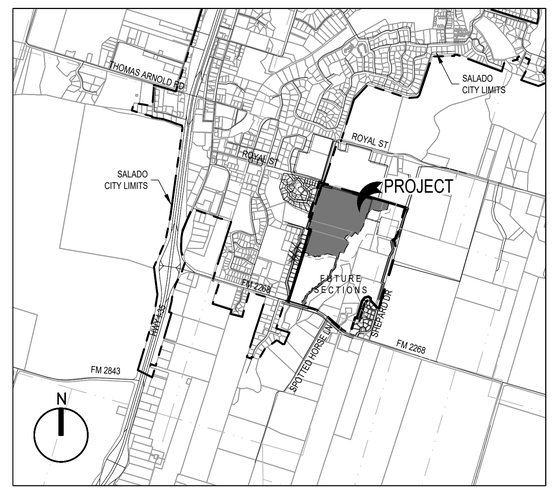
CONSTRUCTION DRAWINGS
STREET, DRAINAGE, AND UTILITY IMPROVEMENTS
FOR
SALADO SANCTUARY
PHASE I

PROPOSED UTILITIES TO BE PROVIDED BY:

UTILITIES	PROVIDER	CONTACT INFO.
ELECTRICAL	ONCORE	GREG WARD 317 N. 2ND ST. KILLEEN, TX 76541 OFF: (254) 258-8101
WATER	SALADO WATER SUPPLY CORP.	RICKY PRESTON 410 SALADO PLAZA DR SALADAO, TEXAS 76571 OFF: (254) 947-5425
WASTEWATER	VILLAGE OF SALADO	
COMMUNICATIONS	CENTURYLINK	



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N.T.S.

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STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-3-2019

PRELIMINARY

PREPARATION: JUNE 2019

Rev.	Date	Description	Apv.

811
Know what's below. Call before you dig.

CIVIL ENGINEER & SURVEYOR:

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(512) 868-2244 OFF
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OWNER:

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MATKINHOOVER ENGINEERING & SURVEYING

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

JOB NO.	3020.01
DATE	06/03/2019
DESIGNED	JF
CHECKED	GDK
SHEET	G-001

Date: Jul 23, 2019, 2:25pm User ID: msilva

VILLAGE OF SALADO GENERAL PLAN NOTES:

1. THESE CONSTRUCTION PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE VILLAGE OF SALADO / OR THE SANCTUARY DESIGN STANDARDS, AS APPLICABLE , STATE AND FEDERAL REQUIREMENTS AND CODES.

2. THIS PROJECT IS SUBJECT TO ALL VILLAGE OF SALADO STANDARD SPECIFICATIONS OR THE SANCTUARY DESIGN STANDARDS, AS APPLICABLE AND DETAILS IN EFFECT AT THE TIME OF CONSTRUCTION NOTICE TO PROCEED FOR THIS PROJECT BY THE VILLAGE OF SALADO.

3. THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.

4. WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.

5. WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.

6. PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY THE CONTRACTOR TO 200 PSI FOR 2 HOURS.

7. PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.

8. PUBLIC WATER SYSTEM MAINS SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 150 PSI FOR 2 HOURS.

9. ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.

10. LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED.

11. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE VILLAGE OF SALADO STANDARDS AND SPECIFICATIONS.

12. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF THE TCEQ AND THE VILLAGE OF SALADO.

13. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADWAYS.

14. ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.

15. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE VILLAGE OF SALADO PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.
THIS BOND SHALL BE ESTABLISHED FOR 1 YEAR IN THE AMOUNT OF 25% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE VILLAGE OF SALADO FORMAT.

16. RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE VILLAGE OF SALADO BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON MYLAR OR ON TIFF OR PDF DISK (300DPI). IF A DISK IS SUBMITTED, A BOND SET SHALL BE INCLUDED WITH THE DISK.

17. TCEQ NOI OR SMALL SITE NOTICE, TCEQ APPROVED SWPPP, TCEP WPAP APPROVAL LETTER, PROOF OF WPAP COUNTY RECORDING SHALL BE SUBMITTED TO THE VILLAGE OF SALADO ELECTRONICALLY PRIOR TO THE START OF CONSTRUCTION. COMPLIANCE REPORTS WILL NEED TO BE SUBMITTED TO THE VILLAGE OF SALADO WITHIN 2 DAYS OF INSPECTION. TCEQ NOT OR NOC SHALL BE TO THE VILLAGE OF SALADO WITH PROJECT RECORD DRAWINGS.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SANCTUARY STANDARDS OR THE SANCTUARY DESIGN STANDARDS AS APPLICABLE CONSTRUCTION SPECIFICATIONS AND DETAILS.

2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

4. THE CONTRACTOR SHALL CLEAN ALL STORM DRAIN STRUCTURES, PIPES, CULVERTS, ETC. PRIOR TO THE FINAL PAYMENT.

5. THE CONTRACTOR SHALL GIVE THE VILLAGE OF SALADO 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION 254-947-5060.

6. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. RE-VEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF RE-VEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION, UNLESS OTHERWISE REQUESTED BY THE PROPERTY OWNER.

7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONVEY A PRE-CONSTRUCTION CONFERENCE BETWEEN THE VILLAGE OF SALADO, HIMSELF THE ENGINEER, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES, AND ANY OTHER ENTITY THE VILLAGE OF SALADO OR ENGINEER MAY REQUIRE.

8. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE VILLAGE OF SALADO WITH ACCURATE "AS-BUILT" DRAWINGS FOLLOWING THE COMPLETION OF CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE UTILITIES DEPARTMENT PRIOR TO FINAL ACCEPTANCE.

9. THE VILLAGE OF SALADO SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN FILED AND RECORDED.

10. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROJECT PERMITS FROM THE APPROPRIATE AUTHORITIES.

11. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 30" BELOW SUB-GRADE.

12. WHERE DISCREPANCIES ARISE BETWEEN PLANS AND SPECIFICATIONS, PLANS GOVERN UNLESS OTHERWISE NOTED.

13. TRAFFIC IMPACT ANALYSIS (TIA) REQUIREMENTS NOT APPLICABLE FOR THIS PLAN.

14. NO PORTION OF ANY LOT OF THIS SUBDIVISION IS WITHIN A SPECIAL FLOOD HAZARD ZONE "A" AS DELINEATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR BELL COUNTY, TEXAS ON PANEL NUMBER 48027C0525E, AND 48027C0510E, DATED EFFECTIVE SEPTEMBER 26, 2008 AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

15. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE THE IMPACT OF CONSTRUCTION SHALL BE INSTALLED PRIOR TO ADDING IMPERVIOUS COVER.

16. THE BASIS OF BEARING (BENCHMARK) WAS ESTABLISHED USING THE TRIMBLE VRS NETWORK, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, 4203, US SURVEY FOOT, GRID.

SEQUENCE OF CONSTRUCTION

1. CALL ALL AFFECTED PARTIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE AND SECURE ALL REQUIRED PERMITS.

2. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY THE VILLAGE OF SALADO WHEN INSTALLED.

3. ROUGH GRADE THE SITE TO WITHIN 0.10 FEET OF FINAL GRADES.

4. INSTALL ALL UNDERGROUND UTILITIES.

5. INSURE THAT ALL UNDERGROUND UTILITIES ARE COMPLETE. LAY FIRST COURSE OF BASE MATERIAL.

6. COMPLETE ALL CONSTRUCTION AND INSTALLATIONS WITHIN THE SITE.

7. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

8. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL AND TREE PROTECTION.

9. COMPLETE ANY NECESSARY FINAL DRESS-UP.

PAVING GENERAL CONSTRUCTION NOTES

1. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO HIS OPERATIONS. SEE UTILITY PLANS FOR LOCATION OF WATER MAINS, WASTEWATER MAINS, AND UTILITY CROSSINGS.

2. ALL FILL SHALL BE COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT. DENSITY TEST RESULTS WILL BE REQUIRED AT THE PRE-CONSTRUCTION MEETING FOR ALL FILL AREAS IN EXCESS OF 2.0' UNDERNEATH PROPOSED PAVING.

3. REFER TO SITE DETAILS SHEETS FOR PAVEMENT SECTIONS AND CONSTRUCTION DETAILS.

4. ALL PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS PREPARED BY THE GEOTECHNICAL ENGINEER. REFER TO GEOTECHNICAL REPORT BY TERRACON CONSULTANTS, INC., DATED FEBRUARY 24, 2016.

EROSION CONTROL NOTES:

1. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASHOUT PIT AND CONSTRUCTION EQUIPMENT STORAGE AREA ARE TO BE DETERMINED IN THE FIELD. THEY ARE SHOWN ON THIS PLAN FOR ILLUSTRATIVE PURPOSES ONLY. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AROUND CONCRETE WASH PIT AND MATERIAL STORAGE AREA BASED ON FINAL LOCATION AND SIZE.

2. CONTRACTOR MAY MODIFY STORM WATER CONTROLS TO ACHIEVE THE DESIRED INTENT. ANY CHANGES ARE TO BE NOTED, SIGNED AND DATED BY THE RESPONSIBLE PARTY IN THE TPDES BOOK. (NO SEPARATE PAY ITEM)

3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM WATER CONTROLS.

4. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY QUESTIONS REGARDING THE INTENT OF THIS PLAN.

5. IF REQUIRED, CONTRACTOR SHALL FILE NOI'S (NOTICE OF INTENT) AND NOT'S (NOTICE OF TERMINATION) FOR THIS PROJECT. REFER TO TPDES FOR PROPER POSTING REQUIREMENTS AND DOCUMENTS.

6. CONTRACTOR SHALL PERFORM INSPECTIONS OF CONTROLS ONCE EVERY FOURTEEN (14) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER OR AS AN ALTERNATIVE METHOD CONTRACTOR SHALL PERFORM INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS.

7. A COPY OF THIS PLAN, TPDES BOOK AND INSPECTION REPORTS MUST REMAIN AT THE CONSTRUCTION SITE AT ALL TIMES.

8. BARE SOILS SHALL HAVE STABILIZATION MEASURES INSTALLED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.THE ACCUMULATION OF DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND/OR DEMOLITION SHALL BE CONTAINED ON-SITE AND REMOVED IN A TIMELY MANNER.

9. ALL DEBRIS AND CONSTRUCTION MATERIALS SHALL BE REMOVED PRIOR TO FINAL INSPECTION AND THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE CITY RETAINS THE RIGHT TO REQUIRE THE PLACEMENT OF A COMMERCIAL DUMPSTER FOR COLLECTION OF DEBRIS IF THE SITE IS NOT PROPERLY MAINTAINED. THE COST ASSOCIATED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER.

10. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM PRODUCTS BASED UPON TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

11. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ADJACENT ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

12. REFER TO THE TPDES BOOK FOR THIS PROJECT FOR MORE INFORMATION/ DETAILS.

13. SCREENING AND LOCATION OF OUTDOOR STORAGE SHALL COMPLY WITH SECTION 5.09 OF THE UDC

TREE PROTECTION NOTES:

1. ALL TREES SHOWN ON THIS PLAN TO BE RETAINED OR REPLANTED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY CHAIN LINK FENCING.

2. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO THESE CONSTRUCTION SPECIFICATIONS.

3. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.

4. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:

   A.A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS.
   A.B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED.
   A.C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT
   A.D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES

5. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:

   A.A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   A.B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   A.C. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE DEVELOPMENT MANAGER TO DISCUSS ALTERNATIVES.

6. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.

7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES (UNDER DRIPLINES) THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH OR GRAVEL TO MINIMIZE SOIL COMPACTION.

8. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND BEHIND THE GRADE CHANGE AREA.

9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.

10. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.

11. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

12. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE.

13. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE

14. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.

15. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS (BEFORE DAMAGE OCCURS). ALL FINISHED PRUNING MUST BE DONE ACCORDING TO THE RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY; REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES, CLASS II OF PRUNING.

16. ALL WOUNDS WHICH OCCUR TO TREE TRUNKS AND LIMBS MUST BE REPAIRED WITHIN 24 HOURS OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK AND THOROUGHLY SEALED WITH AN ACCEPTABLE TREE WOUND DRESSING. THIS SPECIFICALLY APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES AND EQUIPMENT, INSTALLATION OF TOWERS AND PIERS, AND STRINGING OF ELECTRICAL LINES.

17. TREES APPROVED FOR REMOVAL OR REPLANTING SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

DIMENSIONAL SITE PLAN NOTES:

1. STORMWATER PERMIT REQUIREMENTS HAVE BEEN MET BY THIS SITE PLAN.

2. ALL DIMENSIONS MUST BE VERIFIED ON THE JOB AND THE ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.

3. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTION OF THE PROJECT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL HORIZONTAL CONTROL PER THE CONSTRUCTION DRAWINGS (i.e. NO CONSTRUCTION STAKING WILL BE PROVIDED UNDER THIS CONTRACT.)

5. ALL DIMENSIONS AND POINTS ON THE ROADWAY SYSTEM ARE TO THE BACK OF CURB OR EDGE OF PAVEMENT.

6. ALL STRIPING SHALL BE 4" WIDE, TYPE 1 THERMO PLASTIC PAINT, WITH UNDER-SEAL MEETING THE REQUIREMENTS OF TXDOT ITEM 666.

7. ALL DIMENSIONS ARE TO BACK OF CURB OR CENTER OF STRIPE UNLESS OTHERWISE NOTED.

8. REFER TO FINAL PLAT FOR PROPERTY CORNER LOCATIONS.

9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & COORDINATES PRIOR TO CONSTRUCTION. CONTACT ENGINEER OF RECORD IF CONFLICTS EXIST.

10. ALL COORDINATES ARE NAD83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, 4203, U.S SURVEY FOOT, GRID.

11. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL HARDSCAPE REQUIREMENTS BEYOND CURBED AREAS.

GRADING NOTES:

1. ALL GRADES AND CONTOURS SHOWN ARE FINAL, TOP OF FINISH SURFACE ELEVATIONS, UNLESS OTHERWISE NOTED.

2. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR TO TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.

3. CONTRACTOR TO OBTAIN GRADES SHOWN HEREON ± ONE-TENTH (0.10) FOOT.

4. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

5. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 2.0% UNLESS OTHERWISE NOTED.

6. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION).

7. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGES DONE TO EXISTING BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS.

8. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.

9. TREE PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT PLANS.

10. CONTRACTOR SHALL GRADE AREAS OUTSIDE OF PARKING LOTS TO MATCH EXISTING SITE GRADES BASED ON MAXIMUM SLOPES OF 3:1 UNLESS OTHERWISE NOTED.

11. ALL EXCAVATION IS UNCLASSIFIED.

12. SITE AREAS REQUIRING FILL PLACEMENT SHALL BE SCARIFIED AND MOISTURE ADJUSTED TO WITHIN ± 3% OF OPTIMUM MOISTURE CONTENT. COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY.

13. CONTRACTOR TO REFERENCE GEOTECHNICAL REPORT AS PROVIDED BY OWNER.

14. CONTRACTOR IS REQUIRED TO HAVE AN TCEQ TPDES PERMIT ISSUED BY TCEQ. A COPY OF THE PERMIT SHALL BE POSTED ON THE JOBSITE PER TCEQ REQUIREMENTS.

15. CONTRACTOR SHALL HYDRO MULCH ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE PLANS AND GUARANTEE COVERAGE ACCORDING TO CONSTRUCTION SPECIFICATIONS.

16. CONTRACTOR SHALL REPLACE ANY EROSION CONTROL MATERIALS AT THE END OF EACH WORK DAY IF SAID MATERIALS WERE REMOVED DURING THE DAY FOR EASE OF CONSTRUCTION OR ACCESS.

FIRE PROTECTION NOTES

PER THE MASTER DEVELOPMENT AGREEMENT BETWEEN THE VILLAGE OF SALADO AND SANCTUARY, DATED 11/24/2015, EXHIBIT 'C' THE FOLLOWING APPLIES;

1. PRIMARY ACCESS (1 SIDE) SHALL HAVE A 24 FEET CLEAR ZONE (FACADE TO FACADE DIMENSION, OR FACE OF CURB TO FACE OF CURB), LEVEL FOR FIRE ACCESS. SECONDARY ACCESS (2 SIDE) SHALL HAVE THE REQUIRED 12' MINIMUM ACCESS WIDTH; PAVED OR REINFORCED EARTH.

2. ALL COMMERCIAL, MIXED USE AND PUBLIC USE BUILDINGS SHALL HAVE SPRINKLERS; IF BUILDINGS DO NOT INSTALL SPRINKLERS, THEN 26 FEET CLEAR ZONE BEGINNING 15 FEET FROM THE BUILDING FACADE WILL BE REQUIRED TO ACCOMMODATE LADDER TRUCKS.

3. THE SANCTUARY MAY USE A "RED" PAVING MATERIAL TO ACHIEVE THE FIRE LANE DESIGNATION INCLUDING CONCRETE OR BRICK PAVERS.

4. A FIRE DEPARTMENT CONNECTION (FDC) FOR THE FIRE SPRINKLER SYSTEM SHALL BE PROVIDED PER THE 2012 IFC. A SIGN ABOVE THE FIRE DEPARTMENT CONNECTION STATING "FDC"SHALL BE PROVIDED. THE SIGN SHALL BE 7 FOOT ABOVE GRADE TO THE BOTTOM OF THE SIGN. THE SIGN SHALL HAVE REFLECTIVE WHITE LETTERS UPON A REFLECTIVE RED BACKGROUND. THE LETTERING SHALL BE MINIMUM 2 INCH WIDE AND MINIMUM 6 INCHES IN HEIGHT. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED AS APPROVED BY THE FIRE CODE OFFICIAL. TWO RED STREET LANE REFLECTORS (STIMSONITE MODEL 88AB OR SIMILAR) SHALL BE INSTALLED SIX INCHES FROM CENTERLINE OF THE FIRE APPARATUS ACCESS ROADWAY ON THE SIDE CLOSEST TO THE FDC. MARKERS SHALL BE PARALLEL TO THE FDC HAVING THE REFLECTIVE ENDS OF THE STREET MARKERS FACING THE DIRECTOR OF TRAFFIC. 2012 IFC 912.7.

5. FIRE DEPARTMENT CONNECTION (FDC) LOCATION: PER THE 2012 IFC SECTION 912.2: WITH RESPECT TO HYDRANTS, DRIVEWAYS, BUILDINGS AND LANDSCAPING, FIRE DEPARTMENT CONNECTIONS SHALL BE SO LOCATED THAT FIRE APPARATUS AND HOSE CONNECTIONS TO SUPPLY THE SYSTEM WILL NOT OBSTRUCT ACCESS TO THE BUILDINGS FOR OTHER FIRE APPARATUS. PER THE VILLAGE OF SALADO FIRE DEPARTMENT, THE FDC SHALL BE WITHOUT OBSTRUCTION BY FENCES, BUSHES, TREES, WALLS OR ANY OTHER FIXED OR MOVEABLE OBJECT. A WORKING SPACE OF NOT LESS THAN 36 IN. IN WIDTH, 36 IN. IN DEPTH AND 78 IN. IN HEIGHT SHALL BE PROVIDED AND MAINTAINED IN FRONT OF AND TO THE SIDES OF WALL-MOUNTED FDC'S AND AROUND THE CIRCUMFERENCE OF FREE-STANDING FDC'S. THE FDC SHALL BE WITHIN 100 FT. OF A FIRE HYDRANT. THE FDC SHALL HAVE A SINGLE 5 INCH STORTZ CONNECTION ON A 30 DEGREE DOWNTURN WITH A KNOX BRAND LOCKING CAPS.

6. REMOTE FIRE DEPARTMENT CONNECTIONS (FREE-STANDING) SHALL BE PROVIDED WITH VEHICLE IMPACT PROTECTION PER THE 2012 IFC SECTION 312.

7. A FIRE HYDRANT SHALL BE LOCATED WITHIN 100 FT OF A FIRE DEPARTMENT CONNECTION. FIRE HYDRANTS SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES AND A MAXIMUM OF TWENTY FOUR (24) INCHES TO THE BACK OF THE CURB. THE STEAMER CONNECTION SHALL BE A MINIMUM OF ONE AND ONE-HALF (1.5) FEET AND A MAXIMUM OF TWO (2) FEET ABOVE FINAL GRADE. HYDRANTS SHALL BE KEPT CLEAR OF ALL OBSTACLES WITHIN THREE (3) FEET. ALL FIRE HYDRANTS SHALL BE IDENTIFIED BY THE INSTALLATION OF APPROVED BLUE REFLECTIVE PAVEMENT MARKERS. 2012 IFC 507.5.7 REFLECTIVE PAVEMENT MARKERS.

GENERAL UTILITY NOTES:

1. ALL MAINS SHALL BE FLUSHED, HYDROSTATICALLY TESTED, AND DISINFECTED BY THE CONTRACTOR, AS PROVIDED FOR VILLAGE OF SALADO STANDARD SPECIFICATIONS FOR CONSTRUCTION.

2. FOR PURPOSES OF RECORD DRAWINGS FOR THE VILLAGE OF SALADO, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.

3. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT PRIOR TO CONSTRUCTION.

4. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED AND DISPOSED OF FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.

5. WHEN SEWER MAINS ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH MOST RECENT VERSION OF THE TCEQ TEXAS ADMINISTRATION CODE. IF EITHER UTILITY SHOWN IS SEWER, REFER TO 30 TAC CHAPTER. 290.44(e) AND 217.13 APPENDIX E FOR TCEQ SEPARATION DISTANCE AND PROTECTION REQUIREMENTS. IF SEPARATION CANNOT BE ATTAINED, CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER AND APPLICABLE UTILITY COMPANY FOR ALTERNATE MEASURES. IF SEPARATION CANNOT BE ATTAINED FOR WATERLINE, REFER TO TYPICAL WATER LOWERING DETAIL.

6. ALL TRENCH BACKFILL FOR THIS PROJECT SHALL BE ACCOMPLISHED ACCORDING TO THE UTILITY DETAIL SHEET. NO WATER JETTING WILL BE ALLOWED. OBSERVATION OF TRENCH BACKFILL WILL BE SUPPLEMENTED BY MOISTURE-DENSITY TESTING CONDUCTED AT PERIODIC INTERVALS DURING THE COMPACTION PROCESS. THE CONTRACTOR WILL BE REQUIRED TO MAKE SUITABLE EXCAVATION TO ALLOW ACCESS FOR SUCH TESTING, AND WILL BE REQUIRED TO REMOVE AND REPLACE BACKFILL AS MANY TIMES AS NECESSARY TO ACHIEVE 95% STANDARD PROCTOR.

7. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL CONFORM TO ALL APPLICABLE TCEQ AND VILLAGE OF SALADO WATER STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION(LATEST EDITION), VILLAGE OF SALADO BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THE PROJECT.

8. ALL ITEMS NOT SPECIFICALLY CALLED FOR ON THE PLANS, OR IN THE SPECIFICATIONS, BUT NECESSARY TO REASONABLY CONSTRUCT THE FACILITY OR IMPROVEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS.

9. THE CONTRACTOR SHALL EXCAVATE AROUND EXISTING UTILITIES WHICH INTERSECT THE PROPOSED ALIGNMENT OF THE SERVICES AND NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS, PRIOR TO ANY CONSTRUCTION IN THE AREA.

10. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

11. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENTAL AND/OR UTILITY COMPANIES REGARDING THE LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.

12. CONTRACTOR SHALL USE SPECIAL CARE AND MINIMIZE ANY DISTURBANCE WITHIN EXCAVATING NEAR OR WITHIN THE DRIPLINE OF TREES TO REMAIN.

14. THE ELECTRIC UTILITY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY VEGETATION AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE THE VILLAGE WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES.

15. THE TRENCH EXCAVATION STANDARDS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION ARE HEREBY INCLUDED AND SHALL BE APPLICABLE TO ALL TRENCH EXCAVATION WORK WITHIN THE VILLAGE OF SALADO WHICH EXCEEDS FOUR (4) FEET IN DEPTH

16. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MINIMUM CLASS 200), OR DUCTILE IRON (AWWA C-100, MINIMUM CLASS 200). WATER SERVICES (2 INCHES OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9). PRESSURE REDUCING VALVES SHALL BE INSTALLED ON THE CUSTOMER SIDE OF THE METER FOR EACH WATER SERVICE.

17. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MINIMUM CLASS 150), OR DUCTILE IRON (AWWA C-100, MINIMUM CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241 OR D3034, MAXIMUM DR-26), DUCTILE IRON (AWWA C-100, MINIMUM CLASS 200).

18. UNLESS OTHERWISE ACCEPTED BY THE VILLAGE OF SALADO ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42 INCHES MINIMUM, AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MINIMUM OF 30 INCHES BELOW SUBGRADE, MINIMUM COVER FOR WATER LINES SHALL BE 4 FEET, WATER AND WASTEWATER LINES ARE SHOWN FOR REFERENCE ONLY. REFER TO UTILITY PLAN FOR EXACT LOCATIONS,MINIMUM COVER FOR SANITARY SEWER LINES SHALL BE 36 INCHES.

19. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.

20. FIRE HYDRANTS SHALL BE A MINIMUM OF 3' BEHIND THE FACE OF THE CURB UNLESS OTHERWISE DIRECTED BY THE VILLAGE OF SALADO. FIRE HYDRANTS AND VALVES AS SHOWN ON THESE PLANS ARE SYMBOLIC ONLY.

21. CONTRACTOR SHALL COMPLY WITH TEXAS HOUSE BILL 1569, SEPTEMBER 1, 1989, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES.

22. ALL NEW WATER MAINS SHALL BE FULLY PURGED. DO NOT TEST AGAINST EXISTING VALVES WHEN CONNECTING TO EXISTING MAINS.

23. ANY WATER OR WASTEWATER MAINS TO BE OWNED BY THE VILLAGE OF SALADO (PUBLIC) SHALL BE CONSTRUCTED TO SALADO WATER SUPPLY STANDARDS.

24. ALL 6", 8", 10", & 12" WATER MAINS SHALL BE PVC AWWA C900, DR-14. ALL WATER MAINS USING POLY-WRAPPED DUCTILE IRON PIPE SHALL BE CLASS 51. 16 INCH AND LARGER MAINS SHALL BE STEEL, CONCRETE, OR DUCTILE IRON, CLASS 51.

25. FITTINGS SHALL BE DUCTILE IRON AND MECHANICAL JOINT TYPE, WITH "COR-BLUE" BOLTS AND SHALL BE CLASS 250.

26. ALL WATER MAINS SHALL BE PLUGGED WITH A CAST IRON PLUG (OR EQUAL) AT THE END OF EACH WORKDAY.

27. CONTRACTOR IS REQUIRED TO SECURE STREET CUT PERMIT, ISSUED BY THE VILLAGE OF SALADO, PRIOR TO OPEN CUTTING OR BORING. FAILURE TO ACQUIRE PROPER PERMIT & PERMISSION MAY RESULT IN A FINE OF $500/DAY TO THE CONTRACTOR PERFORMING THE WORK.

28. WHEN EXISTING GRADES ARE LOWER THAN PROPOSED MAINS, THE FILL AREA OVER THE PIPE SHALL BE FILLED AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY TO THE PROPOSED FINISHED GRADE PRIOR TO INSTALLING ANY MAIN.

29. UNLESS OTHERWISE NOTED, WATER METER BOXES SHALL BE LOCATED AT A POINT 3 FEET BEHIND THE FACE OF THE ADJACENT OR PROPOSED FACE OF CURB.

30. ALL CLEANING WYES TO BE REMOVED UPON COMPLETION OF SYSTEM CLEANING.

31. MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND OTHER UTILITIES SHALL BE 2 FEET.

32. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED WORK UTILIZING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER FOR THIS PROJECT. A TRENCH SAFETY PLAN SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING.

33. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SALADO WATER SUPPLY STANDARD SPECIFICATIONS AND DETAILS, EXCEPT WHERE MODIFIED IN THESE PLANS OR IN THE SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS.

34. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY SEWER FACILITIES TO AFFECTED PROPERTY OWNERS, IF NECESSARY. NOT A SEPARATE PAY ITEM.

35. THE LOCATION OF ALL SANITARY SEWER, WATER, STORM SEWER, TELEPHONE, GAS, ELECTRIC, CABLE TELEVISION UTILITIES, DRIVEWAYS, RETAINING WALLS, STRUCTURES, ETC., WHICH MAY BE SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT SIZE, LOCATION, ELEVATION, AND CONFIGURATION OF ALL UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES AND PROPERTY OWNERS TO MARK AND LOCATE ALL UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. SUCH VERIFICATION SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

36. EXISTING VERTICAL DEFLECTIONS AND PIPE SLOPES SHOWN ON THE PLANS WERE OBTAINED FROM RECORD DRAWINGS AND HAVE NOT BEEN FIELD VERIFIED. SOME PIPE SLOPES WERE ADJUSTED TO MATCH SURVEYED MANHOLE FLOW LINES. RIM ELEVATIONS, FLOW LINES AND HORIZONTAL LOCATIONS OF EXISTING MANHOLES WERE DETERMINED FROM FIELD SURVEY.

37. THE PROPOSED SANITARY SEWER LINES AT TIMES WILL BE LAID CLOSE TO OTHER EXISTING UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, GAS MAINS, TELEPHONE CABLES, SANITARY SEWER LINES, WATER LINES, TU CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND DURING CONSTRUCTION. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES DONE TO SUCH EXISTING FACILITIES AS A RESULT OF THE CONTRACTOR'S OPERATIONS.

38. CONTRACTOR SHALL VERIFY THAT ALL CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE FOR SANITARY SEWER ONLY. CONTRACTOR SHALL NOTIFY VILLAGE OF SALADO OF ALL KNOWN ILLICIT CONNECTIONS.

39. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER AND SEWER CONNECTIONS TO ALL HOMES AND BUSINESSES IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF INTERRUPTIONS IN SERVICE FOR SEWER SERVICES TO BE REINSTALLED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT.

40. THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES TO PROPERTIES, HOMES, AND BASEMENTS FROM BACKUP, WHICH MAY RESULT DURING THE INSTALLATION OF THE NEW PIPE AND/OR ABANDONMENT OF EXISTING PIPE. THE CONTRACTOR WILL BE ALLOWED TO OPEN CLEAN OUTS WHERE AVAILABLE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CLEAN UP ASSOCIATED WITH OPENING CLEAN OUTS.

41. CONTRACTOR SHALL SAWCUT EXISTING CURB AND GUTTER, PAVEMENT, DRIVEWAYS, AND SIDEWALKS AT AREAS WHERE PAVEMENT OR CONCRETE IS TO BE REMOVED. SAWCUTS WILL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR LINEAR FEET OF SANITARY SEWER.

42. CONTRACTOR SHALL PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS THAT ARE NOT DESIGNATED FOR REMOVAL. REMOVAL AND REPLACEMENT OF THESE ITEMS SHALL BE AS DESIGNATED. AT LOCATIONS WHERE THE CURB AND GUTTER ARE TO BE REPLACED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE RE-ESTABLISHMENT OF EXISTING STREET AND GUTTER GRADES. ESTABLISHMENT OF GRADES SHALL BE PERFORMED PRIOR TO CONSTRUCTION AND IS NOT A SEPARATE PAY ITEM, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT PRICE.

43. NEW MANHOLES SHALL BE CONSTRUCTED SUCH THAT THE MANHOLE COVER IS AT FINISHED SURFACE GRADE, OR AS NOTED ON THE PLANS. CONCRETE COLLARS AND WATERTIGHT MANHOLE INSERTS SHALL BE PROVIDED WITH ALL NEW MANHOLES, AS REQUIRED FOR THIS PROJECT.

44. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION.

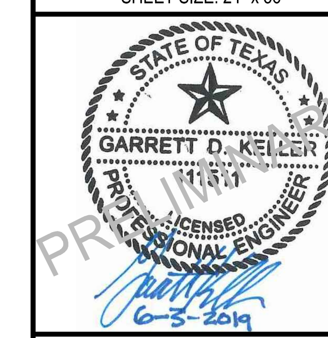
45. THE CONTRACTOR SHALL CLEANUP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR TO REPLACEMENT OR REHABILITATION OF THE PIPE.

46. ALL TRENCH BACK FILL SHALL BE PER DETAIL ON UTILITY DETAIL SHEET UNLESS OTHERWISE NOTED.

47. AT ALL LOCATIONS WHERE SDR-26 PVC PIPE IS SPECIFIED BENEATH WATER LINES, IT IS TO BE BACK FILLED WITH CEMENT STABILIZED SAND AS REQUIRED BY T.C.E.Q. REGULATION 217.53 (d) (3) FOR A DISTANCE OF 10' EITHER SIDE OF THE WATER LINE. AT OTHER LOCATIONS WHERE SDR-26 IS SPECIFIED, IT IS TO BE BACK FILLED AS NOTED.

48. ALL STORM SEWER LINES ARE TO BE CLASS III R.C.P. UNLESS OTHERWISE NOTED.

SHEET SIZE: 24" x 36"



This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

CIVIL GENERAL NOTES

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

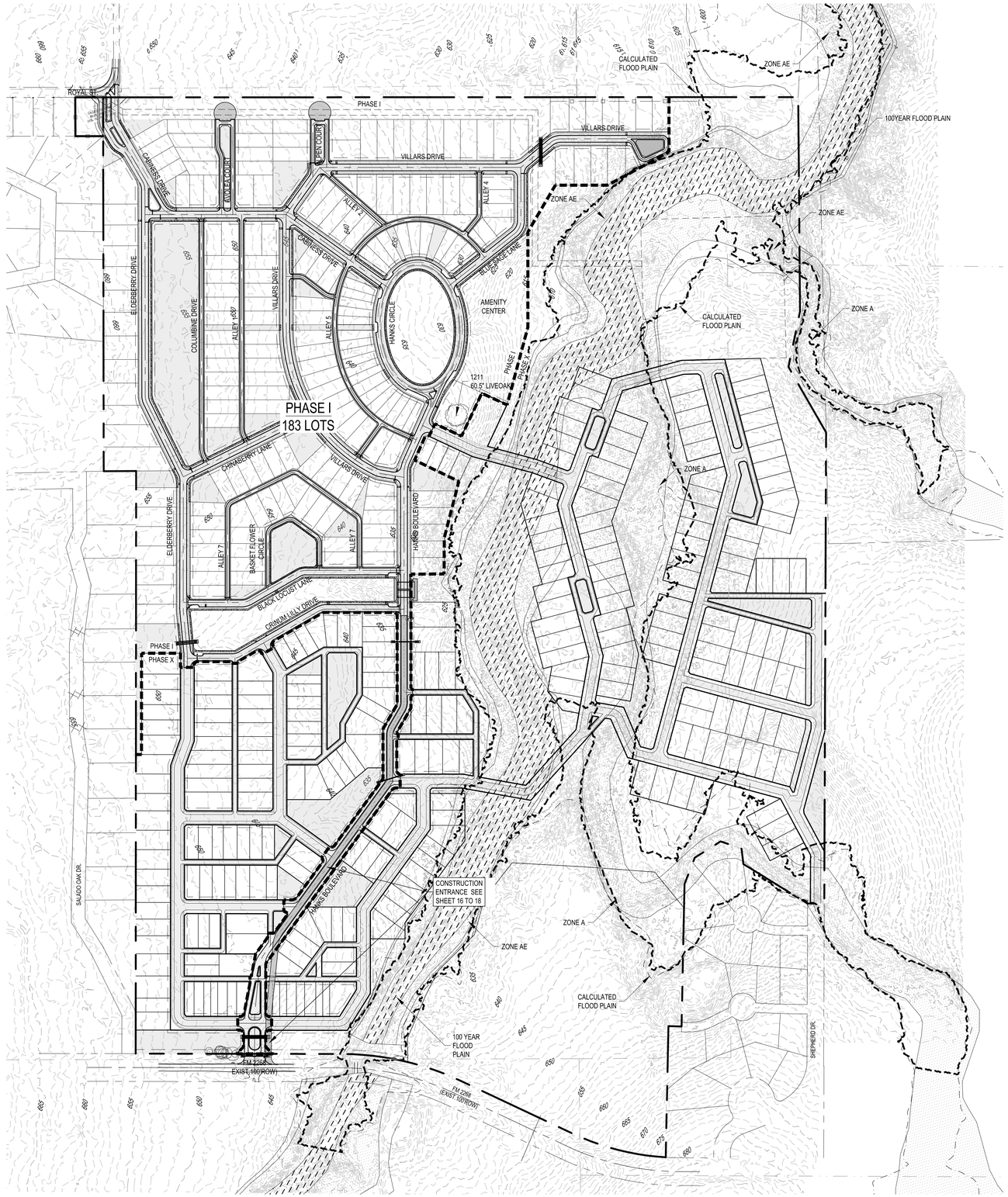
C-001

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	02 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\02 302000 CIVIL GENERAL NOTES C-001.dwg

Date: Jul 16, 2019, 4:20pm User ID: mstva

SUBDIVIDER:	SURVEYOR:	ENGINEER:
SANCTUARY SALADO INVESTMENTS II, LLC C/O ROBERT L. SULASKI P.O. BOX 1346 MONTREAT, NC 28757	KYLE L. PRESSLER, R.P.L.S. MATKIN HOOVER ENGINEERING AND SURVEYING 8 SPENCER ROAD, SUITE 300 BOERNE, TX 78006	GARRETT D. KELLER, P.E. MATKIN HOOVER ENGINEERING AND SURVEYING 3303 SHELL RD, SUITE 100 GEORGETOWN, TX 78628



PHASE 1 LAND USE SUMMARY
PROPERTY ACREAGE: 66.21
LOT COUNT: 183
DENSITY: 183 (LOTS) / 66.21 (ACRES) = 2.76 EDU/ACRE
LENGTH OF ROAD CENTERLINE [L.F.]: 21,275'

NOTES:
1. DEVELOPMENT AND DESIGN STANDARDS FOR SANCTUARY MASTER PLANNED COMMUNITY, ORDINANCE NO. 2016.09, APRIL 7, 2016 AND MASTER DEVELOPMENT AGREEMENT BETWEEN VILLAGE OF SALADO, TEXAS AND SANCTUARY PROPERTY OWNERS (SANCTUARY COMMUNITY), NOVEMBER 25, 2015 AND WASTEWATER SERVICE AGREEMENT BETWEEN THE VILLAGE OF SALADO, TEXAS AND SANCTUARY DEVELOPMENT COMPANY, LLC, NOVEMBER 25, 2015.
2. ALL PROPOSED ROADS WITHIN THE DEVELOPMENT SHALL BE PRIVATE AND CLASSIFIED AS LOCAL RURAL ROADS AND HAVE BEEN DESIGNED FOR A 25 MPH SPEED LIMIT.
3. A PORTION OF THIS SUBDIVISION US WITHIN A SPECIAL FLOOD HAZARD ZONE "A" AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP, (FLOOD INSURANCE RATE MAP), COMMUNITY PANEL NO. 48027C0510E & 48027C0525E DATED SEPTEMBER 26, 2008.
4. ROAD NAMES HAVE NOT BEEN SUBMITTED TO 911 ADDRESSING AND ARE PRELIMINARY AND FOR REVIEW ONLY. ANY AND ALL STREET NAMES SUBJECT TO CHANGE.
5. UTILITY PROVIDERS FOR THIS DEVELOPMENT ARE; WATER: SALADO WATER SUPPLY CORP., ELECTRIC: ONCORE, COMMUNICATION: CENTURYLINK, SANITARY SEWER: VILLAGE OF SALADO.
6. PHASE BOUNDARIES AND LOT COUNTS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE. THERE ARE CURRENTLY PHASE 1 AND FUTURE PHASES PROPOSED WITH THE FOLLOWING ATTRIBUTES:

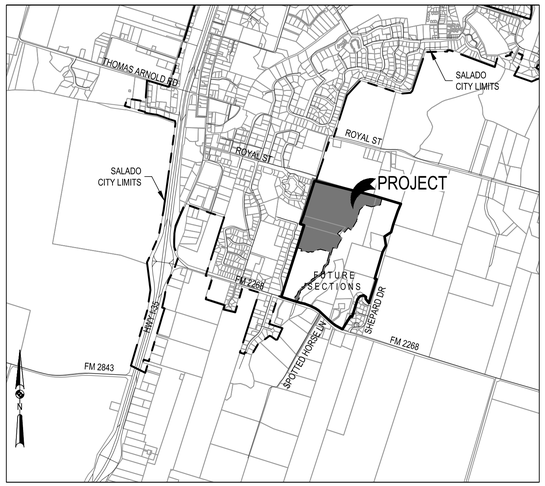
PHASE	ACREAGE	LOTS	LF OF ROAD
1	66.21	183	21,275'
FUTURE	128.64	258	---
TOTAL	194.85	441	---

LEGEND

PROPERTY BOUNDARY
EXISTING 5' CONTOUR
EXISTING 1' CONTOUR
PHASE BOUNDARY
H.O.A. LOTS - SEE PLAT FOR LAND USE

ABBREVIATIONS

AVE	AVENUE
BLVD	BOULEVARD
V.O.S.	VILLAGE OF SALADO
O.P.R.B.C.T.	OFFICIAL PUBLIC RECORDS, BELL COUNTY, TEXAS
R.O.W.	RIGHT OF WAY
RXX'	RADIUS
TYP.	TYPICAL



LOCATION MAP
NTS

NOTE:
HANKS BLVD STA 1+00 TO 19+07.44:
FUTURE DESIGN FOR HANKS BLVD SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCAVATE/EMBANK ROAD TO ACHIVE FUTURE SUBGRADE ELEVATION AND INSTALL A TEMPORARY ALL-WEATHER ACCESS ROAD 20FT IN WIDTH FALLOWING THE ROAD ALIGNMENT AS SHOWN. A 1.5 FT DEEP BARDITCH AND MULTIPLE TEMPORARY CULVERTS WILL BE REQUIRED. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.

N
SCALE: 1"=200'
0 100' 200' 300' 400'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

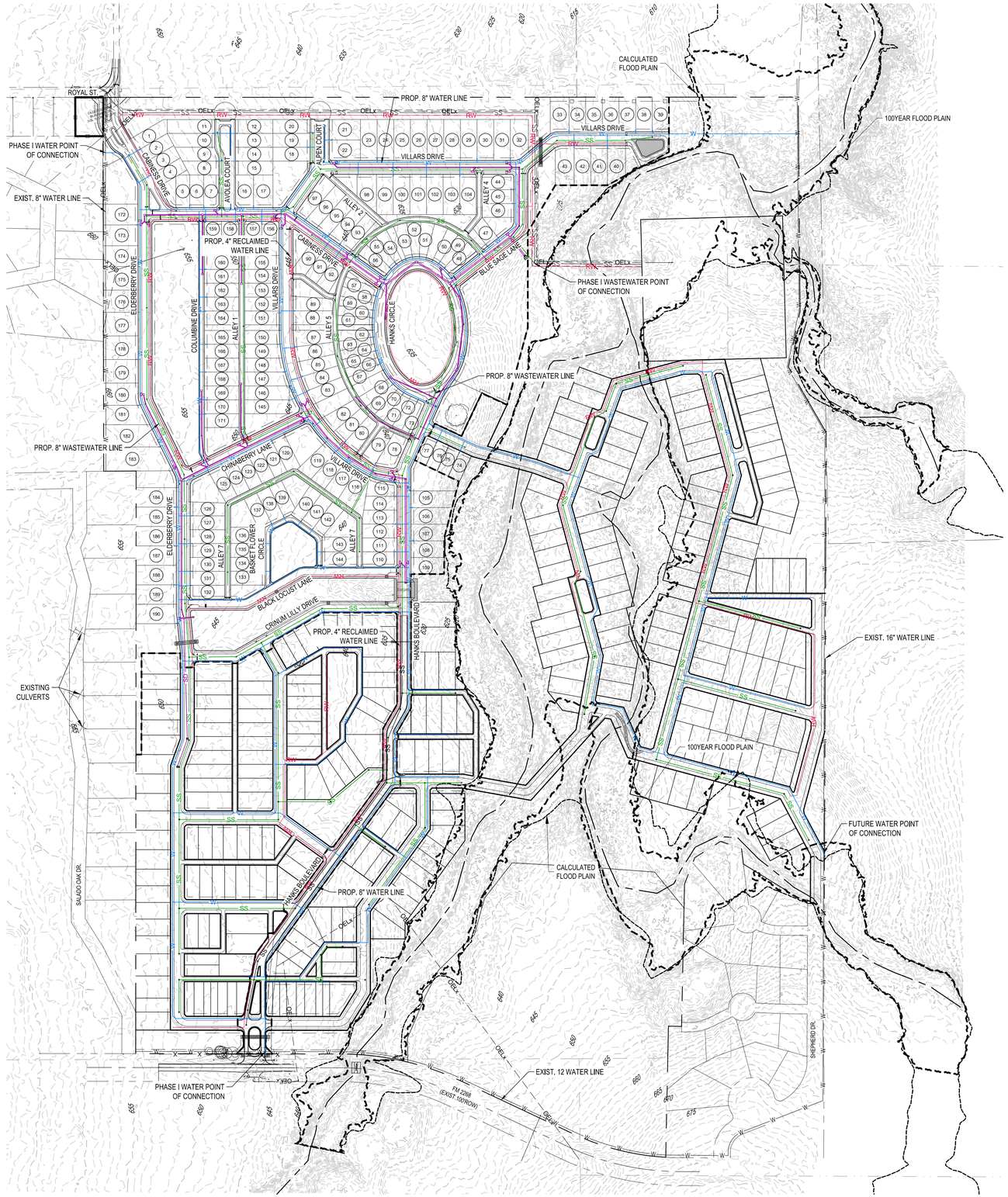
100% DESIGN - BID REVIEW SET

MASTER DEVELOPMENT PLAN
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CS101

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	08 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\IC\08 MASTER DEVELOPMENT PLAN.dwg



LEGEND

PROPERTY BOUNDARY	
EXISTING 5' CONTOUR	600
EXISTING 1' CONTOUR	599
PROPOSED 8" WATER LINE	W
PROPOSED 8" SEWER LINE	SS S
PROPOSED 4" RECLAIMED WATER LINE	RW
PROPOSED GAS MAIN	G
PROPOSED DUAL WATER SERVICE	W W
PROPOSED SINGLE WATER SERVICE	W
PHASE BOUNDARY	
DENOTES UTILITY CROSSING. SEE [09. CU502] FOR UTILITY CROSSING DETAIL	
PROPOSED FIRE HYDRANT	
EXISTING WATER LINE	Wx
EXISTING SEWER LINE	SSx
EXISTING FIRE HYDRANT	
EXISTING GATE VALVE	
PROPOSED SEWER LATERALS	S
PROPOSED MANHOLE	S
EXISTING MANHOLE	
PROPOSED CLEANOUT	C

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

PROPOSED SANITARY SEWER	SS
PROPOSED RECLAIMED WATER	RW
PROPOSED WATER	W
PROPOSED STORM SEWER	

N

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100% DESIGN - BID REVIEW SET

OVERALL UTILITY PLAN

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU101

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	09 OF 100

Date: Jul 16, 2019, 4:29pm User ID: mstva
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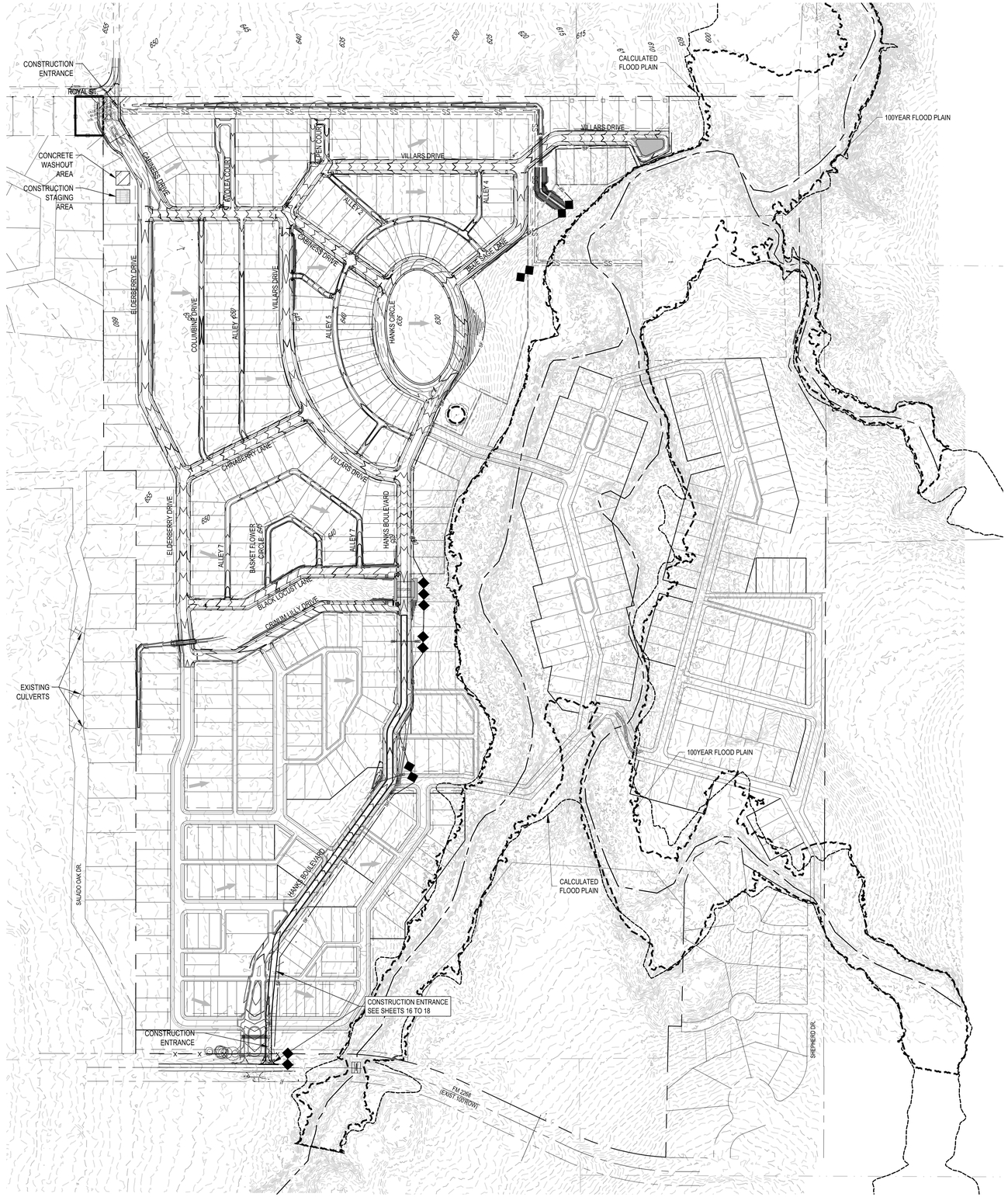

LEGEND

- PROPERTY BOUNDARY
- EXISTING 1' CONTOURS (1141)
- EXISTING 5' CONTOURS (1140)
- PROPOSED 1' CONTOURS (1441)
- PROPOSED 5' CONTOURS (1440)
- DRAINAGE EASEMENT
- FLOW ARROW
- ROCK BERM
- SILT FENCE (SF)
- STABILIZED CONSTRUCTION ENTRANCE
- CONSTRUCTION STAGING AREA
- CONCRETE WASHOUT AREA
- PROTECTIVE TREE FENCE

NOTE:
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SCALE: 1"=200'
0 100' 200' 300' 400'

SHEET SIZE: 24" x 36"

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100% DESIGN - BID REVIEW SET

EROSION AND SEDIMENTATION CONTROL PLAN

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CG801

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	10 OF 100

Date: Jul 17, 2019, 8:40am User ID: mstva
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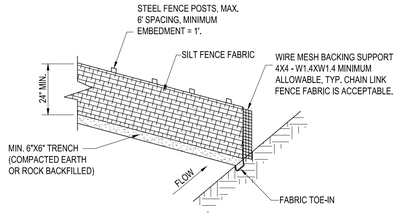
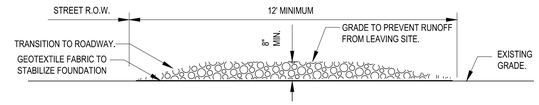


SILT FENCE NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE A MIN. OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.

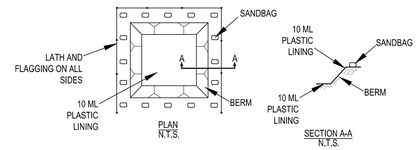
1 SILT FENCE DETAIL
N.T.S.



STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE SHALL BE 4" - 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
6. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
7. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

2 STABILIZED CONSTRUCTION ENTRANCE (AS NEEDED)
N.T.S.



CONCRETE WASHOUT NOTES:

1. THE LINED WASHOUT PIT SHALL BE SUFFICIENTLY LARGE ENOUGH TO HOLD EXPECTED VOLUME OF WASHOUT MATERIAL.
2. WHEN FACILITY IS NO LONGER REQUIRED, HARDENED CONCRETE SHALL PROPERLY REMOVED AND DISPOSED OF.
3. CONTRACTOR TO BACKFIELD PIT UPON REMOVAL OF LINING.

SAND BAG NOTES:

1. THE SAND BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD2. MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
2. THE BAG LENGTH SHOULD BE 24 TO 30 INCHES, WIDTH SHOULD BE 16 TO 18 INCHES AND THICKNESS SHOULD BE 6 TO 8 INCHES.
3. SANDBAGS SHOULD BE FILLED WITH COARSE GRADE SAND, FREE FROM DELETERIOUS MATERIAL. ALL SAND SHOULD PASS THROUGH A NO. 10 SIEVE. THE FILLED BAG SHOULD HAVE AN APPROXIMATE WEIGHT OF 40 POUNDS.
4. OUTLET PIPE SHOULD BE SCHEDULE 40 OR STRONGER POLYVINYL CHLORIDE (PVC) HAVING A NOMINAL INTERNAL DIAMETER OF 4 INCHES.

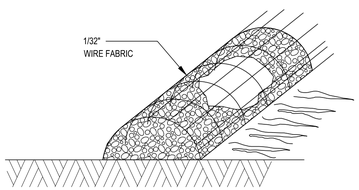
3 IN-GROUND CONCRETE WASHOUT PIT
N.T.S.

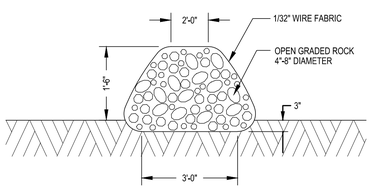
CONTRACTOR/BUILDERS RESPONSIBILITY:

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO ANY LAND DISTURBANCE TO PREVENT EXCESSIVE SEDIMENT FROM LEAVING THE SITE.
2. CONTACT A T.C.E.Q. INSPECTOR TO ANSWER ANY QUESTIONS REGARDING SITE PLAN AND TO REVIEW A COMPLETED WORKSHEET.
3. PERIODIC INSPECTION AND MAINTENANCE ARE VITAL TO THE PERFORMANCE OF EROSION AND SEDIMENT CONTROLS. IT IS RECOMMENDED THAT ALL TEMPORARY EROSION CONTROLS BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL.
4. MAINTENANCE: ESC (EROSION SEDIMENT CONTROLS) SHOULD BE ROUTINELY INSPECTED AND MAINTAINED UNTIL SITE IS PERMANENTLY VEGETATED. SOMETIMES ROUTINE INSPECTIONS MAY SHOW A NEED FOR ADJUSTMENTS OR ADDITIONAL ESC'S.
5. CONTACT A T.C.E.Q. INSPECTOR WHEN CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED WITH PERMANENT VEGETATION OR OTHER APPROVED METHODS.
6. REVEGETATE THE SITE: PREVENT EROSION ON INDIVIDUAL LOTS WITH GROUND COVER. EXISTING TREES AND VEGETATION SHOULD BE PROTECTED TO HELP MAINTAIN A STABLE GROUND SURFACE AND PREVENT LOSS OF VALUABLE TOPSOIL. EROSION CONTROL BLANKETS, MATTING AND MULCHES CAN HELP STABILIZE THE AREA UNTIL PERMANENT VEGETATION IS ESTABLISHED. THE SITE NEEDS TO HAVE AT LEAST 80 PERCENT COVER OF PERMANENT VEGETATION BEFORE ESC'S CAN BE REMOVED.

COMPLIANCE CHECKLIST:

1. PERIMETER CONTROLS: INSTALL ESC'S (EROSION SEDIMENT CONTROLS) ALONG THE BACK OF THE CURB AND ALONG THE LOT LINE OF ADJACENT PROPERTIES, WHICH ARE DOWNHILL AND RECEIVE RUNOFF FROM YOUR LOT. FOLLOWING SIDEWALK INSTALLATION, ESC'S SHOULD BE REMOVED TO THE BACK OF THE SIDEWALK TO PREVENT SEDIMENT FROM REACHING THE SIDEWALK. MAINTAIN ESC'S TO ENSURE PROPER FUNCTION, INCLUDING REPAIR OR REPLACEMENT OF TORN, DEGRADED OR OTHERWISE INEFFECTIVE MATERIALS. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE PROTECTION.
2. STOCKPILES: INSTALL SEDIMENT CONTROLS AROUND STOCKPILES TO PREVENT SEDIMENT FROM REACHING THE STREET AND ADJACENT PROPERTIES. LOCATE STOCKPILES AWAY FROM THE STREET, PROPERTY LINES AND DRAINAGE WAYS.
3. LOT ACCESS: REQUIRED FOR EACH INDIVIDUAL LOT. MAINTAIN A SURFACE SUITABLE FOR PARKING AND UNLOADING TO PREVENT THE TRACKING OF MUD AND ROCK ONTO THE STREET. A MINIMUM 6-INCH DEPTH OF 3- TO 5-INCH AGGREGATE IS SUGGESTED. ALL VEHICLES THAT ACCESS THE LOT MUST USE THE CONSTRUCTION ENTRANCE. ANY SOILS THAT ARE TRUCKED ONTO THE STREET MUST BE REMOVED BY THE END OF THE DAY.
4. INTERMEDIATE CONTROL: LONG OR STEEP DRAINAGE PATHS MAY REQUIRE INTERMEDIATE OR INTERIOR ESC'S TO HELP SLOW THE FLOW OF RUNOFF. FAILURE OF PERIMETER CONTROLS DUE TO THE FORCE OF RUNOFF OFTEN DETERMINE THE NEED FOR INTERMEDIATE CONTROLS.
5. HOUSEKEEPING: PROVIDE ADEQUATE SANITARY FACILITIES AND TRASH/REFUSE BINS.

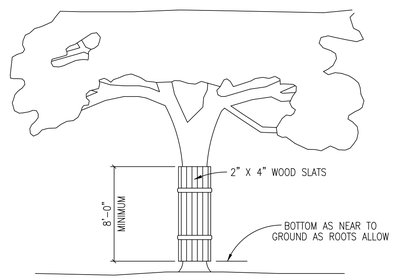




GENERAL NOTES:

1. USE ONLY OPEN GRADED ROCK 4-8 INCHES DIAMETER FOR STREAM FLOW CONDITION; USE OPEN GRADED ROCK 3-5 INCHES DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 1/32 INCH.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 12 INCHES, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SERVE SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
6. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

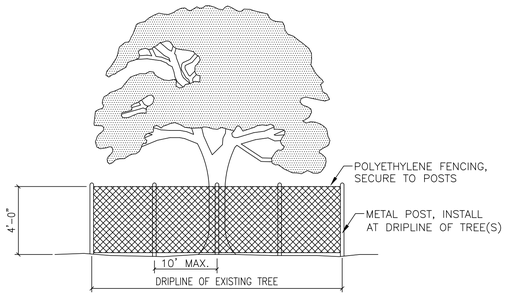
4 ROCK BERM DETAIL
N.T.S.



NOTES:

1. WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN FOUR FEET (4'-0") TO A TREE TRUNK; PROTECT THE TRUNK WITH STRAPPED-ON-PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE REDUCED FENCING PROVIDED.
2. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE, AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
3. PRIOR EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINE. MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
5. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
6. NO LANDSCAPE TOPSOIL DRESSING GREATER THE FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE DRIPLINE OF A TREE. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
7. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS.

5 TREE PROTECTION – WOOD SLATS
N.T.S.



NOTES:

1. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
2. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES; WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
   B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
   C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
3. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

6 TREE PROTECTION – ORANGE SAFETY FENCE
N.T.S.

SHEET SIZE: 24" x 36"

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OFFICE: 512.808.2244

100% DESIGN - BID REVIEW SET

EROSION AND SEDIMENTATION CONTROL DETAILS

FOR

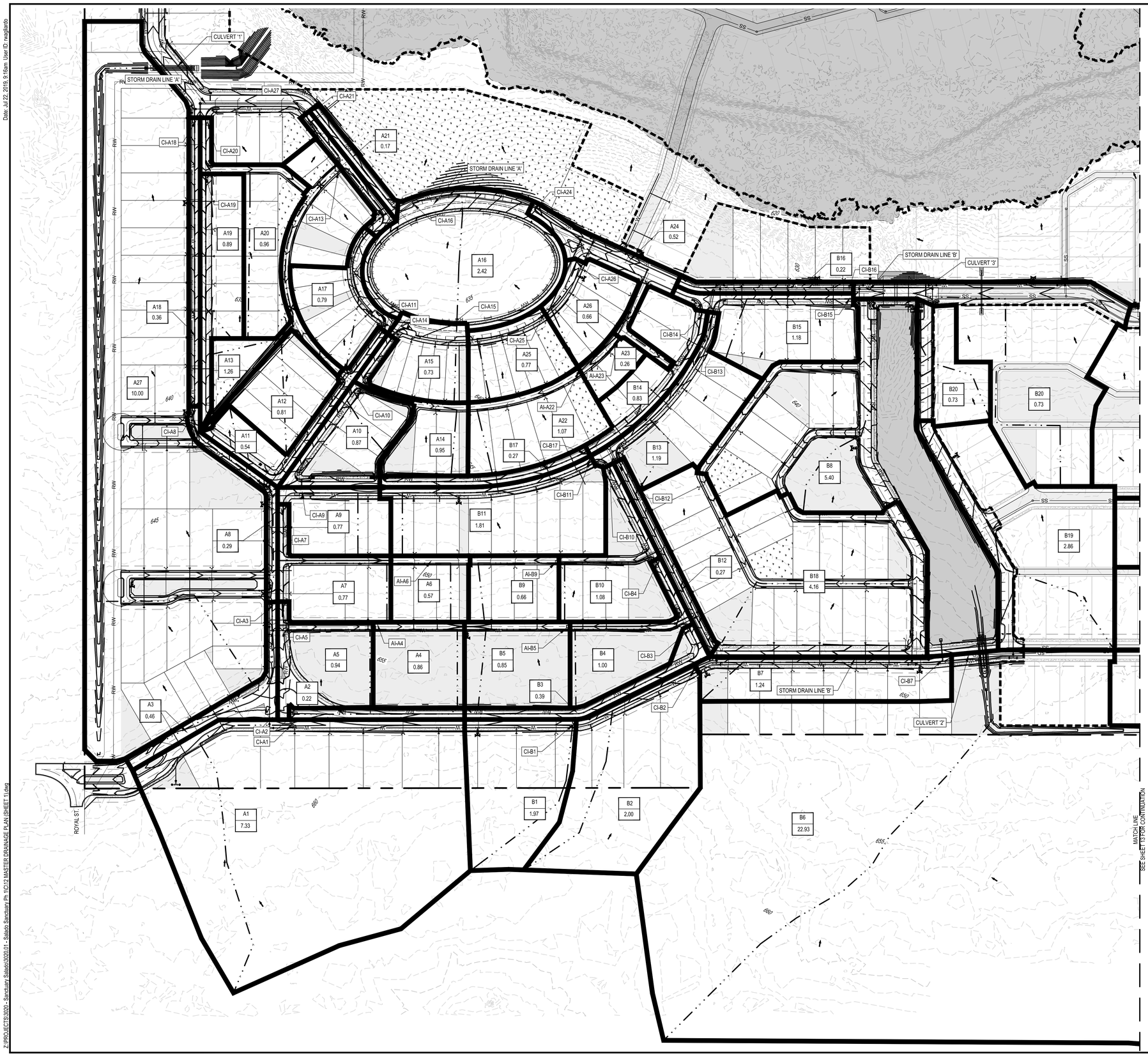
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CG851

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	11 OF 100

Date: Jul 17, 2019, 8:47am User ID: mslva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C11 EROSION AND SEDIMENTATION CONTROL DETAILS.dwg



LEGEND

PROPERTY BOUNDARY	
WATERSHED BOUNDARY	
PHASE LIMITS	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	
FLOW PATHS	
STORM SEWER PIPE	
COMPUTATION POINT	CI XX-X
FLOW ARROW	
STORM SEWER MANHOLE	
STORM SEWER JUNCTION BOX	

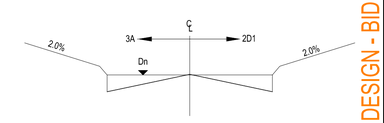
A1 — WATERSHED IDENTIFICATION
XX.X — WATERSHED AREA (AC)

CURB INLET	CI
AREA INLET	AI

NOTES:
THE RATIONAL METHOD WAS USED FOR ALL STORM SEWER AND CHANNEL SIZING (Q=CIA).

A PORTION OF THIS SITE IS WITHIN THE FEMA 100-YR FLOODPLAIN AS DELINEATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR BELL COUNTY, TEXAS ON PANEL NUMBERS 48027C0510E & 48027C0525E, DATED EFFECTIVE SEPTEMBER 26, 2008 AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

STREET CAPACITY CALCULATIONS



RESIDENTIAL COLLECTOR - MINIMUM		RESIDENTIAL COLLECTOR - MAXIMUM	
Q10= 5.23 CFS	Q25= 48.72 CFS	Q10= 14.61 CFS	Q25= 136.1 CFS
n= 0.015	n= 0.015	n= 0.015	n= 0.015
S= 0.5%	S= 0.5%	S= 3.90%	S= 3.90%
D= 0.24'	D= 0.44'	D= 0.24'	D= 0.44'
V= 1.75 FT/S	V= 2.80 FT/S	V= 4.88 FT/S	V= 7.82FT/S

RESIDENTIAL LOCAL - MINIMUM		RESIDENTIAL LOCAL - MAXIMUM	
Q10= 4.89 CFS	Q25= 35.84 CFS	Q10= 13.66 CFS	Q25= 100.10 CFS
n= 0.015	n= 0.015	n= 0.015	n= 0.015
S= 0.5%	S= 0.5%	S= 3.9%	S= 3.9%
D= 0.24'	D= 0.51'	D= 0.24'	D= 0.51'
V= 1.70 FT/S	V= 2.81 FT/S	V= 4.75 FT/S	V= 7.86 FT/S

SCALE: 1"=100'
0 50' 100' 150' 200'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100
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TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78404
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

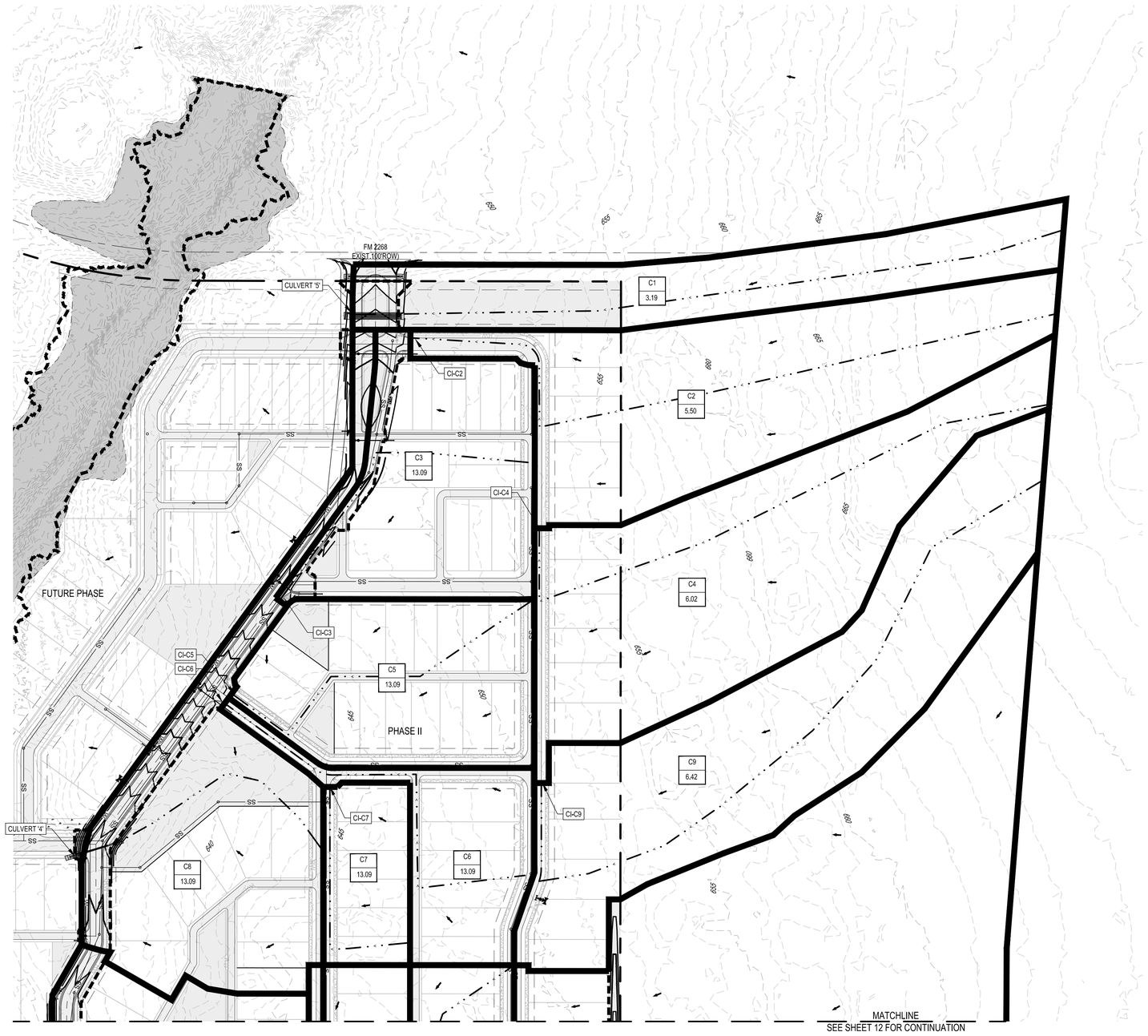
MASTER DRAINAGE PLAN (SHEET 1)
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG701

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	12 OF 100

Date: Jul 22, 2019, 9:16am User ID: nwagliardo
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C12 MASTER DRAINAGE PLAN (SHEET 1).dwg

Date: Jul 22, 2019, 9:24am User ID: nwagliardo



LEGEND

PROPERTY BOUNDARY	
WATERSHED BOUNDARY	
PHASE LIMITS	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	
FLOW PATHS	
STORM SEWER PIPE	
COMPUTATION POINT	CI XX-X
FLOW ARROW	
STORM SEWER MANHOLE	
STORM SEWER JUNCTION BOX	

A1 — WATERSHED IDENTIFICATION
XX.X — WATERSHED AREA (AC)

CURB INLET	CI
AREA INLET	AI

NOTES:
THE RATIONAL METHOD WAS USED FOR ALL STORM SEWER AND CHANNEL SIZING (Q=CIA).

A PORTION OF THIS SITE IS WITHIN THE FEMA 100-YR FLOODPLAIN AS DELINEATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR BELL COUNTY, TEXAS ON PANEL NUMBERS 48027C0510E & 48027C0525E, DATED EFFECTIVE SEPTEMBER 26, 2008 AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

LINE C SHOWN FOR REFERENCE ONLY AND WILL BE DETAILED WITH THE PHASE II CONSTRUCTION PLANS.

SCALE: 1" = 100'
0 50' 100' 150' 200'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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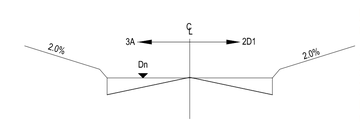
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

STREET CAPACITY CALCULATIONS



RESIDENTIAL COLLECTOR - MINIMUM		RESIDENTIAL COLLECTOR - MAXIMUM	
Q10= 5.23 CFS	Q25= 48.72 CFS	Q10= 14.61 CFS	Q25= 136.1 CFS
n= 0.015	n= 0.015	n= 0.015	n= 0.015
S= 0.5%	S= 0.5%	S= 3.90%	S= 3.90%
D= 0.24'	D= 0.44'	D= 0.24'	D= 0.44'
V= 1.75 FT/S	V= 2.80 FT/S	V= 4.88 FT/S	V= 7.82FT/S

RESIDENTIAL LOCAL - MINIMUM		RESIDENTIAL LOCAL - MAXIMUM	
Q10= 4.89 CFS	Q25= 35.84 CFS	Q10= 13.66 CFS	Q25= 100.10 CFS
n= 0.015	n= 0.015	n= 0.015	n= 0.015
S= 0.5%	S= 0.5%	S= 3.9%	S= 3.9%
D= 0.24'	D= 0.51'	D= 0.24'	D= 0.51'
V= 1.70 FT/S	V= 2.81 FT/S	V= 4.75 FT/S	V= 7.86 FT/S

100% DESIGN - BID REVIEW SET

MASTER DRAINAGE PLAN (SHEET 2)
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG702

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	13 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\13 MASTER DRAINAGE PLAN (SHEET 2).dwg

Date: Jul 22, 2019, 3:17pm User ID: rwagliardo

Table 3-3 Salado Intensity Constants			
Year	a	b	c
5	69.00	8.5	0.780
10	77.00	8.5	0.773
25	90.00	8.5	0.771
100	102.00	8.0	0.751

FLOW(Q) = CIA

ON-SITE STORM DRAIN SIZING CALCULATIONS

VILLAGE OF SALADO HYDROLOGY

DRAIN "A"

COMP. POINT	WATERSHEDS: CONTRIBUTING AREAS	WATERSHEDS: ACCUMULATION ACREAGE	SHEET FLOW n	SHEET FLOW L (FT)	SHEET FLOW s (%)	SHEET FLOW t (Min)	SHALLOW CONCENTRATED FLOW n	SHALLOW CONCENTRATED FLOW L (FT)	SHALLOW CONCENTRATED FLOW s (%)	SHALLOW CONCENTRATED FLOW t (Min)	CHANNEL L	CHANNEL s (%)	CHANNEL vel. (FT/S)	CHANNEL t (Min)	tc (MIN)	C	I (IN/HR)	Q (CFS)	FREQ. (YEAR)	Description
CI-A1	A1	7.33	0.24	300.00	1.00%	17.14	0.24	270.00	1.30%	9.47	212.00	1.20%	2.13	1.66	28.27	0.55	4.15	16.72	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	4.75	19.13	10	
																0.55	5.59	22.53	25	
																0.55	6.88	27.72	100	
CI-A2	A2	0.22	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	380.00	1.20%	0.9	7.04	10.00	0.55	7.09	0.86	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	0.98	10	
																0.55	9.49	1.15	25	
																0.55	11.64	1.41	100	
CI-A3	A3	0.46	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	528.00	2.62%	1.38	6.38	10.00	0.55	7.09	1.79	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	2.04	10	
																0.55	9.49	2.40	25	
																0.55	11.64	2.94	100	
CI-A4	A4	0.86	0.24	170.00	1.90%	7.05	0.24	0.00	0.00%	0.00	184.00	0.82%	1.15	2.67	10.00	0.55	7.09	3.35	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	3.82	10	
																0.55	9.49	4.49	25	
																0.55	11.64	5.50	100	
CI-A5	A5	0.94	0.24	172.00	1.90%	7.13	0.24	0.00	0.00%	0.00	232.00	0.82%	1.14	3.39	10.52	0.55	6.93	3.59	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	7.90	4.08	10	
																0.55	9.29	4.80	25	
																0.55	11.39	5.89	100	
CI-A6	A6	0.57	0.24	129.00	3.40%	4.00	0.24	0.00	0.00%	0.00	115.00	0.89%	3.21	0.60	10.00	0.55	7.09	2.22	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	2.53	10	
																0.55	9.49	2.98	25	
																0.55	11.64	3.65	100	
CI-A7	A7	0.77	0.24	129.00	3.40%	4.00	0.24	0.00	0.00%	0.00	346.00	0.89%	3.21	1.80	10.00	0.55	7.09	3.00	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.42	10	
																0.55	9.49	4.02	25	
																0.55	11.64	4.93	100	
CI-A8	A8	0.29	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	490.00	2.10%	1.91	4.28	10.00	0.55	7.09	1.13	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	1.29	10	
																0.55	9.49	1.51	25	
																0.55	11.64	1.86	100	
CI-A9	A9	0.77	0.24	138.00	2.80%	4.71	0.24	0.00	0.00%	0.00	117.00	2.00%	1.57	1.24	10.00	0.55	7.09	3.00	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.42	10	
																0.55	9.49	4.02	25	
																0.55	11.64	4.93	100	
CI-A10	A10	0.87	0.24	144.00	2.10%	5.68	0.24	0.00	0.00%	0.00	22.00	1.92%	1.58	0.23	10.00	0.55	7.09	3.39	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.86	10	
																0.55	9.49	4.54	25	
																0.55	11.64	5.57	100	
CI-A11	A11	0.54	0.24	105.00	2.10%	4.14	0.24	0.00	0.00%	0.00	487.00	1.92%	1.42	5.72	10.00	0.55	7.09	2.10	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	2.40	10	
																0.55	9.49	2.82	25	
																0.55	11.64	3.46	100	
CI-A12	A12	0.81	0.24	245.00	2.20%	9.44	0.24	0.00	0.00%	0.00	44.00	1.37%	1.6	0.46	10.00	0.55	7.09	3.16	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.60	10	
																0.55	9.49	4.23	25	
																0.55	11.64	5.18	100	
CI-A13	A13	1.26	0.24	245.00	2.20%	9.44	0.24	0.00	0.00%	0.00	431.00	1.37%	1.24	5.79	15.23	0.55	5.84	4.04	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	6.66	4.61	10	
																0.55	7.83	5.43	25	
																0.55	9.61	6.66	100	
CI-A14	A14	0.95	0.24	144.00	2.90%	4.83	0.24	0.00	0.00%	0.00	331.00	1.36%	1.4	3.94	10.00	0.55	7.09	3.70	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	4.22	10	
																0.55	9.49	4.96	25	
																0.55	11.64	6.08	100	
CI-A15	A15	0.73	0.24	165.00	2.80%	5.63	0.24	0.00	5.50%	0.00	0.00	3.50%	1.92	0.00	10.00	0.55	7.09	2.85	5	(1) 10-FOOT CURB INLET ON-SAG
																0.55	8.07	3.24	10	
																0.55	9.49	3.81	25	
																0.55	11.64	4.67	100	
CI-A16	A16	2.42	0.24	244.00	2.80%	8.33	0.24	0.00	5.50%	0.00	151.00	3.50%	2.48	1.01	10.00	0.55	7.09	9.43	5	(1) 10-FOOT CURB INLET ON-SAG
																0.55	8.07	10.74	10	
																0.55	9.49	12.63	25	
																0.55	11.64	15.49	100	
CI-A17	A17	0.79	0.24	163.00	2.60%	5.78	0.24	0.00	0.00%	0.00	145.00	1.83%	1.44	1.68	10.00	0.55	7.09	3.08	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.51	10	
																0.55	9.49	4.12	25	
																0.55	11.64	5.06	100	
CI-A18	A18	0.36	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	631.00	2.10%	1.26	8.35	10.00	0.55	7.09	1.40	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	1.60	10	
																0.55	9.49	1.88	25	
																0.55	11.64	2.30	100	
CI-A19	A19	0.89	0.24	88.00	2.10%	3.47	0.24	0.00	0.00%	0.00	292.00	2.10%	1.97	2.47	10.00	0.55	7.09	3.47	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.95	10	
																0.55	9.49	4.65	25	
																0.55	11.64	5.70	100	
CI-A20	A20	0.96	0.24	300.00	3.00%	9.90	0.24	64.00	2.00%	1.81	202.00	2.10%	1.97	1.71	13.42	0.55	6.21	3.28	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	7.08	3.74	10	
																0.55	8.33	4.40	25	
																0.55	10.21	5.39	100	
CI-A21	A21	0.17	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	272.00	1.13%	0.83	5.46	10.00	0.55	7.09	0.66	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	0.75	10	
																0.55	9.49	0.89	25	
																0.55	11.64	1.09	100	
CI-A22	A22	1.07	0.24	145.00	2.10%	5.72	0.24	0.00	0.00%	0.00	246.00	1.36%	1.49	2.75	10.00	0.55	7.09	4.17	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	4.75	10	
																0.55	9.49	5.58	25	
																0.55	11.64	6.85	100	
CI-A23	A23	0.26	0.24	77.00	2.30%	2.90	0.24	0.00	0.00%	0.00	89.00	0.70%	1.49	1.00	10.00	0.55	7.09	1.01	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	1.15	10	
																0.55	9.49	1.36	25	
																0.55	11.64	1.66	100	
CI-A24	A24	0.52	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	541.00	1.36%	1.2	7.51	10.00	0.55	7.09	2.03	5	(1) 5X5-GRATE INLET ON-SAG
																0.55	8.07	2.31	10	
																0.55	9.49	2.71	25	
																0.55	11.64	3.33	100	
CI-A25	A25	0.77	0.24	138.00	2.40%	5.09	0.24	0.00	0.00%	0.00	162.00	1.83%	2.44	1.11	10.00	0.55	7.09	3.00	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	3.42	10	
																0.55	9.49	4.02	25	
																0.55	11.64	4.93	100	
CI-A26	A26	0.66	0.24	142.00	1.30%	7.12	0.24	0.00	0.00%	0.00	116.00	1.83%	2.44	0.79	10.00	0.55	7.09	2.57	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	2.93	10	
																0.55	9.49	3.44	25	
																0.55	11.64	4.22	100	
CI-C27	A27	0.20	0.24	0.00	0.01%	0.00	0.24	0.00	0.00%	0.00	314.00	1.83%	2.44	2.14	10.00	0.55	7.09	0.78	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	0.89	10	
																0.55	9.49	1.04	25	
																0.55	11.64	1.28	100	
CULVERT '1'	A28	10.00	0.24	233.00	3.20%	7.44	0.24	0.00	0.00%	0.00	1495.00	2.10%	2.44	10.21	17.65	0.55	5.41	29.75	5	CULVERT '1'
																0.55	6.18	33.97	10	
																0.55	7.27	39.96	25	
																0.55	8.92	49.05	100	

ON-SITE STORM DRAIN SIZING CALCULATIONS

VILLAGE OF SALADO HYDROLOGY

DRAIN "B"

COMP. POINT	WATERSHEDS: CONTRIBUTING AREAS	WATERSHEDS: ACCUMULATION ACREAGE	SHEET FLOW n	SHEET FLOW L (FT)	SHEET FLOW s (%)	SHEET FLOW t (Min)	SHALLOW CONCENTRATED FLOW n	SHALLOW CONCENTRATED FLOW L (FT)	SHALLOW CONCENTRATED FLOW s (%)	SHALLOW CONCENTRATED FLOW t (Min)	CHANNEL L	CHANNEL s (%)	CHANNEL vel. (FT/S)	CHANNEL t (Min)	tc (MIN)	C	I (IN/HR)	Q (CFS)	FREQ. (YEAR)	Description
CI-B1	B1	1.97	0.24	300.00	1.10%	16.35	0.24	121.00	2.20%	3.26	198.00	1.20%	1.38	2.39	22.00	0.55	4.80	5.20	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	5.48	5.94	10	
																0.55	6.45	6.99	25	
																0.55	7.93	8.59	100	
CI-B2	B2	2.00	0.24	300.00	1.10%	16.35	0.24	111.00	2.20%	2.99	201.00	1.20%	3.1	1.08	20.42	0.55	5.00	5.50	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	5.71	6.29	10	
																0.55	6.72	7.40	25	
																0.55	8.26	9.09	100	
CI-B3	B3	0.39	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	606.00	1.20%	1.02	9.90	10.00	0.55	7.09	1.52	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	1.73	10	
																0.55	9.49	2.04	25	
																0.55	11.64	2.50	100	
CI-B4	B4	1.00	0.24	171.00	2.50%	6.18	0.24	0.00	0.00%	0.00	381.00	0.81%	1.22	5.20	11.38	0.55	6.70	3.68	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	7.63	4.20	10	
																0.55	8.98	4.94	25	
																0.55	11.01	6.05	100	
CI-B5	B5	0.85	0.24	173.00	2.50%	6.25	0.24	0.00	0.00%	0.00	198.00	0.81%	1.22	2.70	10.00	0.55	7.09	3.31	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	3.77	10	
																0.55	9.49	4.44	25	
																0.55	11.64	5.44	100	
CULVERT '2'	B6	22.93	0.24	300.00	0.30%	20.00	0.24	838.00	1.60%	26.50	0.00	0.00%	1.33	0.00	46.50	0.55	3.03	38.21	5	CULVERT '2'
																0.55	3.48	43.85	10	
																0.55	4.10	51.66	25	
																0.55	5.06	63.88	100	
CI-B7	B7	1.24	0.24	127.00	2.00%	5.13	0.24	0.00	0.00%	0.00	436.00	1.20%	1.38	5.27	10.40	0.55	6.97	4.75	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	7.94	5.42	10	
																0.55	9.34	6.37	25	
																0.55	11.45	7.81	100	
CI-B8	B8	4.62	0.24	224.00	3.10%	7.27	0.24	0.00	3.30%	0.00	271.00	0.90%	2.54	1.78	10.00	0.55	7.09	18.01	5	(1) 10-FOOT CURB OPENING ON-GRADE
																0.55	8.07	20.51	10	
																0.55	9.49	24.11	25	
																0.55	11.64	29.57	100	
CI-B9	B9	0.66	0.24	129.00	3.20%	4.12	0.24	0.00	0.00%	0.00	176.00	0.66%	0.97	3.02	10.00	0.55	7.09	2.57	5	(1) 5X5-GRATE INLET ON-GRADE
																0.55	8.07	2.93	10	
																0.55	9.49	3.44	25	
																0.55	11.64	4.22	100	
CI-B10	B10	1.08	0.24	129.00	3.20%	4.12	0.24	0.00	0.00%	0.00	402.00	0.66%	1.11	6.04	10.16	0.55	7.04	4.18	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.02	4.76	10	
																0.55	9.43	5.60	25	
																0.55	11.56	6.87	100	
CI-B11	B11	1.81	0.24	138.00	2.50%	4.99	0.24	0.00	0.00%	0.00	423.00	2.00%	1.85	3.81	10.00	0.55	7.09	7.05	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	8.04	10	
																0.55	9.49	9.45	25	
																0.55	11.64	11.59	100	
CI-B12	B12	0.27	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	457.00	2.32%	1.1	6.92	10.00	0.55	7.09	1.05	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	1.20	10	
																0.55	9.49	1.41	25	
																0.55	11.64	1.73	100	
CI-B13	B13	1.19	0.24	188.00	1.60%	8.49	0.24	0.00	0.00%	0.00	271.00	2.00%	1.75	2.58	11.07	0.55	6.78	4.44	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	7.73	5.06	10	
																0.55	9.09	5.95	25	
																0.55	11.14	7.29	100	
CI-B14	B14	0.83	0.24	78.00	1.20%	4.07	0.24	0.00	0.00%	0.00	297.00	2.00%	1.51	3.28	10.00	0.55	7.09	3.24	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	3.68	10	
																0.55	9.49	4.33	25	
																0.55	11.64	5.31	100	
CI-B15	B15	1.18	0.24	141.00	1.90%	5.85	0.24	0.00	0.00%	0.00	227.00	2.61%	1.93	1.96	10.00	0.55	7.09	4.60	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	5.24	10	
																0.55	9.49	6.16	25	
																0.55	11.64	7.55	100	
CI-B16	B16	0.22	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	338.00	2.61%	1.08	5.22	10.00	0.55	7.09	0.86	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	0.98	10	
																0.55	9.49	1.15	25	
																0.55	11.64	1.41	100	
CI-B17	B17	0.27	0.24	0.00	0.00%	0.00	0.24	0.00	0.00%	0.00	465.00	2.00%	1.1	7.05	10.00	0.55	7.09	1.05	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.07	1.20	10	
																0.55	9.49	1.41	25	
																0.55	11.64	1.73	100	
CI-B18	B18	4.16	0.24	151.00	2.60%	5.35	0.24	0.00	3.30%	0.00	544.00	1.80%	2.54	3.57	10.00	0.55	7.09	16.21	5	(1) 10-FOOT CURB OPENING ON-GRADE
																0.55	8.07	18.47	10	
																0.55	9.49	21.71	25	
																0.55	11.64	26.63	100	
CI-B19	B19	2.86	0.24	293.00	1.80%	12.48	0.24	94.00	3.30%	2.07	294.00	2.00%	2.54	1.93	16.48	0.55	7.09	11.15	5	(1) 10-FOOT CURB OPENING ON-GRADE
																0.55	8.07	12.70	10	
																0.55	9.49	14.93	25	
																0.55	11.64	18.31	100	
CI-B20	B20	0.73	0.24	245.00	4.00%	7.00	0.24	0.00	3.30%	0.00	72.00	2.00%	2.54	0.47	10.00	0.55	7.09	2.85	5	(1) 10-FOOT CURB OPENING ON-GRADE
																0.55	8.07	3.24	10	
																0.55	9.49	3.81	25	
																0.55	11.64	4.67	100	
CI-B21	B20	2.89	0.24	133.00	1.60%	6.01	0.24	0.00	3.30%	0.00	632.00	0.75%	2.54	4.15	10.16	0.55	7.04	11.19	5	(1) 10-FOOT CURB INLET ON-GRADE
																0.55	8.02	12.75	10	
																0.55	9.43	14.99	25	
																0.55	11.56	18.38	100	
CULV '3'	B6	35.30																86.42	5	CULVERT '3'
	B8																			
	B18																	116.23	10	
	B19																	143.06	25	
	B20																	107.74	100	

ON-GRADE CURB INLET CALCULATIONS

INLET	Q10` Surface Flow (CFS)	Q10 Upstream Bypass (CFS)	Q10 Total (CFS)	LONGITUDINAL SLOPE (SL) (FT/FT)	MANNING'S N	EQUIVALENT CROSS SLOPE (Se) (FT/FT)	LENGTH FOR 100% CAPTURE (Lt) (FT)	USED (FT)	INLET EFFICENCY (%)	Q10 CAPTURED (CFS)	Q10 BYPASS (CFS)	Q10 DEPTH AT CURB INLET (FT)
A1	19.13	0.00	19.13	0.012	0.013	0.05	36.7	10	44%	8.34	10.79	0.41
A2	0.98	0.00	0.98	0.012	0.013	0.05	10.5	10	100%	0.98	0.00	0.16
A3	2.04	0.00	2.04	0.026	0.013	0.05	18.1	10	77%	1.56	0.48	0.17
A4	3.82	0.00	3.82	0.008	0.013	0.05	16.5	10	81%	3.10	0.72	0.22
A6	2.53	0.00	2.53	0.009	0.013	0.05	14.4	10	88%	2.23	0.30	0.23
A7	3.42	2.36	5.78	0.009	0.013	0.05	20.4	10	70%	4.07	1.71	0.29
A8	1.29	0.00	1.29	0.021	0.013	0.05	14.0	10	90%	1.16	0.13	0.16
A9	3.42	0.00	3.42	0.020	0.013	0.05	20.8	10	69%	2.37	1.05	0.21
A10	3.86	5.18	9.04	0.019	0.013	0.05	30.7	10	51%	4.59	4.45	0.25
A11	2.40	2.59	4.99	0.019	0.013	0.05	23.9	10	62%	3.10	1.89	0.29
A12	3.60	0.95	4.55	0.019	0.013	0.05	23.0	10	64%	2.92	1.63	0.25
A13	4.61	0.42	5.03	0.014	0.013	0.05	21.9	10	67%	3.35	1.68	0.27
A14	4.22	6.39	10.61	0.019	0.013	0.05	32.9	10	48%	5.09	5.52	0.33
A17	3.51	0.00	3.51	0.018	0.013	0.05	20.3	10	70%	2.47	1.04	0.23
A18	1.60	0.00	1.60	0.021	0.013	0.05	15.3	10	85%	1.36	0.24	0.17
A19	3.95	0.00	3.95	0.021	0.013	0.05	22.4	10	66%	2.59	1.36	0.23
A20	3.74	2.17	5.91	0.021	0.013	0.05	26.5	10	57%	3.39	2.52	0.27
A21	0.75	0.00	0.75	0.013	0.013	0.05	9.6	10	100%	0.75	0.00	0.14
A22	4.75	0.00	4.75	0.014	0.013	0.05	21.4	10	68%	3.22	1.53	0.03
A23	1.15	2.03	3.18	0.014	0.013	0.05	18.1	10	77%	2.43	0.75	0.22
A25	3.42	0.00	3.42	0.018	0.013	0.05	20.1	10	71%	2.43	0.99	0.23

ON-GRADE CURB INLET CALCULATIONS

INLET	Q10` Surface Flow (CFS)	Q10 Upstream Bypass (CFS)	Q10 Total (CFS)	LONGITUDINAL SLOPE (SL) (FT/FT)	MANNING'S N	EQUIVALENT CROSS SLOPE (Se) (FT/FT)	LENGTH FOR 100% CAPTURE (Lt) (FT)	USED (FT)	INLET EFFICENCY (%)	Q10 CAPTURED (CFS)	Q10 BYPASS (CFS)	Q10 DEPTH AT CURB INLET (FT)
B1	5.40	0.00	5.40	0.012	0.013	0.05	21.6	10	67%	3.64	1.76	0.28
B2	5.70	2.99	8.69	0.012	0.013	0.05	26.3	10	58%	5.01	3.68	0.33
B3	1.57	0.00	1.57	0.012	0.013	0.05	12.8	10	93%	1.47	0.10	0.19
B4	3.82	1.39	5.21	0.008	0.013	0.05	18.8	10	74%	3.88	1.33	0.30
B5	3.43	0.00	3.43	0.008	0.013	0.05	15.8	10	84%	2.87	0.56	0.27
B7	4.92	4.92	9.84	0.012	0.013	0.05	27.7	10	55%	5.44	4.40	0.35
B9	2.66	2.66	5.32	0.007	0.013	0.05	18.2	10	76%	4.05	1.27	0.25
B10	4.33	3.43	7.76	0.007	0.013	0.05	21.4	10	68%	5.27	2.49	0.35
B11	7.30	0.00	7.30	0.020	0.013	0.05	28.5	10	54%	3.94	3.36	0.29
B12	1.09	0.00	1.09	0.023	0.013	0.05	13.4	10	92%	1.00	0.09	0.15
B13	4.60	5.05	9.65	0.020	0.013	0.05	32.1	10	49%	4.72	4.93	0.31
B14	3.35	0.26	3.61	0.020	0.013	0.05	21.2	10	68%	2.46	1.15	0.23
B15	4.76	6.70	11.46	0.026	0.013	0.05	37.3	10	43%	4.92	6.54	0.32
B16	0.89	1.90	2.79	0.026	0.013	0.05	20.6	10	70%	1.95	0.84	0.20
B17	1.09	0.00	1.09	0.020	0.013	0.05	12.8	10	93%	1.02	0.07	0.16

Kt = 0.49 Lt = Kt*Q^0.42*SL^0.3/[(N*Se)^0.6]

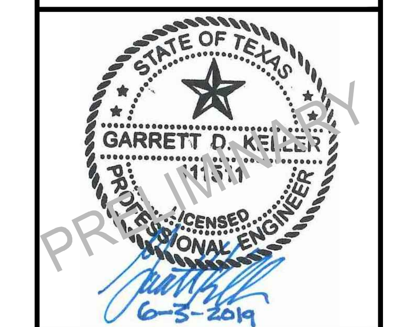
Cw = 2.875 L = Q/(Cw*d^1.5) - (1.8*W)

SAG CURB INLET CALCULATIONS

INLET	Q10 Surface Flow (CFS)	Q10 Upstream Bypass (CFS)	Q10 Total(CFS)	GUTTER WIDTH (W) (FT)	Q10 AT CURB INLET DEPTH (d) (FT)	LENGTH CURB OPENING (L) (FT)	USE (FT)
A-15	3.24	0.00	3.24	1.5	0.28	4.91	10
A-16	10.74	1.80	12.54	1.5	0.60	6.68	10
A-24	2.31	2.94	5.25	1.5	0.36	5.75	10

100% DESIGN - BID REVIEW SET

SHEET SIZE: 24" x 36"



This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

MASTER DRAINAGE CALCULATIONS

FOR

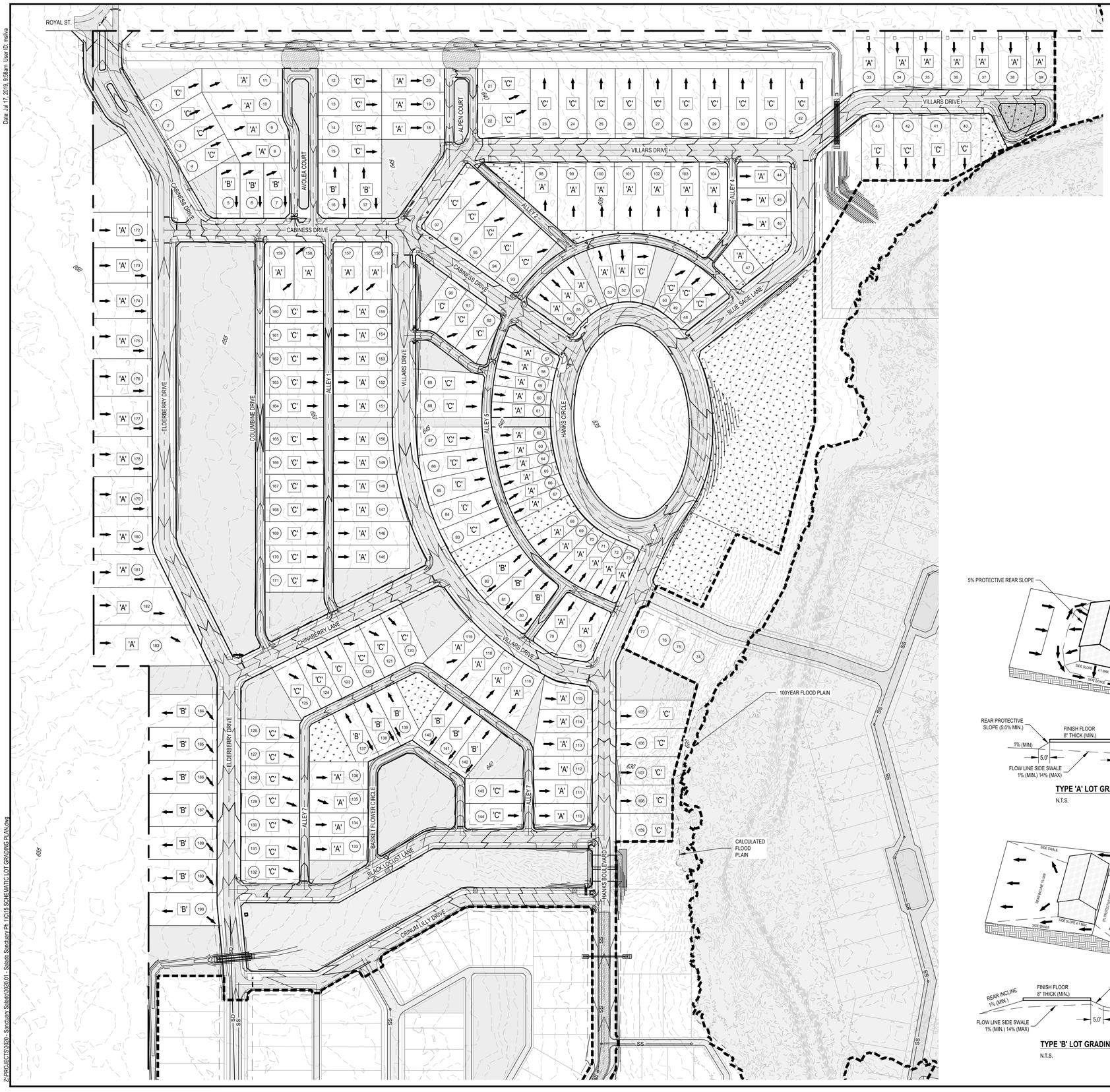
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CG703

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	14 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\14 MASTER DRAINAGE CALCULATIONS.dwg



LEGEND

- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR (700)
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR (700)
- SWALE LINE
- FLOW ARROW
- FEMA 100-YEAR FLOOD PLAIN LIMITS
- TREE TO REMAIN

N

SCALE: 1"=100'

0 50' 100' 150' 200'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY

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GENERAL NOTES:

1. BUILDER TO VERIFY INVERTS OF ALL SANITARY SEWER LATERALS WHEN ESTABLISHING THE APPROPRIATE FINISHED FLOOR ELEVATIONS IN ORDER TO ASSURE ADEQUATE DRAINAGE OF HOUSE LATERALS.
2. ALL LOTS SHALL BE GRADED SO THAT NO DRAINAGE SHALL BE ALLOWED TO FLOW ONTO ADJACENT SIDE LOTS.
3. FINISHED FLOOR ELEVATIONS MUST BE A MINIMUM OF 6" ABOVE ADJACENT FINISHED GRADES AND 12" ABOVE TOP OF CURB
4. CONTRACTOR SHALL PROVIDE OWNER ALL NECESSARY DENSITY TESTS FOR FILL LOTS AS REQUIRED BY HUD SPECIFICATIONS.
5. HOME BUILDER SHALL REFER TO THE APPROVED SUBDIVISION PLAT TO CONFIRM ALL BUILDING SETBACKS PRIOR TO ANY FOUNDATION WORK.
6. AS SOON AS PRACTICAL, HOME BUILDER SHALL ESTABLISH VEGETATION (HYDROMULCH, SEEDING, SODDING, ETC...) TO PREVENT EROSION FROM OCCURRING.
7. CONTRACTOR SHALL CONTACT ENGINEER REGARDING ANY QUESTIONS ON THE INTENT OF THIS PLAN.
8. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS AND TOWARDS THE PROPER DRAINAGE EASEMENT OF STREET RIGHT OF WAY ACCORDING TO THE MASTER DRAINAGE PLAN FOR THE PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW PONDING OF WATER.
9. GRADING PLAN IS INTENDED FOR USE IN LOT GRADING ONLY. CONTRACTOR SHOULD REFER TO CONSTRUCTION DRAWINGS FOR ALL OTHER GRADES, INCLUDING, BUT NOT LIMITED TO, CHANNELS, ROADS, AND DETENTION PONDS.
10. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL SWALES.

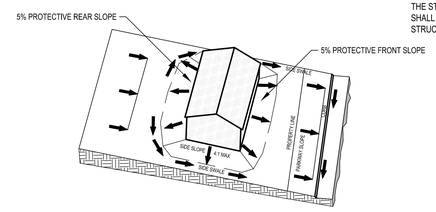
FINISHED FLOOR ELEVATIONS

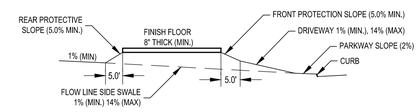
THE ELEVATION OF THE LOWEST FLOOR SHALL BE AT LEAST 6 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DIRECT STORMWATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO THE STORMWATER CONVEYANCE STRUCTURES MUST HAVE FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE STRUCTURE.

LOT FILL NOTES:

1. ALL LOTS WITH FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE 79G PROCEDURE THAT MEETS THE REQUIREMENTS OF THE FHA DATA SHEET. DOCUMENTATION AND EVIDENCE OF COMPACTION SHALL BE FURNISHED TO THE ENGINEER & OWNER.

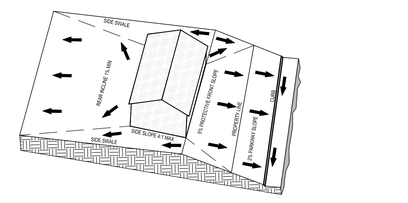
1. FF ELEVATIONS SHOWN ARE APPROXIMATE & DO NOT CONSIDER ELEVATION CHANGES WITHIN THE HOUSE FOUNDATION. ADDITIONAL "PAD" GRADING WILL BE REQUIRED DURING HOME CONSTRUCTION. NOT IN CONTRACT.





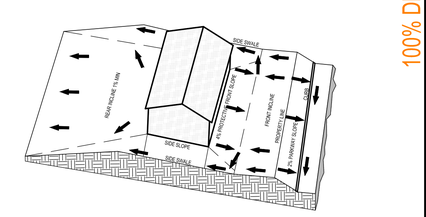
TYPE 'A' LOT GRADING

N.T.S.



TYPE 'B' LOT GRADING

N.T.S.



TYPE 'C' LOT GRADING

N.T.S.

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OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

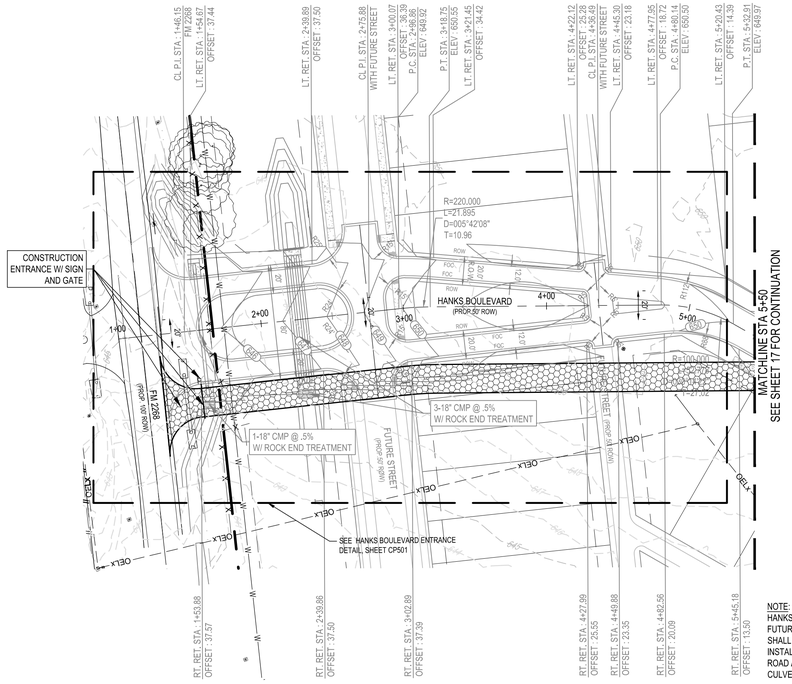
SCHEMATIC LOT GRADING PLAN
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG101

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	15 OF 100

Date: Jul 17, 2019, 9:58am User ID: mslva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C15 SCHEMATIC LOT GRADING PLAN.dwg

Date: Jul 31, 2019, 8:42am User ID: mstva

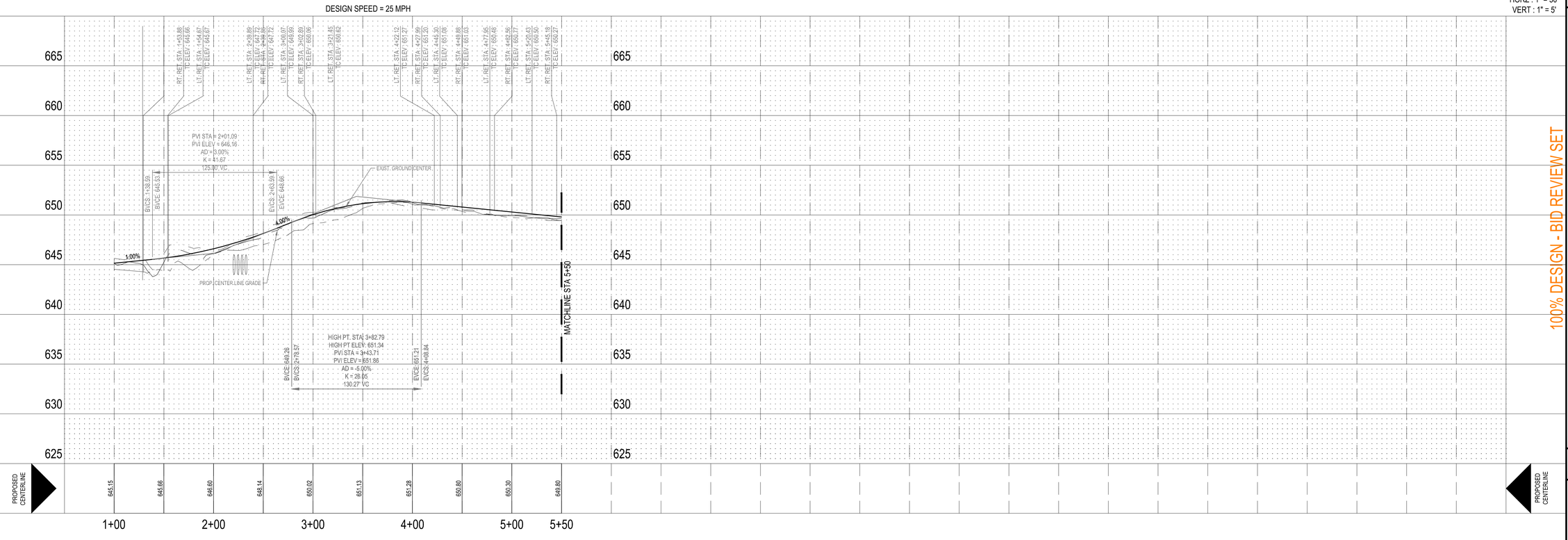


NOT PART OF THIS PROJECT

NOTE:
HANKS BLVD STA 1+00 TO 19+07.44:
FUTURE DESIGN FOR HANKS BLVD SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCAVATE/EMBANK ROAD TO ACHIVE FUTURE SUBGRADE ELEVATION AND INSTALL A TEMPORARY ALL-WEATHER ACCESS ROAD 20FT IN WIDTH FALLOWING THE ROAD ALIGNMENT AS SHOWN. A 1.5 FT DEEP BARDITCH AND MULTIPLE TEMPORARY CULVERTS WILL BE REQUIRED. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.

HANKS BOULEVARD
STA: 1+00.00 TO 5+50.00

DESIGN SPEED = 25 MPH



CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	
TEMPORARY ACCESS ROAD	

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD SUITE 100
BOERNE, TEXAS 78006
OFFICE: 210.545.1029
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

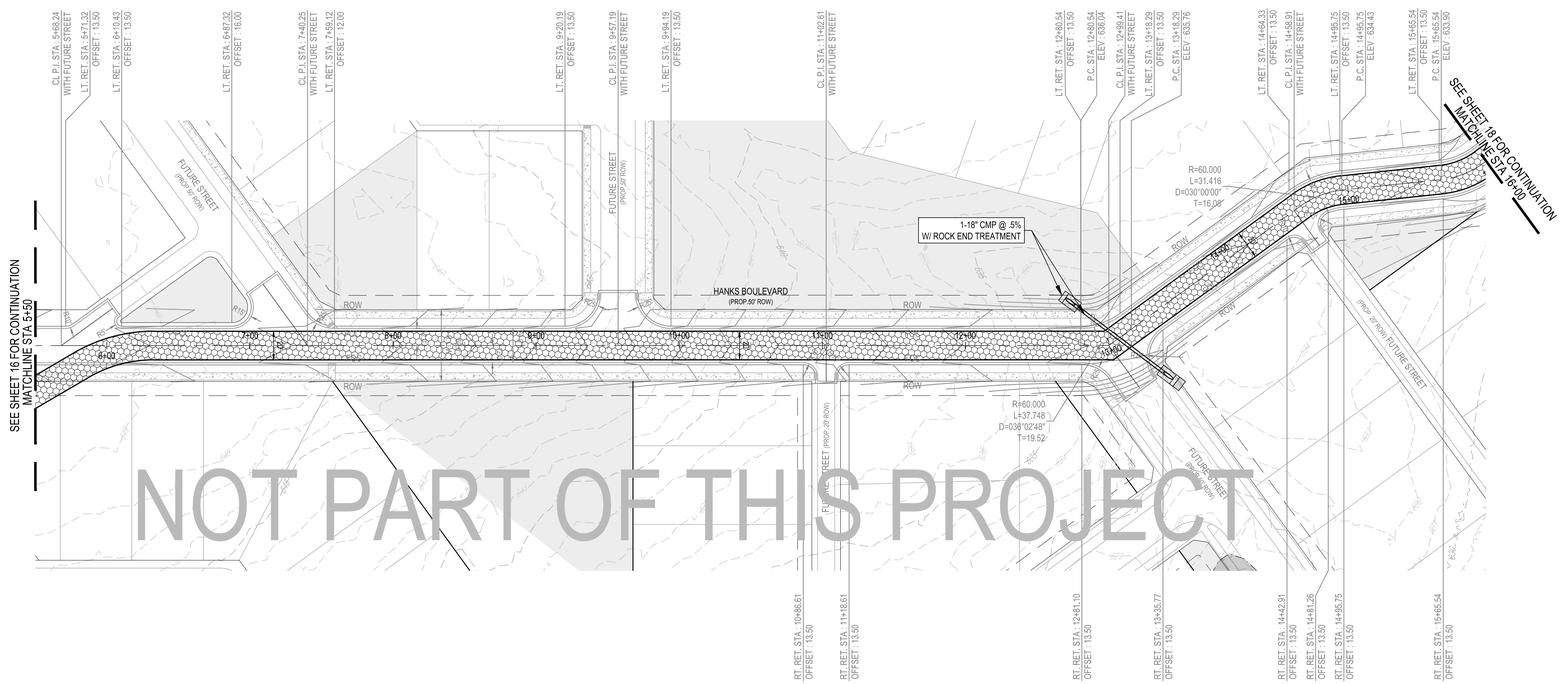
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - HANKS BOULEVARD
STA 1+00 TO STA 5+50
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP201

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	16 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph I\CI\16 3020\09 STREET PLAN & PROFILE - HANKS BOULEVARD STA 1+00 to STA 5+50 CP201.dwg



HANKS BOULEVARD
STA: 5+50.00 TO 16+00.00

DESIGN SPEED = 25 MPH

NOTE:
HANKS BLVD STA 1+00 TO 19+07.44:
FUTURE DESIGN FOR HANKS BLVD SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCAVATE/EMBANK ROAD TO ACHIVE FUTURE SUBGRADE ELEVATION AND INSTALL A TEMPORARY ALL-WEATHER ACCESS ROAD 20FT IN WIDTH FALLOWING THE ROAD ALIGNMENT AS SHOWN. A 1.5 FT DEEP BARDITCH AND MULTIPLE TEMPORARY CULVERTS WILL BE REQUIRED. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.

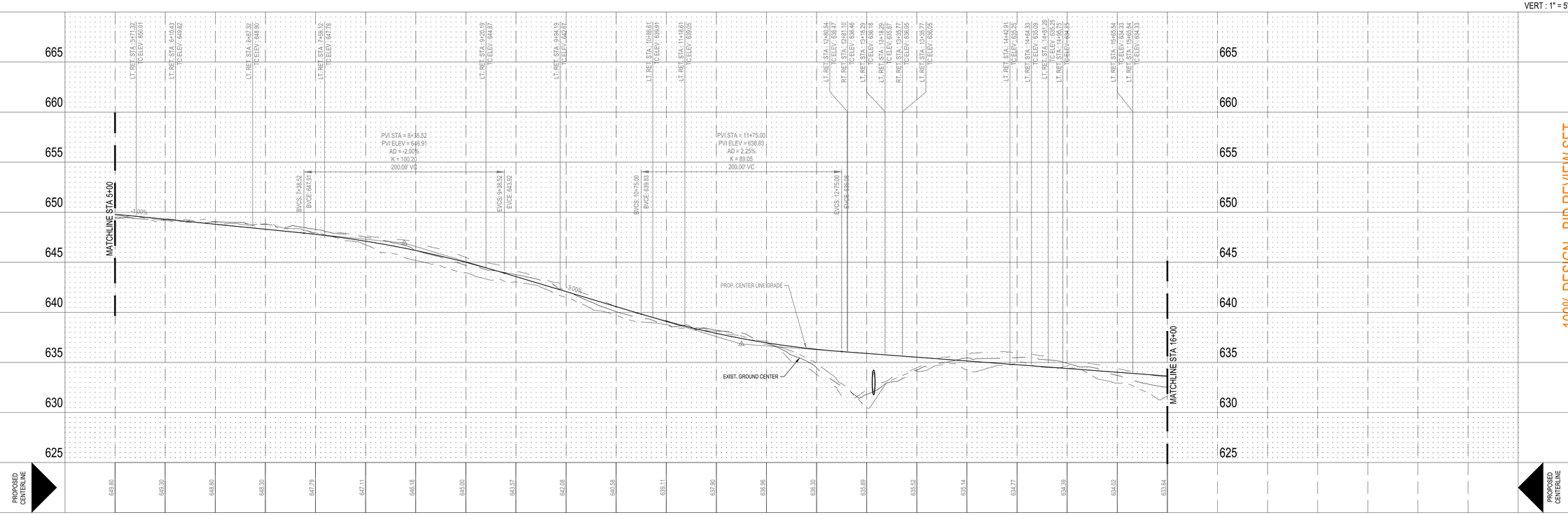
LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	
TEMPORARY ACCESS ROAD	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

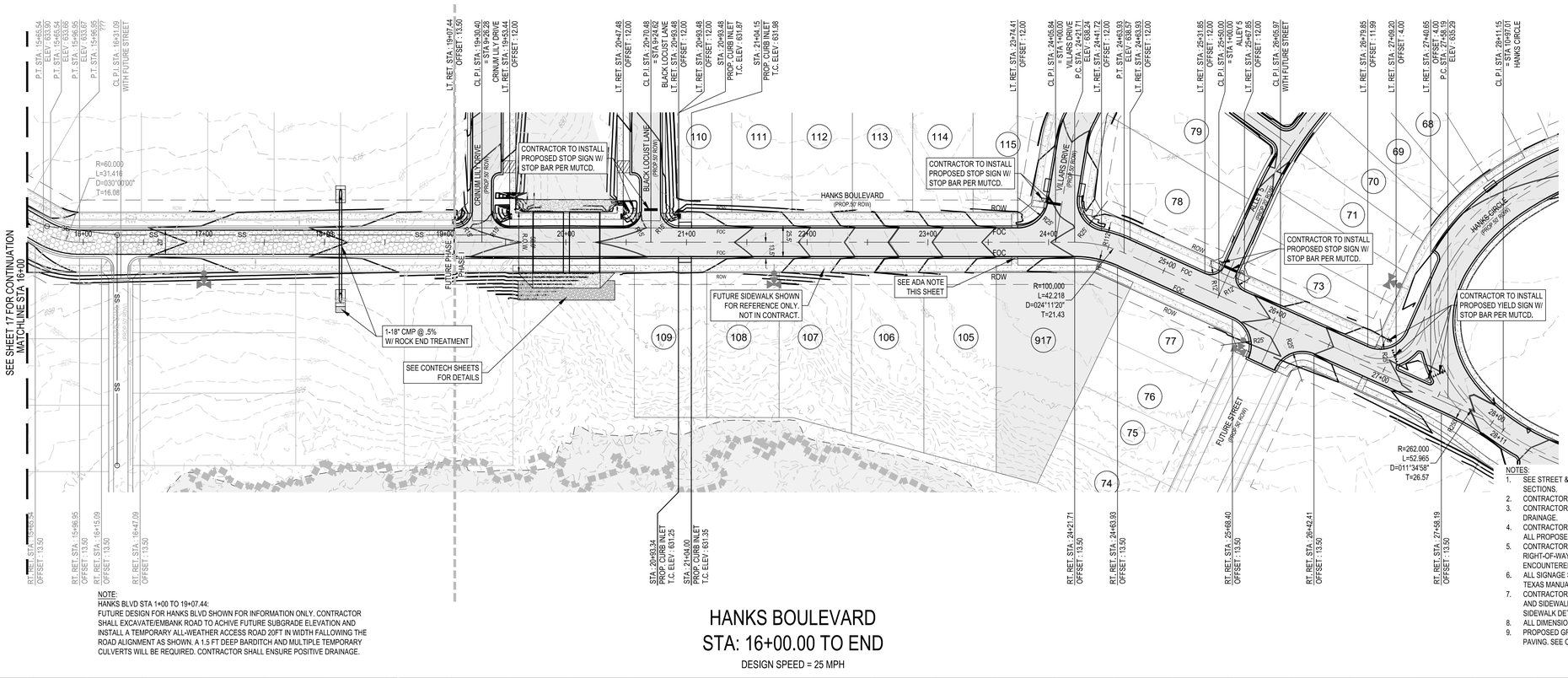
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - HANKS BOULEVARD
STA 5+50 TO STA 16+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP202

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	17 OF 100

Date: Jul 31, 2019, 8:51am User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\0\17 302000 STREET PLAN & PROFILE - HANKS BOULEVARD STA 5+50 to STA 16+00 CP202.dwg



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	
TEMPORARY ACCESS ROAD	

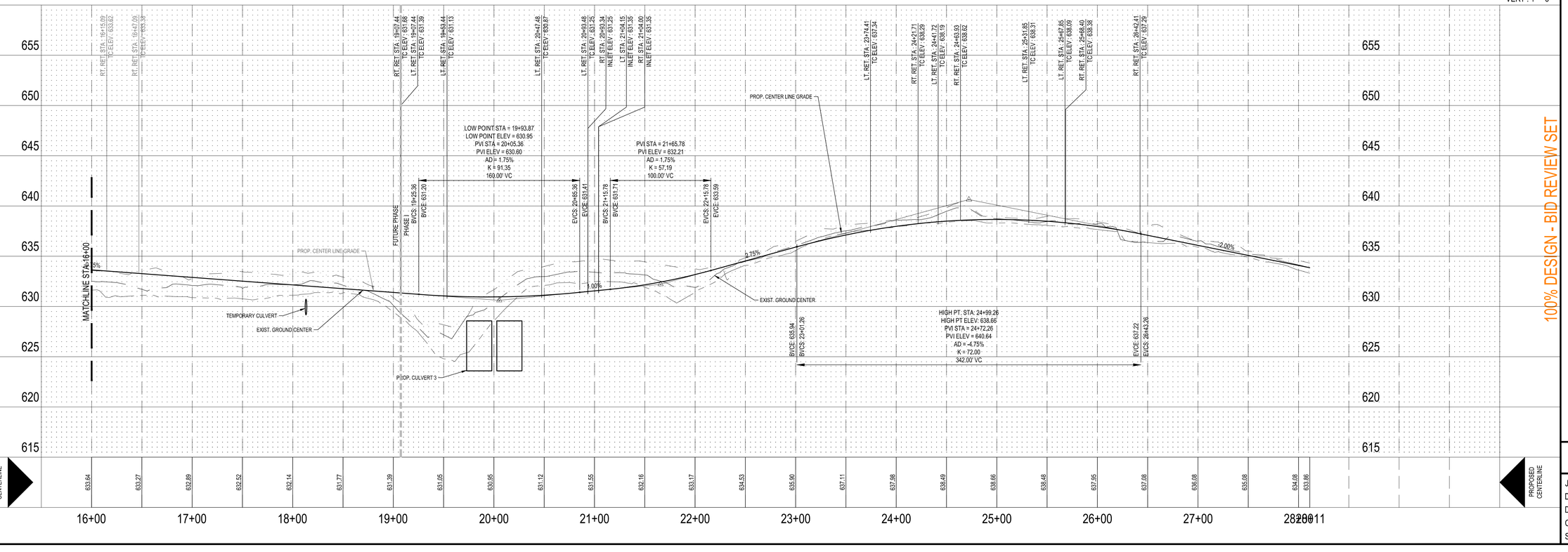
CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

NOTE:
HANKS BLVD STA 1+00 TO 19+07.44:
FUTURE DESIGN FOR HANKS BLVD SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCAVATE/EMBANK ROAD TO ACHIVE FUTURE SUBGRADE ELEVATION AND INSTALL A TEMPORARY ALL-WEATHER ACCESS ROAD 20FT IN WIDTH FALLOWING THE ROAD ALIGNMENT AS SHOWN. A 1.5 FT DEEP BARDITCH AND MULTIPLE TEMPORARY CULVERTS WILL BE REQUIRED. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.

HANKS BOULEVARD
STA: 16+00.00 TO END
DESIGN SPEED = 25 MPH

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

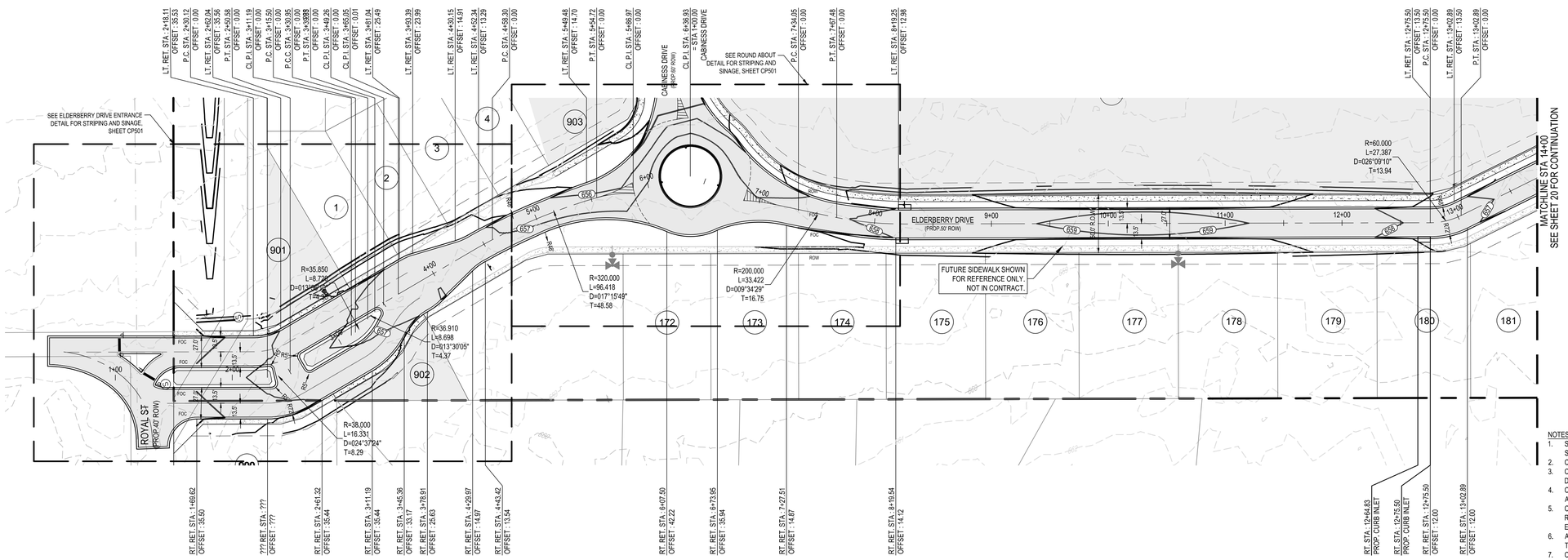
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - HANKS BOULEVARD
STA 16+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP203

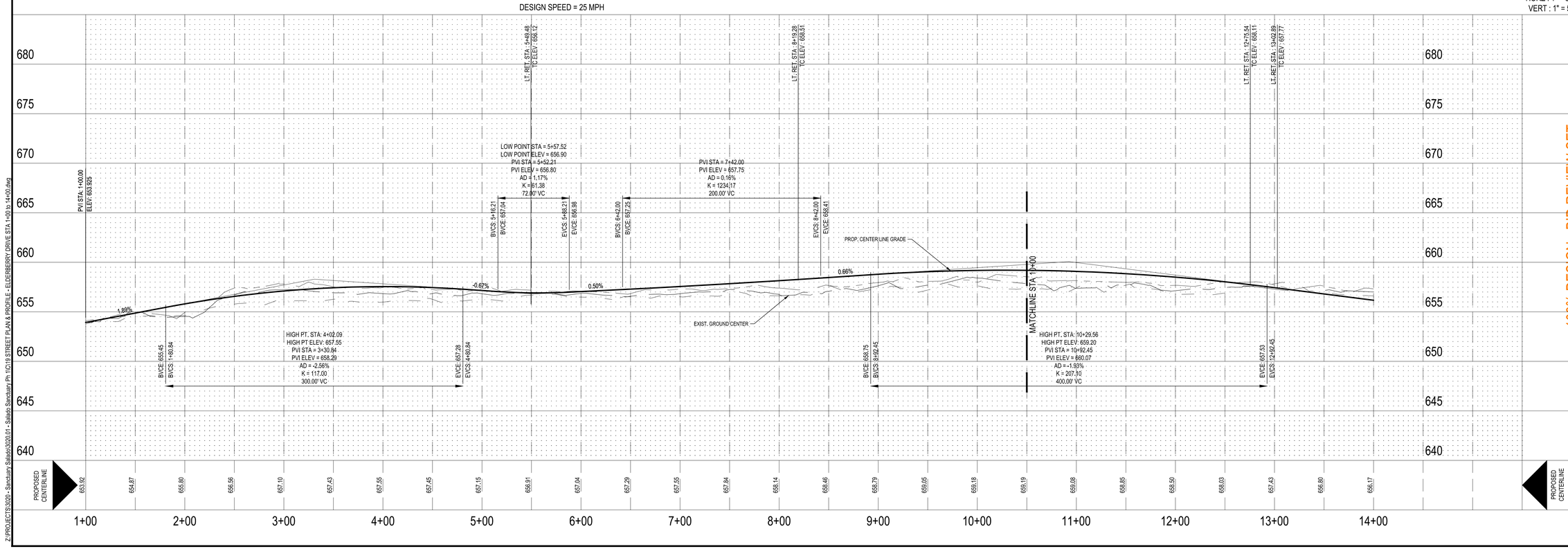
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	18 OF 100

Date: Jul 17, 2019, 11:49am User ID: mskva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph. I\CI\18 3020\00 STREET PLAN & PROFILE - HANKS BOULEVARD STA 16+00 to END CP203.dwg



ELDERBERRY DRIVE
STA: 1+00.00 TO 14+00.00

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

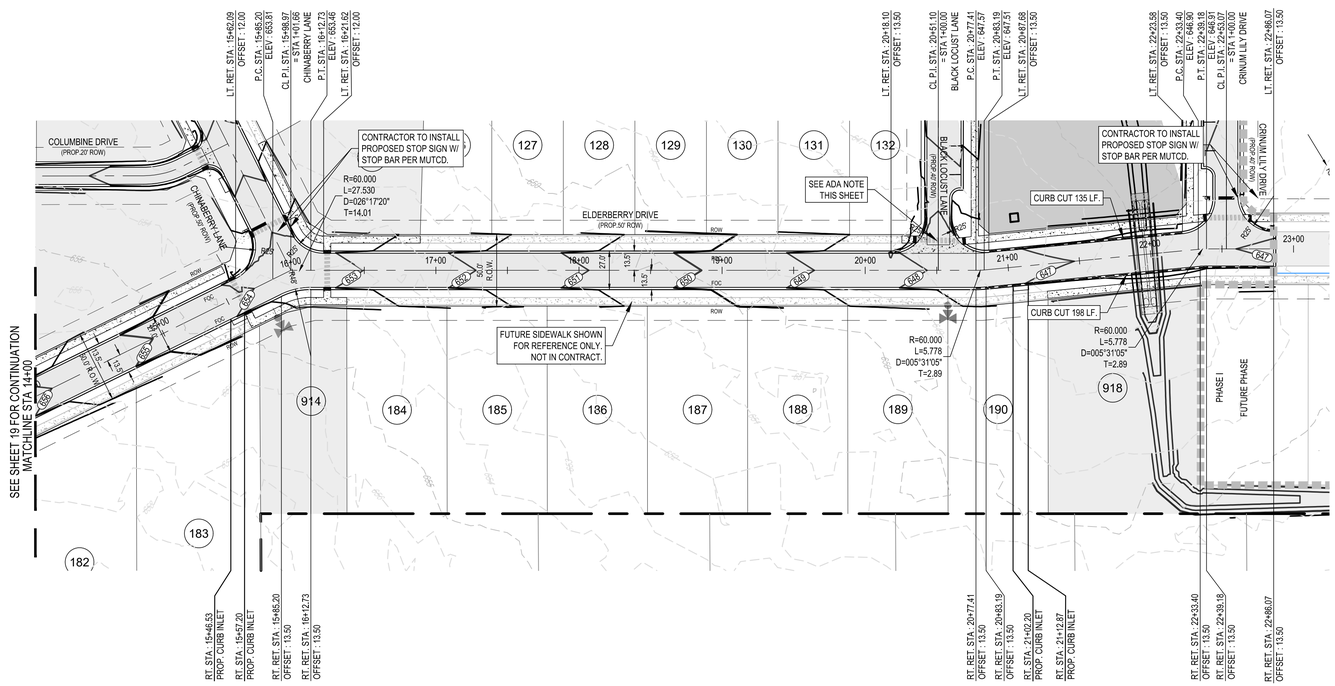
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - ELDERBERRY DRIVE
STA 1+00 TO 14+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP204

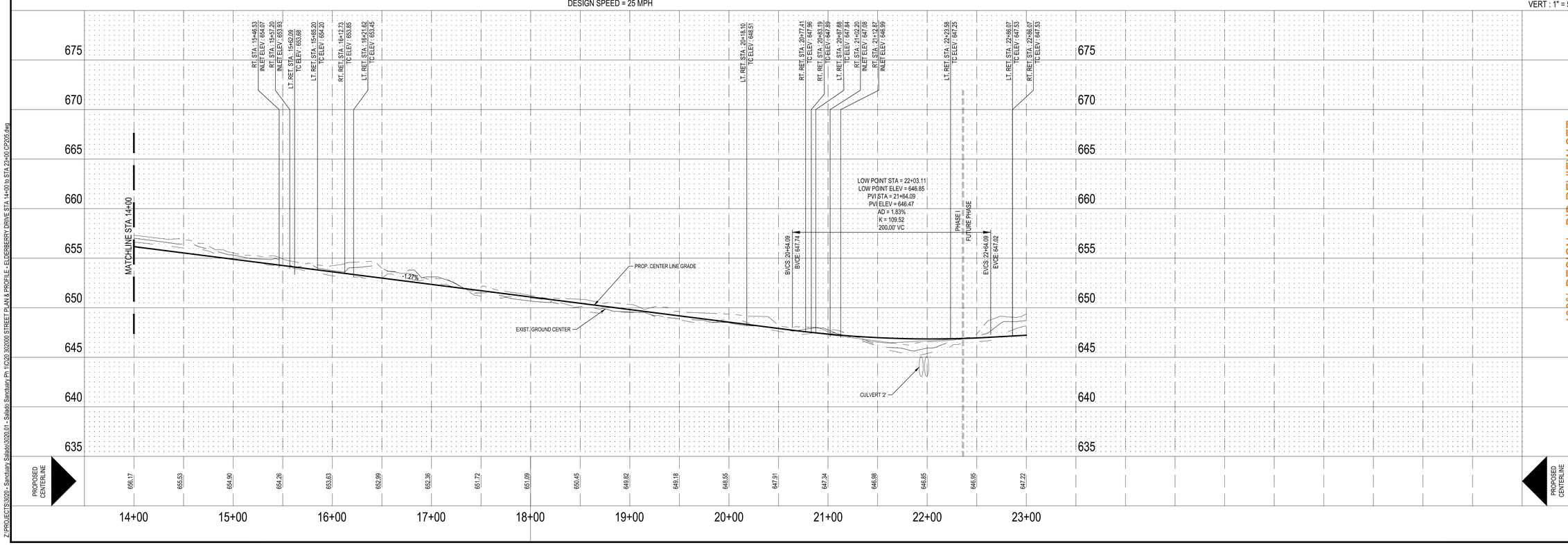
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	19 OF 100

Date: Jul 24, 2019, 8:35am User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG19 STREET PLAN & PROFILE - ELDERBERRY DRIVE STA 1+00 to 14+00.dwg



ELDERBERRY DRIVE
STA: 10+00.00 TO 23+00.00

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

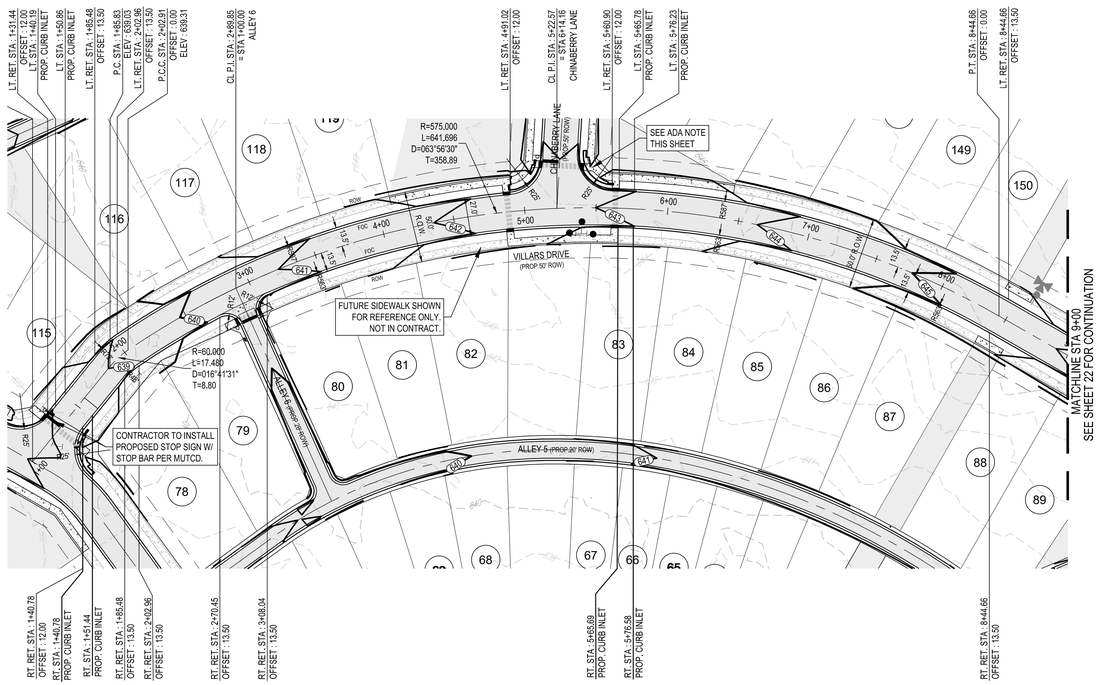
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - ELDERBERRY DRIVE
STA 14+00 TO STA 23+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP205

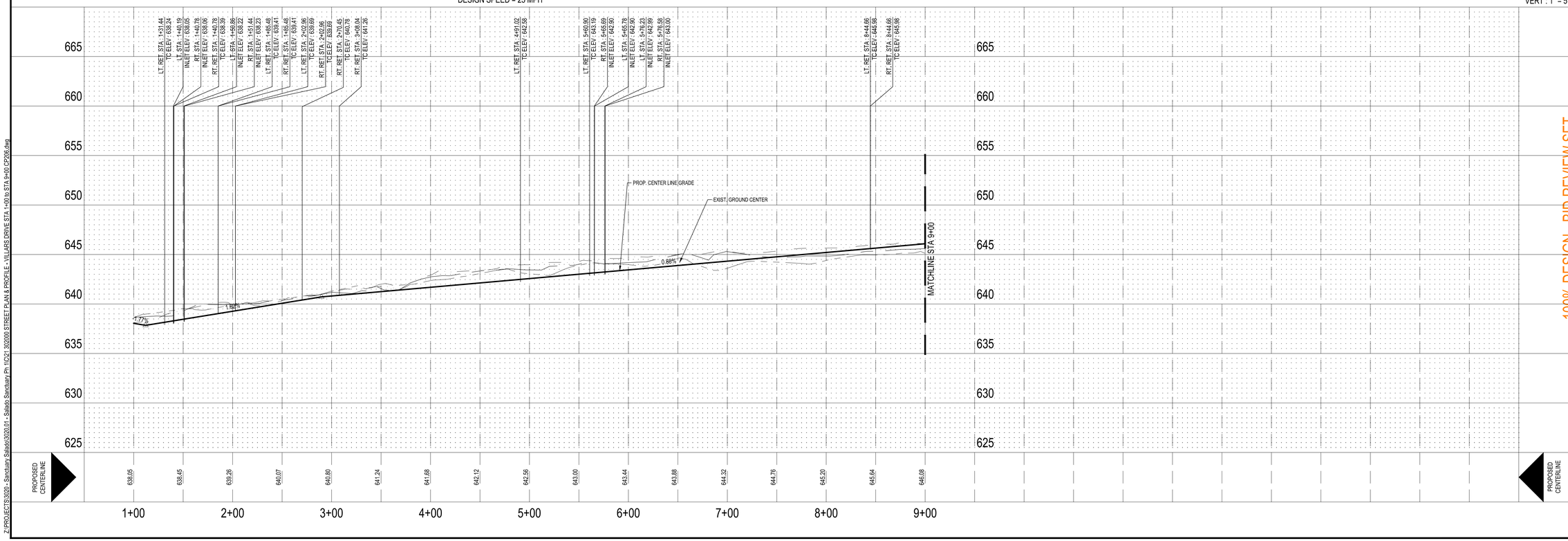
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	20 OF 100

Date: Jul 24, 2019, 9:07am User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD\20 3020\09 STREET PLAN & PROFILE - ELDERBERRY DRIVE STA 14+00 to STA 23+00 CP205.dwg



VILLARS DRIVE
STA: 1+00.00 TO 9+00.00

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
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8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

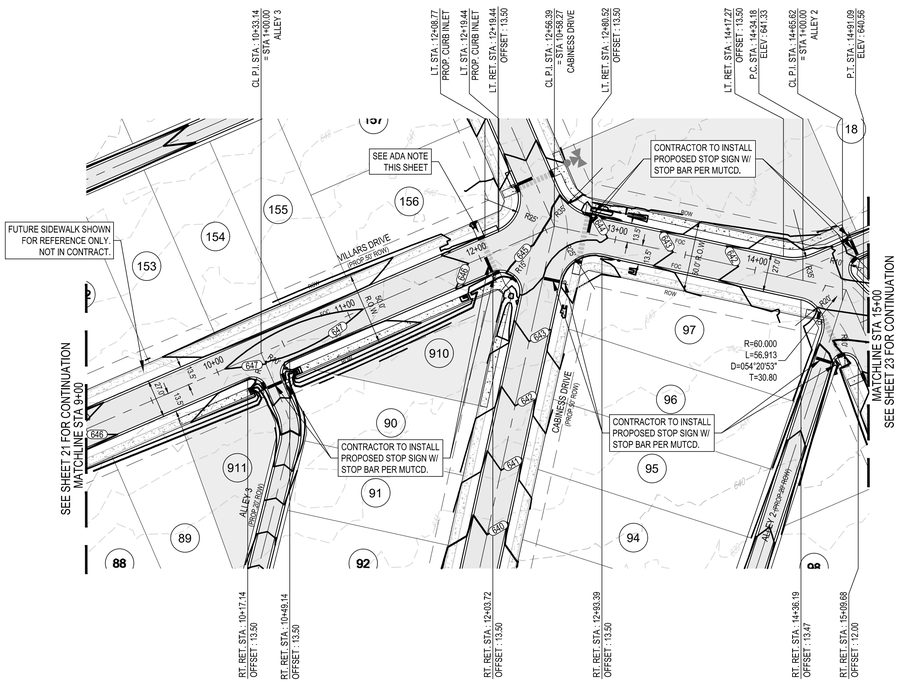
STREET PLAN & PROFILE - VILLARS DRIVE
STA 1+00 TO STA 9+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP206

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	21 OF 100

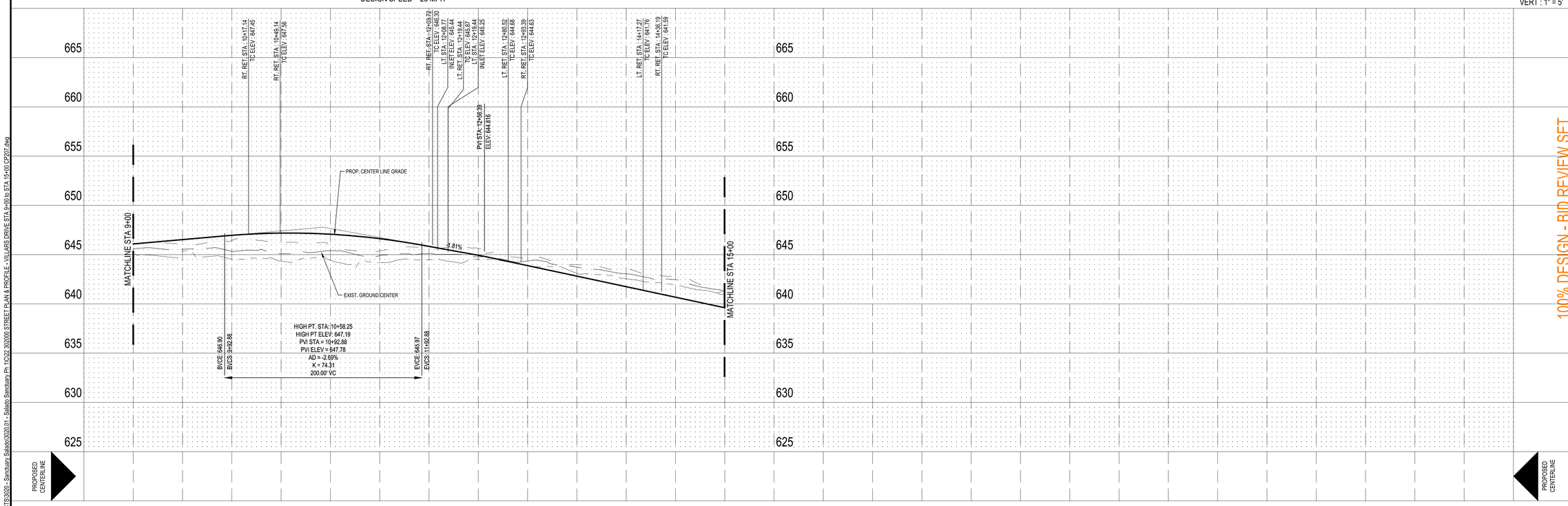
Date: Jul 17, 2019, 3:16pm User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\21 3020\09 STREET PLAN & PROFILE - VILLARS DRIVE STA 1+00 to STA 9+00 CP206.dwg

Date: Jul 17, 2019, 2:47pm User ID: mstva



VILLARS DRIVE
STA: 9+00.00 TO 15+00.00

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD SUITE 100
BOERNE, TEXAS 78006
PHONE: 830.249.0700
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

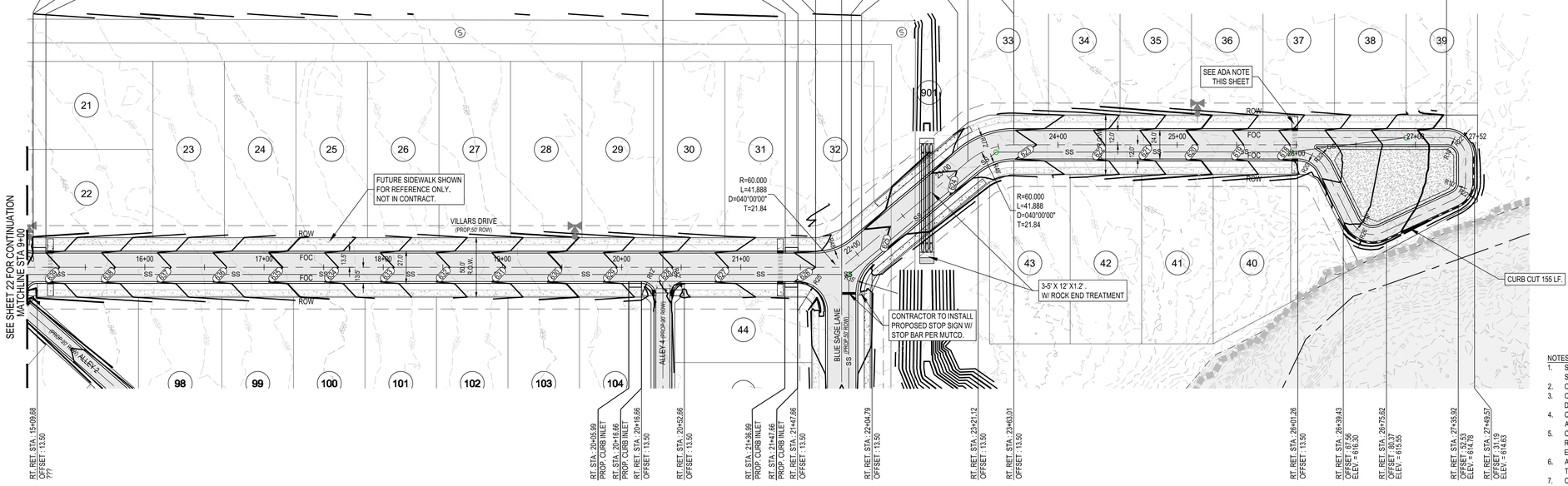
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - VILLARS DRIVE
STA 9+00 TO STA 15+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP207

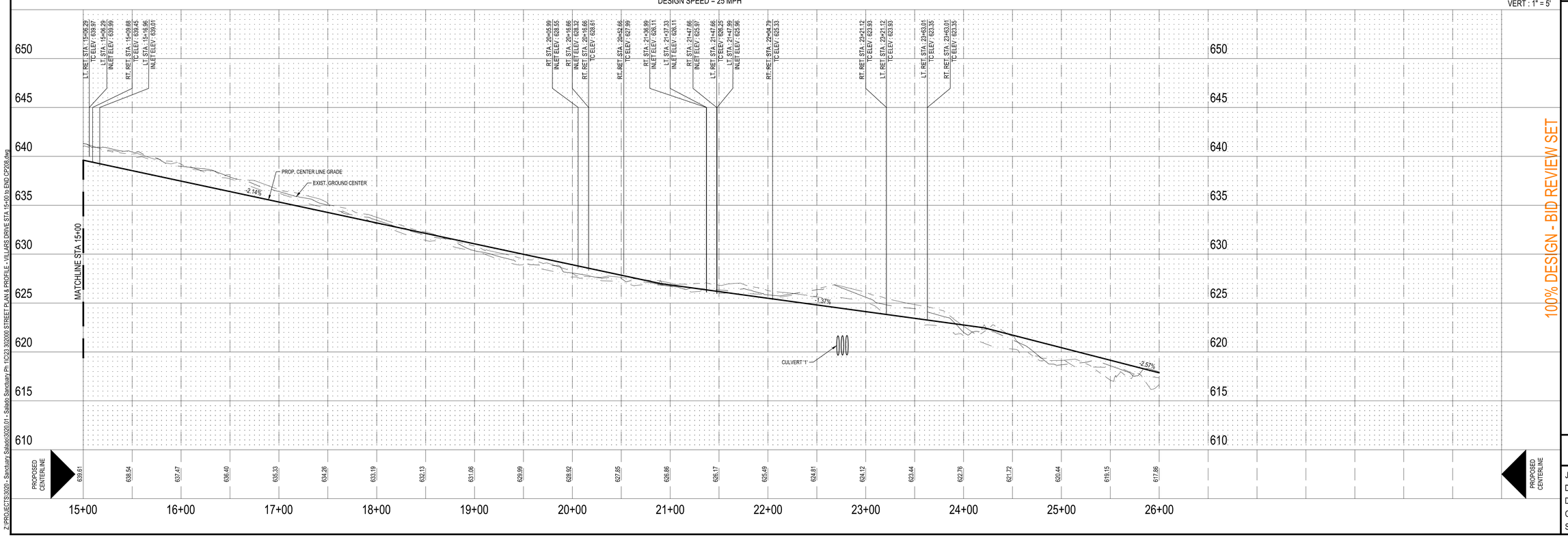
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	22 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CC22 30\2000 STREET PLAN & PROFILE - VILLARS DRIVE STA 9+00 to STA 15+00 CP207.dwg



VILLARS DRIVE
STA: 15+00.00 TO END

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
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9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

N
SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

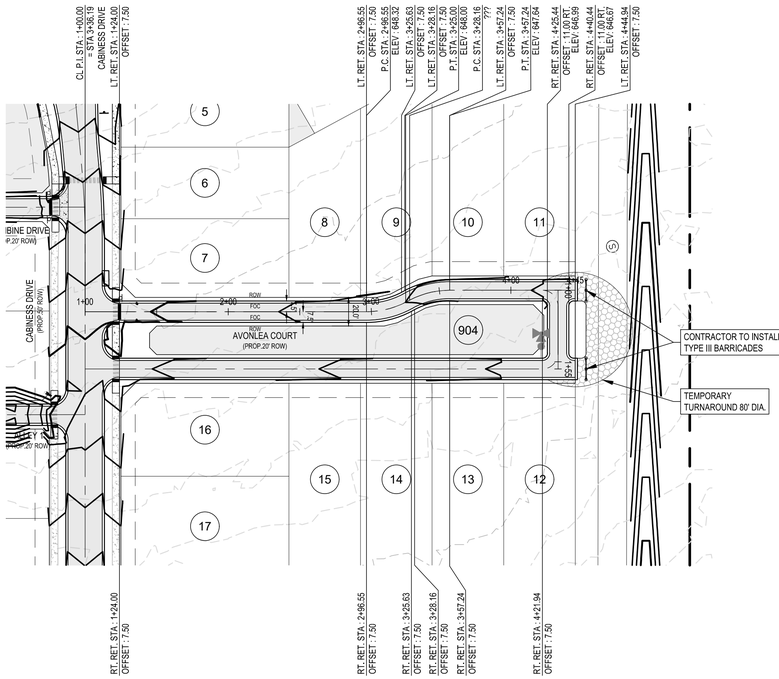
STREET PLAN & PROFILE - VILLARS DRIVE
STA 15+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP208

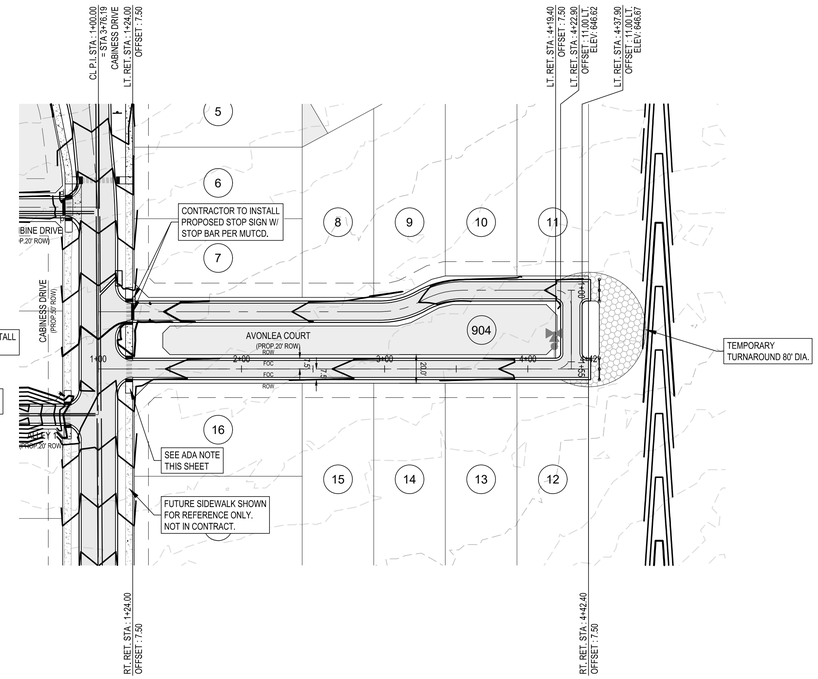
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	23 OF 100

Date: Jul 17, 2019, 3:26pm User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD\3 3020\00 STREET PLAN & PROFILE - VILLARS DRIVE STA 15+00 to END CP208.dwg

Date: Jul 24, 2019, 2:26pm User ID: rwagliardo



AVONLEA COURT WEST
STA: 15+00.00 TO END
DESIGN SPEED = 25 MPH



AVONLEA COURT EAST
STA: 15+00.00 TO END
DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
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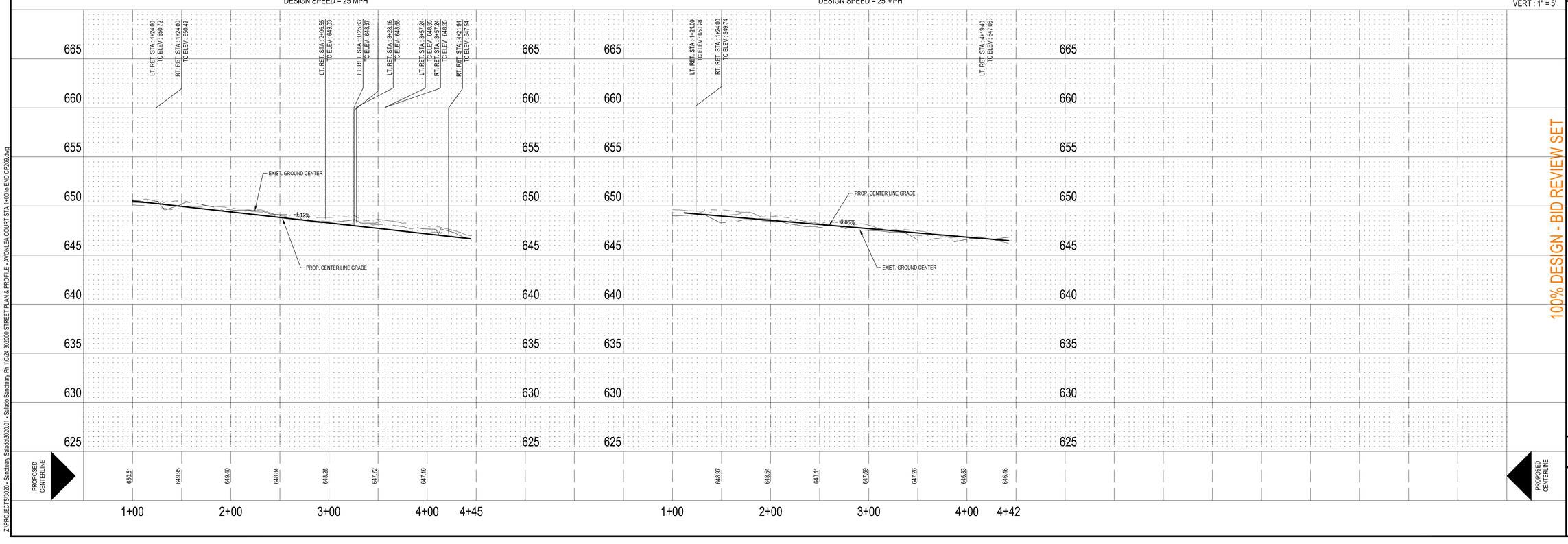
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

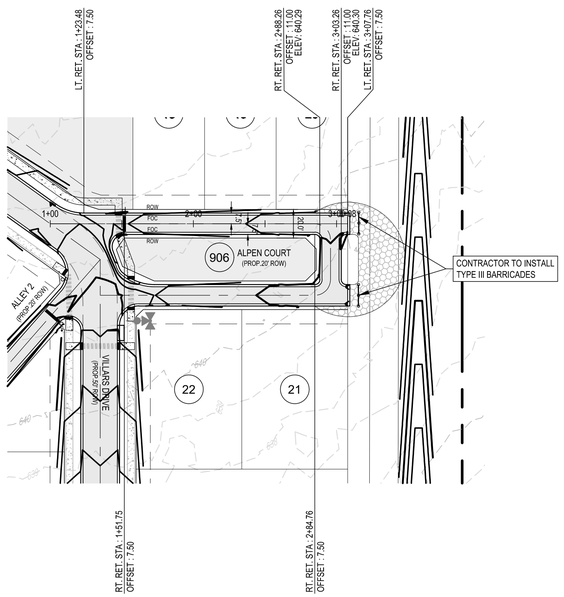
STREET PLAN & PROFILE - AVONLEA COURT STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP209

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	24 OF 100

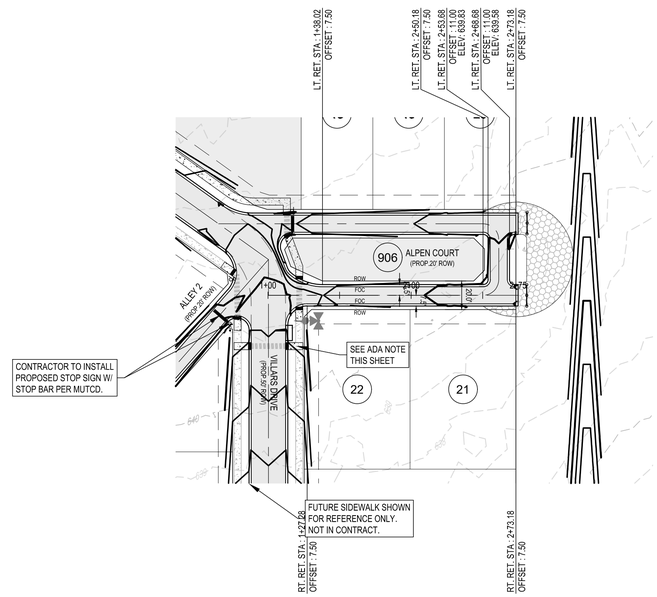
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph. 1\C24\ 3020\00 STREET PLAN & PROFILE - AVONLEA COURT STA 1+00 to END CP209.dwg

Date: Jul 24, 2019, 12:45pm User ID: mslva



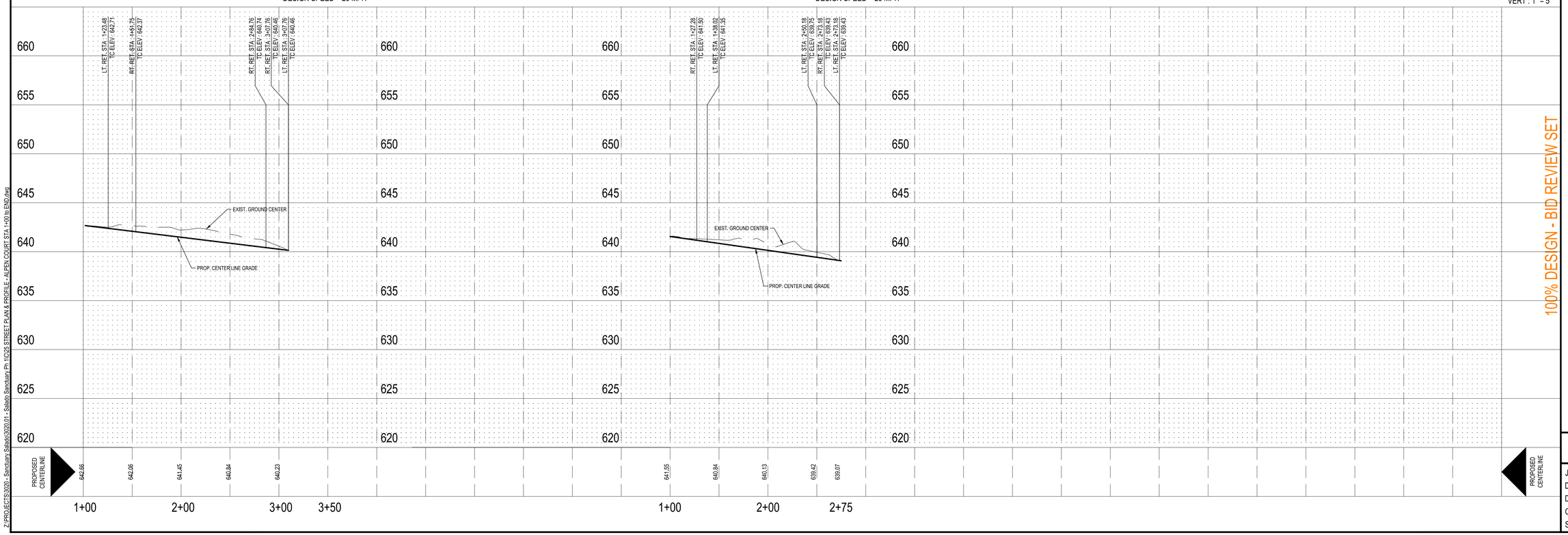
ALPEN COURT WEST
STA: 15+00.00 TO END

DESIGN SPEED = 25 MPH



ALPEN COURT EAST
STA: 15+00.00 TO END

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	H|P
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:

1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
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9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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MATKINHOOVER ENGINEERING & SURVEYING
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BOERNE, TEXAS 78006
PHONE: (830) 249-0776
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

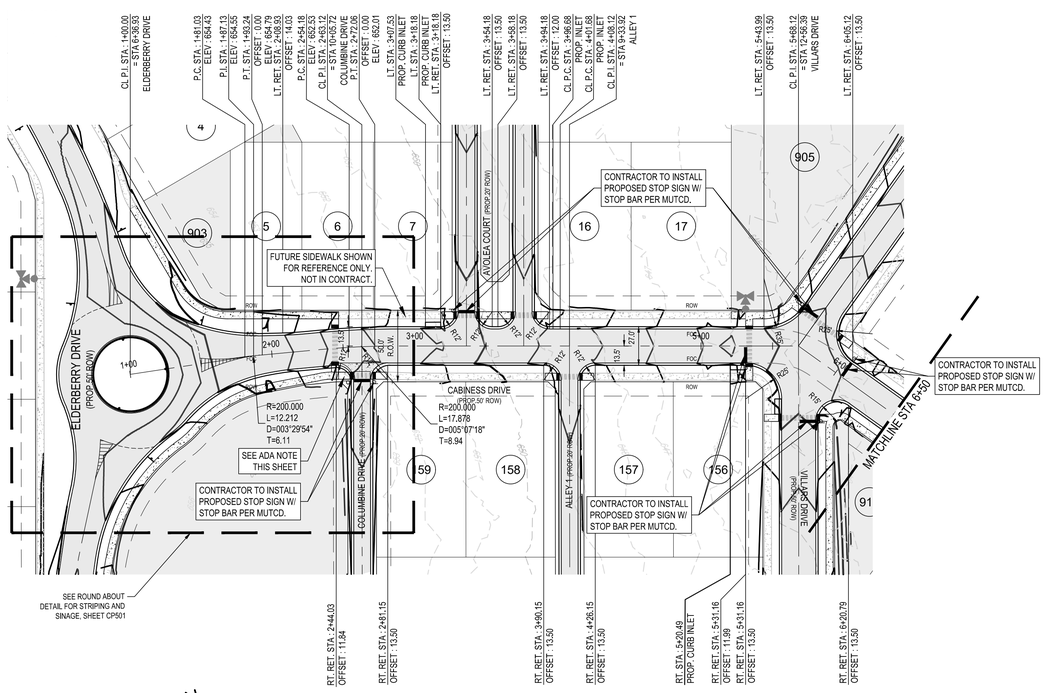
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - ALPEN COURT
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP210

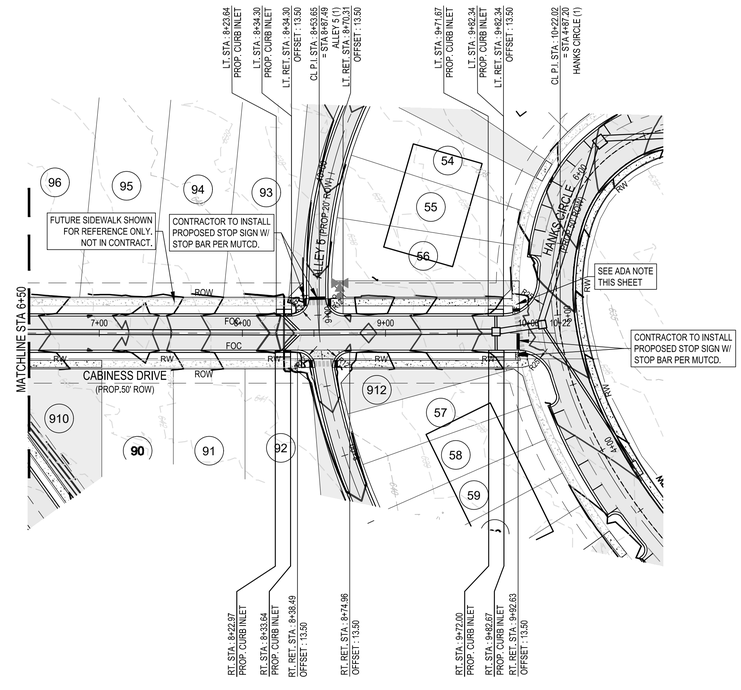
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	25 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD\5 STREET PLAN & PROFILE - ALPEN COURT STA 1+00 to END.dwg



CABINESS DRIVE
STA: 1+00.00 TO 6+50.00

DESIGN SPEED = 25 MPH



CABINESS DRIVE
STA: 6+50.00 TO END

DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1445
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

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CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
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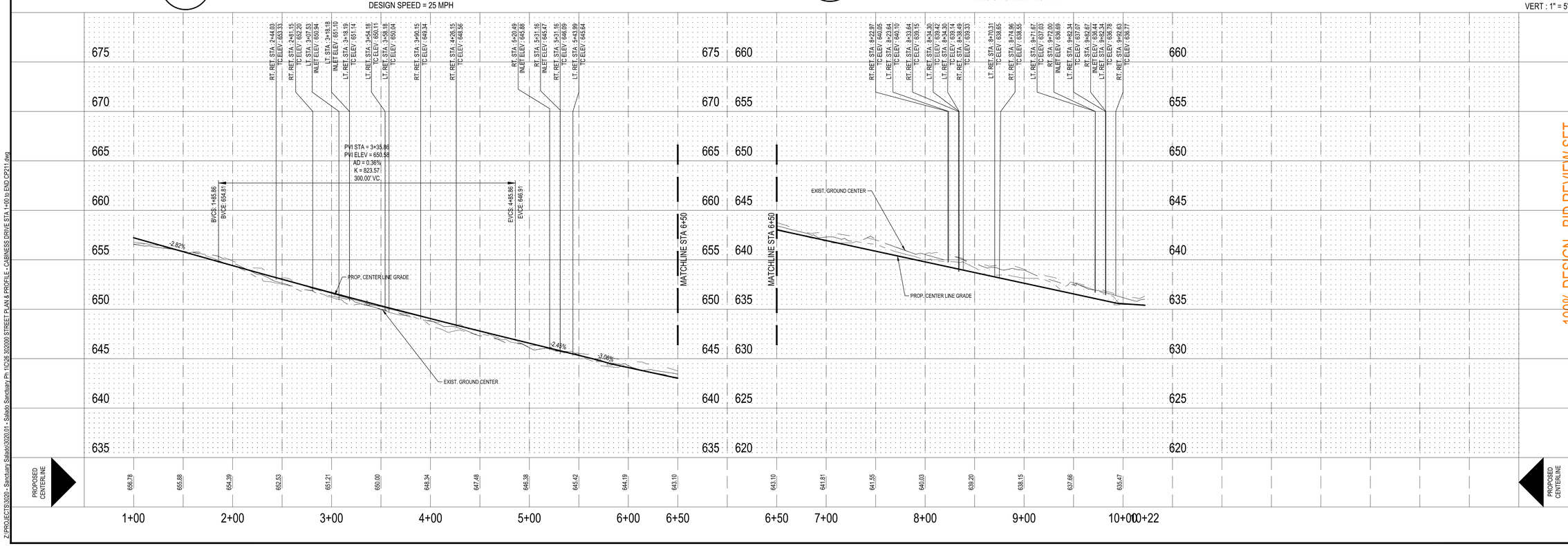
PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

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8 SPENCER ROAD SUITE 100
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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

STREET PLAN & PROFILE - CABINESS DRIVE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

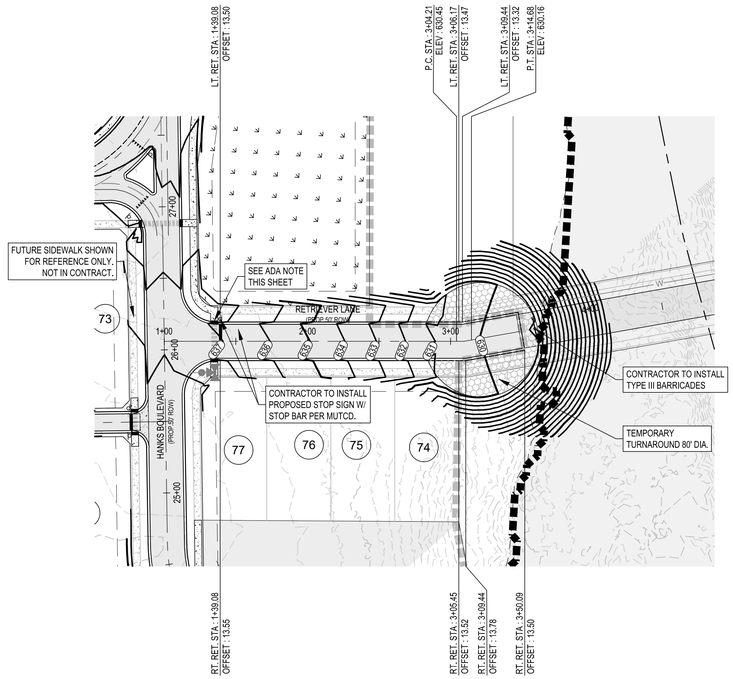
CP211

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	26 OF 100

Date: Aug 01, 2019, 12:12pm User ID: meslva

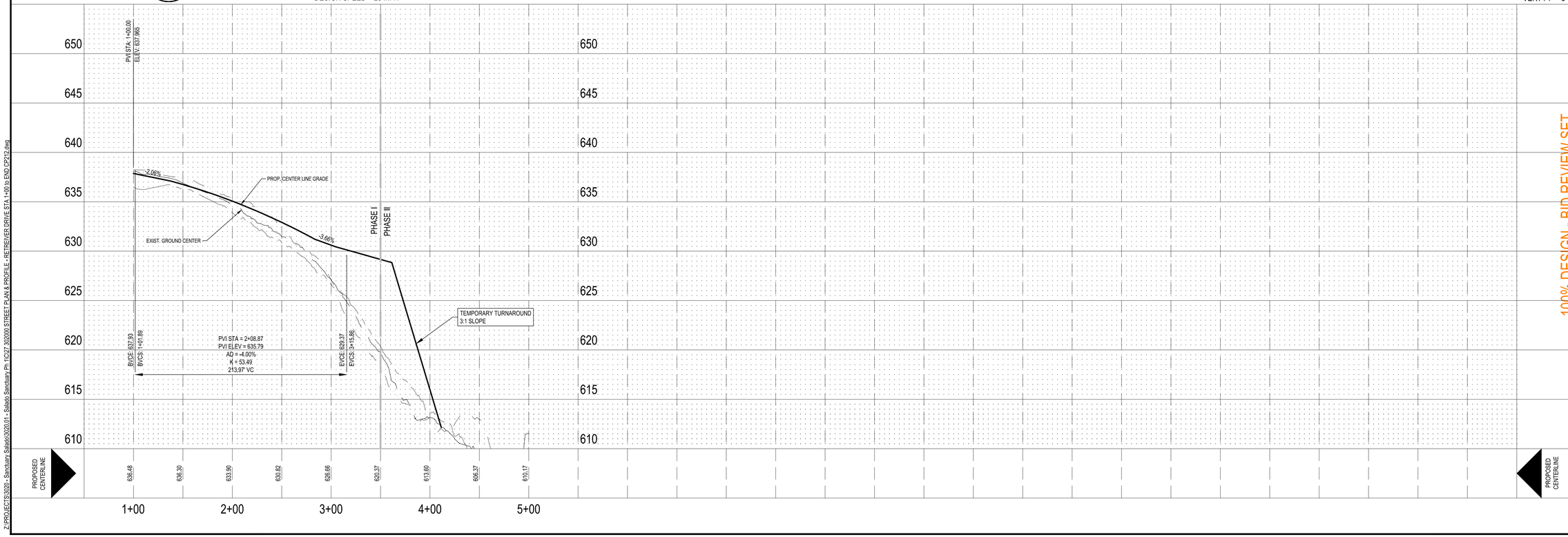
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD 3020\00 STREET PLAN & PROFILE - CABINESS DRIVE-STA 1+00 to END-CP211.dwg

Date: Jul 30, 2019, 3:25pm User ID: mstva



RETRIEVER LANE
STA: 1+00.00 TO 5+00.00

DESIGN SPEED = 25 MPH



PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

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SCALE: 1"=50'
0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
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CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

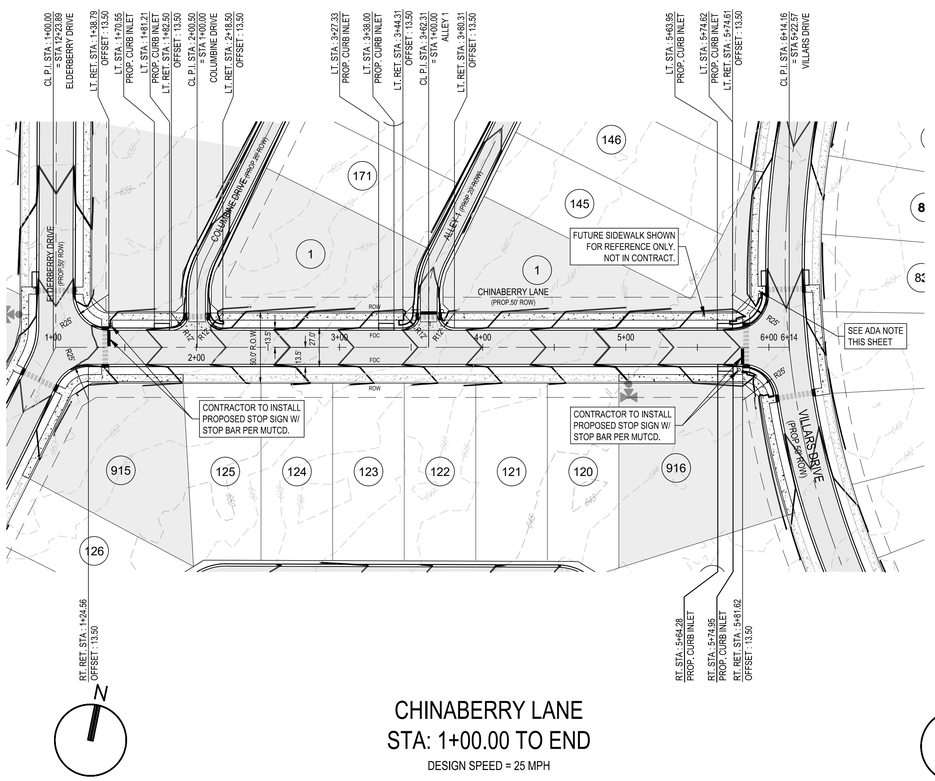
100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - RETREIVER LANE STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP212

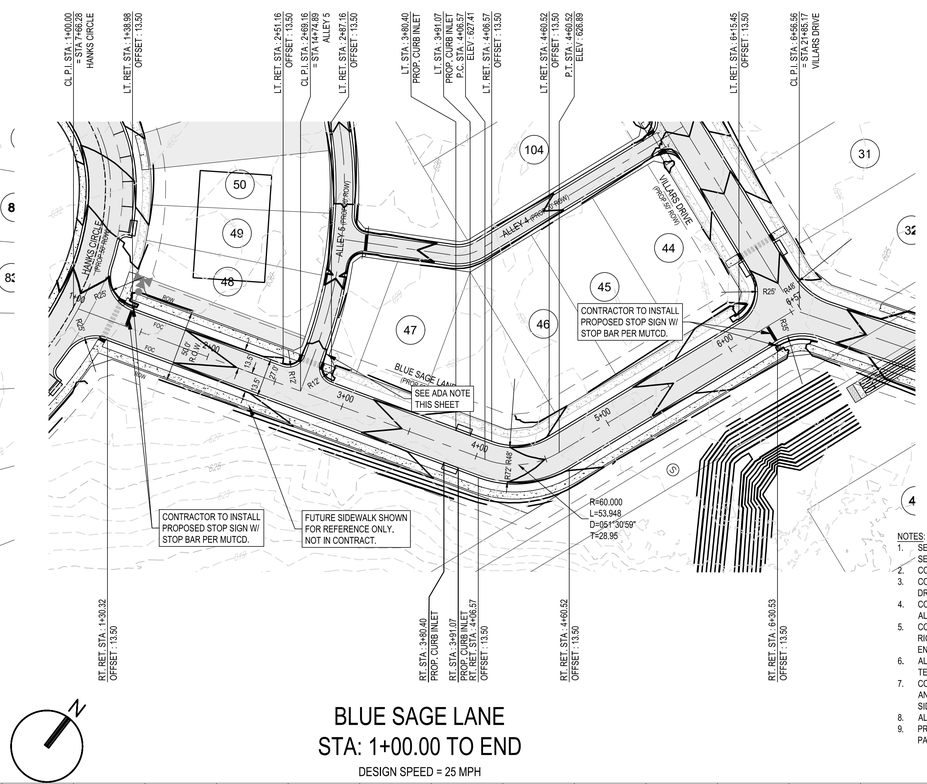
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	27 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CP2 3020\00 STREET PLAN & PROFILE - RETREIVER DRIVE STA 1+00 to END CP212.dwg



CHINABERRY LANE
STA: 1+00.00 TO END

DESIGN SPEED = 25 MPH



BLUE SAGE LANE
STA: 1+00.00 TO END

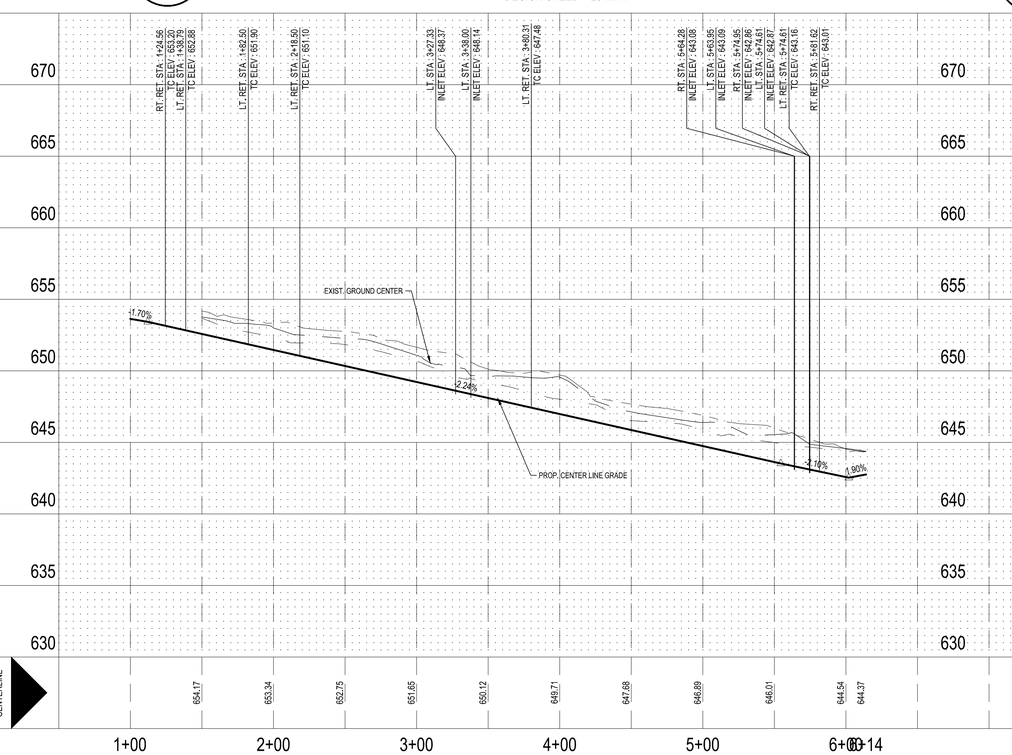
DESIGN SPEED = 25 MPH

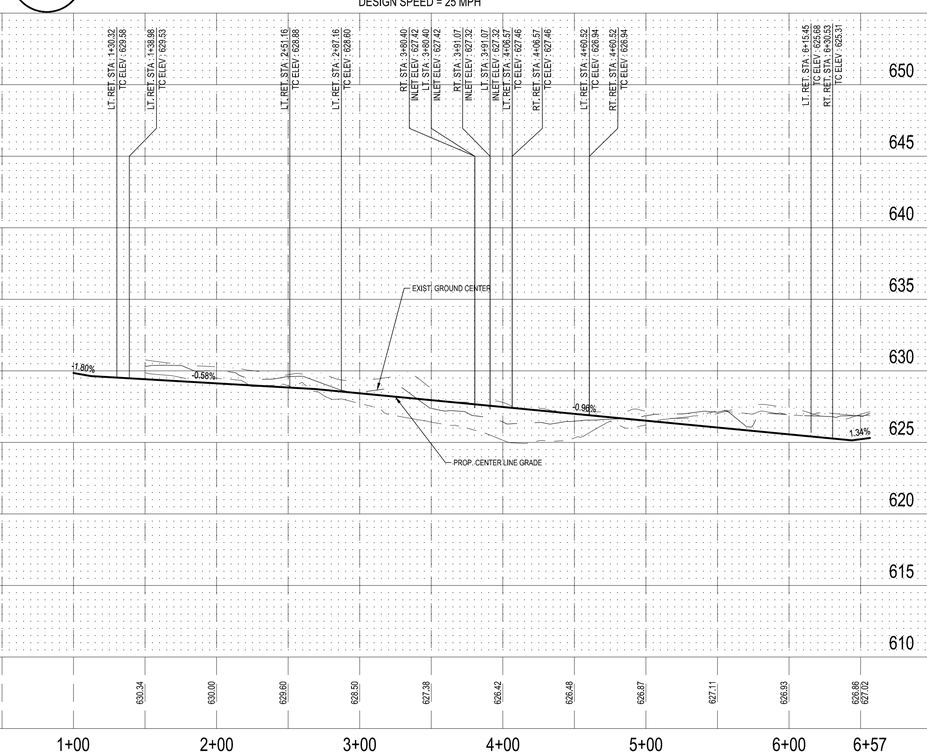
LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .





SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

REVISIONS:

MATKINHOOVER ENGINEERING & SURVEYING
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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
PHONE: 512.868.2244
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

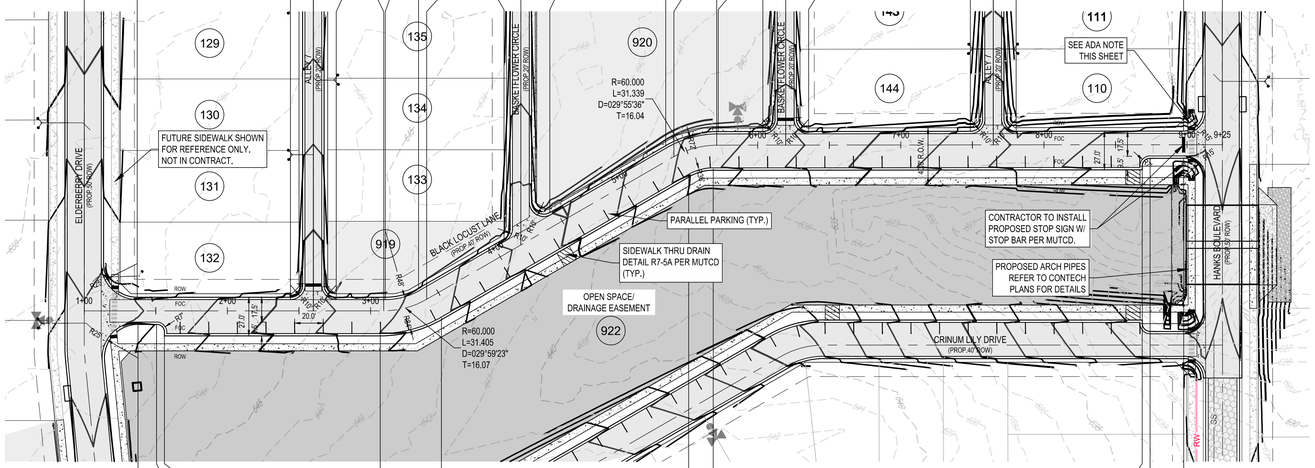
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET PLAN & PROFILE - CHINABERRY LANE STA 1+00 TO END & BLUE SAGE LANE STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CP213

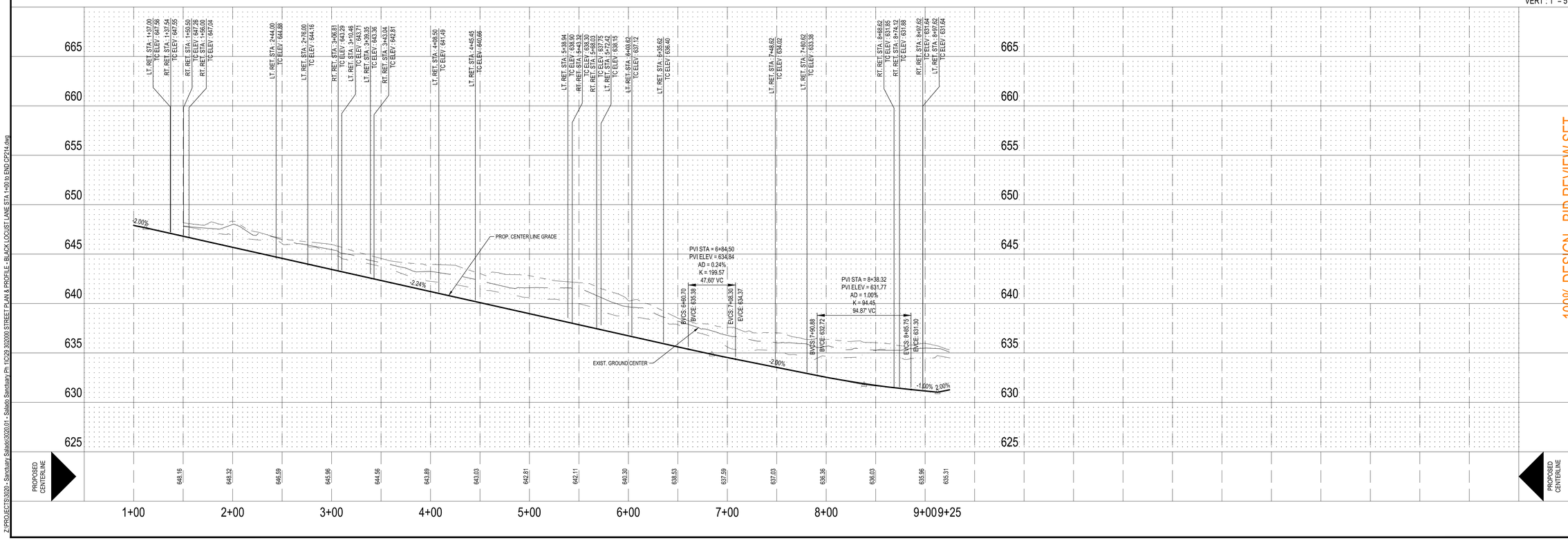
JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	28 OF 100

Date: Jul 17, 2019, 6:13pm User ID: mstka
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CP28 3020\00 STREET PLAN & PROFILE - CHINABERRY LANE STA 1+00 to END.CP213.dwg



BLACK LOCUST LANE
STA: 1+00.00 TO END

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	
TEMPORARY ACCESS ROAD	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

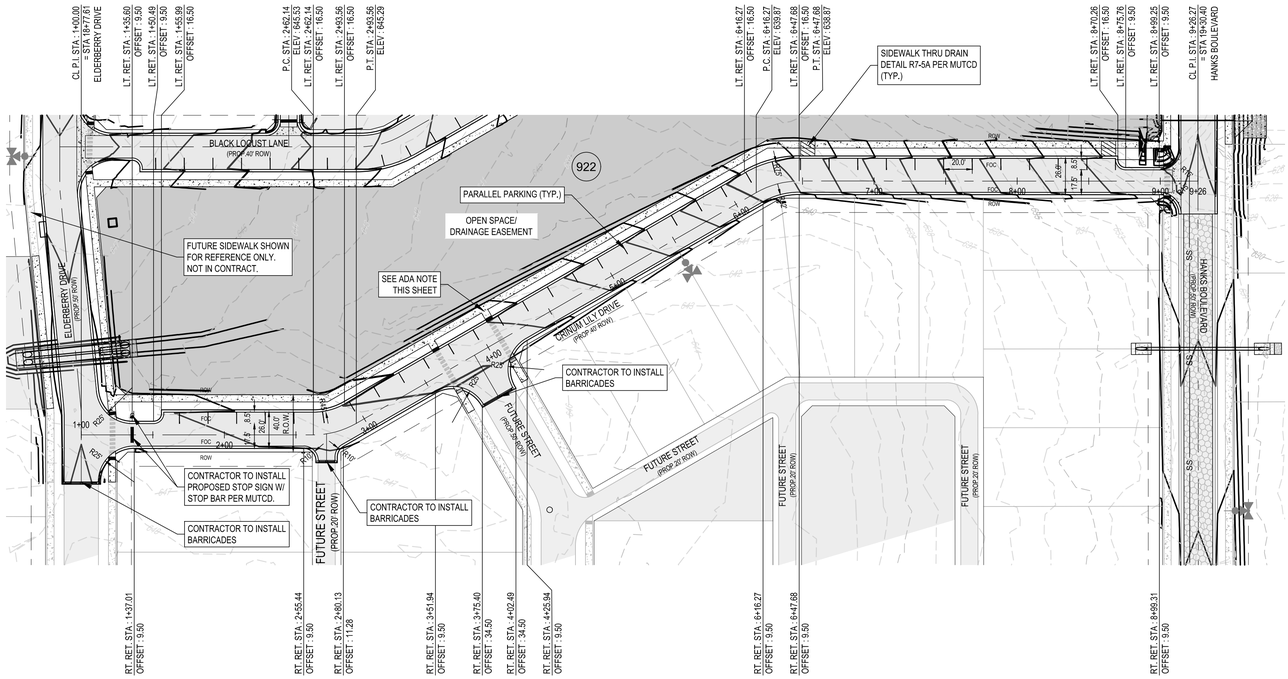
STREET PLAN & PROFILE - BLACK LOCUST LANE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP214

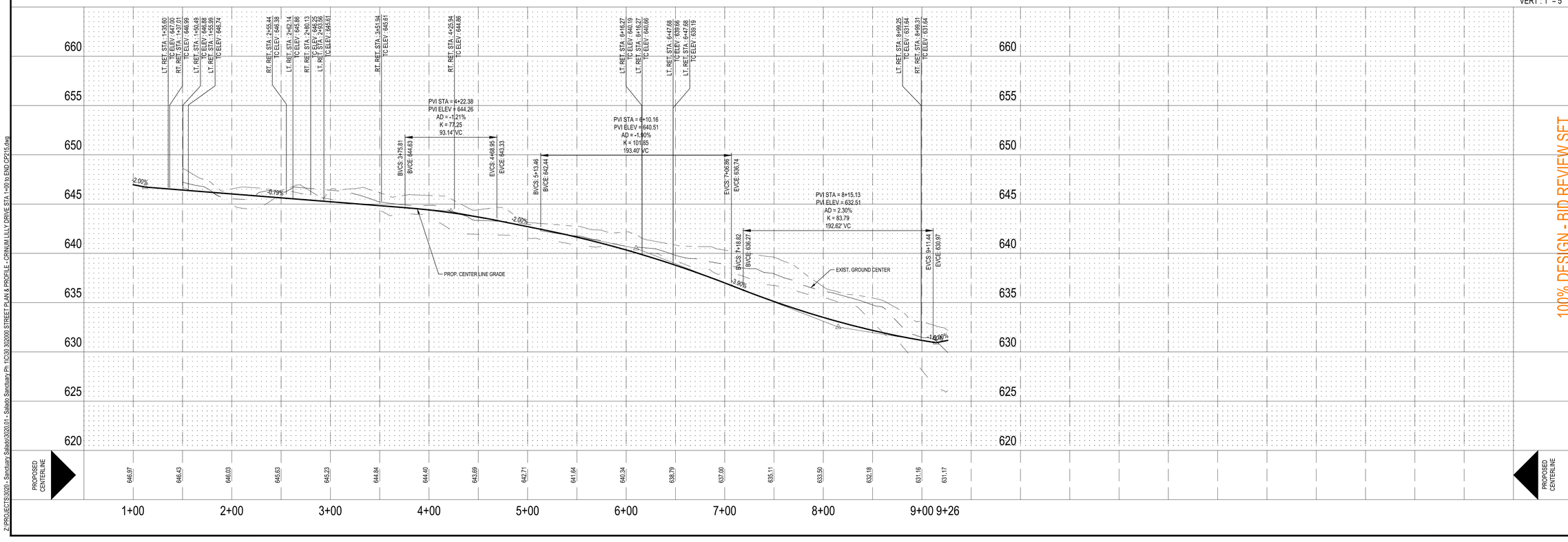
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	29 OF 100

Date: Jul 17, 2019, 8:45pm User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CP\3 3020\00 STREET PLAN & PROFILE - BLACK LOCUST LANE STA 1+00 to END CP214.dwg

Date: Jul 17, 2019, 6:49pm User ID: mstva



CRINUM LILY DRIVE
STA: 1+00.00 TO END
DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	
TEMPORARY ACCESS ROAD	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
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7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10034000

100% DESIGN - BID REVIEW SET

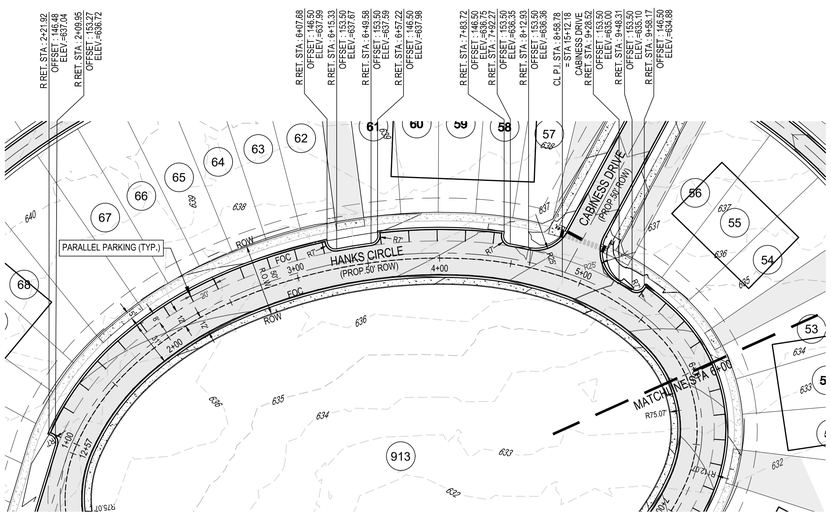
STREET PLAN & PROFILE - CRINUM LILLY DRIVE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP215

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	30 OF 100

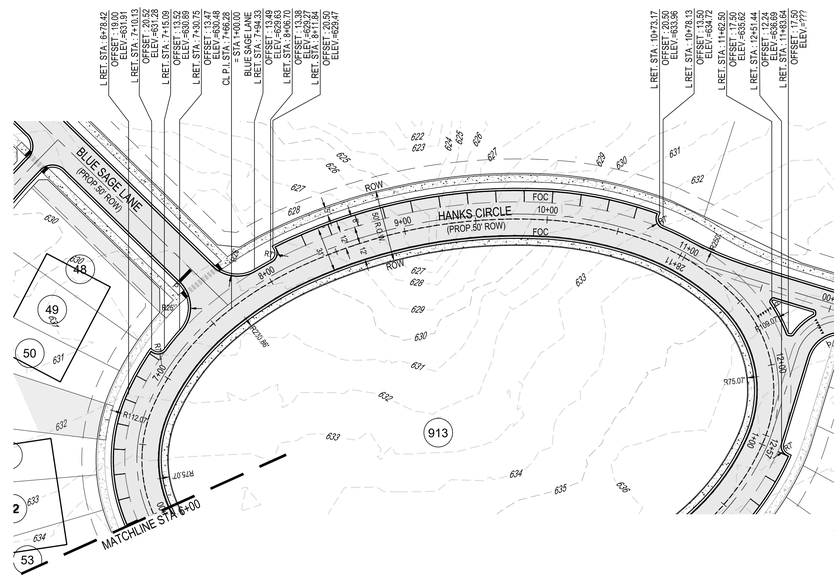
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph. 1\C3D\ 3020200 STREET PLAN & PROFILE - CRINUM LILLY DRIVE-STA 1+00 to END-CP215.dwg

Date: Jul 17, 2019, 7:33pm User ID: mstva



HANKS CIRCLE
STA: 1+00.00 TO 6+50.00

DESIGN SPEED = 25 MPH



HANKS CIRCLE
STA: 6+50.00 TO END

DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
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8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

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REVISIONS:

MATKINHOOVER ENGINEERING & SURVEYING
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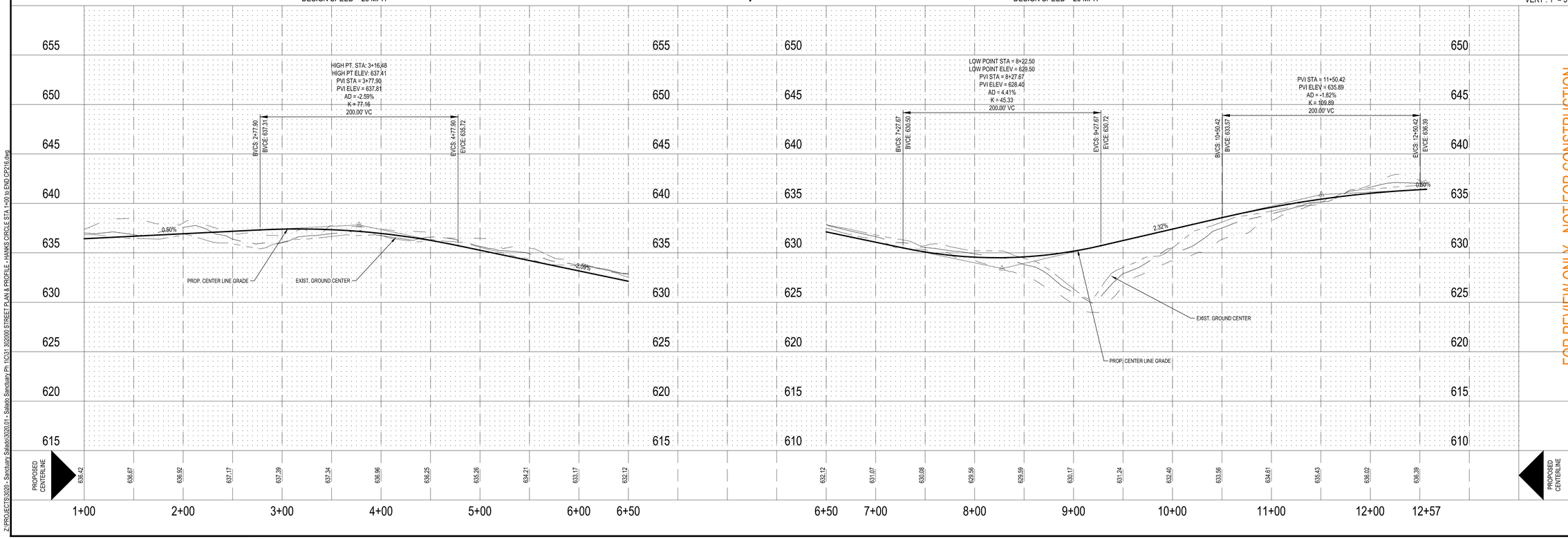
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000



FOR REVIEW ONLY - NOT FOR CONSTRUCTION

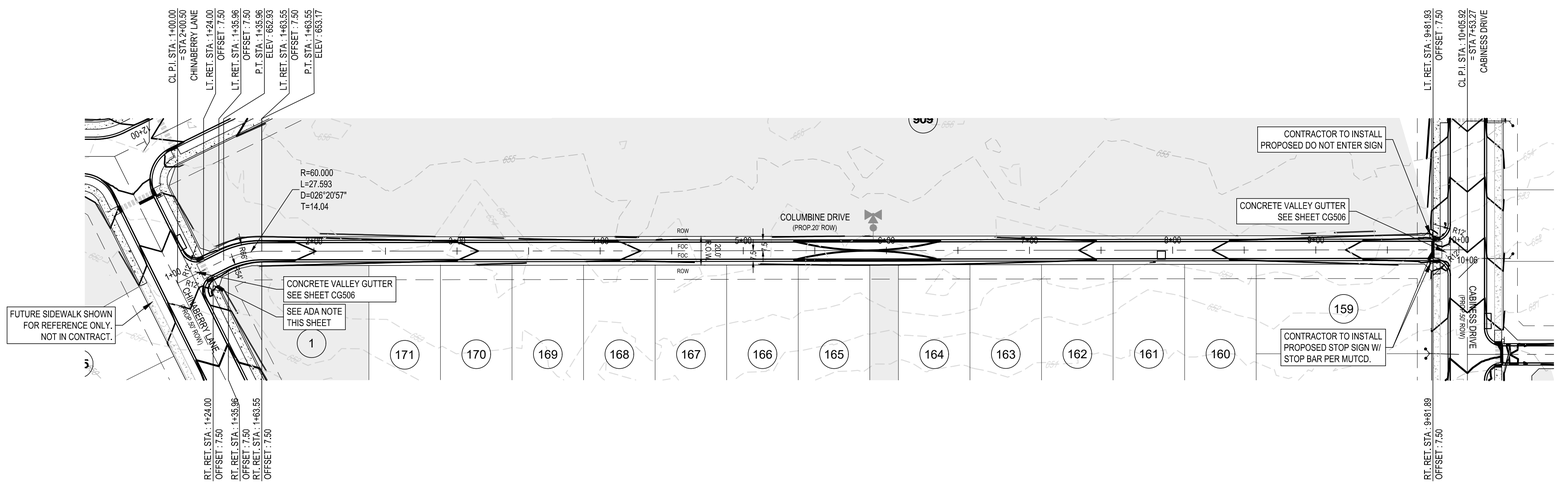
STREET PLAN & PROFILE - HANKS CIRCLE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CP216

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	31 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG31-302000 STREET PLAN & PROFILE - HANKS CIRCLE STA 1+00 to END CP216.dwg

Date: Jul 17, 2019, 7:48pm User ID: mstva



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER

PRELIMINARY

6-5-2019

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CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:

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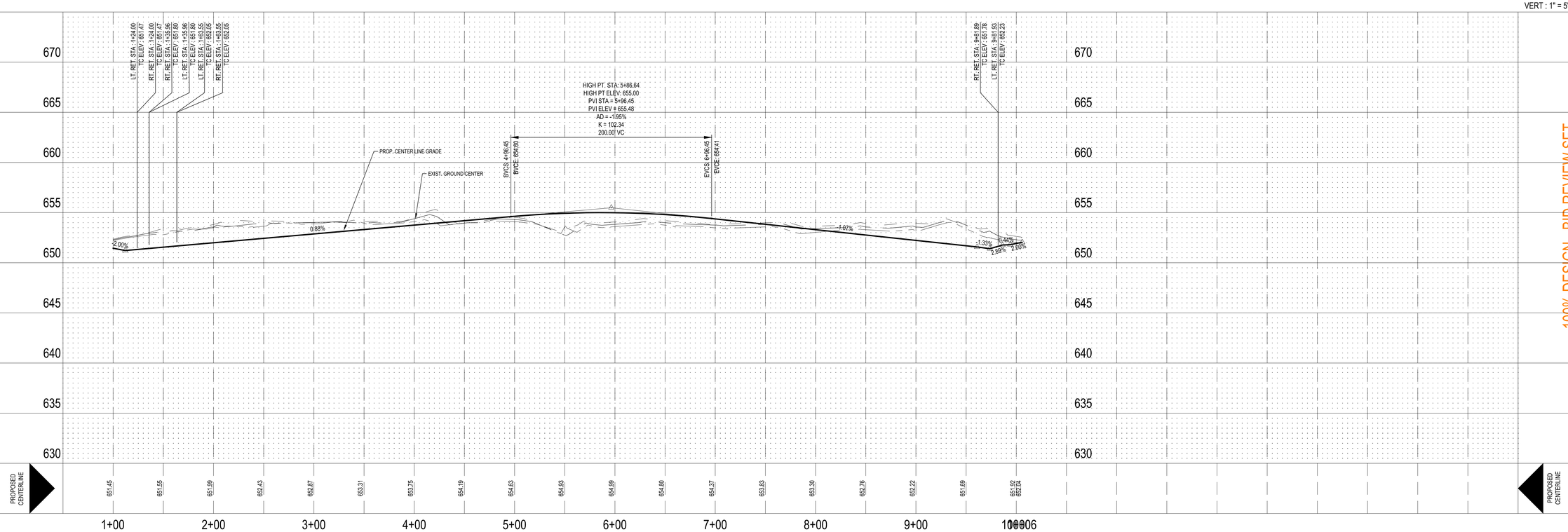
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

COLUMBINE DRIVE
STA: 1+00.00 TO END

DESIGN SPEED = 25 MPH



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GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

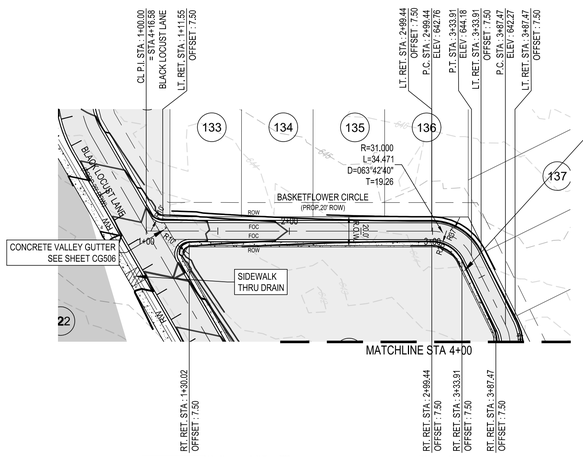
STREET PLAN & PROFILE - COLUMBINE DRIVE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP217

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	32 OF 100

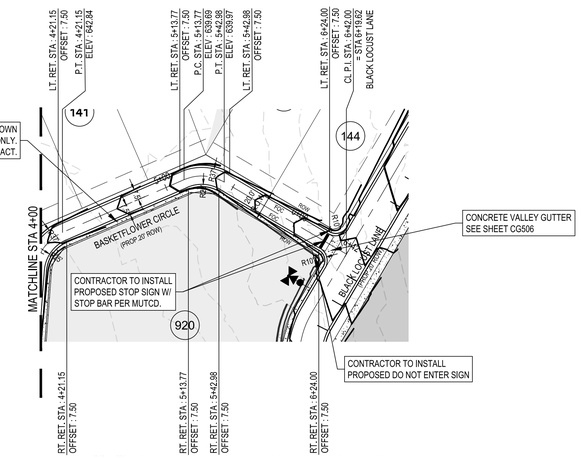
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\32 302000 STREET PLAN & PROFILE - COLUMBINE DRIVE STA 1+00 to END CP217.dwg

Date: Jul 17, 2019, 8:13pm User ID: mstva



BASKETFLOWER CIRCLE
STA: 1+00.00 TO 4+00.00

DESIGN SPEED = 25 MPH



BASKETFLOWER CIRCLE
STA: 4+00.00 TO END

DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:

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2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
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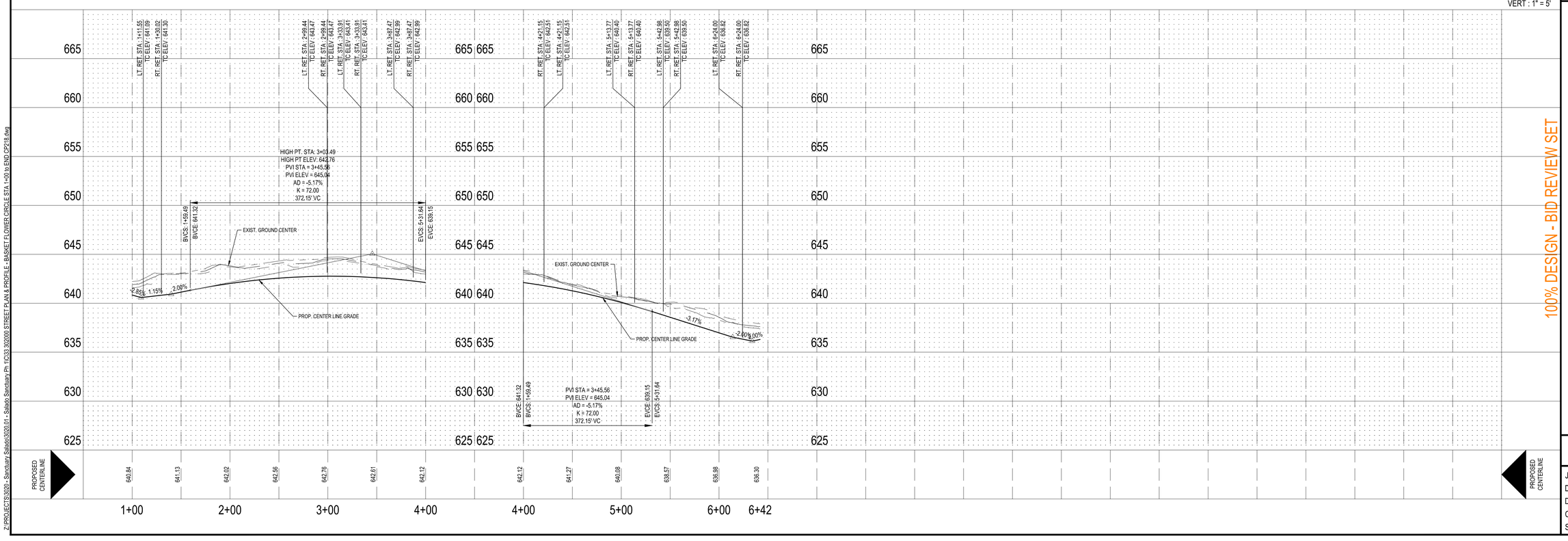
PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD SUITE 100
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PHONE: 210.545.1029
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

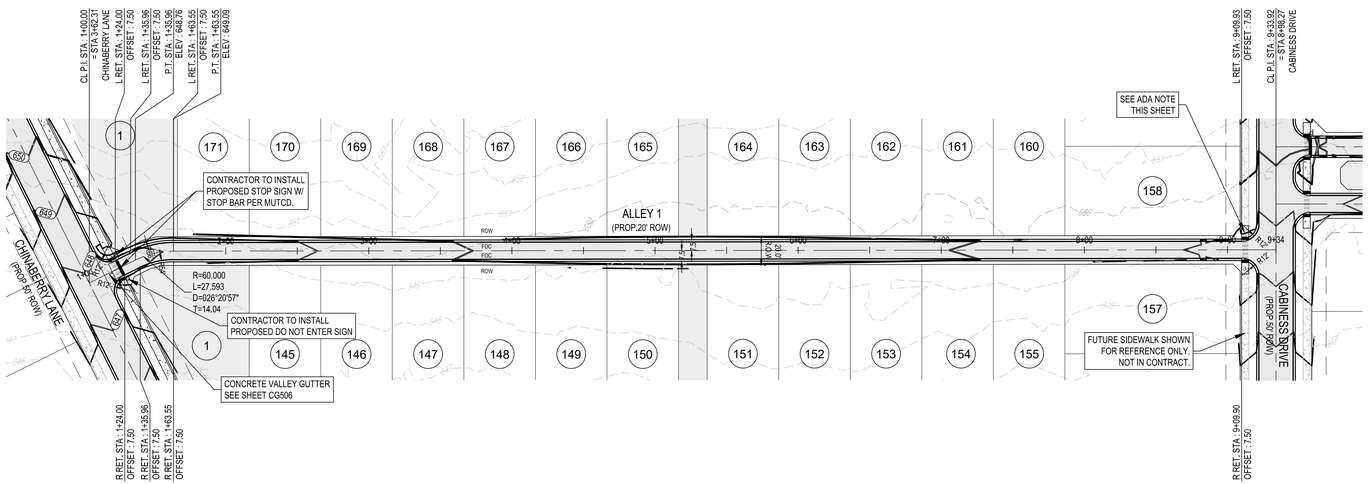
STREET PLAN & PROFILE - BASKET FLOWER CIRCLE
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP218

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	33 OF 100

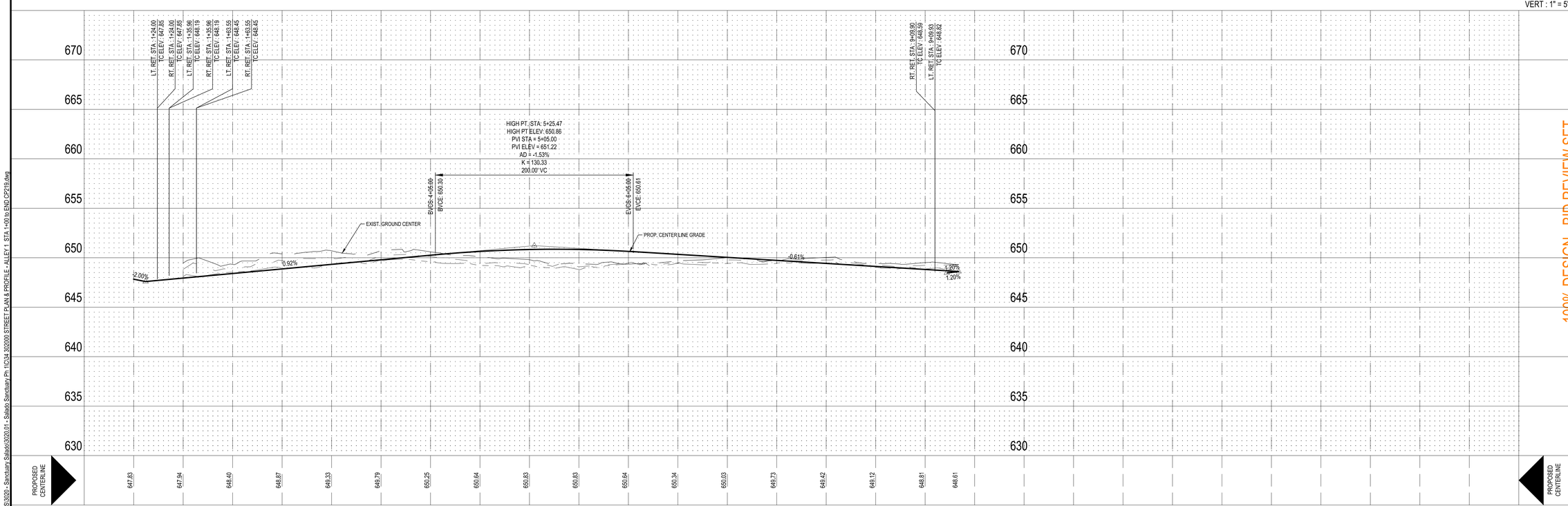
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD33 3020D0 STREET PLAN & PROFILE - BASKET FLOWER CIRCLE STA 1+00 to END CP218.dwg

Date: Jul 17, 2019, 8:09pm User ID: mstva



ALLEY 1
STA: 1+00.00 TO END

DESIGN SPEED = 25 MPH



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CULVERTS.
5. CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.
6. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

MATKINHOOVER ENGINEERING & SURVEYING
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PHONE: 830.249.0600
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

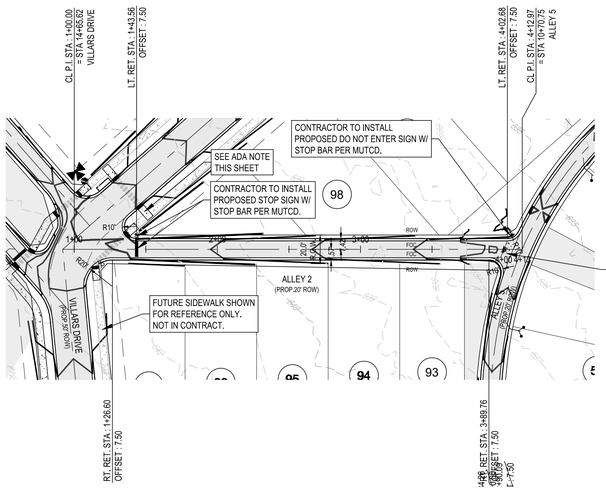
STREET PLAN & PROFILE - ALLEY 1
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP219

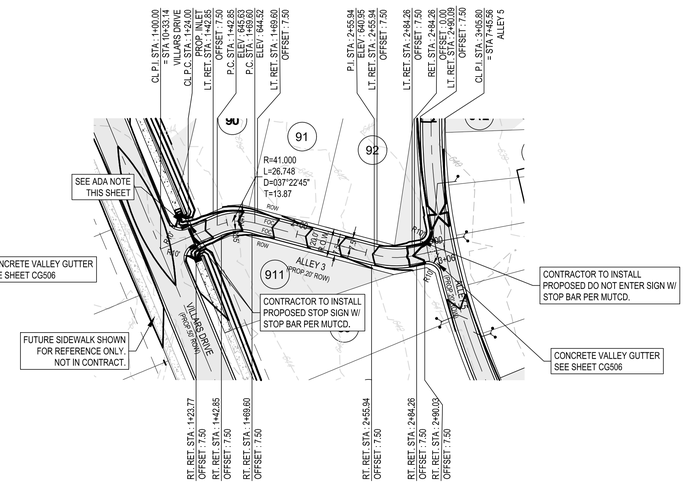
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	34 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\34 3020\09 STREET PLAN & PROFILE - ALLEY 1 STA 1+00 to END CP219.dwg

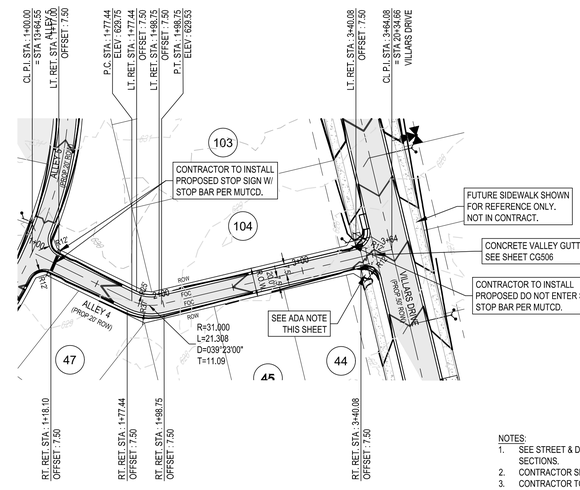
Date: Jul 17, 2019, 8:34pm User ID: mstva



ALLEY 2
STA: 1+00.00 TO END
DESIGN SPEED = 25 MPH



ALLEY 3
STA: 1+00.00 TO END
DESIGN SPEED = 25 MPH



ALLEY 4
STA: 1+00.00 TO END
DESIGN SPEED = 25 MPH

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
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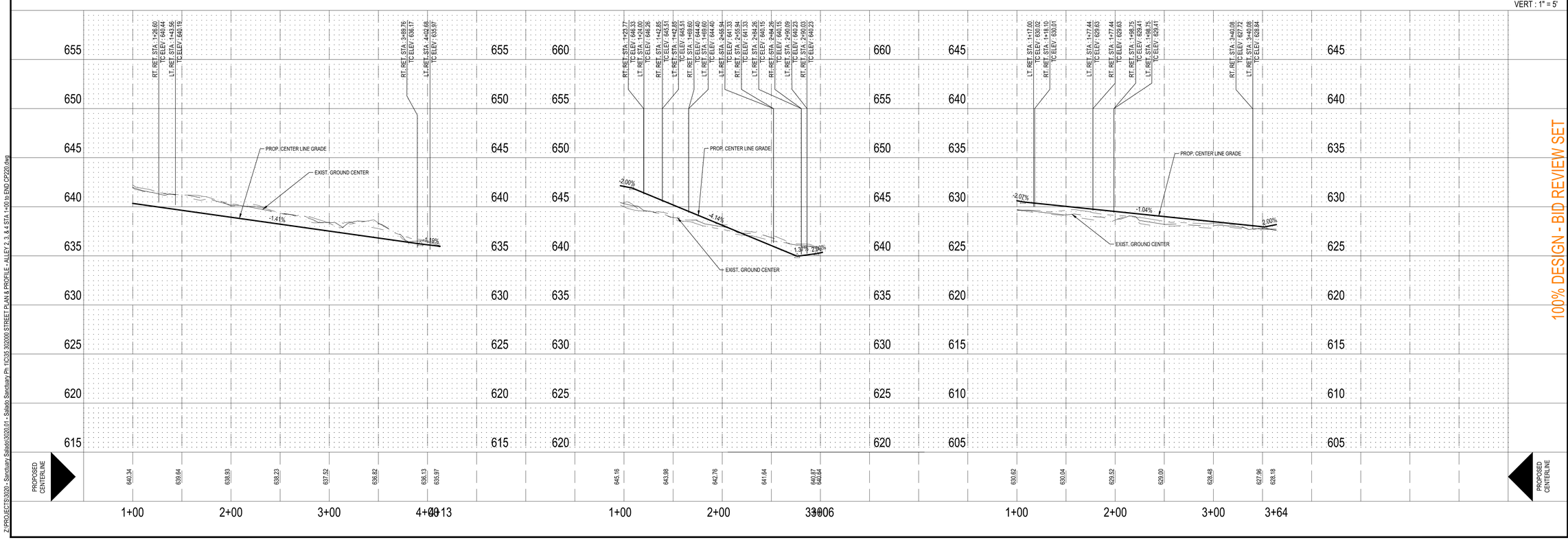
7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALK ADJACENT TO GREENBELT LOTS AND SIDEWALK RAMPS AT EACH ROADWAY CROSSING AS SHOWN ON PLANS. SEE SIDEWALK DETAIL, SHEET CG503.
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

SCALE: 1"=50'
0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

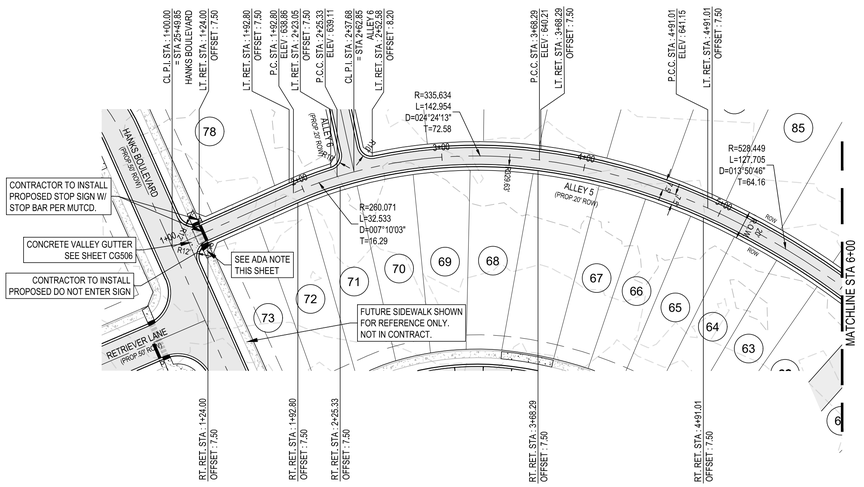
STREET PLAN & PROFILE - ALLEY 2, 3, & 4
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP220

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	35 OF 100

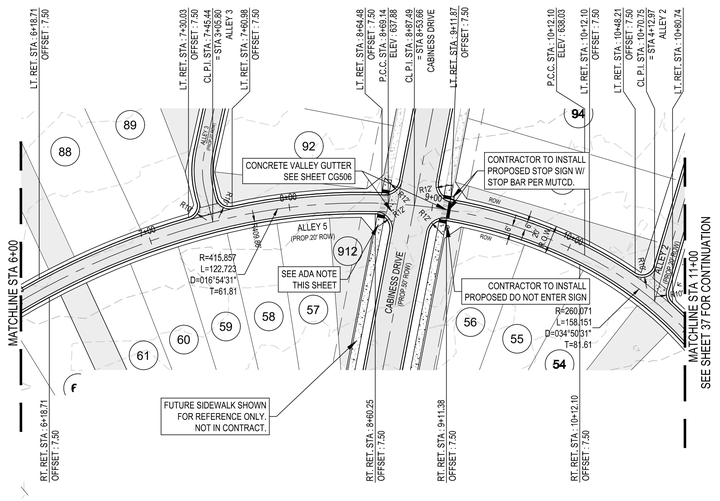
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\35 3020\09 STREET PLAN & PROFILE - ALLEY 2, 3, & 4 STA 1+00 to END CP220.dwg

Date: Jul 24, 2019, 5:25pm User ID: rwagliardo



ALLEY 5
STA: 1+00.00 TO 6+00.00

DESIGN SPEED = 25 MPH



ALLEY 5
STA: 6+00.00 TO 11+00.00

DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:

1. SEE STREET & DRAINAGE DETAIL SHEET (CG501) FOR TYPICAL STREET CROSS SECTIONS.
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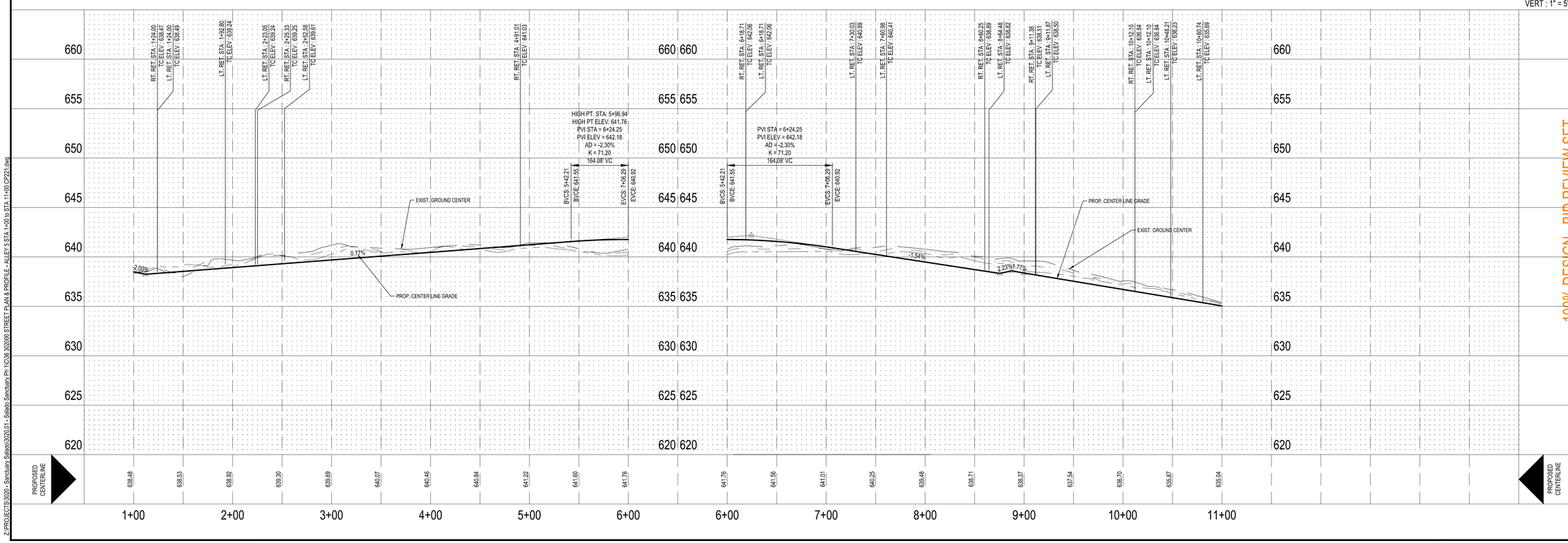
8. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
9. PROPOSED GRADE LINE REPRESENTS ELEVATION ALONG CENTERLINE OF PAVING. SEE CURB DETAIL ON SHEET CG502 .

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

STREET PLAN & PROFILE - ALLEY 5
STA 1+00 TO STA 11+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD SUITE 100
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PHONE: 210.545.1029
CONTACT@MATKINHOOVER.COM
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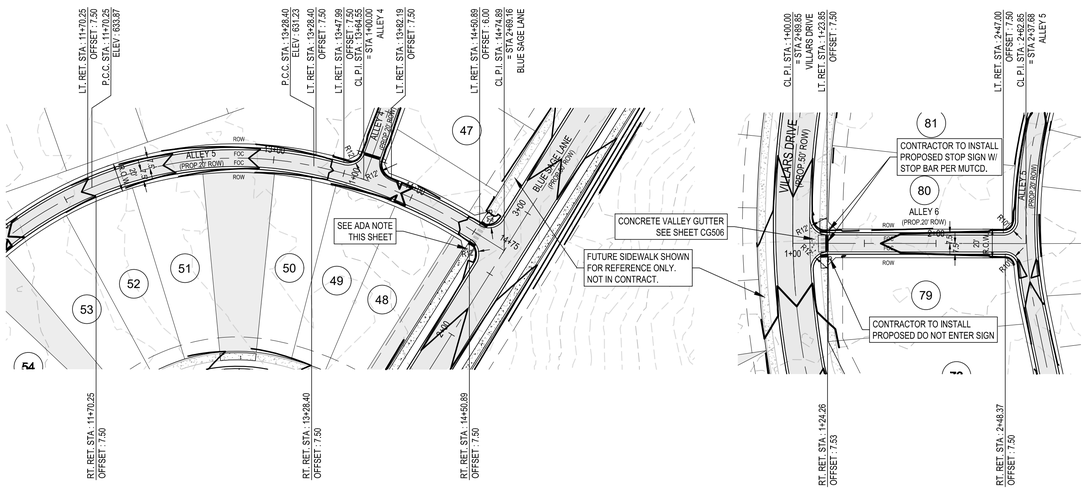
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10034000

CP221

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	36 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CSB 3020\00 STREET PLAN & PROFILE - ALLEY 5 STA 1+00 to STA 11+00 CP221.dwg

Date: Jul 17, 2019, 8:56pm User ID: mstva



ALLEY 5
STA: 11+00.00 TO END

DESIGN SPEED = 25 MPH

ALLEY 6
STA: 1+00.00 TO END

DESIGN SPEED = 25 MPH

LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	∅
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	Þ

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:

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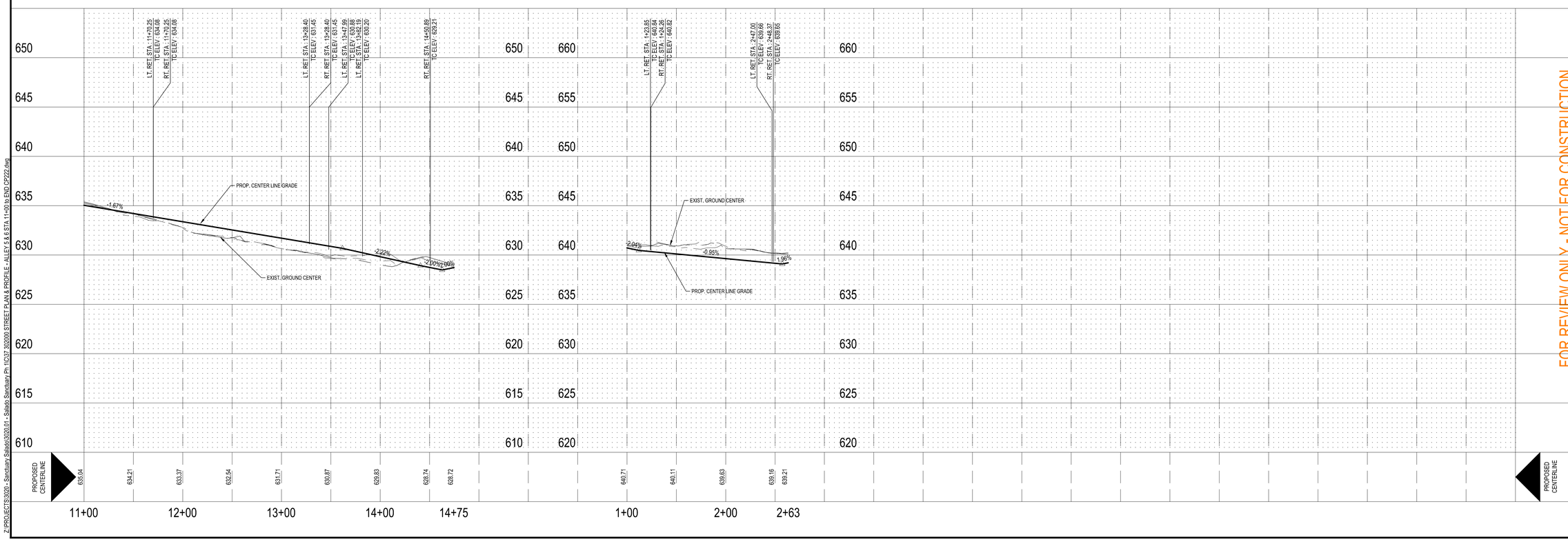

FOR REVIEW ONLY - NOT FOR CONSTRUCTION

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

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REVISIONS:

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

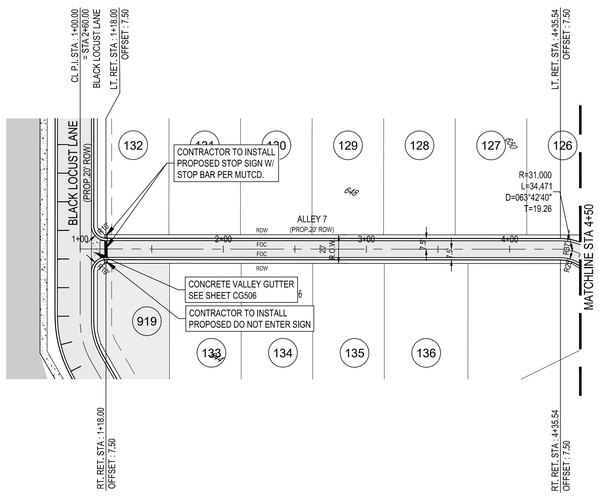
STREET PLAN & PROFILE - ALLEY 5 & 6
STA 11+00 TO END
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CP222

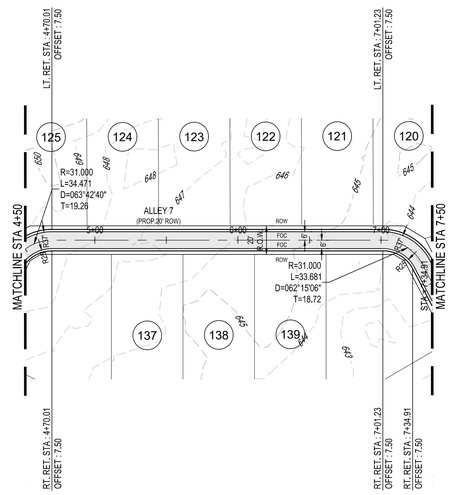
JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	37 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIS\7 3020\00 STREET PLAN & PROFILE - ALLEY 5 & 6 STA 11+00 to END CP222.dwg

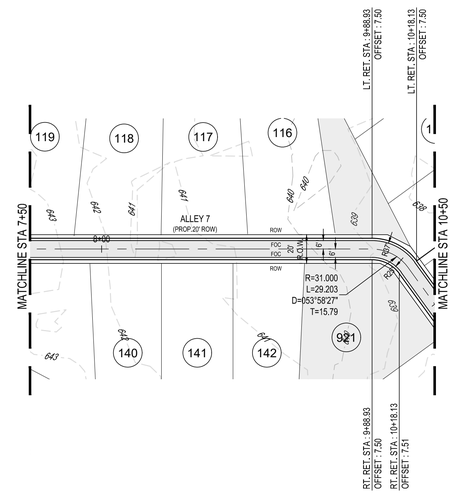
Date: Jul 17, 2019, 9:16pm User ID: mstva



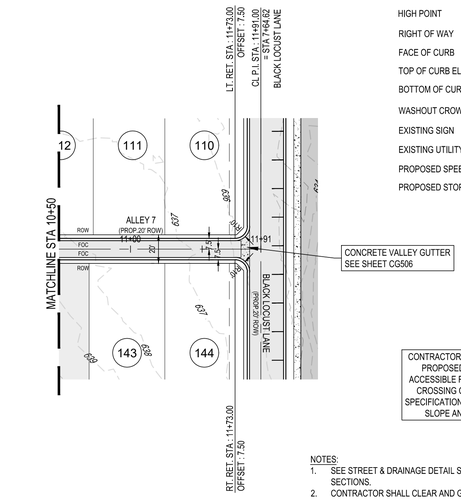
ALLEY 7
STA: 1+00.00 TO 4+50.00
DESIGN SPEED = 25 MPH



ALLEY 7
STA: 4+50.00 TO 7+50.00
DESIGN SPEED = 25 MPH



ALLEY 7
STA: 7+50.00 TO 10+50.00
DESIGN SPEED = 25 MPH



ALLEY 7
STA: 10+50.00 TO END
DESIGN SPEED = 25 MPH

CONTRACTOR SHALL ENSURE THAT PROPOSED ADA RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH UFAS SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

NOTES:
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LEGEND

PROPERTY LINE	
PHASE BOUNDARY	
EXISTING 1' CONTOUR	1444
EXISTING 5' CONTOUR	1445
PROPOSED 1' CONTOUR	1444
PROPOSED 5' CONTOUR	1445
PUBLIC UTILITY EASEMENT (P.U.E.)	
HIGH POINT	HP
RIGHT OF WAY	ROW
FACE OF CURB	FOC
TOP OF CURB ELEVATION	T
BOTTOM OF CURB/GUTTER ELEVATION	B
WASHOUT CROWN	
EXISTING SIGN	S
EXISTING UTILITY POLE	
PROPOSED SPEED LIMIT SIGN	
PROPOSED STOP SIGN	

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

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REVISIONS:

MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD SUITE 100
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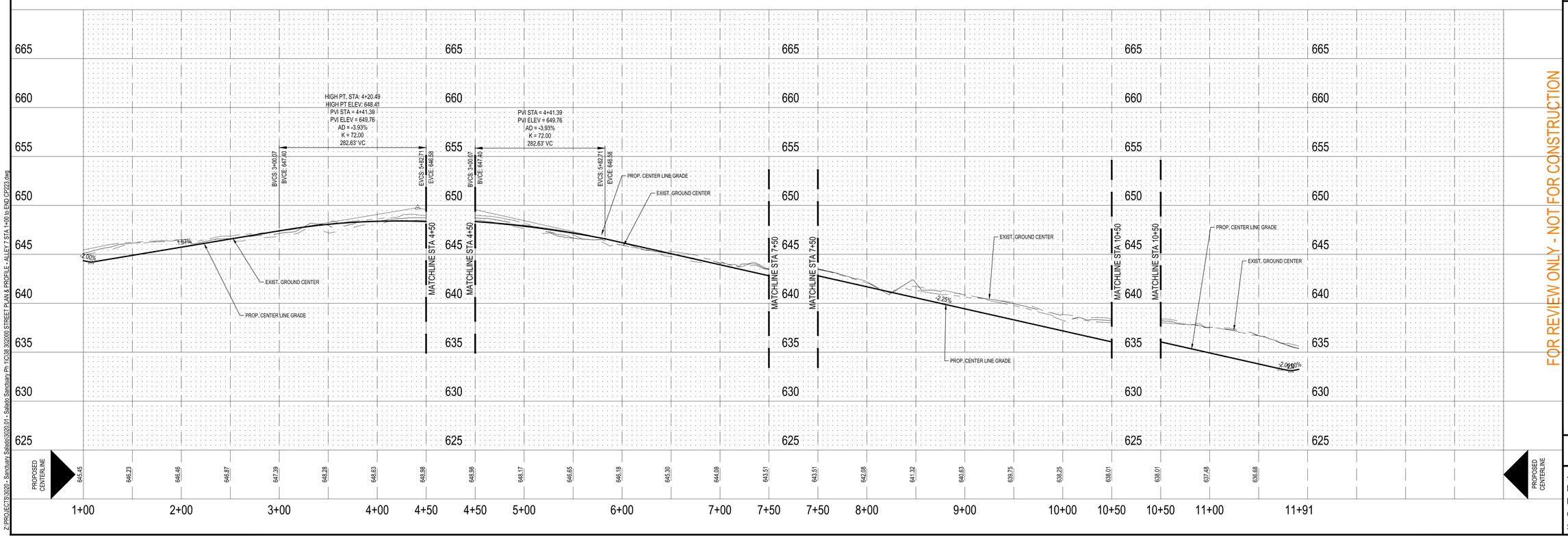
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000



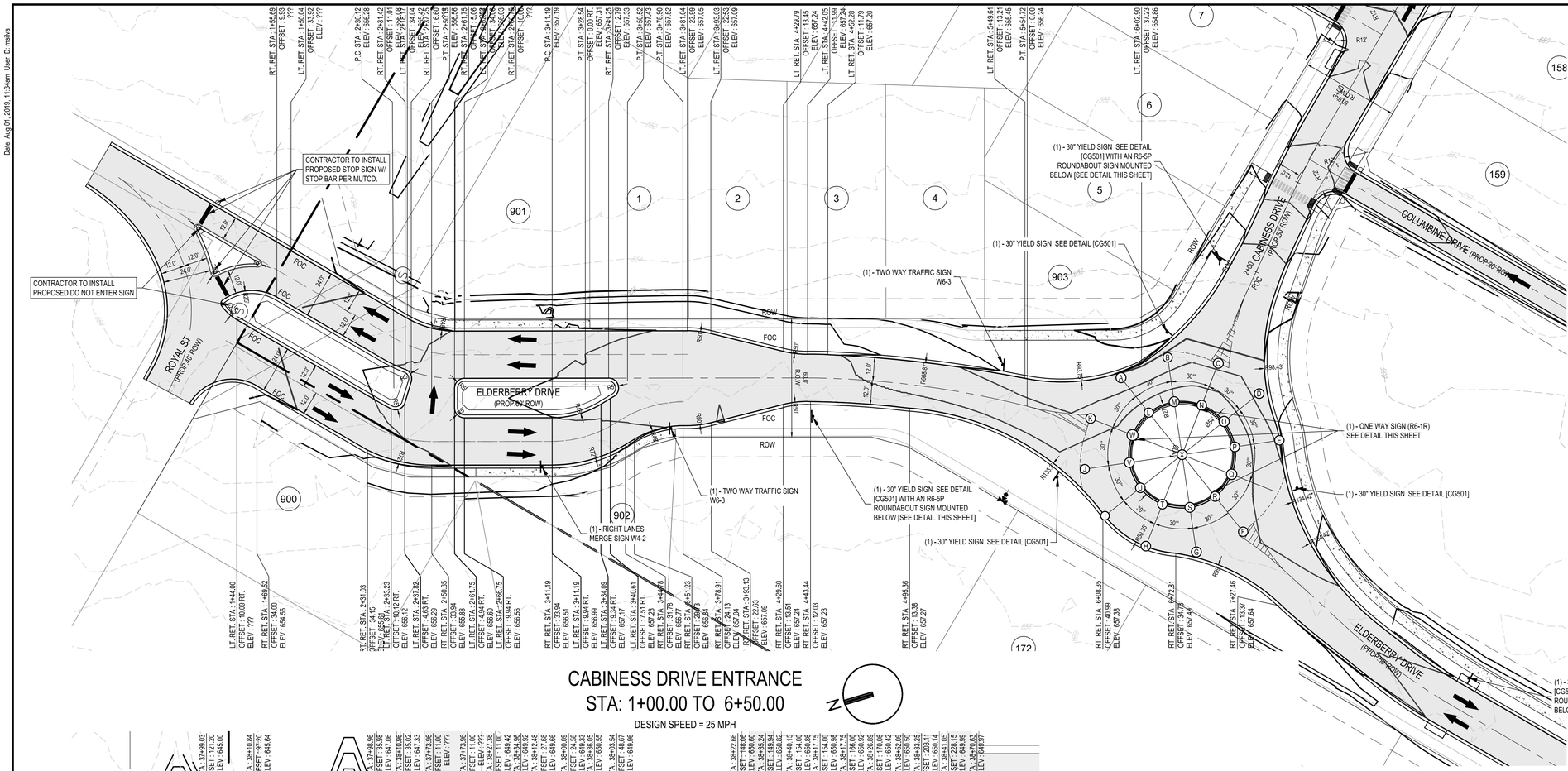
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET PLAN & PROFILE - ALLEY 7
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CP223

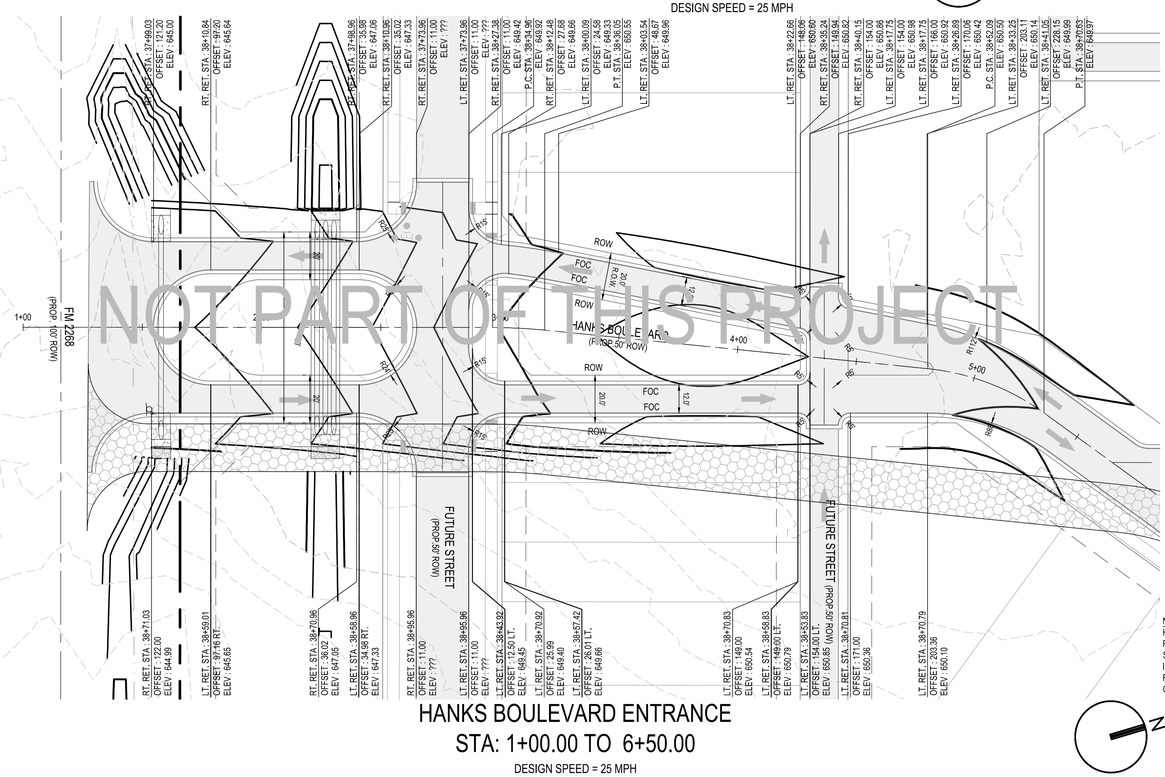
JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	38 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\38 3020\00 STREET PLAN & PROFILE - ALLEY 7 STA 1+00 to END CP223.dwg



CABINESS DRIVE ENTRANCE
STA: 1+00.00 TO 6+50.00

DESIGN SPEED = 25 MPH



HANKS BOULEVARD ENTRANCE
STA: 1+00.00 TO 6+50.00

DESIGN SPEED = 25 MPH

NOTES:
HANKS BLVD STA 1+00 TO 19+07.44:
FUTURE DESIGN FOR HANKS BLVD SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXCAVATE/EMBANK ROAD TO ACHIVE FUTURE SUBGRADE ELEVATION AND INSTALL A TEMPORARY ALL-WEATHER ACCESS ROAD 20FT IN WIDTH FALLOWING THE ROAD ALIGNMENT AS SHOWN. A 1.5 FT DEEP BARDITCH AND MULTIPLE TEMPORARY CULVERTS WILL BE REQUIRED CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.

ROUND-A-BOUT	
POINT ID	GUTTER ELEVATION
A	655.26
B	655.30
C	655.71
D	655.68
E	655.81
F	657.25
G	657.51
H	657.45
I	657.38
J	657.42
K	656.42
L	657.70

ROUND-A-BOUT	
POINT ID	GUTTER ELEVATION
M	657.77
N	657.80
O	657.73
P	657.65
Q	657.59
R	657.52
S	657.45
T	657.42
U	657.49
V	657.56
W	657.63
X	658.32

SCALE: 1"=30'
0 15' 30' 45' 60'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

MATKINHOOVER ENGINEERING & SURVEYING
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BOERNE, TEXAS 78006
PHONE: 210.545.1779
CONTACT@MATKINHOOVER.COM
3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

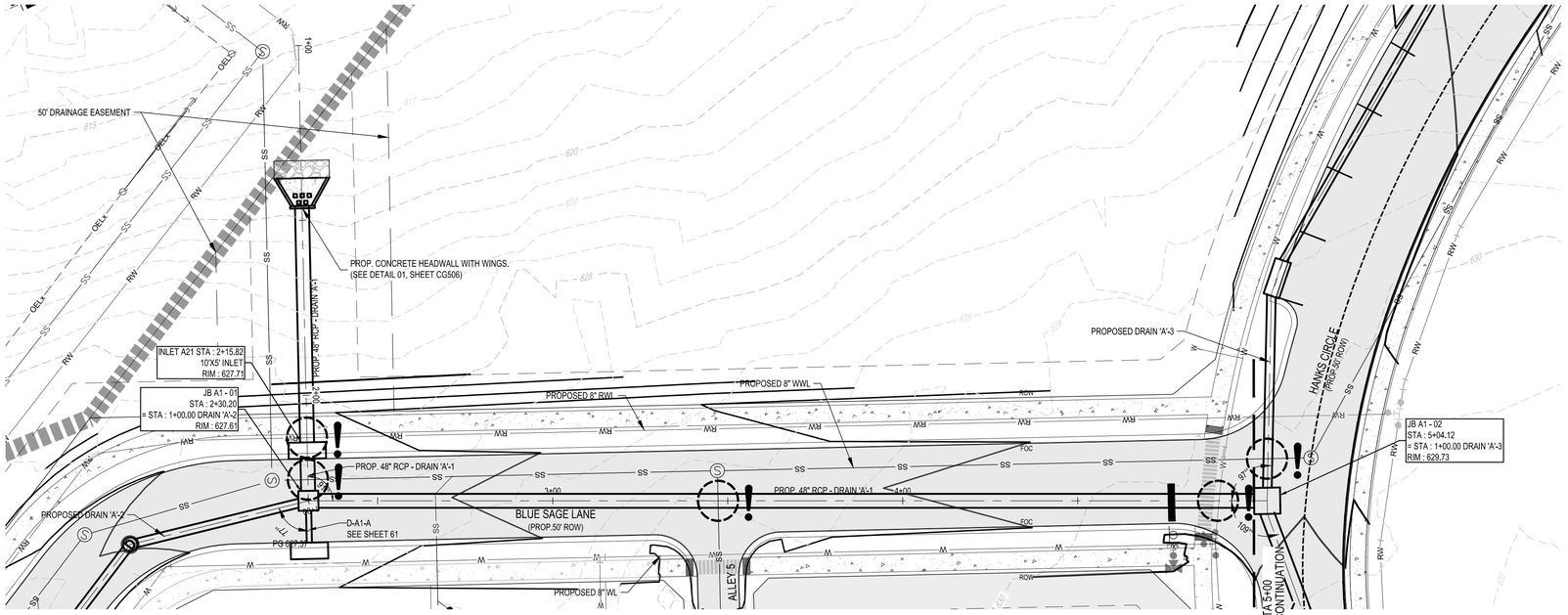
PAVING ENTRANCE DETAILS
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CP501

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	39 OF 100

Date: Aug 01, 2019, 11:34am User ID:meliva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CN\3.3020\00 PAVING ENTRANCE DETAILS CP501.dwg

Date: Jul 24, 2019, 2:39pm User ID: nwagliardo



STORM WATER LINE 'A'-1
STA 1+00 TO 5+00

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CL501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100
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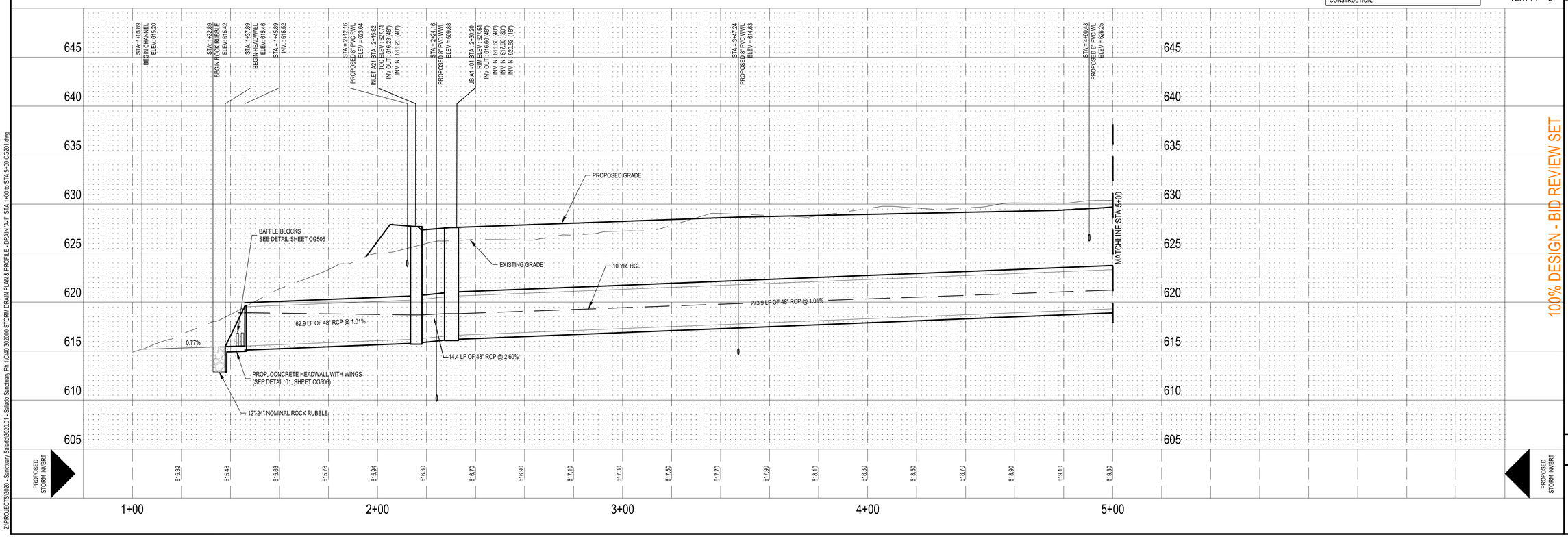
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

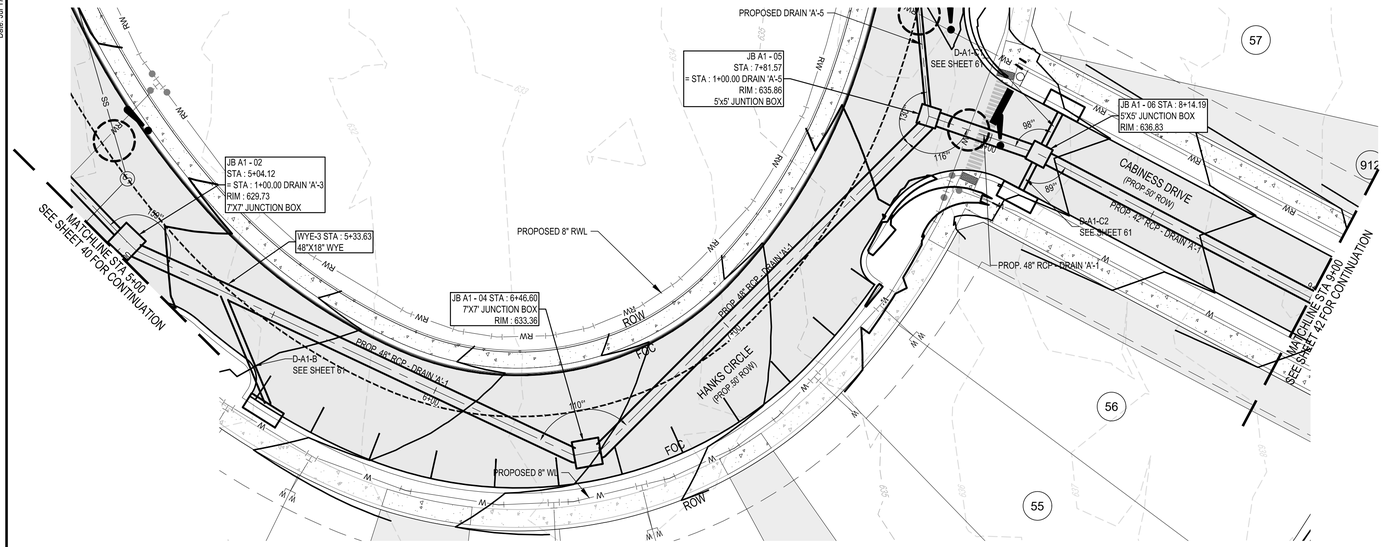
STORM DRAIN PLAN & PROFILE - DRAIN 'A-1'
STA 1+00 TO STA 5+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG201

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	40 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD\ 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-1' STA 1+00 to STA 5+00 CG201.dwg

Date: Jul 17, 2019, 9:56pm User ID: mslva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CL501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

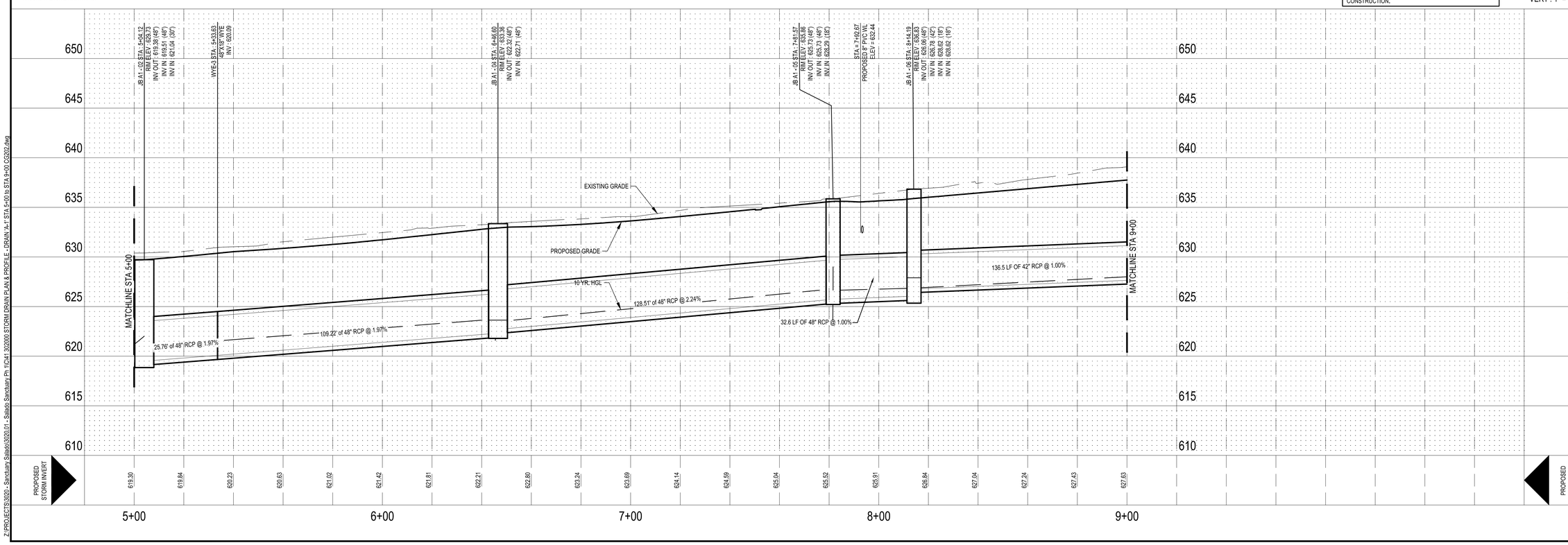
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-1
STA 5+00 TO 9+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

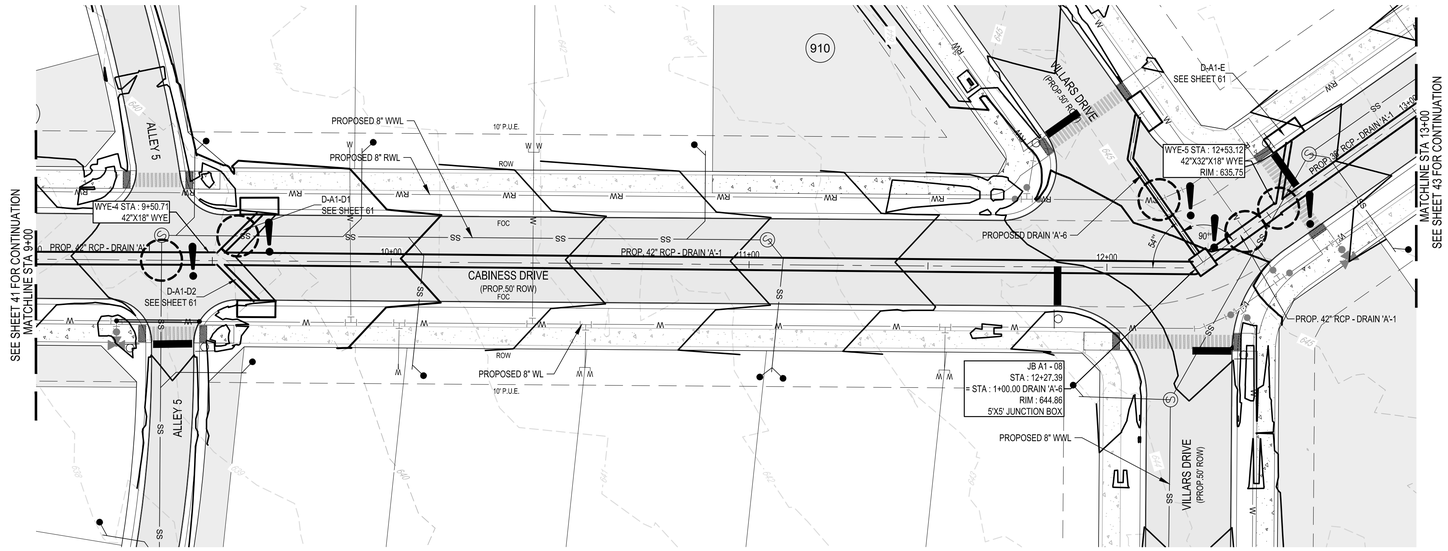
STORM DRAIN PLAN & PROFILE - DRAIN 'A-1'
STA 5+00 TO STA 9+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG202

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	41 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\41 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-1' STA 5+00 to STA 9+00 CG202.dwg

Date: Jul 18, 2019, 6:45am User ID: mslva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CL501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-3-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

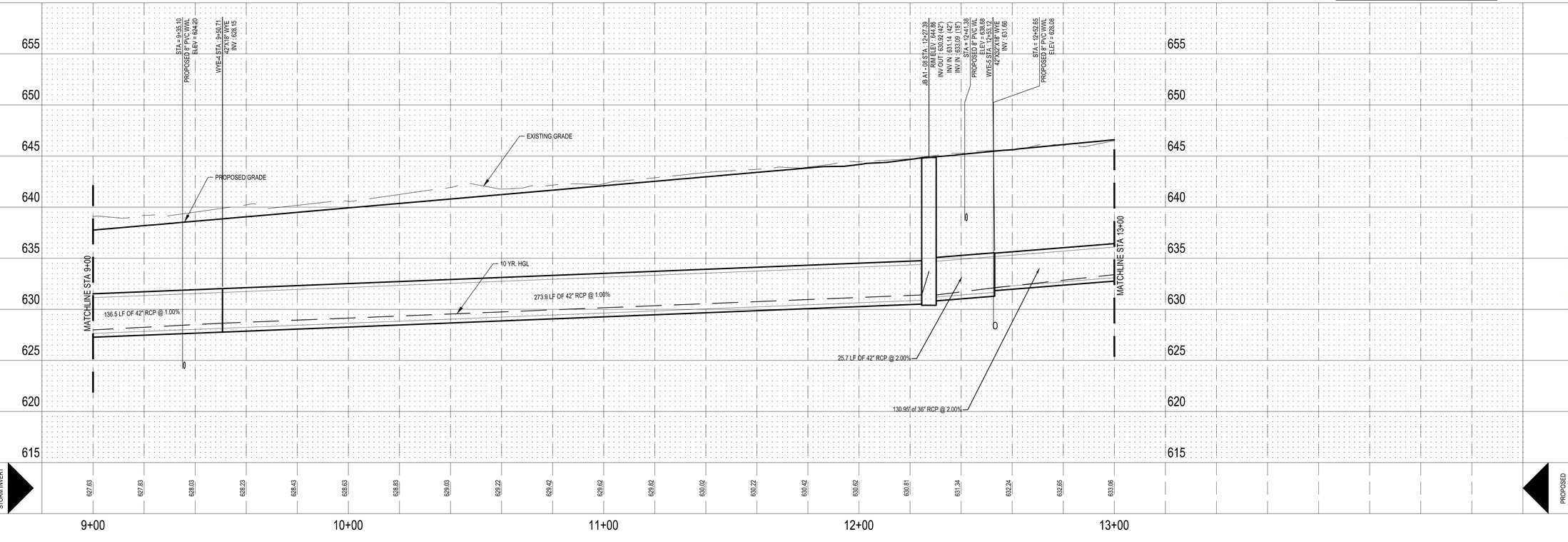
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-1
STA 9+00 TO 13+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

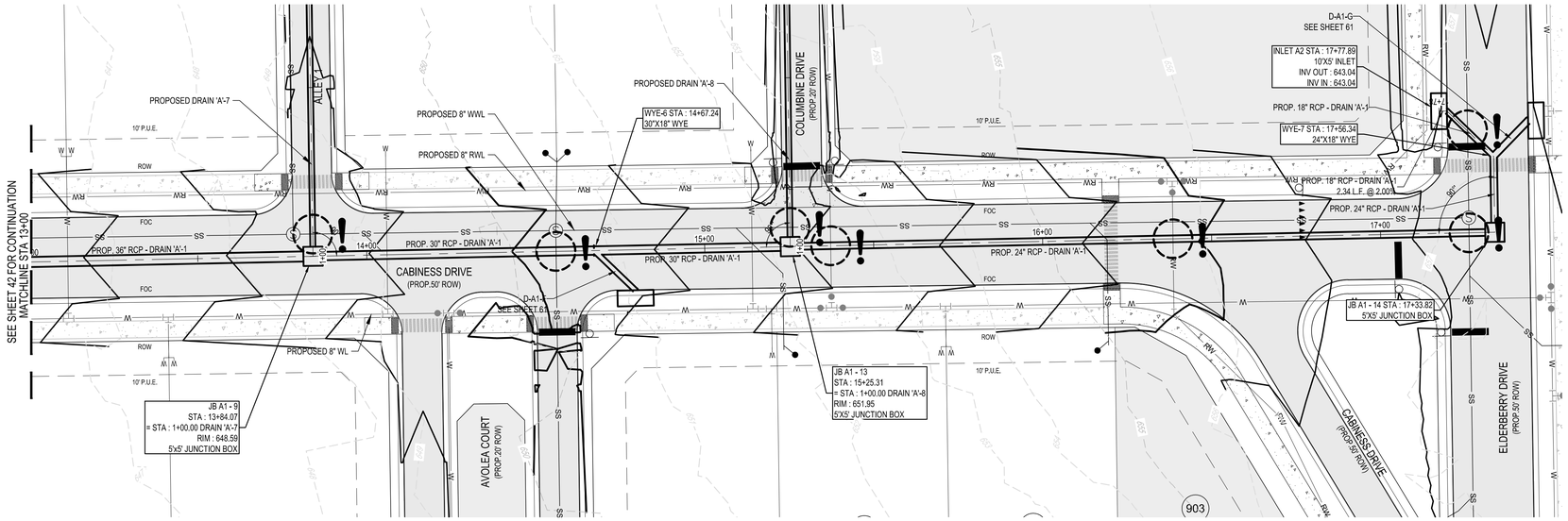
STORM DRAIN PLAN & PROFILE - DRAIN 'A-1'
STA 9+00 TO STA 13+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG203

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	42 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD\ 3020000 STORM DRAIN PLAN & PROFILE - DRAIN 'A-1' STA 9+00 to STA 13+00 CG203.dwg

Date: Jul 18, 2019, 6:56am User ID: msilva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CL501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
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BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78404
OFFICE: 512.808.2344

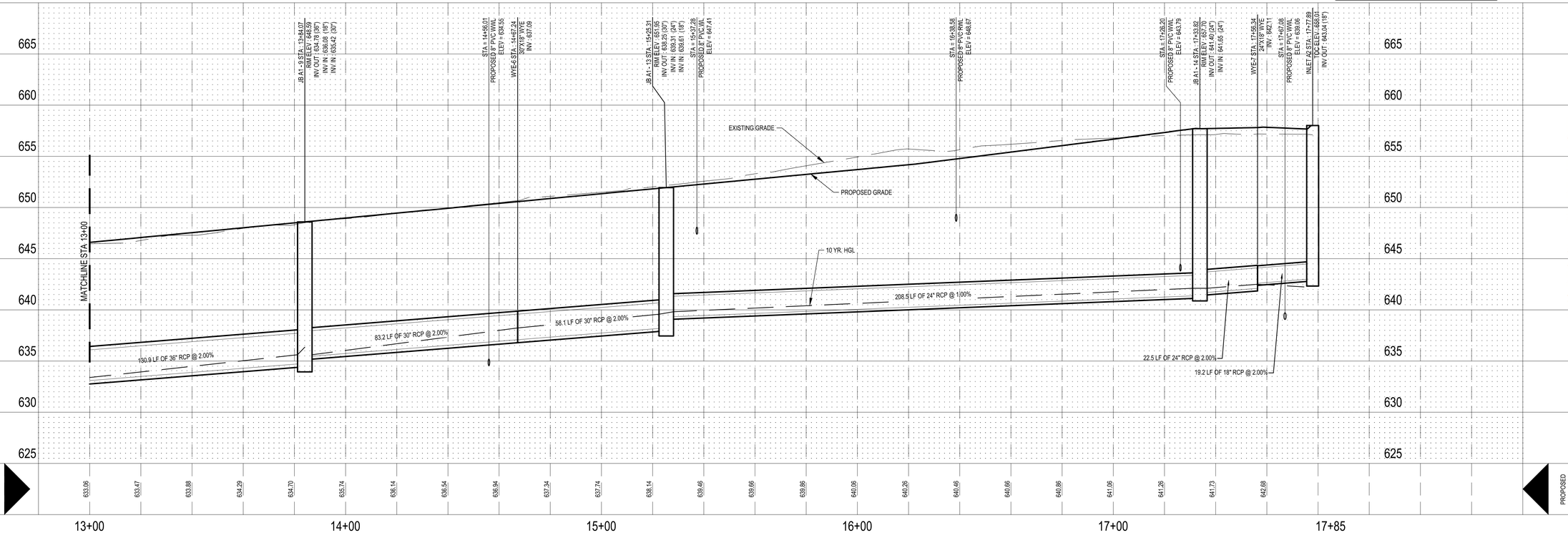
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-1
STA 13+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

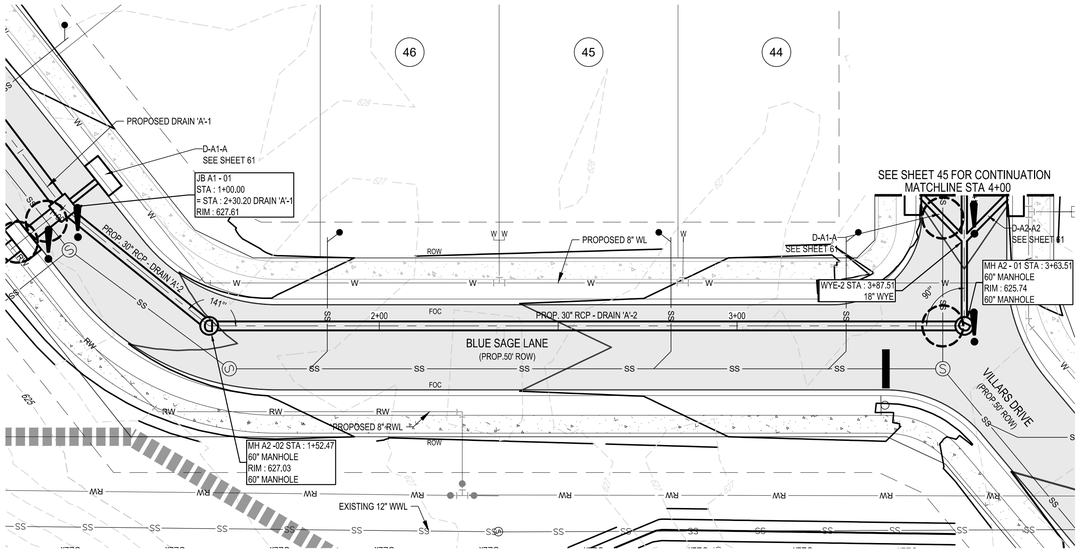
STORM DRAIN PLAN & PROFILE - DRAIN 'A-1'
STA 13+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG204

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	43 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C43.3020000 STORM DRAIN PLAN & PROFILE - JDRAIN 7a-1 STA 13+00 to END CG204.dwg

Date: Jul 18, 2019, 7:07am User ID: mslva



TRENCH EXCAVATION SAFETY PROTECTION

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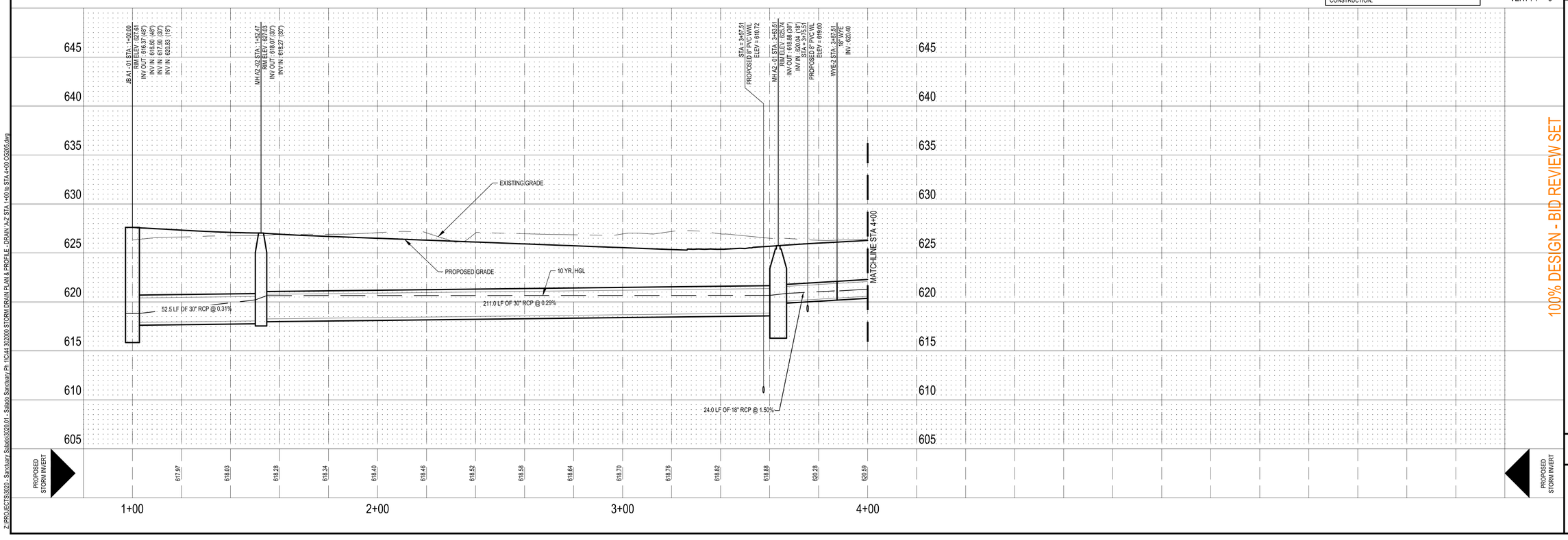
STORM WATER LINE 'A'-2
STA 1+00 TO 4+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CU501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

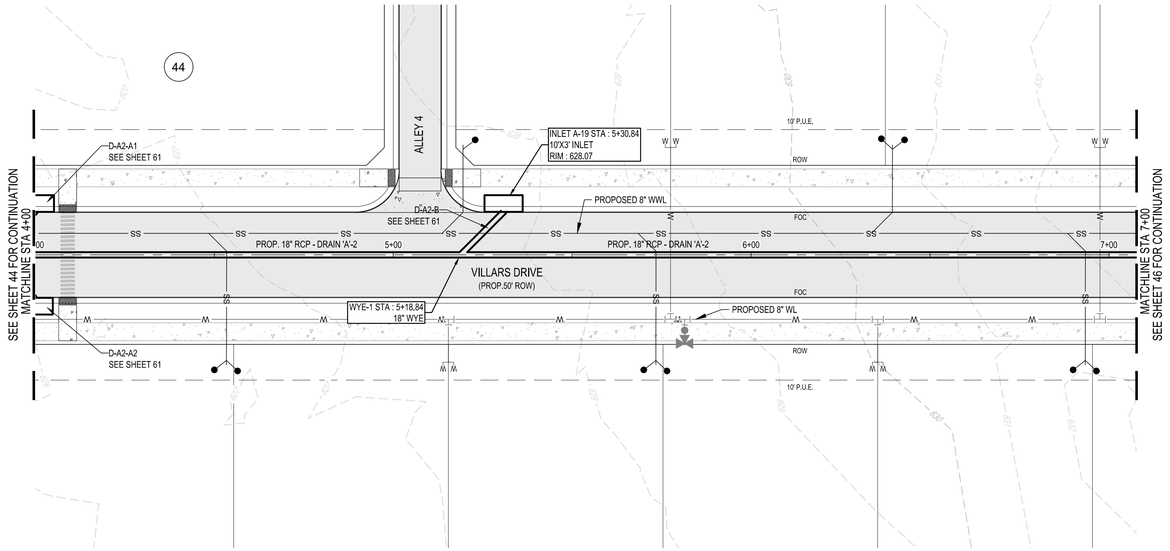
STORM DRAIN PLAN & PROFILE - DRAIN 'A-2'
STA 1+00 TO STA 4+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG205

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	44 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\Civil\ 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-2' STA 1+00 to STA 4+00 CG205.dwg

Date: Jul 24, 2019, 2:47pm User ID: nwagliardo



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CUS01] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

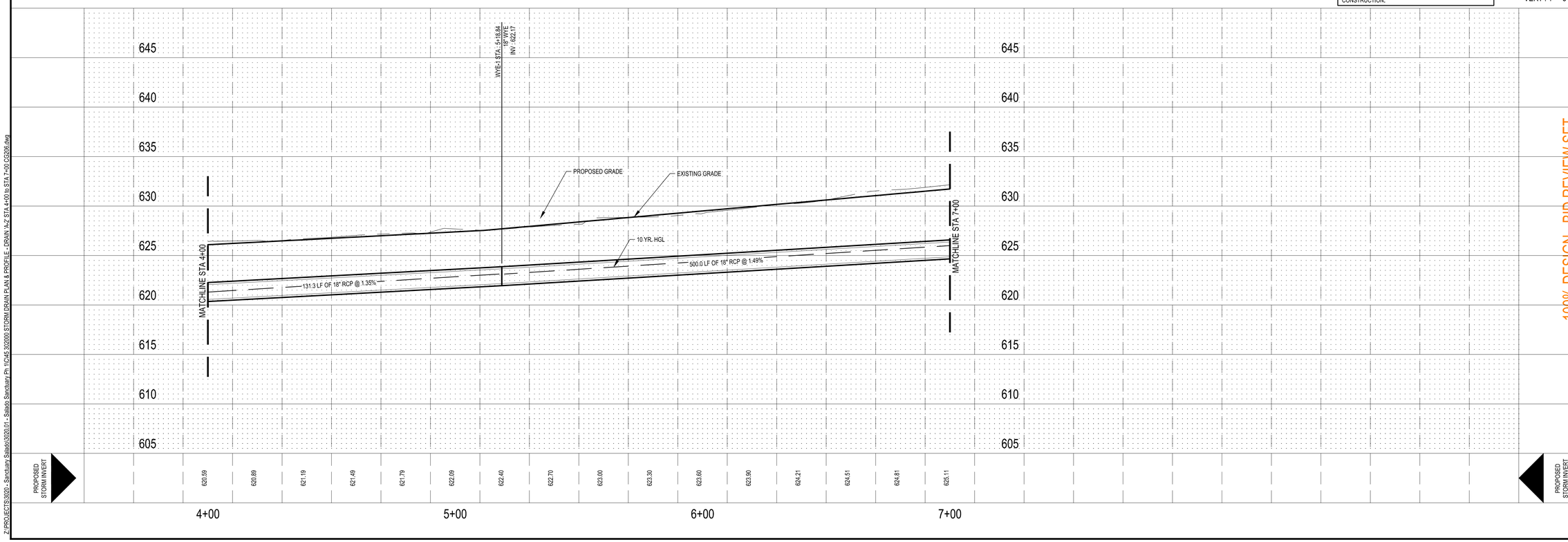
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-2
STA 3+50 TO 7+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

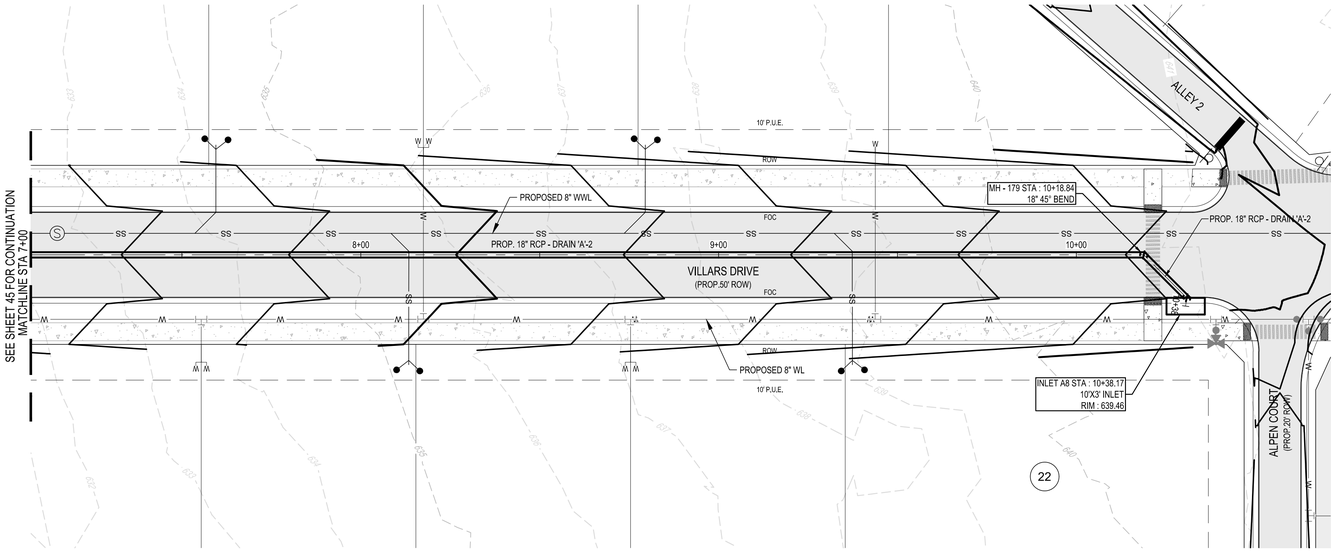
STORM DRAIN PLAN & PROFILE - DRAIN 'A-2'
STA 4+00 TO STA 7+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG206

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	45 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\45 302000 STORM DRAIN PLAN & PROFILE - DRAIN 'A-2' STA 4+00 to STA 7+00 CG206.dwg

Date: Jul 18, 2019, 7:30am User ID: msilva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CU501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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1301 SHELL ROAD, SUITE 103
CEDAR PARK, TEXAS 78613
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

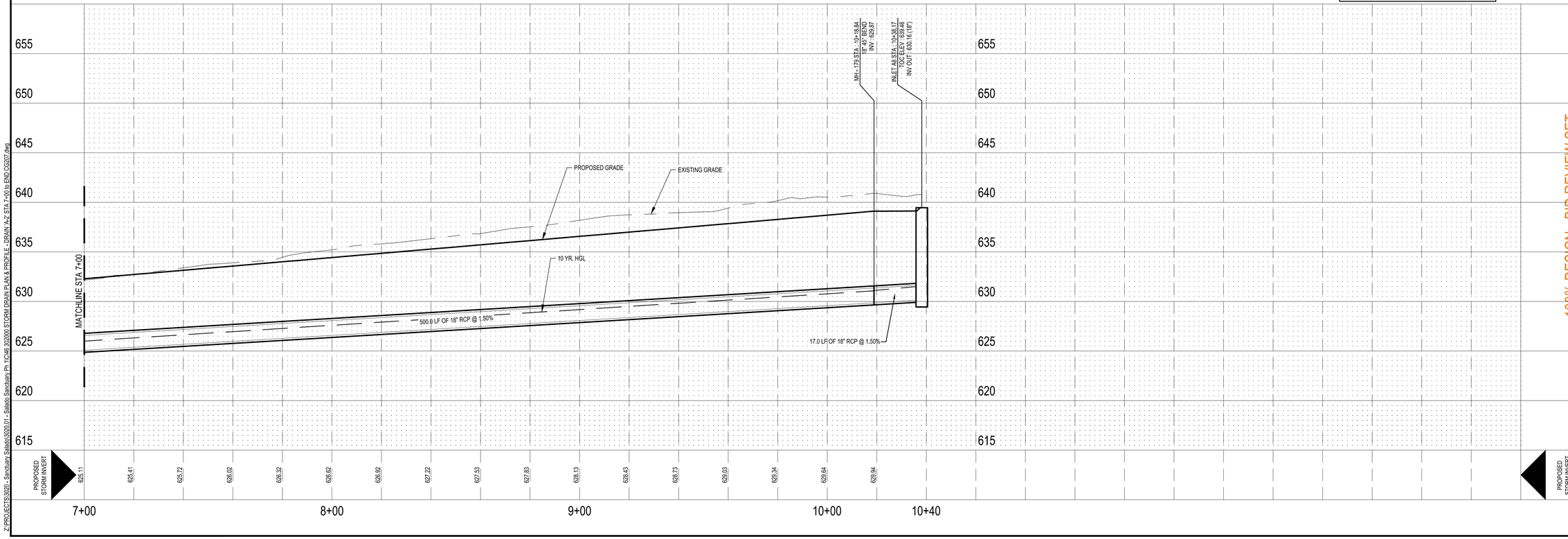
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-2
STA 7+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

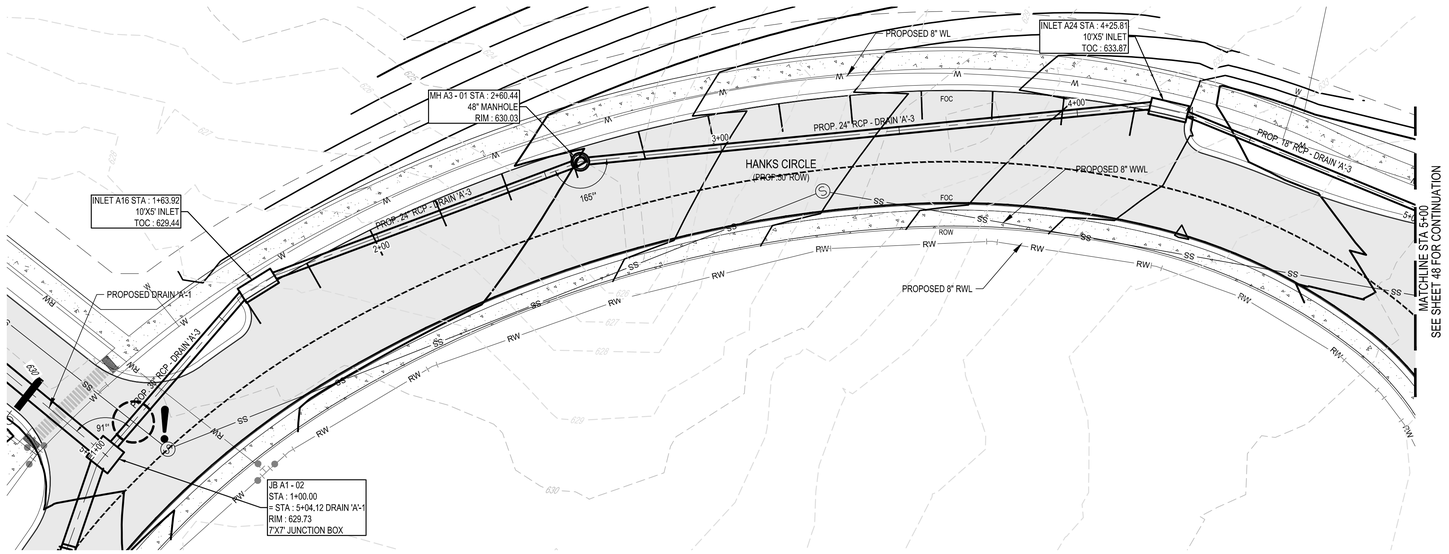
STORM DRAIN PLAN & PROFILE - DRAIN 'A-2'
STA 7+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG207

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	46 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\46.3020000 STORM DRAIN PLAN & PROFILE - JDRAIN 7a-2 STA 7+00 to END CG207.dwg

Date: Jul 18, 2019, 7:40am User ID: mslva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. C1501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

TRENCH EXCAVATION SAFETY PROTECTION

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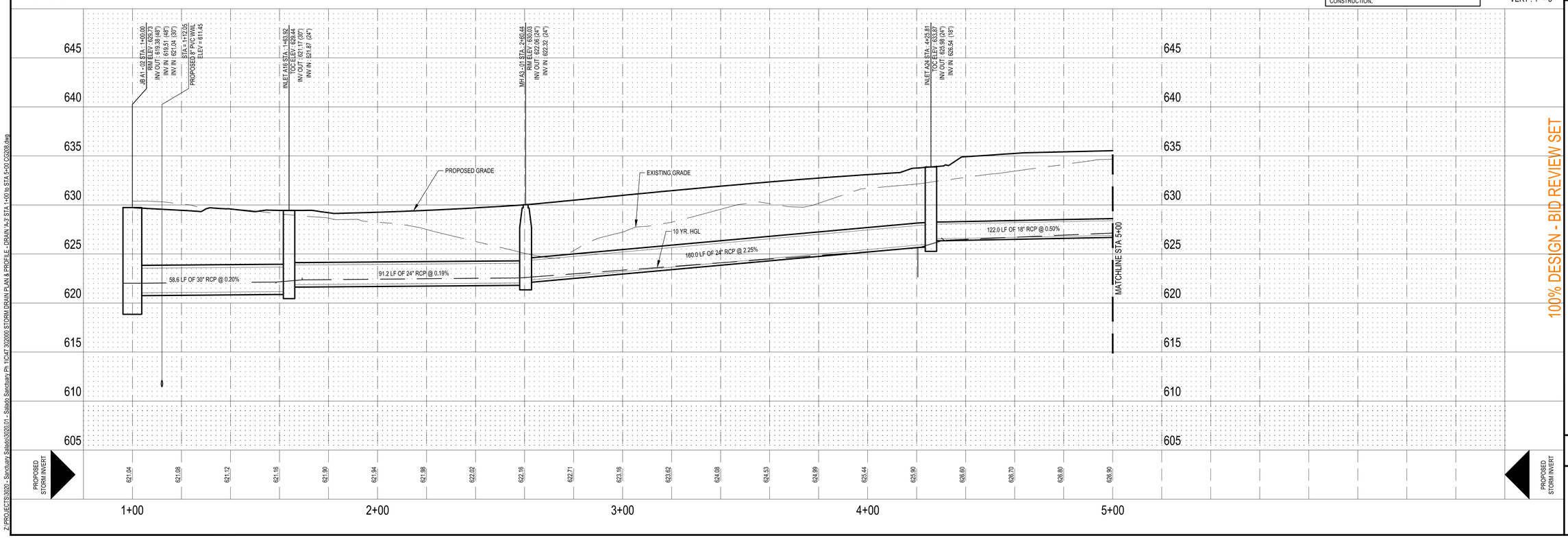
STORM WATER LINE 'A'-3
STA 1+00 TO 5+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

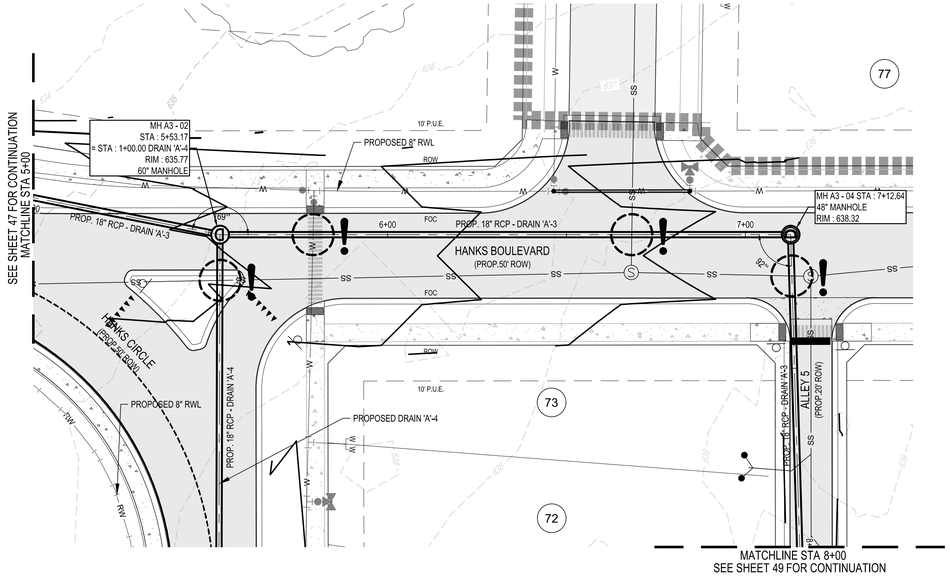
STORM DRAIN PLAN & PROFILE - DRAIN 'A-3'
STA 1+00 TO STA 5+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG208

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	47 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD\3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-3' STA 1+00 to STA 5+00 CG208.dwg

Date: Jul 18, 2019, 7:50am User ID: mslva



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STORM WATER LINE 'A'-3
STA 5+00 TO 8+00

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE (DS. CU501) FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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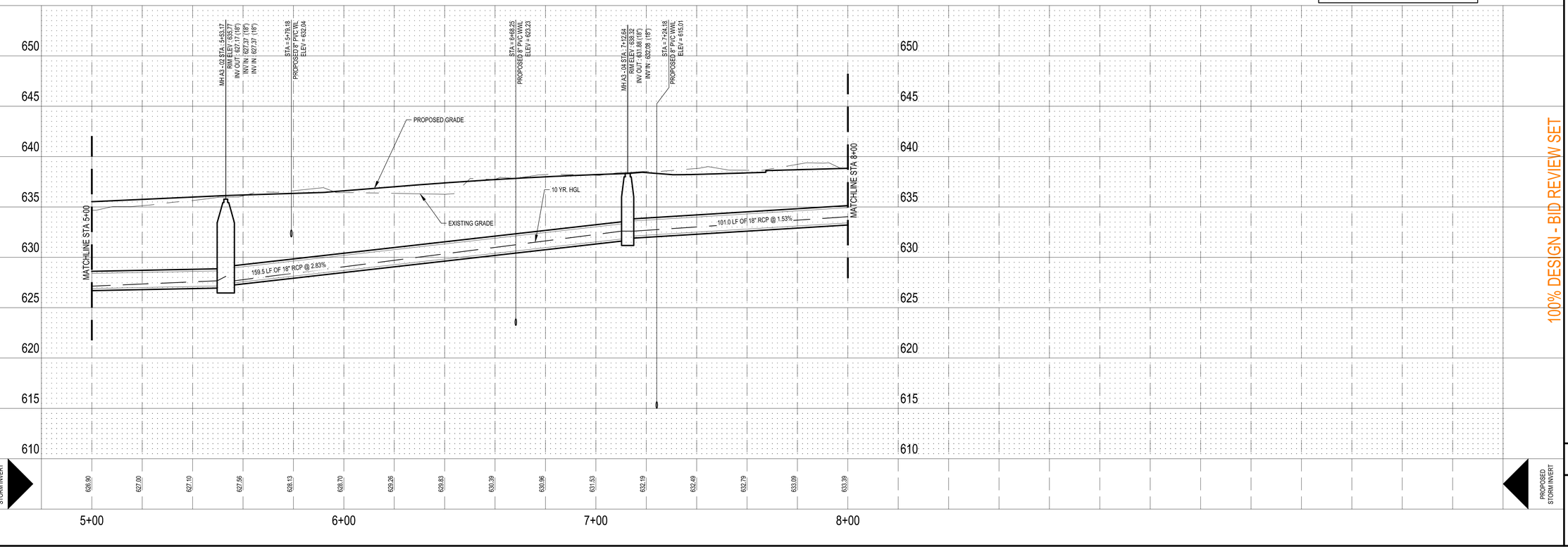
WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

MATKINHOOVER ENGINEERING & SURVEYING
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BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
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3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

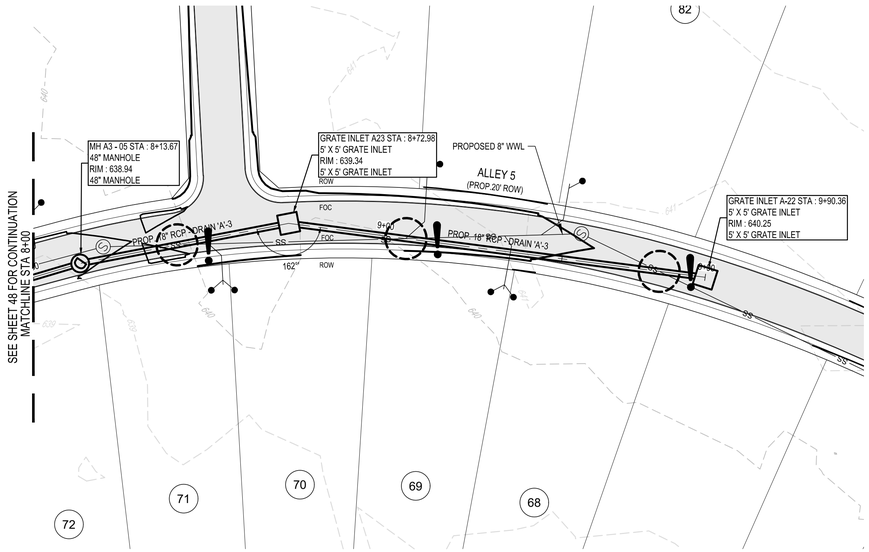
STORM DRAIN PLAN & PROFILE - DRAIN 'A-3'
STA 5+00 TO STA 8+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG209

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	48 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\48 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-3' STA 5+00 to STA 8+00 CG209.dwg

Date: Jul 18, 2019, 8:00am User ID: mslva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dr. CUS01] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
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LICENSED
PROFESSIONAL ENGINEER
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6-5-2019

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CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

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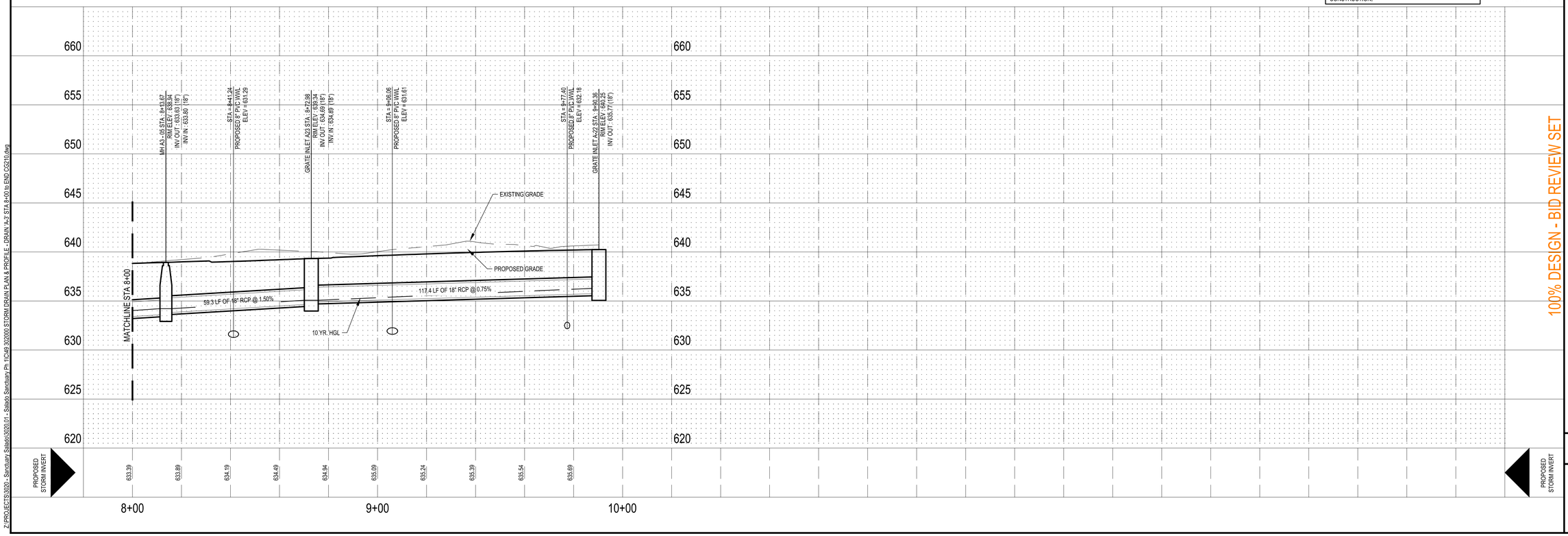
STORM WATER LINE 'A'-3
STA 8+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

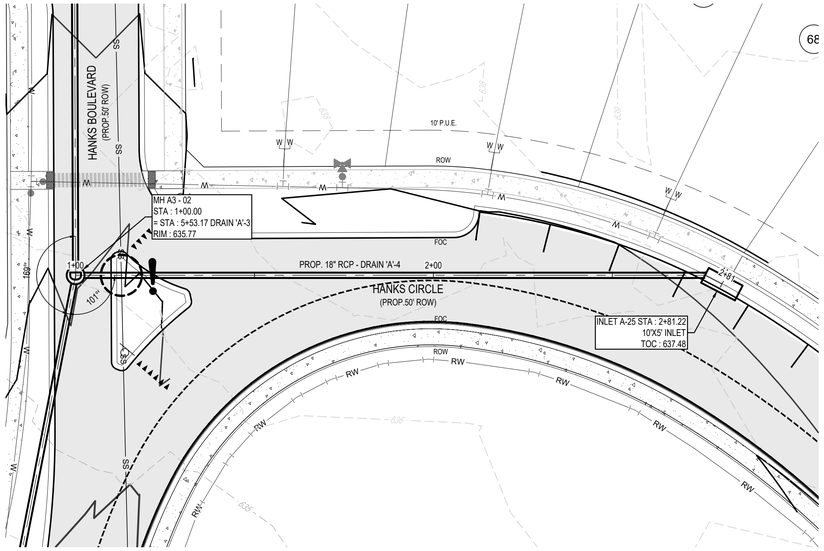
STORM DRAIN PLAN & PROFILE - DRAIN 'A-3'
STA 8+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG210

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	49 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD\ 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-3' STA 8+00 to END CG210.dwg

Date: Jul 18, 2019, 8:37am User ID: cramsey



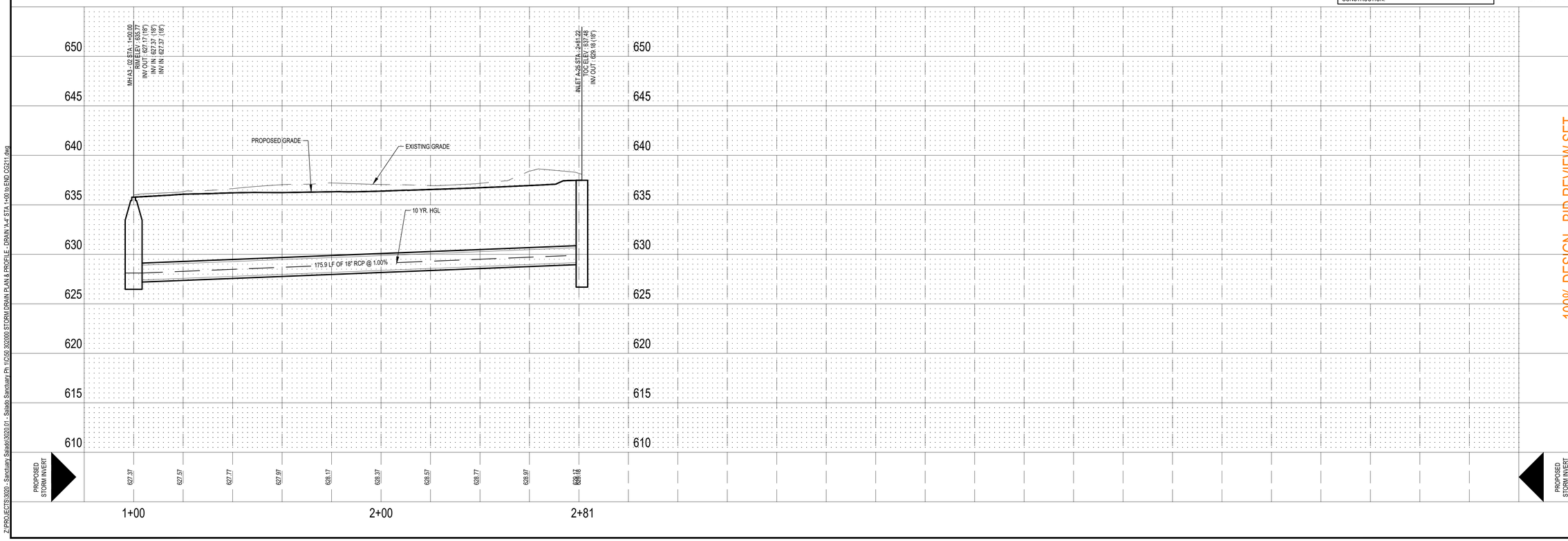
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-4
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [09 C1501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

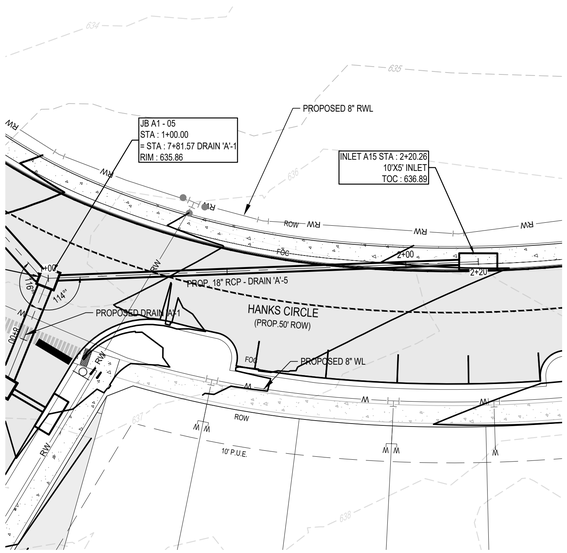
STORM DRAIN PLAN & PROFILE - DRAIN 'A-4'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG211

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	50 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\0 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-4' STA 1+00 to END CG211.dwg

Date: Jul 18, 2019, 8:39am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [09 C1501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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3101 SHELL ROAD, SUITE 100
CHARLESTON, SC 29405
OFFICE: 512.868.2244

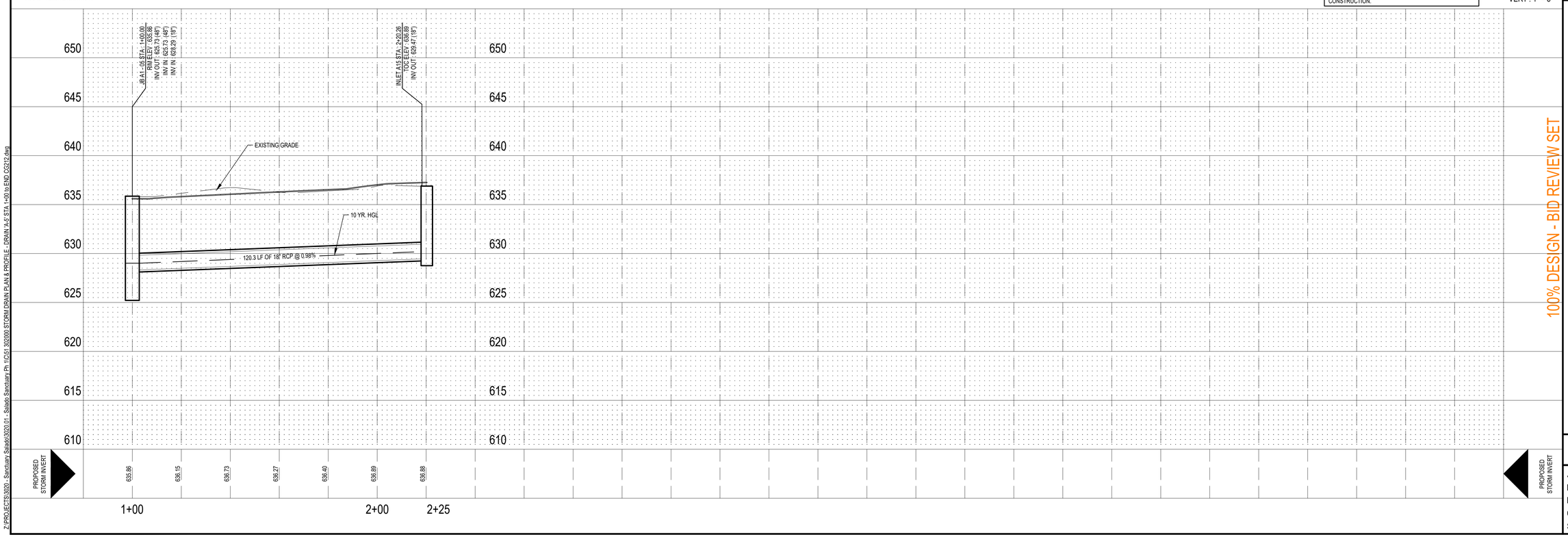
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'A'-5
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

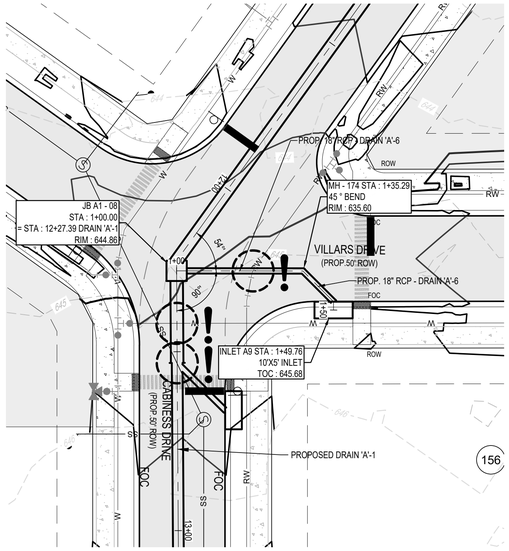
STORM DRAIN PLAN & PROFILE - DRAIN 'A-5'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG212

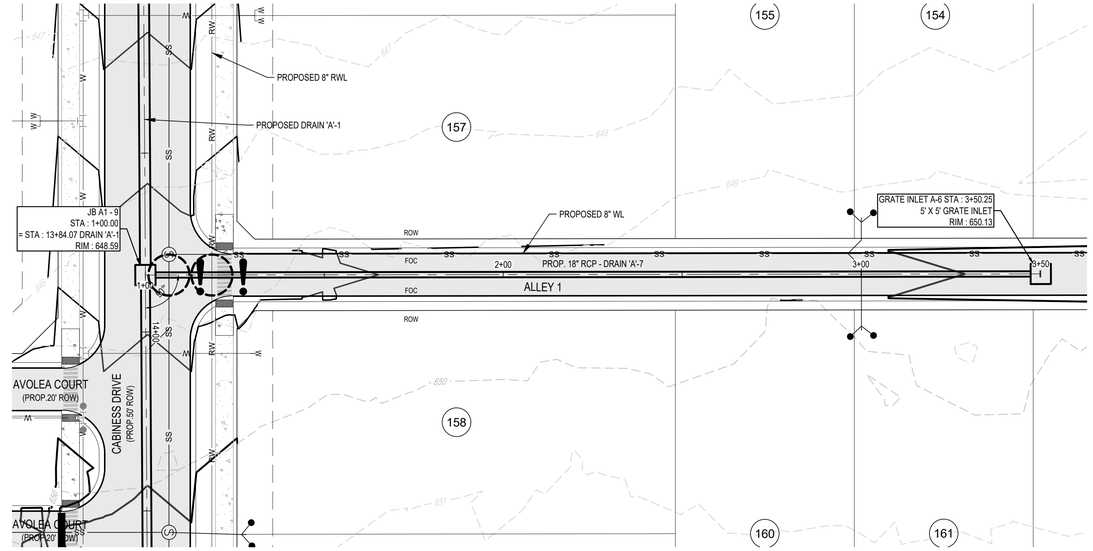
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	51 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG51 3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'A-5' STA 1+00 to END CG212.dwg

Date: Jul 18, 2019, 8:42am User ID: cramsey



STORM WATER LINE 'A'-6
STA 1+00 TO END



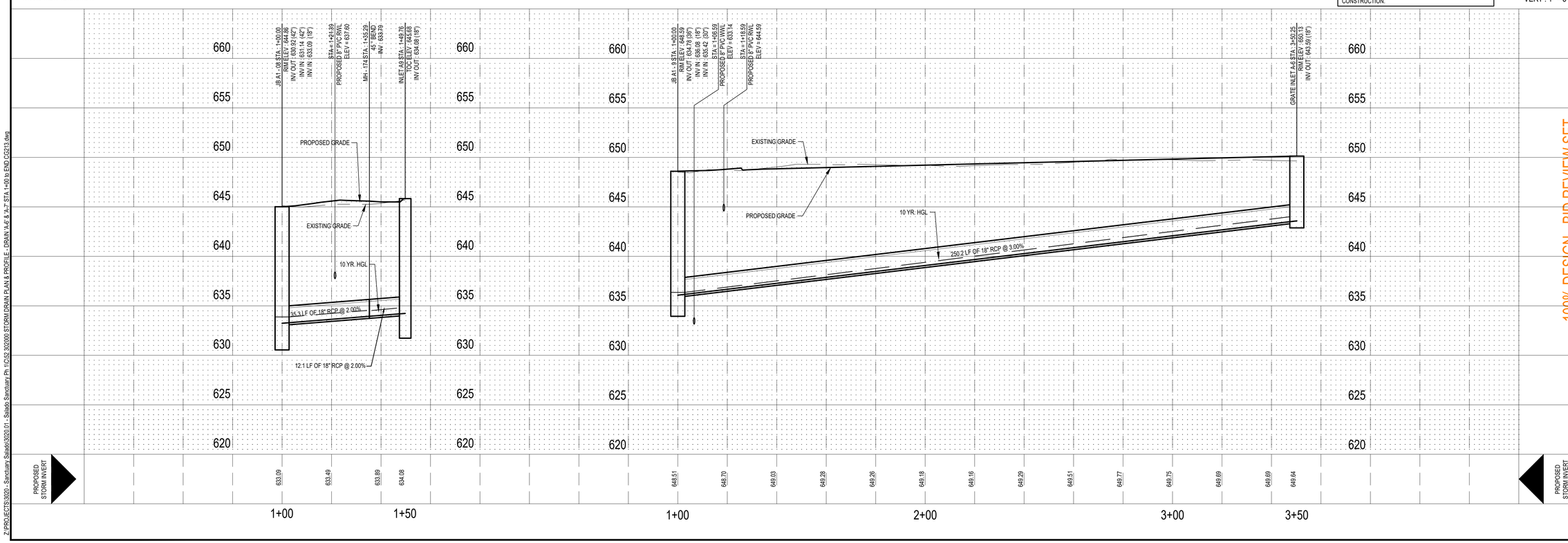
STORM WATER LINE 'A'-7
STA 1+00 TO END

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DI- CU501] FOR UTILITY CROSSING DETAIL	

N

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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MATKIN HOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

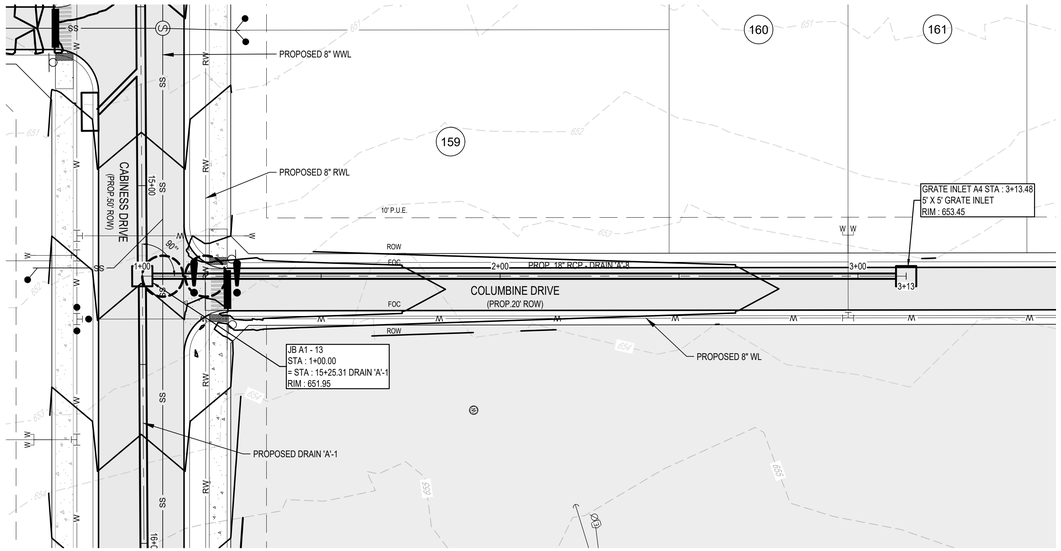
STORM DRAIN PLAN & PROFILE - DRAIN 'A-6' & 'A-7' STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG213

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	52 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\2.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN "A-6" & "A-7" STA 1+00 to END CG213.dwg

Date: Jul 18, 2019, 8:44am User ID: cramsey



TRENCH EXCAVATION SAFETY PROTECTION

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STORM WATER LINE 'A'-8
STA 1+00 TO END

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [C9 CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-28-2019

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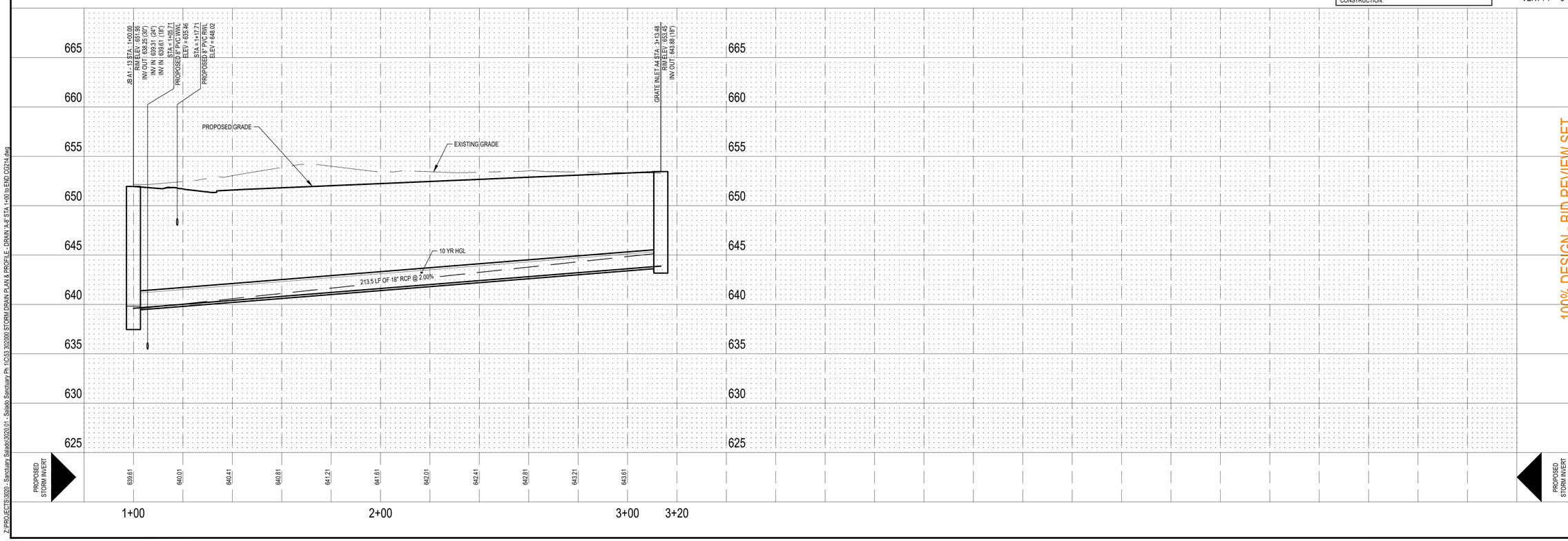
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

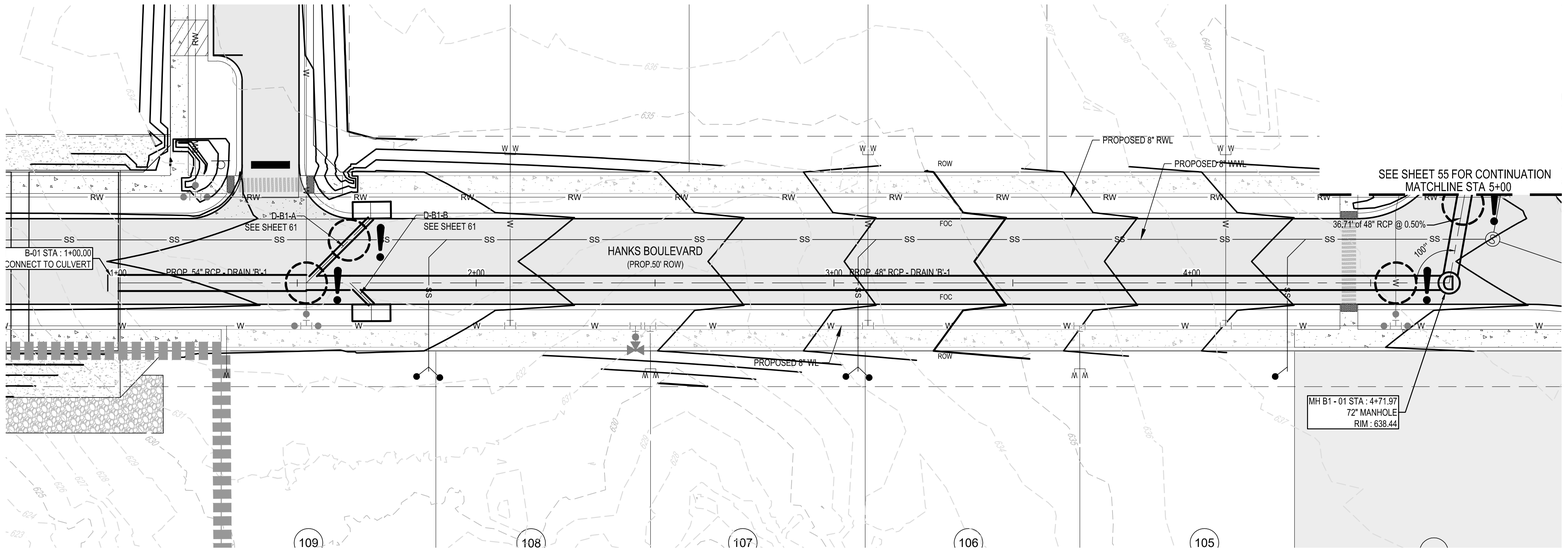
STORM DRAIN PLAN & PROFILE - DRAIN 'A-8'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG214

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	53 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG3.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN "A-8" STA 1+00 to END CG214.dwg

Date: Jul 24, 2019, 2:55pm User ID: rwagliardo



TRENCH EXCAVATION SAFETY PROTECTION

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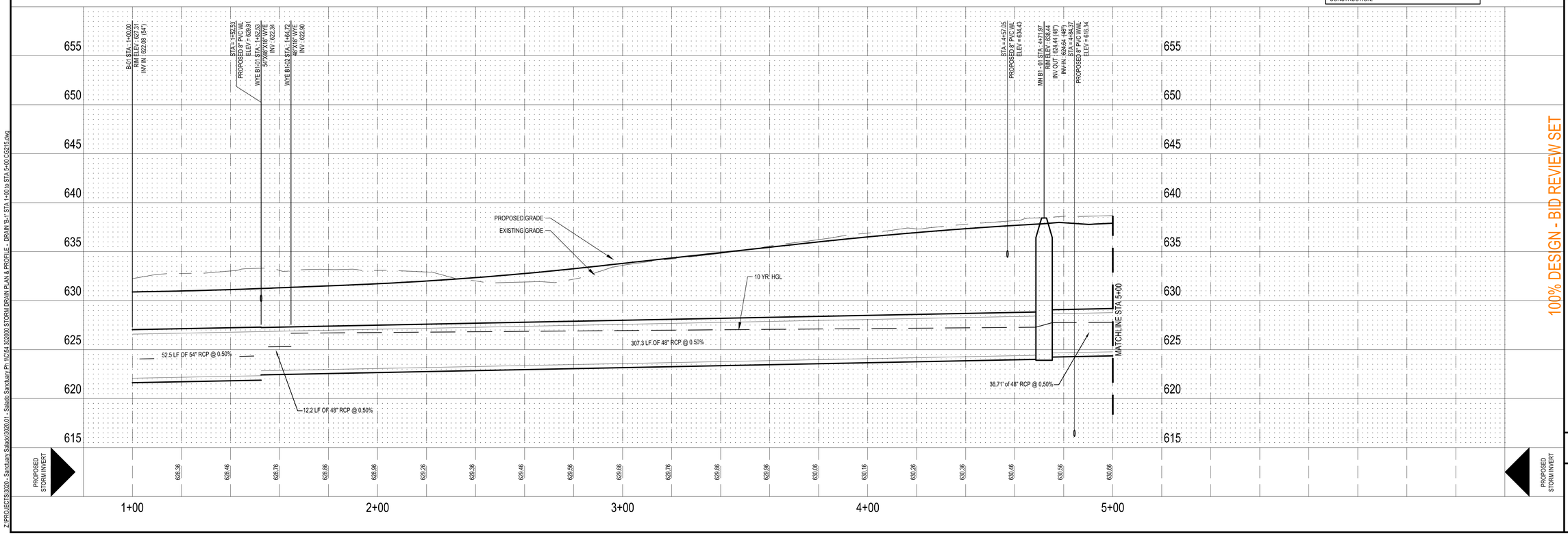
STORM WATER LINE 'B'-1
STA 1+00 TO 5+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

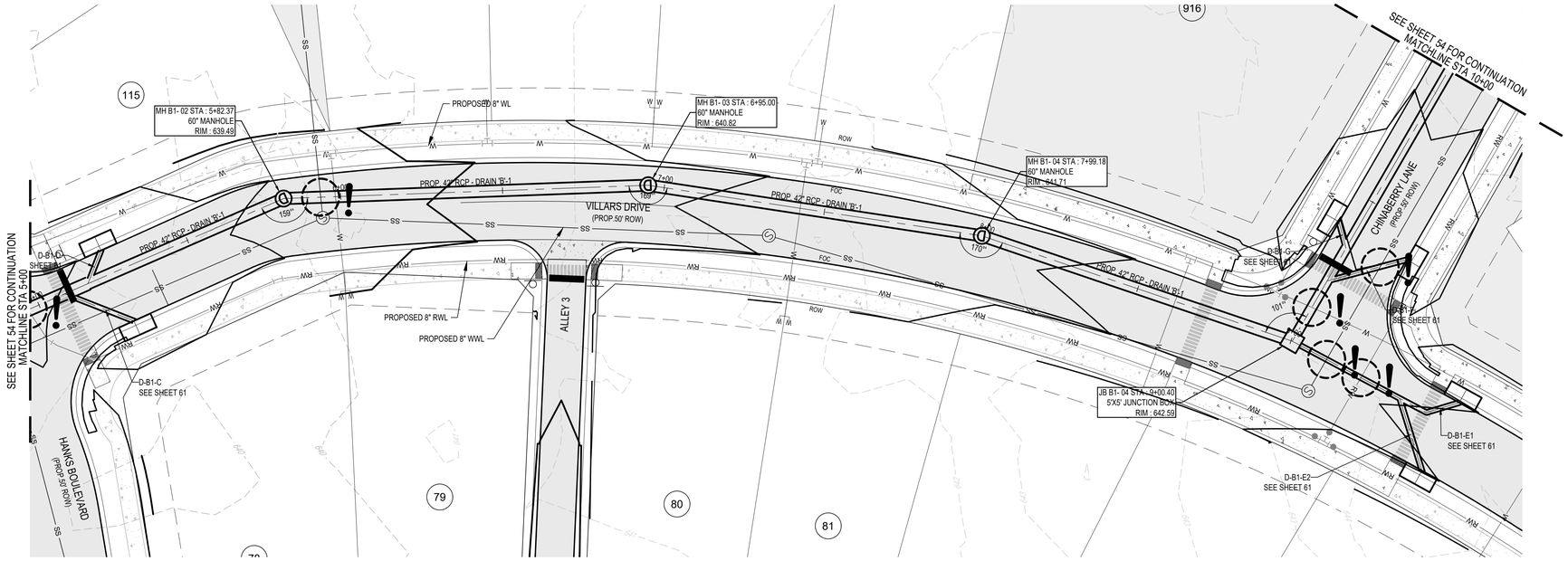
STORM DRAIN PLAN & PROFILE - DRAIN 'B-1'
STA 1+00 TO STA 5+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG215

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	54 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG4_3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'B-1' STA 1+00 to STA 5+00 CG215.dwg

Date: Jul 18, 2019, 8:49am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DI CI501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-28-2019

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MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CEDAR PARK, TEXAS 78026
OFFICE: 512.868.2244
TEXAS REGISTERED SURVEYING FIRM F-10024000

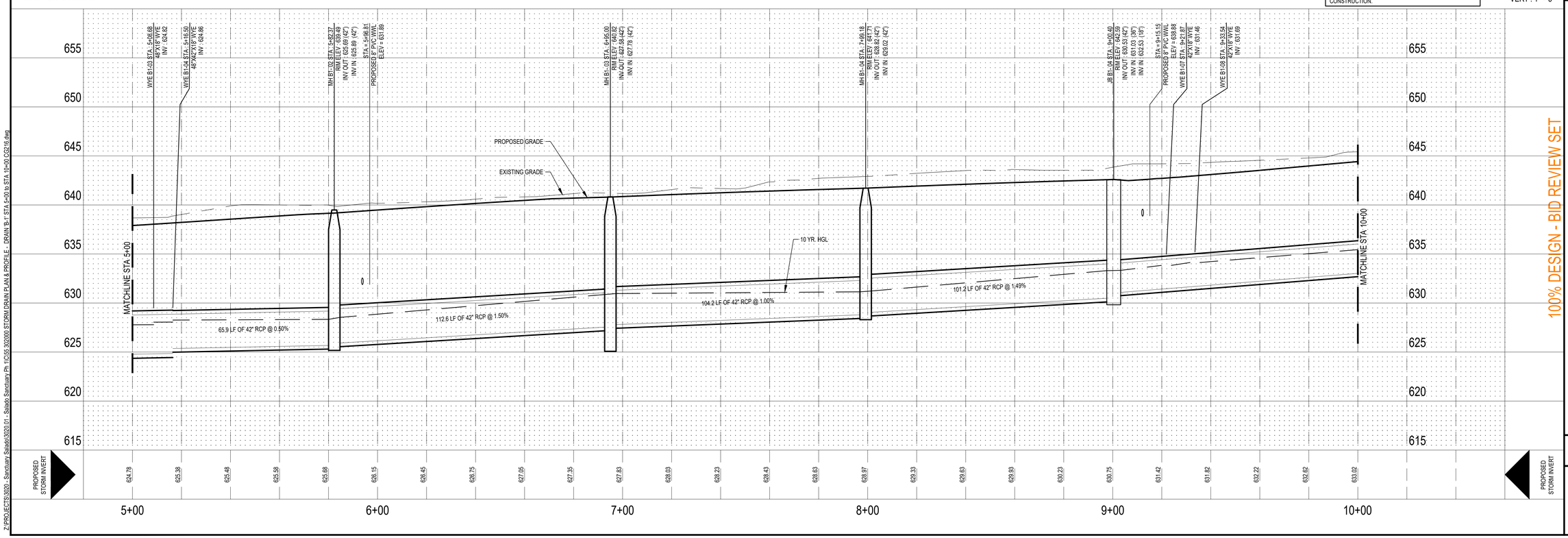
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'B'-1
STA 5+00 TO 10+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

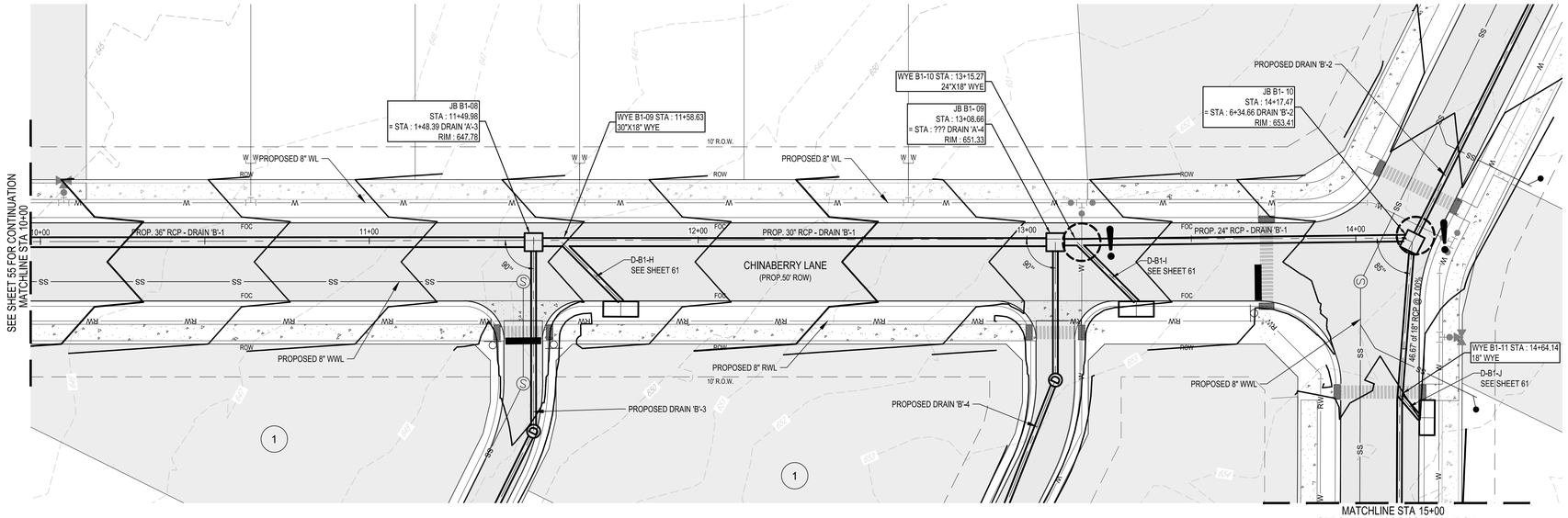
STORM DRAIN PLAN & PROFILE - DRAIN 'B-1'
STA 5+00 TO STA 10+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG216

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	55 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\5.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'B-1' STA 5+00 to STA 10+00 CG216.dwg

Date: Jul 24, 2019, 5:35pm User ID: nwagliardo



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dr. CUSO1] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
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3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

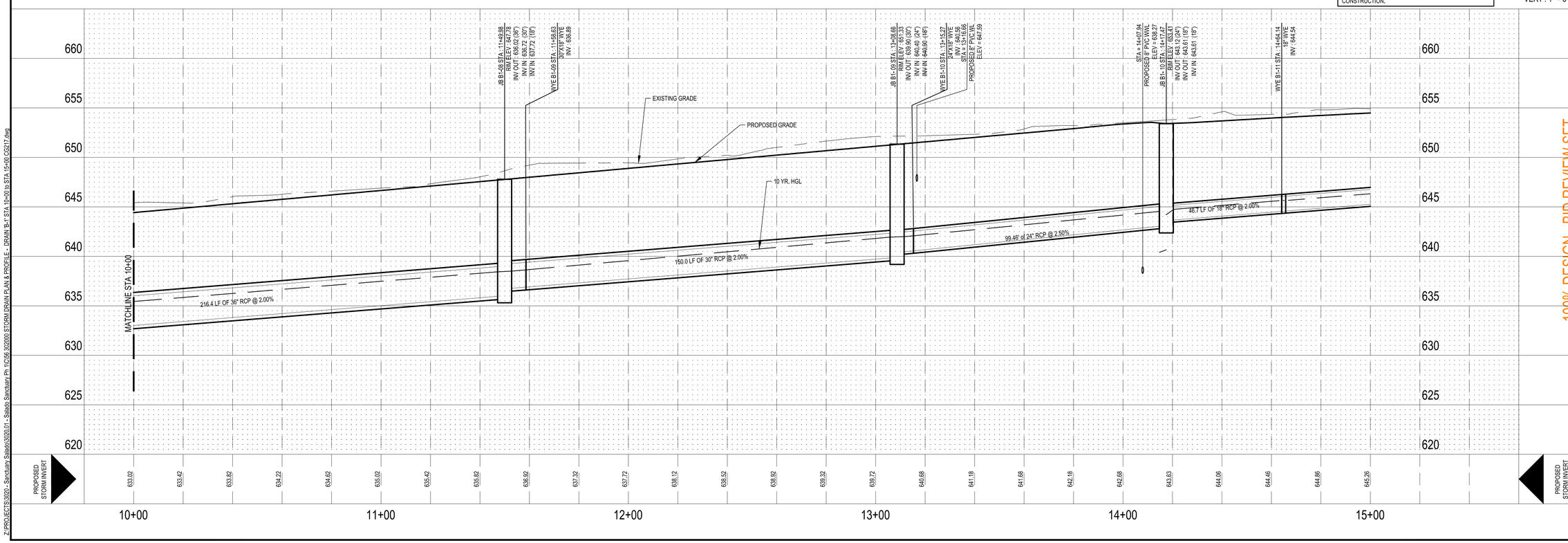
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'B'-1
STA 10+00 TO 15+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

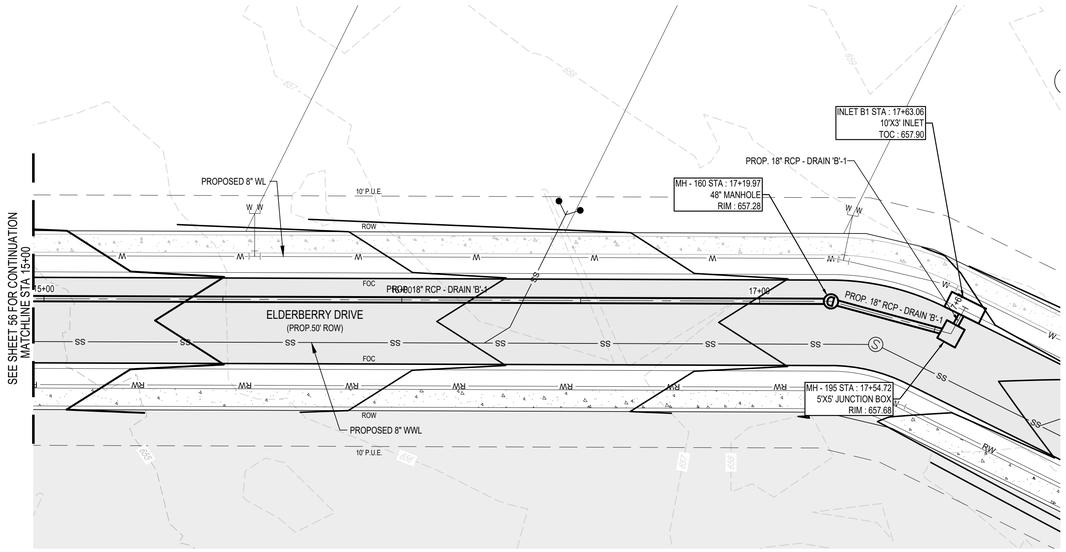
STORM DRAIN PLAN & PROFILE - DRAIN 'B-1'
STA 10+00 TO STA 15+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG217

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	56 OF X

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\6.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'B-1' STA 10+00 to STA 15+00 CG217.dwg

Date: Jul 18, 2019, 8:51am User ID: cramsey



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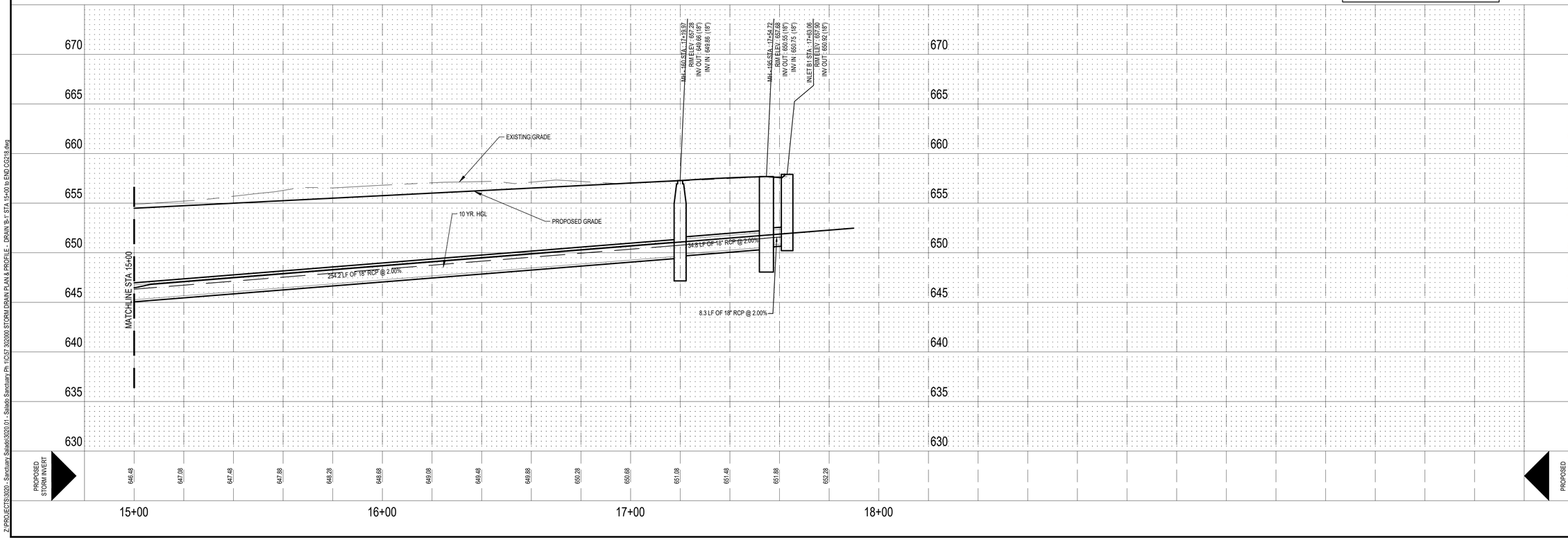
STORM WATER LINE 'B'-1
STA 15+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dr. CUSO1] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

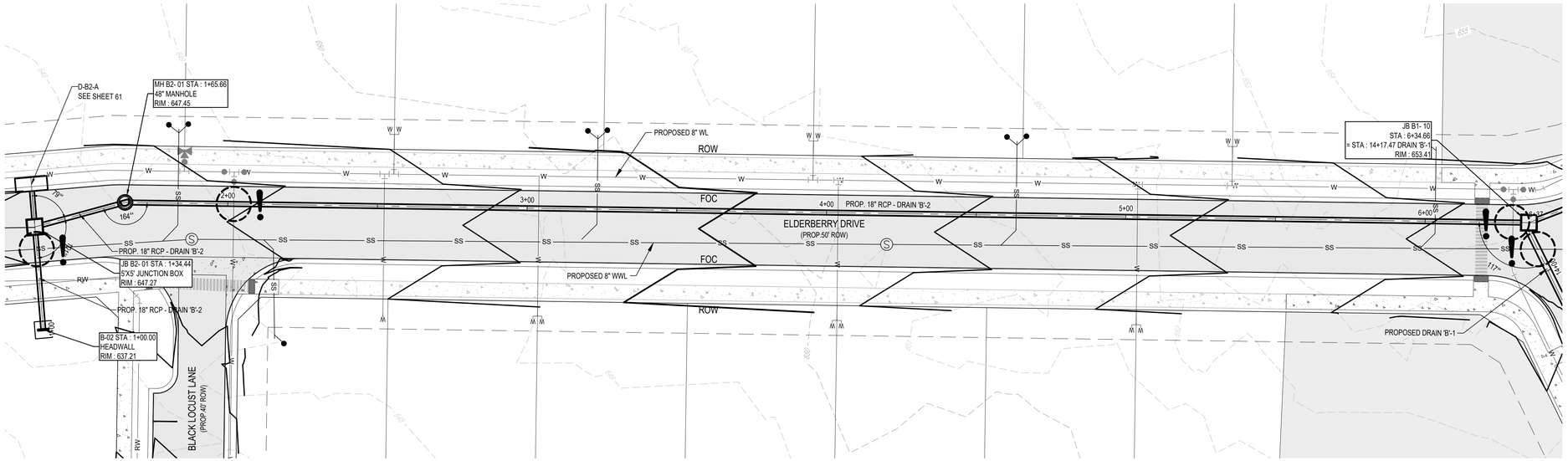
STORM DRAIN PLAN & PROFILE - DRAIN 'B-1'
STA 15+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG218

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	57 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CS\2 302000 STORM DRAIN\ PLAN & PROFILE - DRAIN 'B-1' STA 15+00 to END CG218.dwg

Date: Jul 18, 2019, 8:53am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DI- CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'

0 10' 20' 30' 40'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
3101 SHELL ROAD, SUITE 100
CEDAR PARK, TEXAS 78026
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

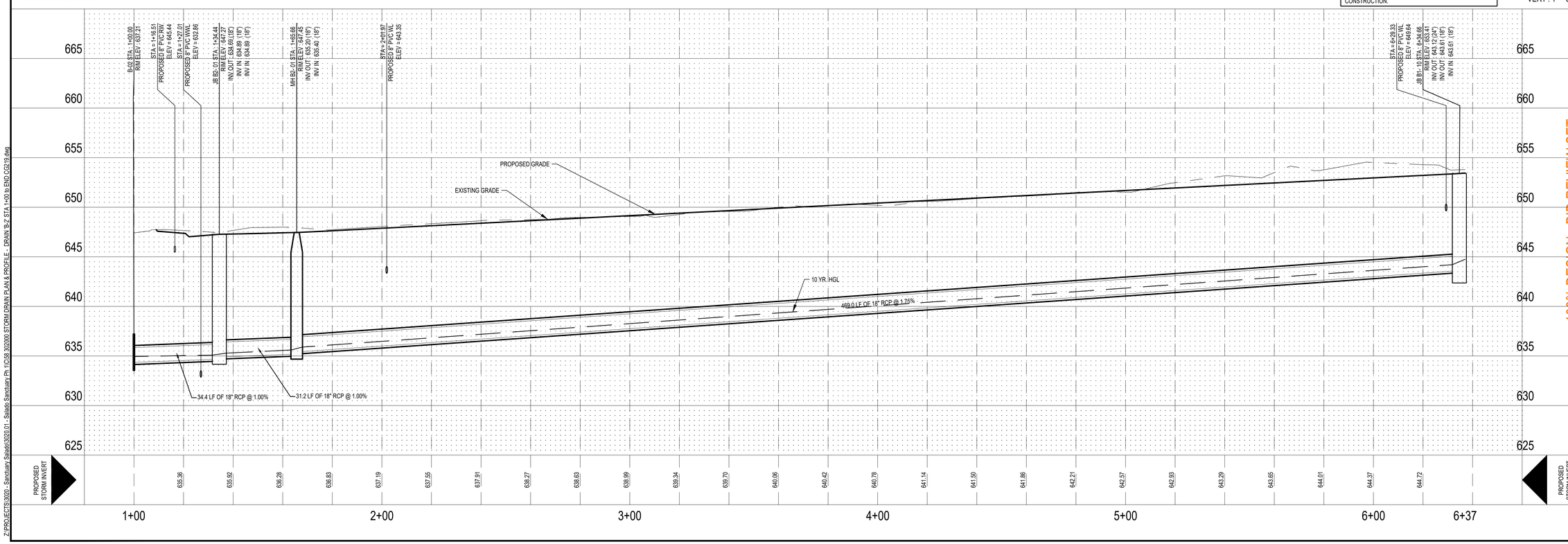
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'B'-2
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

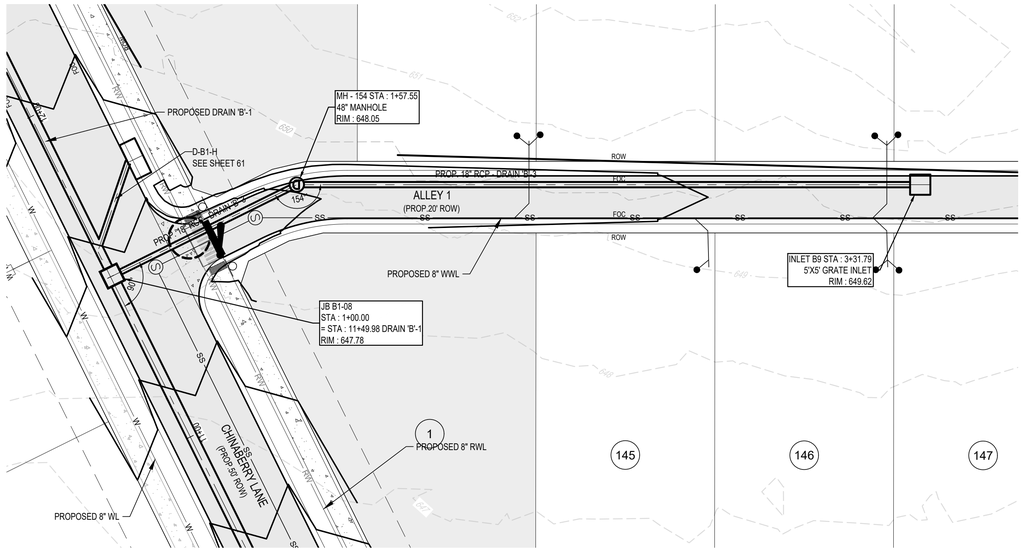
STORM DRAIN PLAN & PROFILE - DRAIN 'B-2'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG219

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	58 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\8.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'B-2' STA 1+00 to END.CG219.dwg

Date: Jul 18, 2019, 8:55am User ID: cramsey



TRENCH EXCAVATION SAFETY PROTECTION

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STORM WATER LINE 'B'-3
STA 1+00 TO END

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [09 C1501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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CONTACT@MATKINHOOVER.COM
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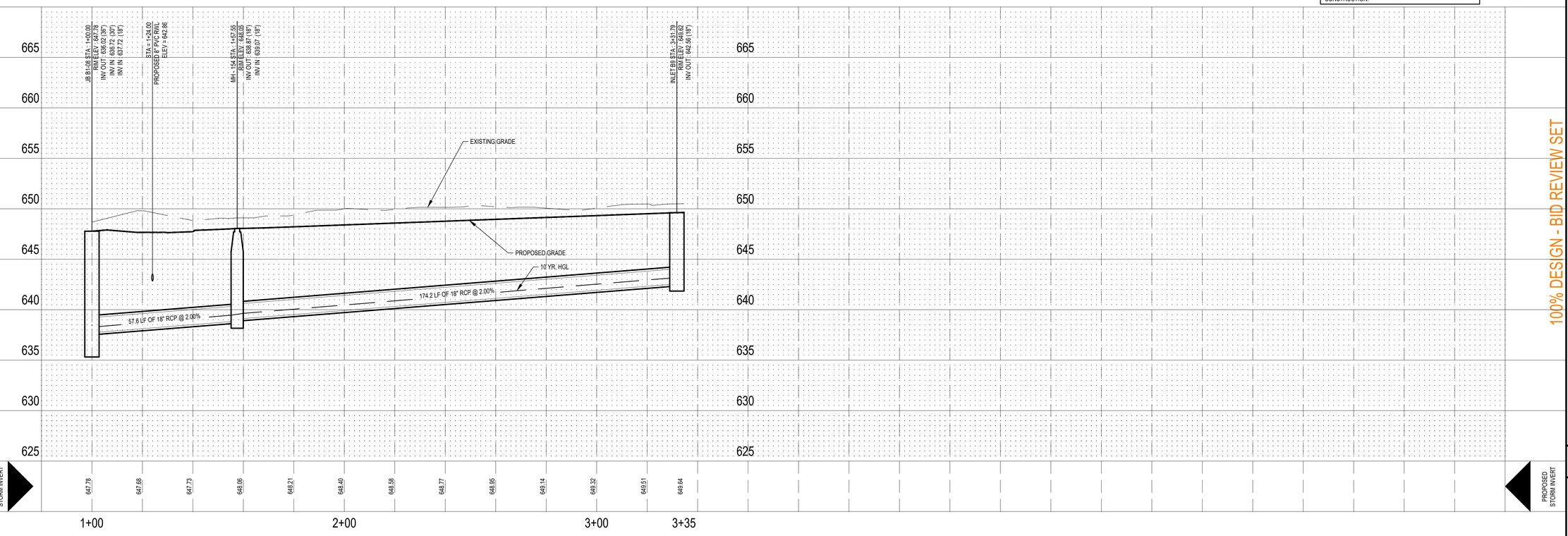
3101 SHELL ROAD, SUITE 103
CROSS PLAINS, TEXAS 76443
OFFICE: 512.868.2244

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

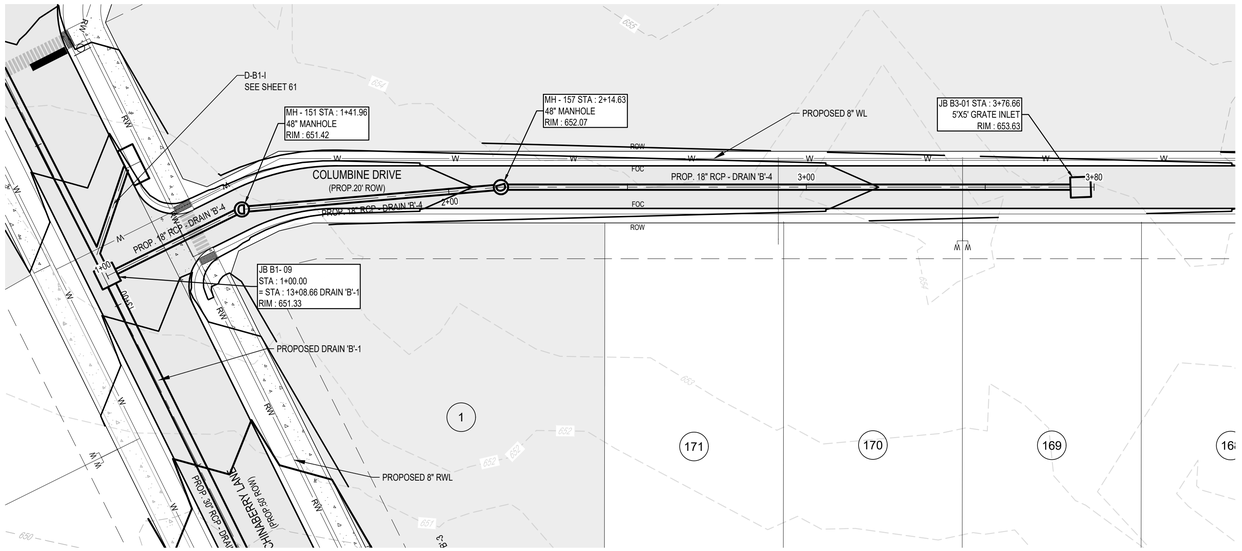
STORM DRAIN PLAN & PROFILE - DRAIN 'B-3'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG220

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	59 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\9.3020\00 STORM DRAIN PLAN & PROFILE - DRAIN 'B-3' STA 1+00 to END.CG220.dwg

Date: Jul 18, 2019, 8:56am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [D]- C1501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

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CROSS PLAINS, TEXAS 76443
OFFICE: 512.868.2244

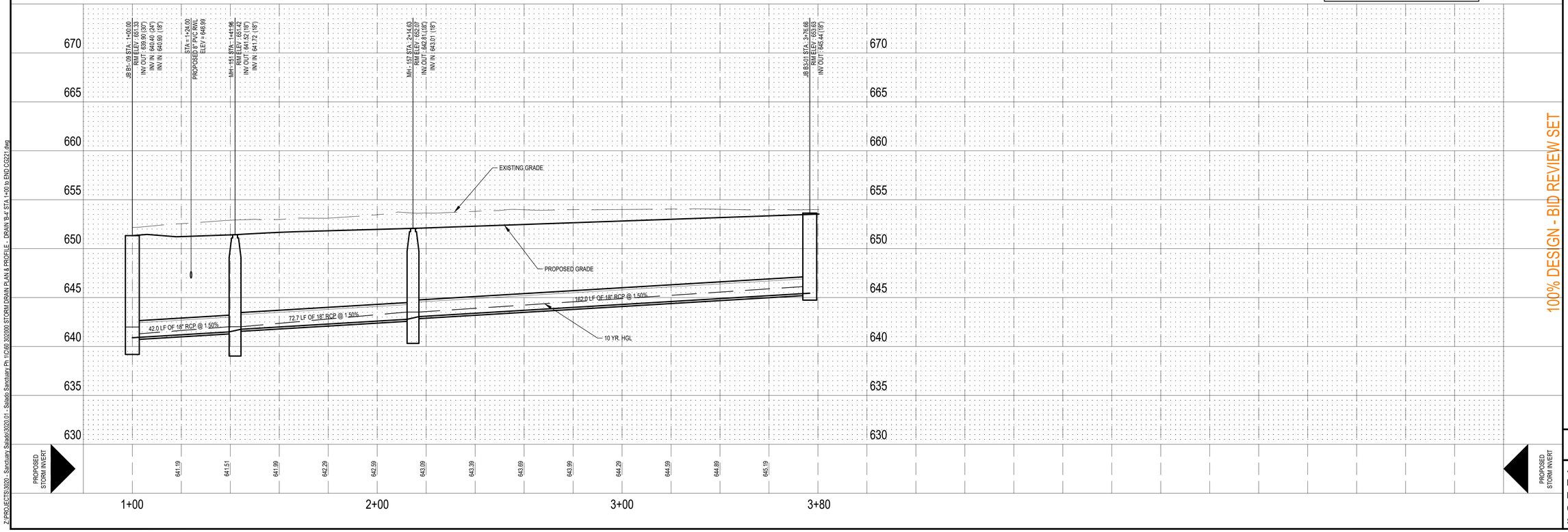
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

STORM WATER LINE 'B'-4
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



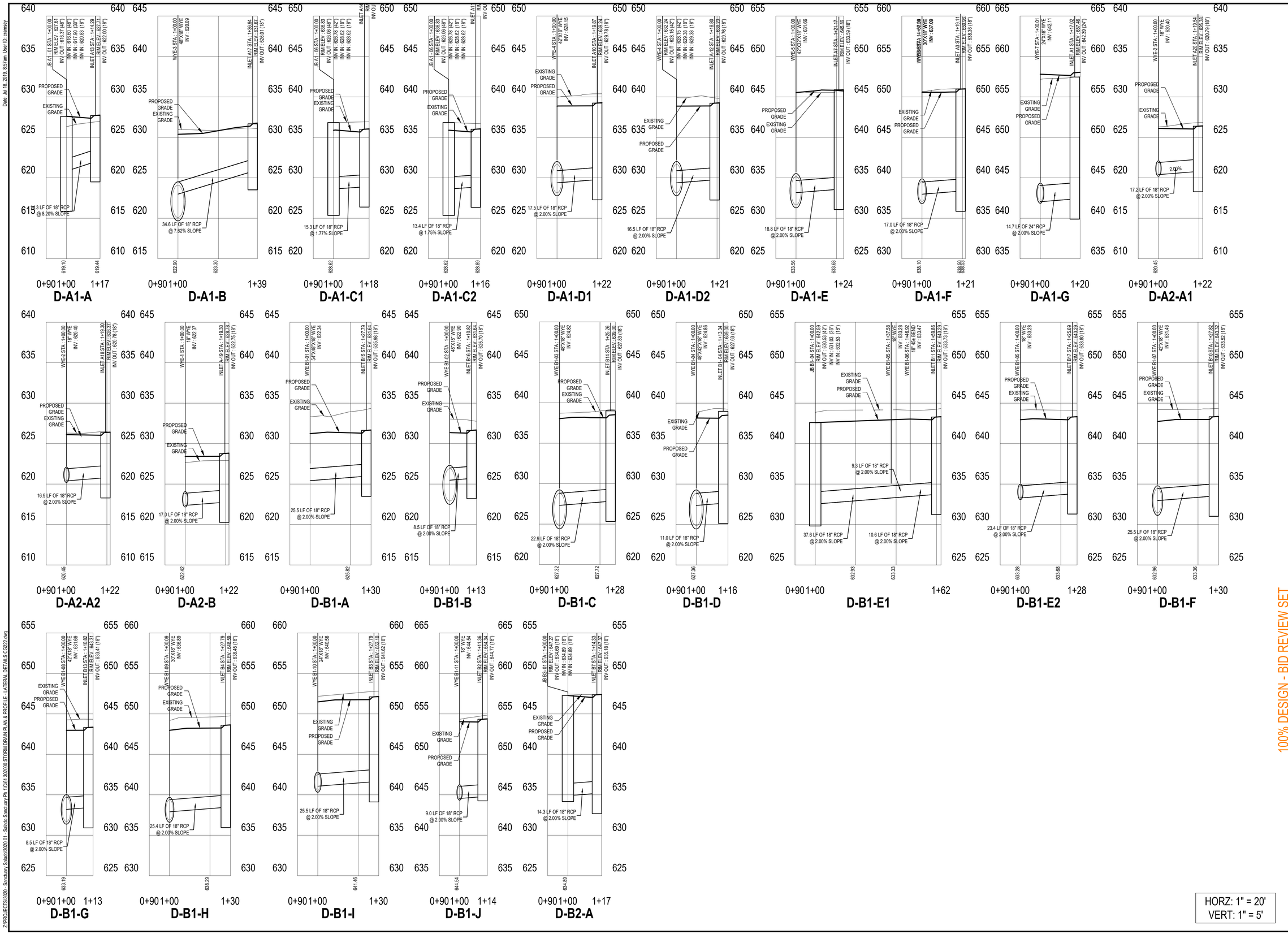
100% DESIGN - BID REVIEW SET

STORM DRAIN PLAN & PROFILE - DRAIN 'B-4'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG221

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	60 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\0.302000.STORM DRAIN PLAN & PROFILE - DRAIN 'B-4' STA 1+00 to END CG221.dwg



HORZ: 1" = 20'
VERT: 1" = 5'

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
June 5, 2019

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MATKINHOOVER ENGINEERING & SURVEYING
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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

STORM DRAIN PLAN & PROFILE - LATERAL DETAILS
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

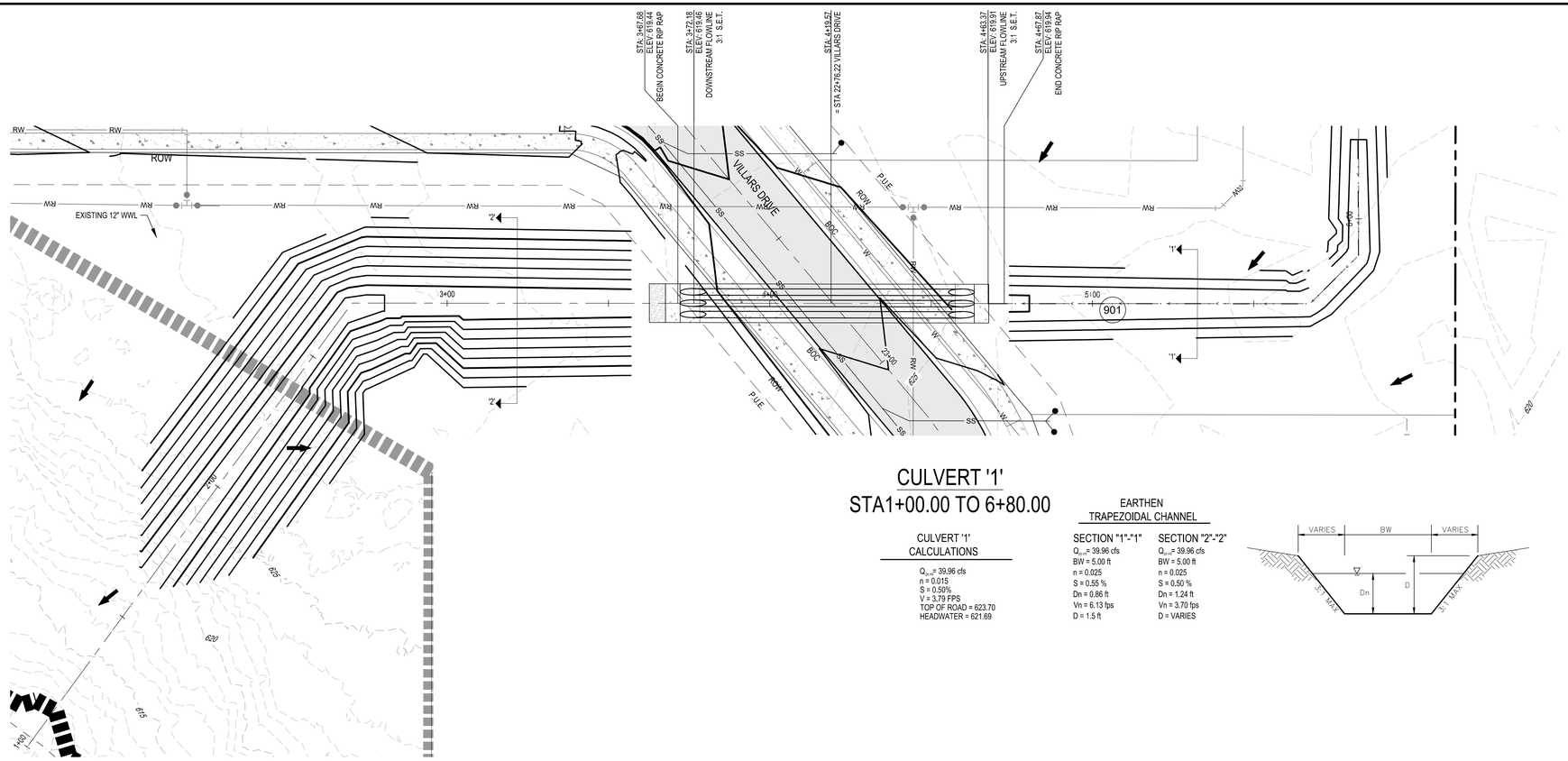
CG222

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	61 OF 100

Date: Jul 18, 2019, 8:57am User ID: cramsey

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG61 3020\00 STORM DRAIN PLAN & PROFILE - LATERAL DETAILS CG222.dwg

Date: Jul 24, 2019, 11:41am User ID: rwagliardo



LEGEND

PROPOSED LOT LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	840
PROPOSED 5' CONTOUR	840
PROPOSED WATER	W W
PROPOSED RECLAIMED WATER	RW
PROPOSED SANITARY SEWER	RW
PROPOSED DITCH LINE	
PUBLIC UTILITY EASEMENT	P.U.E.
RIGHT OF WAY	ROW
EDGE OF PAVEMENT	EOP
FLOW ARROW	

NOTES:
1. CONTRACTOR SHALL HYDROMULCH OR WOOD MULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES AND DRAINAGE DITCHES.

2. ALL STORM DRAIN PIPES ON THIS PROJECT SHALL BE RCP WITH A N=0.015 VALUE.

N

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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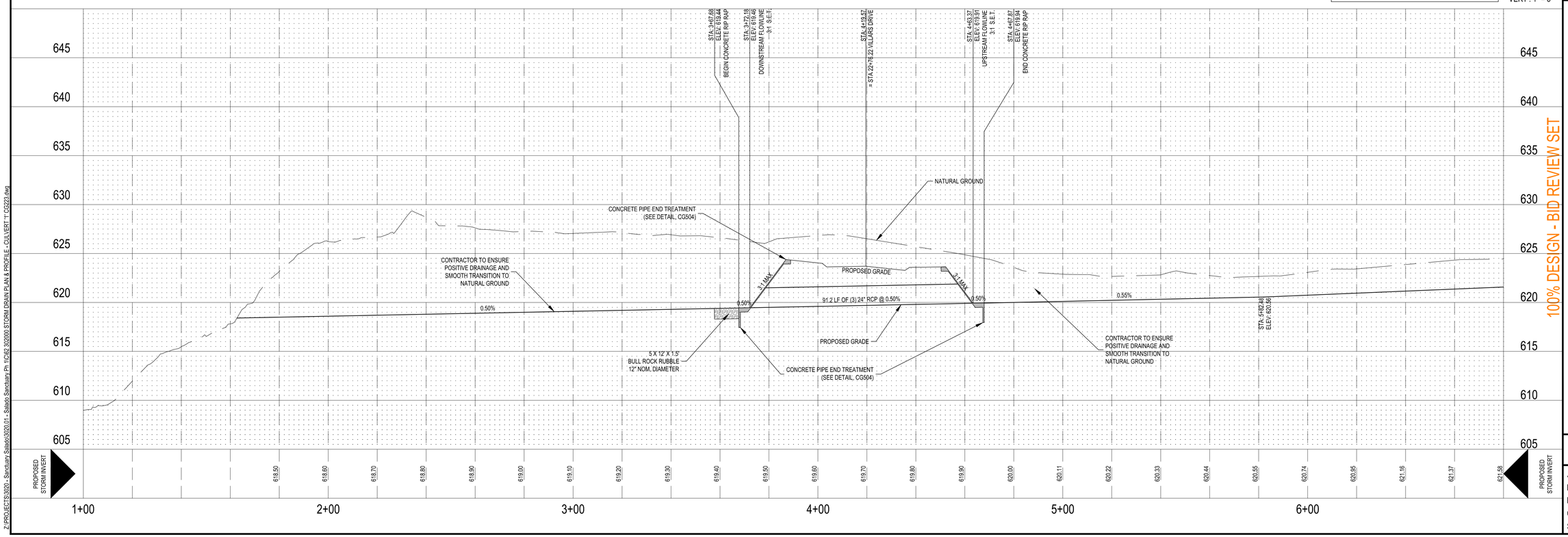
ASSUMED ROCK WILL BE ENCOUNTERED DURING DRAINAGE EXCAVATION FOR EARTHEN CHANNELS. IF ROCK IS ENCOUNTERED NO EROSION CONTROL IS NEEDED. IF SOIL IS ENCOUNTERED, CONTRACTOR TO LINE CHANNEL WITH 4" REINFORCED CONCRETE WITH 6X6 W2..9X W2.9 WELDED WIRE FABRIC OR APPROVED EQUIVALENT.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



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& SURVEYING
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CONTACT@MATKINHOOVER.COM
1301 SHELL ROAD, SUITE 103
CEDAR PARK, TEXAS 78613
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

STORM DRAIN PLAN & PROFILE - CULVERT '1'
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG223

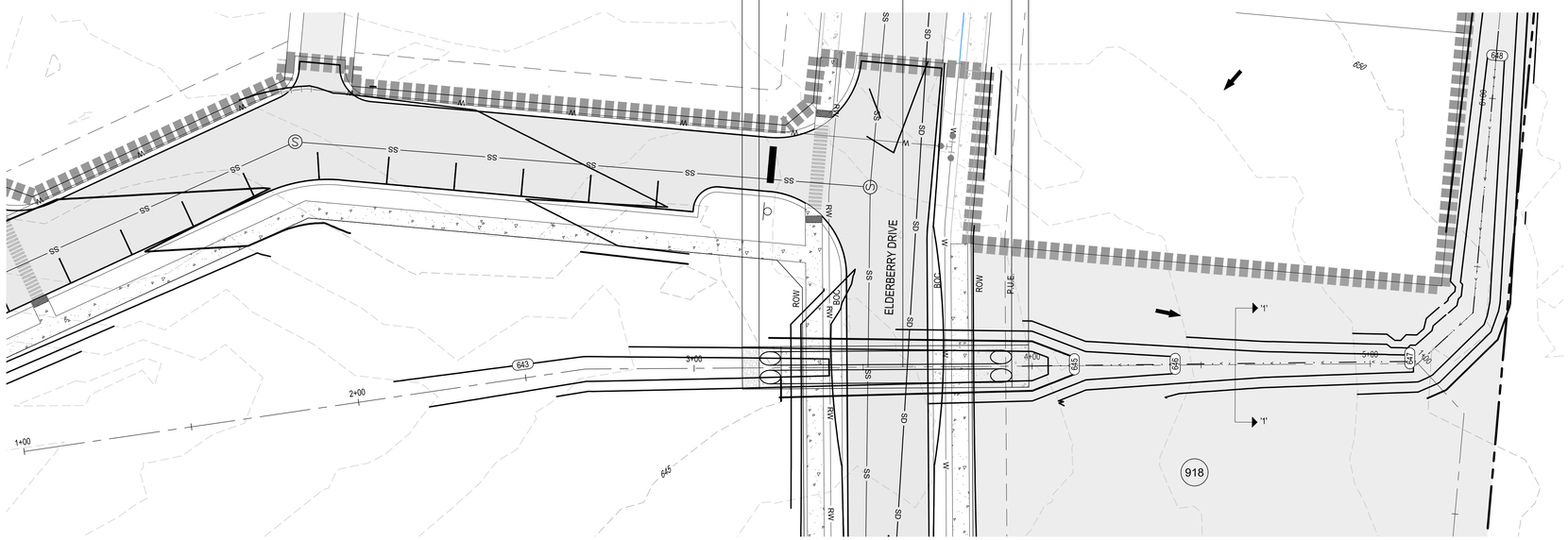
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	62 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIV\2 3020\00 STORM DRAIN PLAN & PROFILE - CULVERT 1\CG223.dwg

CULVERT '2'
STA1+00.00 TO 6+80.00

CULVERT '2' CALCULATIONS

Q_{100}= 63.88 cfs
n = 0.015
S = 0.50%
V = 5.62 FPS
TOP OF ROAD = 646.86
HEADWATER = 645.98



LEGEND

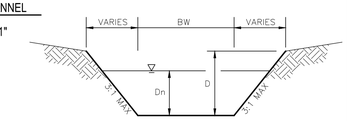
PROPOSED LOT LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	840
PROPOSED 5' CONTOUR	840
PROPOSED WATER	W
PROPOSED RECLAIMED WATER	RW
PROPOSED SANITARY SEWER	RW
PROPOSED DITCH LINE	
PUBLIC UTILITY EASEMENT	P.U.E.
RIGHT OF WAY	ROW
EDGE OF PAVEMENT	EOP
FLOW ARROW	

NOTES:
1. CONTRACTOR SHALL HYDROMULCH OR WOOD MULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES AND DRAINAGE DITCHES.

2. ALL STORM DRAIN PIPES ON THIS PROJECT SHALL BE RCP WITH A N=0.015 VALUE.

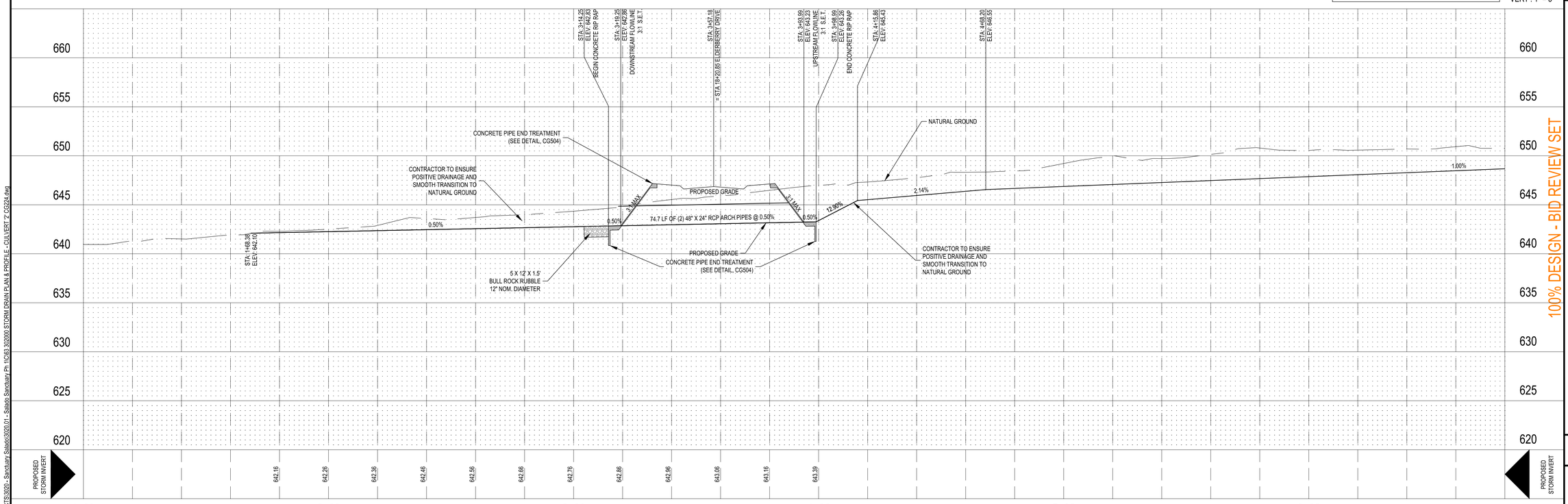
EARTHEN TRAPEZOIDAL CHANNEL

SECTION "1"-"1"
Q_{100}=63.88 cfs
BW = 5.00 ft
n = 0.025
S = 1.00 %
Dn = 1.29 ft
Vn = 5.33 fps
D = 2.0 ft



ASSUMED ROCK WILL BE ENCOUNTERED DURING DRAINAGE EXCAVATION FOR EARTHEN CHANNELS. IF ROCK IS ENCOUNTERED NO EROSION CONTROL IS NEEDED. IF SOIL IS ENCOUNTERED, CONTRACTOR TO LINE CHANNEL WITH 4" REINFORCED CONCRETE WITH 6X6 W2..9X W2.9 WELDED WIRE FABRIC OR APPROVED EQUIVALENT.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



N

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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BOERNE, TEXAS 78006
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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/LS SURVEYING FIRM F-10024000
3303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

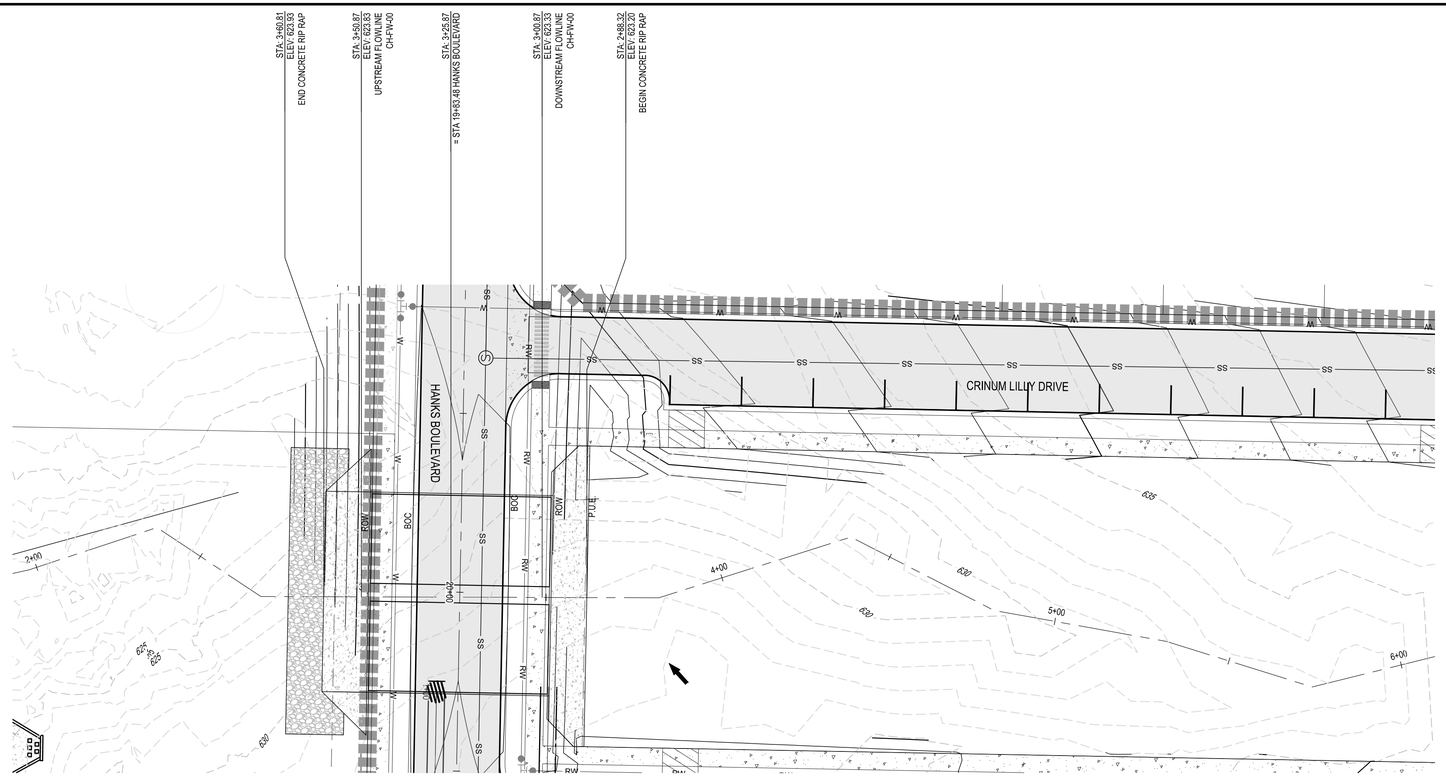
STORM DRAIN PLAN & PROFILE - CULVERT '2'
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG224

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	63 OF 100

Date: Jul 30, 2019, 11:39am User ID: mslka
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIG\ 3020\00 STORM DRAIN PLAN & PROFILE - CULVERT '2' CG224.dwg

Date: Jul 30, 2019, 10:56am User ID: malka



LEGEND

PROPOSED LOT LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	840
PROPOSED 5' CONTOUR	840
PROPOSED WATER	W W
PROPOSED RECLAIMED WATER	RW
PROPOSED SANITARY SEWER	RW
PROPOSED DITCH LINE	
PUBLIC UTILITY EASEMENT	P.U.E.
RIGHT OF WAY	ROW
EDGE OF PAVEMENT	EOP
FLOW ARROW	

NOTES:
1. CONTRACTOR SHALL HYDROMULCH OR WOOD MULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES AND DRAINAGE DITCHES.

2. ALL STORM DRAIN PIPES ON THIS PROJECT SHALL BECMP WITH A N=0.024 VALUE.

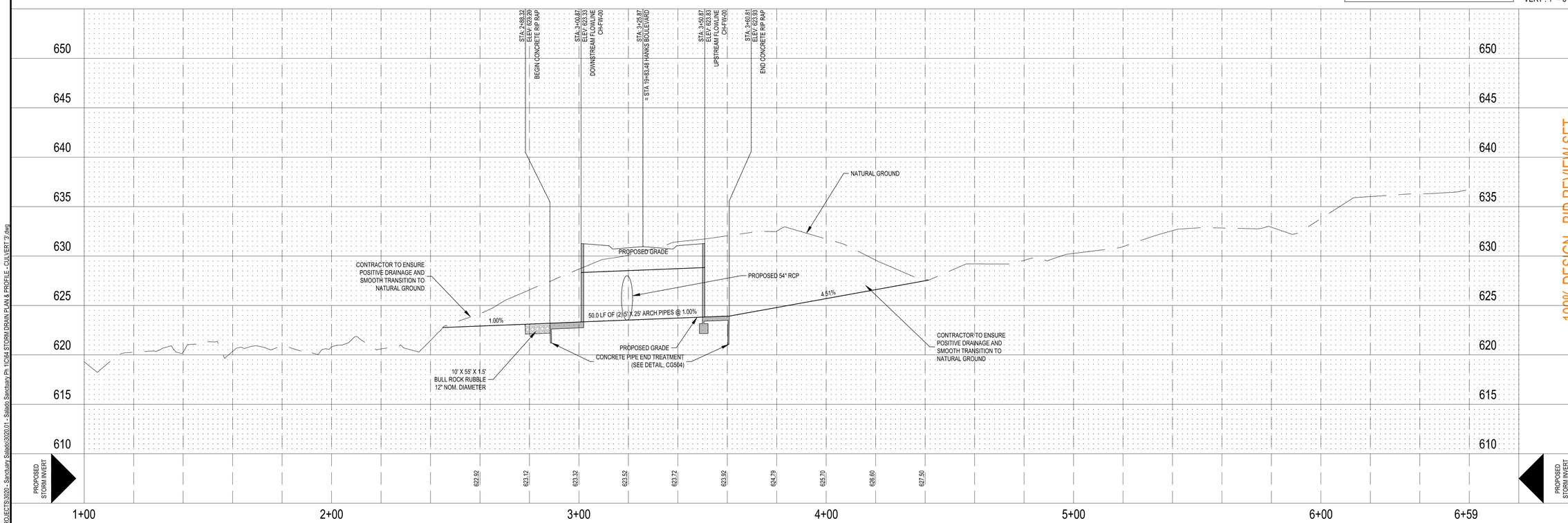
CULVERT '3'
STA2+00.00 TO 6+00.00

CULVERT '3'
CALCULATIONS

Q_{100}= 143.06 cfs
n = 0.015
S = 1.00%
V = 1.23 FPS
TOP OF ROAD = 630.95
HEADWATER = 626.19

ASSUMED ROCK WILL BE ENCOUNTERED DURING DRAINAGE EXCAVATION FOR EARTHEN CHANNELS. IF ROCK IS ENCOUNTERED NO EROSION CONTROL IS NEEDED. IF SOIL IS ENCOUNTERED, CONTRACTOR TO LINE CHANNEL WITH 4" REINFORCED CONCRETE WITH 6X6 W2..9X W2.9 WELDED WIRE FABRIC OR APPROVED EQUIVALENT.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
1303 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.808.2244

100% DESIGN - BID REVIEW SET

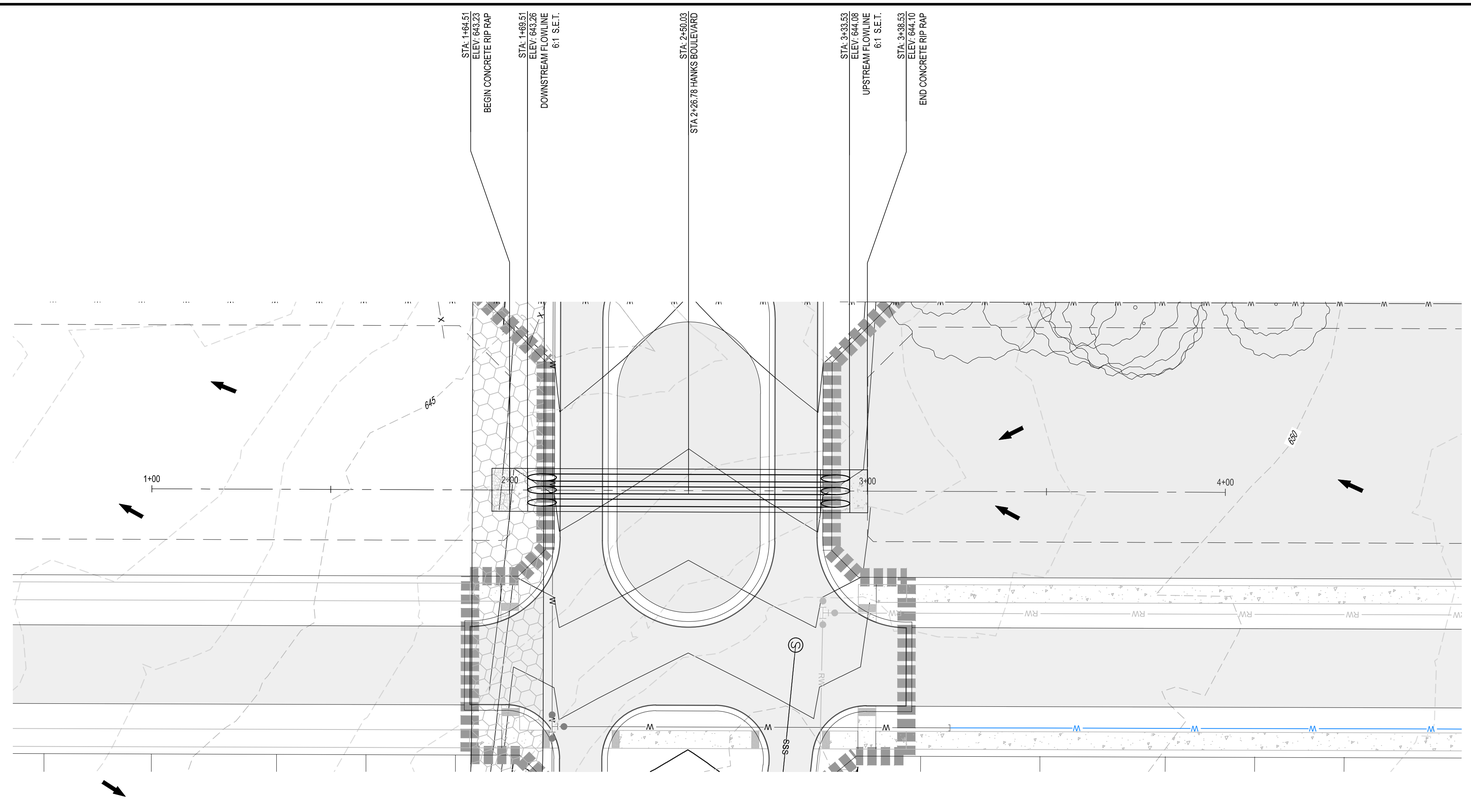
STORM DRAIN PLAN & PROFILE - CULVERT '3'
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG225

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	64 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\Civil\ STORM DRAIN PLAN & PROFILE - CULVERT '3'.dwg

Date: Jul 24, 2019, 10:39am User ID: rwagliardo



LEGEND

PROPOSED LOT LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	840
PROPOSED 5' CONTOUR	840
PROPOSED WATER	W W
PROPOSED RECLAIMED WATER	RW
PROPOSED SANITARY SEWER	RW
PROPOSED DITCH LINE	
PUBLIC UTILITY EASEMENT	P.U.E.
RIGHT OF WAY	ROW
EDGE OF PAVEMENT	EOP
FLOW ARROW	

NOTES:
1. CONTRACTOR SHALL HYDROMULCH OR WOOD MULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES AND DRAINAGE DITCHES.

2. ALL STORM DRAIN PIPES ON THIS PROJECT SHALL BE RCP WITH A N=0.015 VALUE.

CULVERT '4'
STA1+00.00 TO 4+00.00

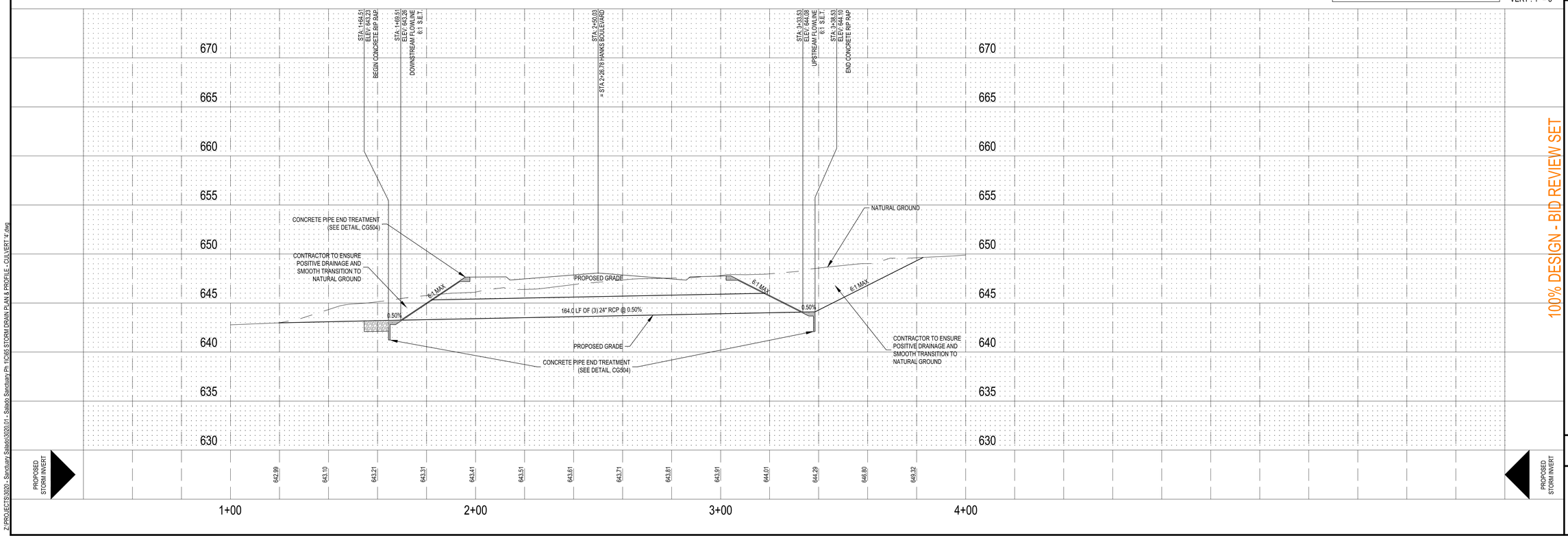
CULVERT '4' CALCULATIONS

Q_{100} = 24.11 cfs
n = 0.015
S = 0.50%
V = 3.17 FPS
TOP OF ROAD = 648.06
HEADWATER = 64.55

CULVERT '4' SHOWN FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT CULVERT DURING FUTURE PHASE DEVELOPMENT.

ASSUMED ROCK WILL BE ENCOUNTERED DURING DRAINAGE EXCAVATION FOR EARTHEN CHANNELS. IF ROCK IS ENCOUNTERED NO EROSION CONTROL IS NEEDED. IF SOIL IS ENCOUNTERED, CONTRACTOR TO LINE CHANNEL WITH 4" REINFORCED CONCRETE WITH 6X6 W2..9X W2.9 WELDED WIRE FABRIC OR APPROVED EQUIVALENT.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



N

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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1301 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78008
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

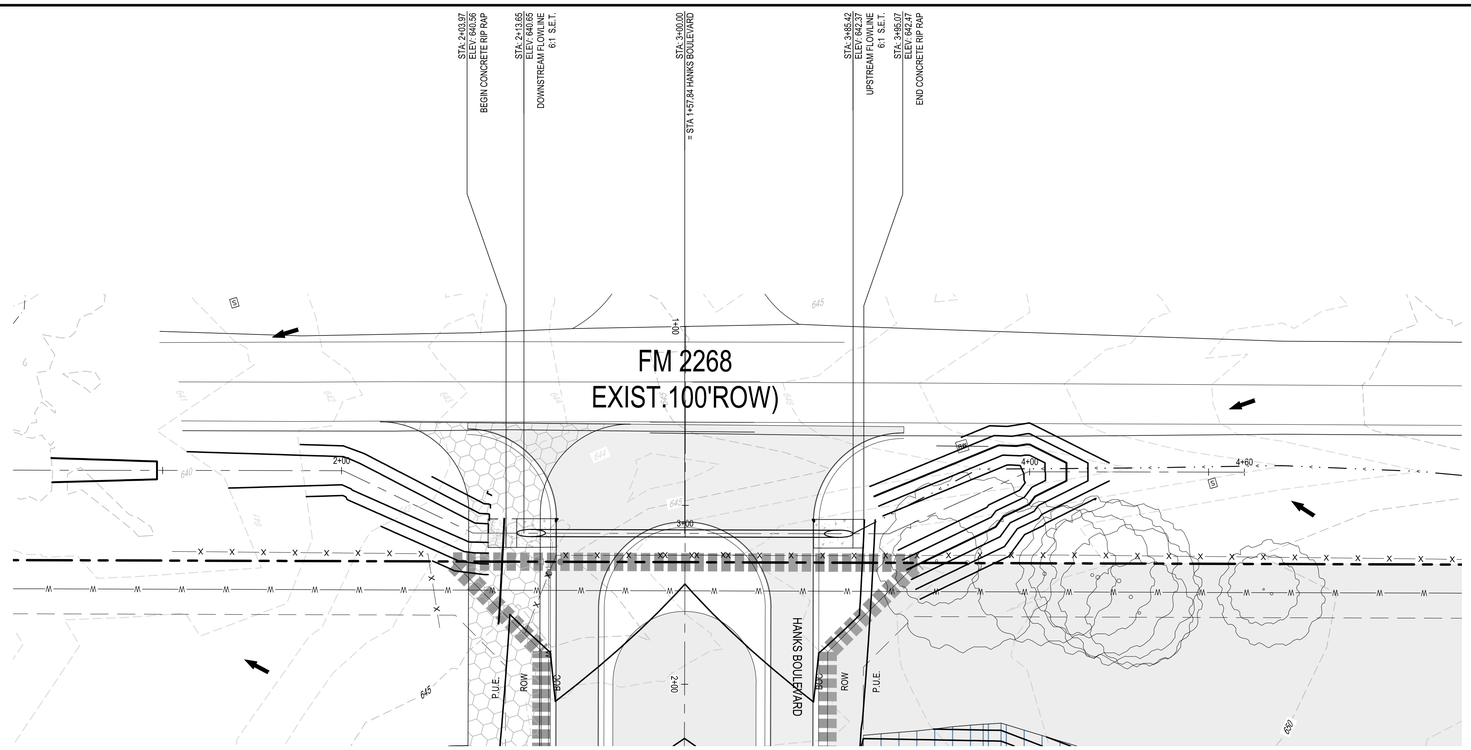
STORM DRAIN PLAN & PROFILE - CULVERT '4'
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG225

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	65 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\65 STORM DRAIN PLAN & PROFILE - CULVERT '4'.dwg

Date: Jul 30, 2019, 5:10pm User ID: msilva



NOT PART OF THIS PROJECT

LEGEND

PROPOSED LOT LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	840
PROPOSED 5' CONTOUR	840
PROPOSED WATER	W W
PROPOSED RECLAIMED WATER	RW
PROPOSED SANITARY SEWER	RW
PROPOSED DITCH LINE	
PUBLIC UTILITY EASEMENT	P.U.E.
RIGHT OF WAY	ROW
EDGE OF PAVEMENT	EOP
FLOW ARROW	

NOTES:
1. CONTRACTOR SHALL HYDROMULCH OR WOOD MULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES AND DRAINAGE DITCHES.

2. ALL STORM DRAIN PIPES ON THIS PROJECT SHALL BE RCP WITH A N=0.015 VALUE.

SCALE: 1"=20'
0 10' 20' 30' 40'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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CULVERT '5'
STA1+00.00 TO 4+00.00

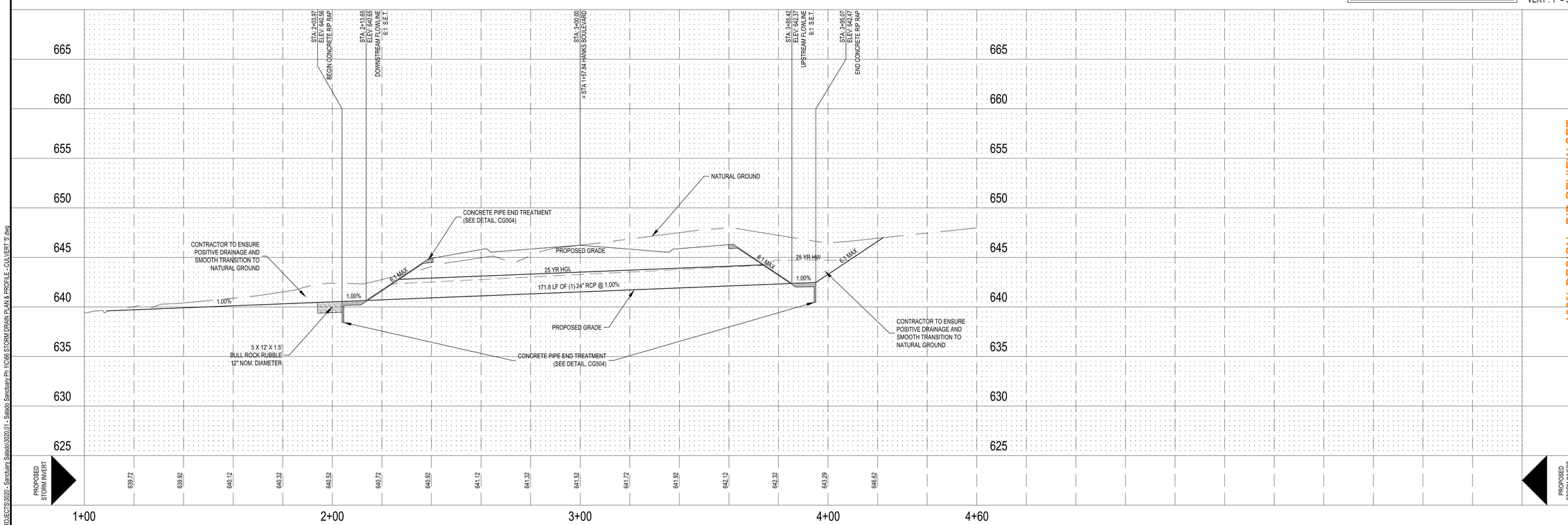
CULVERT '5' CALCULATIONS

Q_{100} = 24.11 cfs
n = 0.015
S = 0.50%
V = 3.17 FPS
TOP OF ROAD = 646.23
HEADWATER = 644.55

CULVERT '5' SHOWN FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT CULVERT DURING FUTURE PHASE DEVELOPMENT.

ASSUMED ROCK WILL BE ENCOUNTERED DURING DRAINAGE EXCAVATION FOR EARTHEN CHANNELS. IF ROCK IS ENCOUNTERED NO EROSION CONTROL IS NEEDED. IF SOIL IS ENCOUNTERED, CONTRACTOR TO LINE CHANNEL WITH 4" REINFORCED CONCRETE WITH 6X6 W2..9X W2.9 WELDED WIRE FABRIC OR APPROVED EQUIVALENT.

PROFILE SCALE:
HORZ : 1" = 20'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

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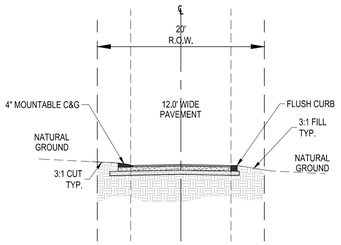
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045 | LS SURVEYING FIRM F-10024000
8300 SHELL ROAD, SUITE 103
AUSTIN, TEXAS 78735
OFFICE: 512.808.2244

STORM DRAIN PLAN & PROFILE - CULVERT '5'
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CG226

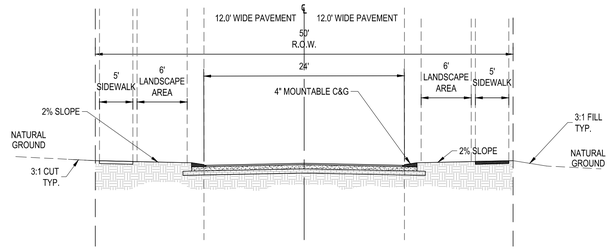
JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	66 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIVIL\STORM DRAIN PLAN & PROFILE - CULVERT '5'.dwg



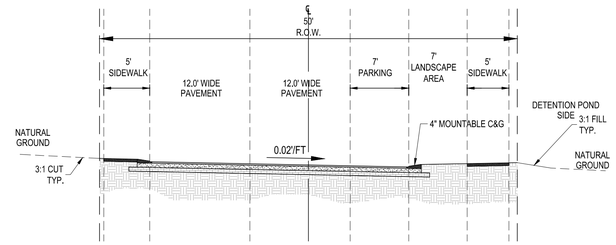
01 SECTION A
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
HANKS BOULEVARD	1+00.00 TO 5+45.18



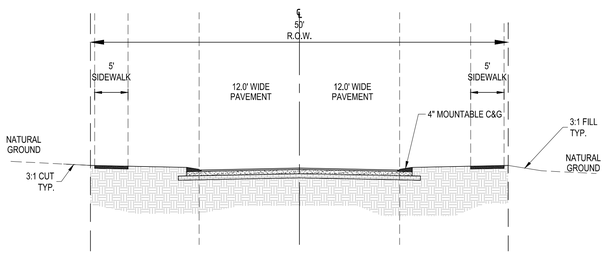
02 SECTION B
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
HANKS BOULEVARD	5+45.18 TO END



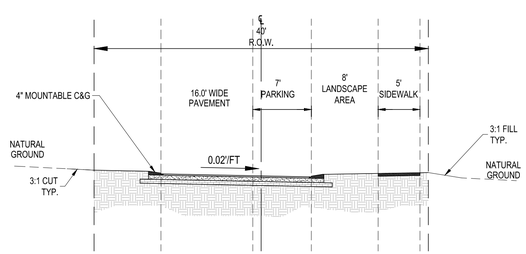
03 SECTION C
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
HANKS CIRCLE	1+00.00 TO END



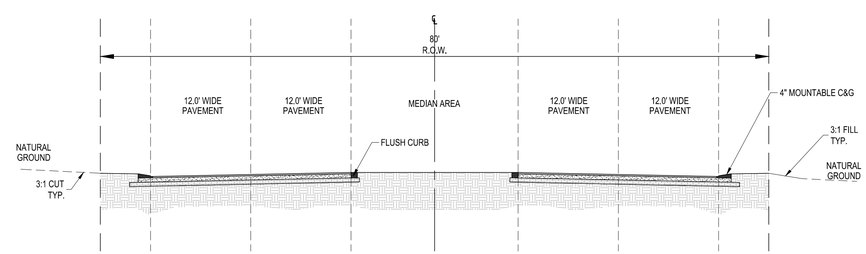
04 SECTION D
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
CABINESS DRIVE	1+00.00 TO 2+18.06
RETREIVER LANE	1+00.00 TO



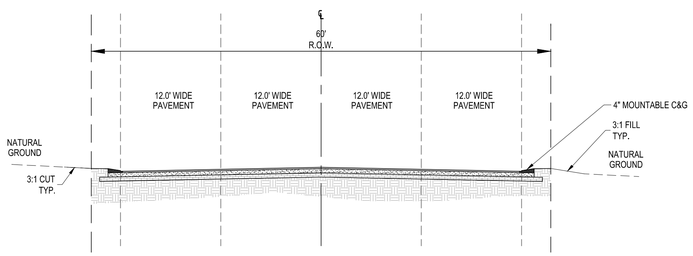
05 SECTION E
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
BLACK LOCUST LANE	1+00.00 TO END
CRINUM LILLY DRIVE	1+00.00 TO END



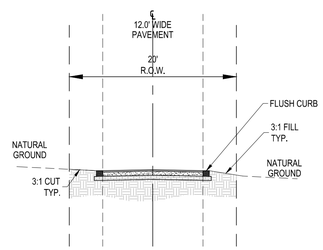
06 SECTION F
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
ELDERBERRY DRIVE	1+00.00 TO 21+00.00
VILLARS DRIVE	1+00.00 TO END
CABINESS DRIVE	6+00.00 TO END
BLUE SAGE LANE	1+00.00 TO END
CHINABERRY LANE	1+00.00 TO END



07 SECTION G
SCALE : NTS

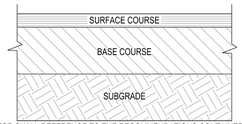
CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
CABINESS DRIVE	2+18.06 TO 6+00.00



08 SECTION H
SCALE : NTS

CROWN/WASHOUT STATION RANGES	
STREET NAME	STATIONS
COLUMBINE DRIVE	1+00.00 TO END
BASKET FLOWER CIRCLE	1+00.00 TO END
AVOLEA COURT	1+00.00 TO END
ALPEN COURT	1+00.00 TO END
ALLEY 1	1+00.00 TO END
ALLEY 5	1+00.00 TO END
ALLEY 7	1+00.00 TO END

	PLASTICITY INDEX <20%		
LAYER	MATERIAL	RESIDENTIAL LOCAL	LOCAL COLLECTOR
SURFACE	HMAC	2.0	2.0
BASE	FLB	6.0	6.0
SUBGRADE	STABILIZED SUBGRADE	6.0	6.0
TOTAL PAVEMENT THICKNESS		14.0	14.0



CONTRACTOR SHALL REFERENCE TO THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY:

MLA LABS, INC.
ENGINEERS JOB # 1840100.003
DATED MONTH 04, 2019

VALUES SHOWN IN THIS DETAIL ARE FOR INFORMATION ONLY. VALUES AND RECOMMENDATIONS THAT SHALL BE USED ARE FOUND IN THE ABOVE REFERENCED GEOTECHNICAL INVESTIGATION REPORT.

09 TYPICAL PAVEMENT DETAIL
SCALE : NTS

RESIDENTIAL LOCAL	LOCAL COLLECTOR
VILLARS DR.	HANKS BLVD.
AVONLEA CT.	ELDERBERRY DR.
ALPEN CT.	CABINESS DR.
RETREIVER LN.	
CHINABERRY LN.	
BLACKLOCUST LN.	
CRINUM LILLY DR.	
COLUMBINE DR.	
BASKET FLOWER CIR.	

NOTE: ALL ALLEYS ARE CONSIDERED RESIDENTIAL LOCAL

SHEET SIZE: 24" x 36"

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 1)

FOR

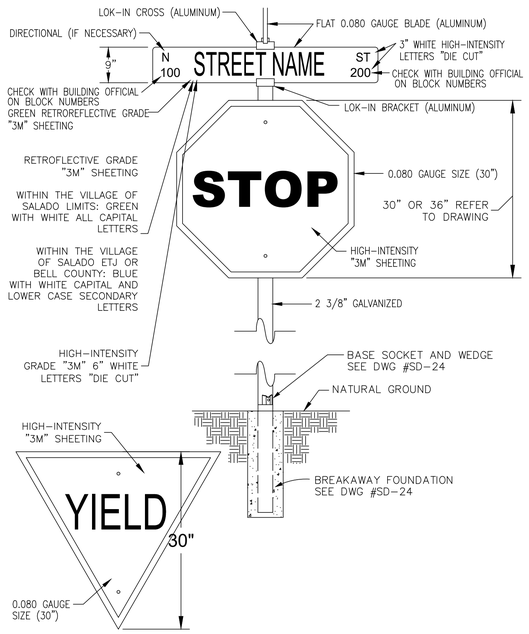
SALADO SANCTUARY, PHASE 1

SALADO, TEXAS

CG501

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	67

Date: Jul 30, 2019, 8:57am User ID: mstva
Z:\PROJECTS\3020\ - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIV\7 3020\00 STREET AND DRAINAGE DETAILS (SHEET 1)\CG501.dwg



NOTES:
1. 7-FOOT MIN. HEIGHT FROM GROUND TO BOTTOM OF SIGN.
2. ALL SIGNS TO BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. ALL SIGNAGE SHEETINGS SHALL BE HIGH-INTENSITY "3M" SHEETING.

01 SPEED LIMIT SIGN DETAIL
SCALE : NTS

R2-1
SPEED LIMIT (ENGLISH)

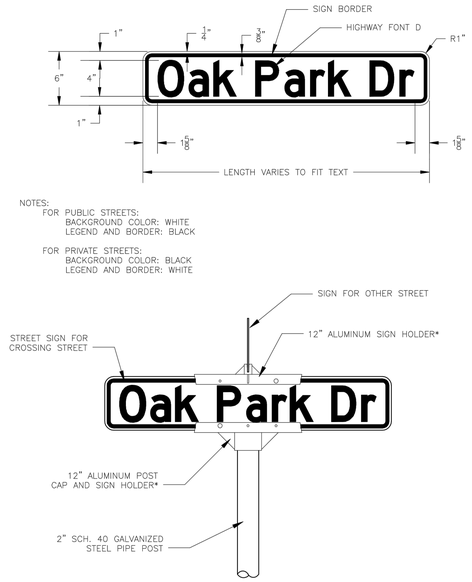
*Optically space numerals about centerline

	A	B	C	D	E	F	G	H	J	K	L
	18	24	.375	.625	3	3 E	2	8 E	7.188	5.5	1.5
C	24	30	.375	.625	4	4 E	2	10 E	9.563	7.313	1.5
	36	48	.625	.875	6	6 E	5	14 E	14.375	11	2.25
	48	60	.75	1.25	8	8 E	6	16 E	19.125	14.625	3

COLORS: LEGEND – BLACK
BACKGROUND – WHITE (RETROREFLECTIVE)

1-10

02 STANDARD STREET SIGN DETAIL
SCALE : NTS

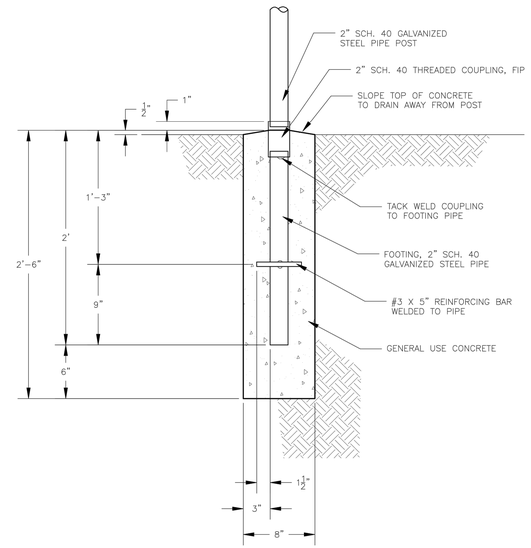


NOTES:
FOR PUBLIC STREETS:
BACKGROUND COLOR: WHITE
LEGEND AND BORDER: BLACK

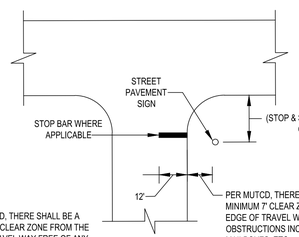
FOR PRIVATE STREETS:
BACKGROUND COLOR: BLACK
LEGEND AND BORDER: WHITE

*USE 12" ALUMINUM SIGN HOLDERS FOR SIGNS > 24" IN LENGTH, FOR SHORTER SIGNS USE 5" HOLDERS.

03 STREET SIGN DETAIL
SCALE : NTS



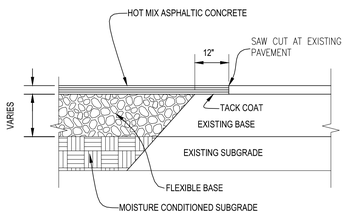
04 SIGN POST AND FOUNDATION
SCALE : NTS



NOTES:

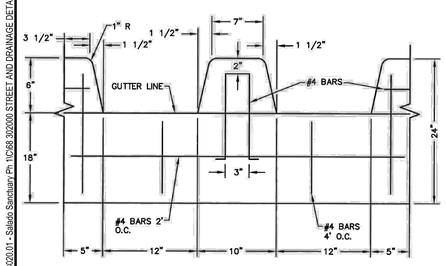
PER THE TxMUTCD, THERE SHALL BE A MINIMUM 7 FOOT CLEAR ZONE FROM THE EDGE OF THE TRAVEL WAY FREE OF ANY OBSTRUCTIONS, INCLUDING SIGNS, MAILBOXES, ETC.

05 SIGN LOCATION DETAIL
SCALE : NTS

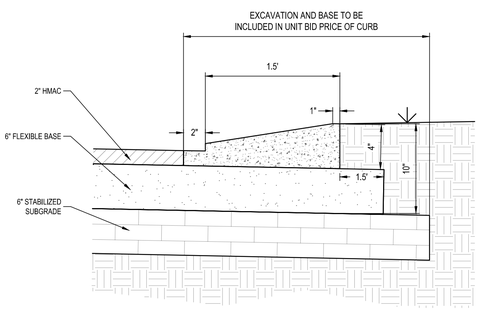


06 MATCH EXISTING PAVEMENT
SCALE : NTS

NOTES:
1. REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A 615/A 615M OR ASTM A 706/A 706M.
2. WIRE TIES SHALL BE 16 GAUGE OR HEAVIER BLACK ANNEALED STEEL WIRE.

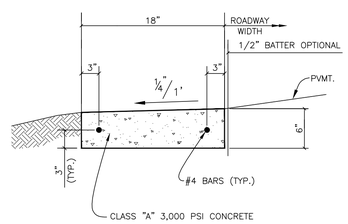


07 SAWTOOTH CURB DETAIL
SCALE : NTS

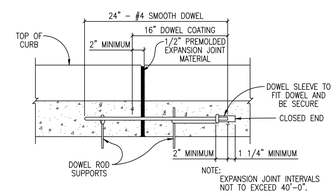


08 MOUNTABLE CURB
SCALE : NTS

NOTES:
1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309, AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAX.
3. EXPANSION JOINTS AS PER STD. ASTM D-1752.
4. 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED WHERE CURB IS ADJACENT TO SIDEWALK OR RIP-RAP.
5. TRANSITIONS BETWEEN CURBS OR DIFFERING CROSS SECTIONS SHALL OCCUR OVER A 20 FOOT LENGTH AS APPROVED BY THE ENGINEER.
6. ALL CONCRETE SHALL BE CLASS A, 3000 PSI.
7. ALL SURFACES THAT ARE CHIPPED OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED.
8. ONE OF THE FOLLOWING SCHEMES OF REINFORCEMENT SHALL BE REQUIRED. THE MANNER OF PLACEMENT AND LOCATION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
   A. CURB AND GUTTER (REINFORCED) SHALL HAVE LONGITUDINAL REINFORCING BARS AS FOLLOWS: THREE #4.
   B. ALL TYPES OF CURB (REINFORCED) SHALL HAVE #4 BAR FOR LONGITUDINAL REINFORCEMENT.
9. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 15 INCH.
10. REINFORCING BARS SHALL BE SUPPORTED WITH REBAR CHAIRS OR OTHER APPROVED METHODS.
11. REBAR SUPPORTS ARE NOT REQUIRED ON MACHINE PLACED CURB PROVIDED THAT REBAR IS PROPERLY GUIDED INTO THE CURB SECTION.

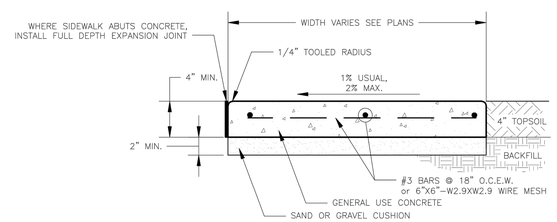


RIBBON CURB

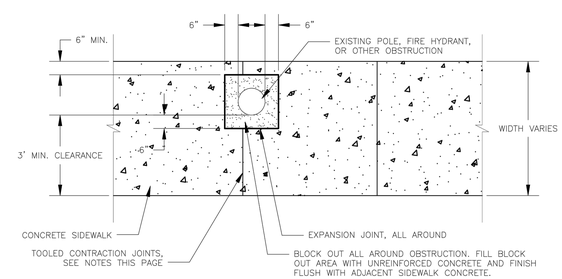


CURB DOWEL DETAIL

09 RIBBON CURB DETAIL
SCALE : NTS



TYPICAL SIDEWALK SECTION



SIDEWALK PLAN WITH BLOCK OUT FOR OBSTRUCTION

NOTES:
1. WIDEN SIDEWALK AS NECESSARY TO MAINTAIN A CLEAR PATH 3' WIDE PAST OBSTRUCTIONS INCLUDING UTILITY POLES, STREET SIGNS, MAIL BOXES, ETC.
2. PROVIDE CONTRACTION AND EXPANSION JOINTS AS FOLLOWS:
   4 FT WIDE SIDEWALK: TOOLED CONTRACTION JOINTS AT 4 FT INTERVALS, EXPANSION JOINTS AT 48 FT INTERVALS.
   5 FT WIDE SIDEWALK: TOOLED CONTRACTION JOINTS AT 5 FT INTERVALS, EXPANSION JOINTS AT 50 FT INTERVALS.
   6 FT AND WIDER SIDEWALKS: TOOLED CONTRACTION JOINTS AT 6 FT INTERVALS AND EXPANSION JOINTS AT 48 FT INTERVALS.

10 CONCRETE SIDEWALK
SCALE : NTS

SHEET SIZE: 24" x 36"

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FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 2)

FOR

SALADO SANCTUARY, PHASE 1

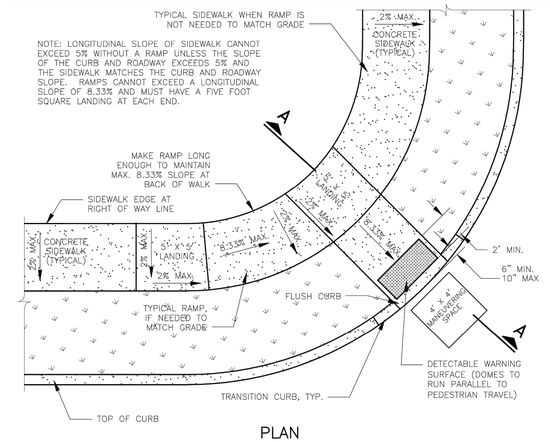
SALADO, TEXAS

CG502

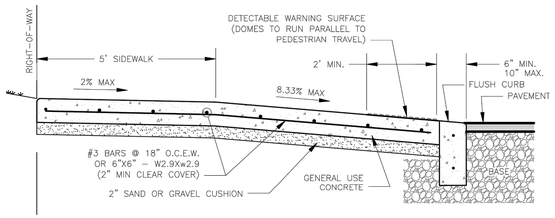
JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	68

Date: Jul 24, 2019, 2:13pm User ID: rwagliardo
Z:\PROJECTS\3020\ - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CAD\ 3020\00 STREET AND DRAINAGE DETAILS (SHEET 2) CG502.dwg

Date: Jul 18, 2019, 9:09am User ID: cramsey

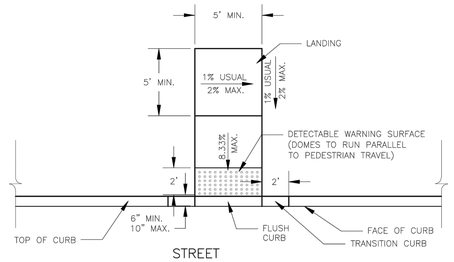


PLAN



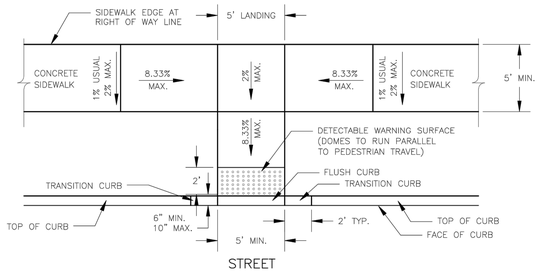
SECTION A–A

01 SIDEWALK RAMP ON RADIUS-SIDEWALK AT ROW LINE
SCALE : NTS



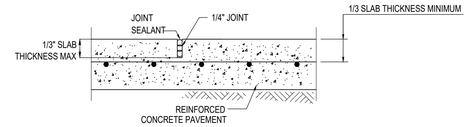
STREET

CURB RAMP IN PERPENDICULAR SIDEWALK



STREET

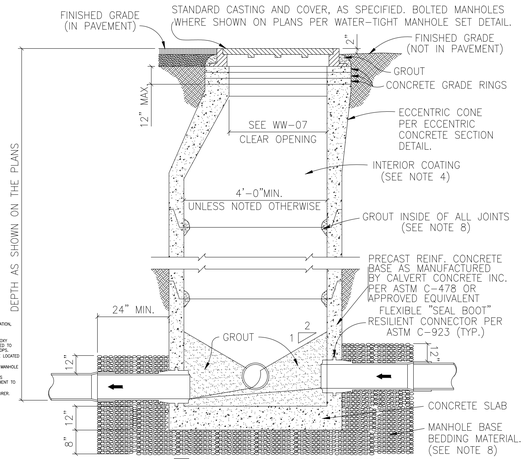
RAMP IN PARALLEL SIDEWALK WITH PERPENDICULAR CURB RAMP



NOTES:

1. CONSTRUCTION JOINT MAY BE SAWED, HAND FORMED OR CREATED BY USE OF PREMOLDED JOINT FILLER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT CONCRETE PAVEMENT MEETS ALL FINISHING REQUIREMENTS AFTER INSTALLATION OF CONTRACTION JOINT.

03 CONTROL JOINT DETAIL
SCALE : NTS

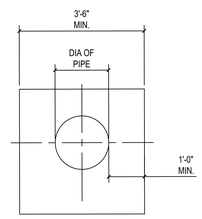


NOTES:

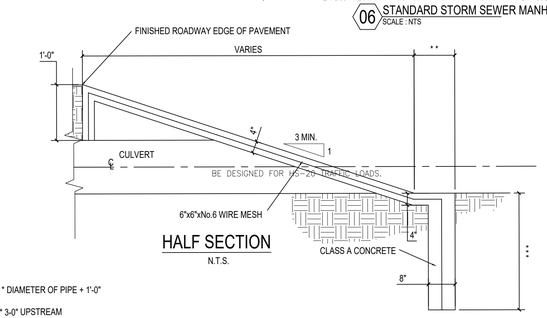
1. MANHOLES SHALL BE PRECAST ASTM C-478 BELL AND SPIGOT WITH PROFILE GASKET – SINGLE OFF-SET JOINTS.
2. SEE PLANS AND MANHOLE SCHEDULE FOR MANHOLE SIZE, LOCATION, CONFIGURATION, INVERT ELEVATIONS, MATERIAL REQUIREMENTS, PIPE SIZE AND TYPES.
3. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
4. AN 80 MIL (COAT OF RAMEN LINING SYSTEMS, RAMEN 405 ULTRA HIGH BUILD EPOXY COATING, OR SPRAY WALL EPOXY COATING, OR APPROVED EQUAL) TO BE APPLIED TO ENTIRE INTERIOR OF EACH STORM SEWER MANHOLE AND UNDERSIDE OF FLAT TOPS.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETED WHEN MANHOLES ARE LOCATED ALL FROM FINISHED GRADE.
6. MANHOLES TO BE VENTED ARE IDENTIFIED ON MANHOLE SCHEDULE. REFERENCE MANHOLE VENT DETAIL.
7. MANHOLES ARE TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES, RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO
8. GROUT SHALL MEET THE REQUIREMENTS AS STATED BY THE COATING MANUFACTURER.

06 STANDARD STORM SEWER MANHOLE
SCALE : NTS

8. MANHOLE BASE BEDDING MATERIAL SPECS. FOR 3/4" WASHED GRAVEL:
SIEVE SIZE 2", PERCENT (%) RETAINED 0
SIEVE SIZE 1 1/2", % RETAINED 0–10
SIEVE SIZE 1", % RETAINED 45–80
SIEVE SIZE 3/4", % RETAINED 85–100
SIEVE SIZE 3/8", % RETAINED 95–100



END VIEW
N.T.S.

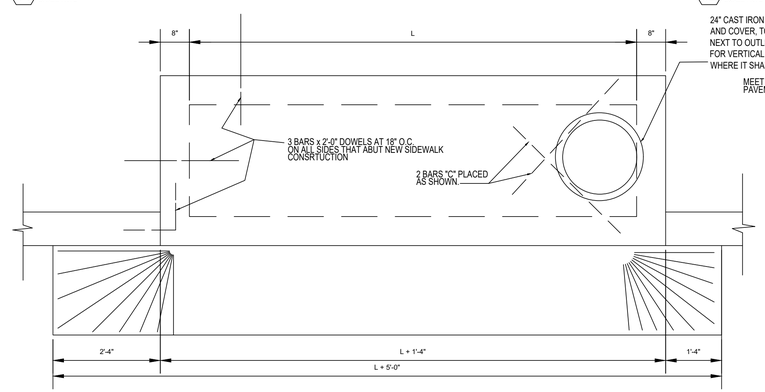


HALF SECTION
N.T.S.

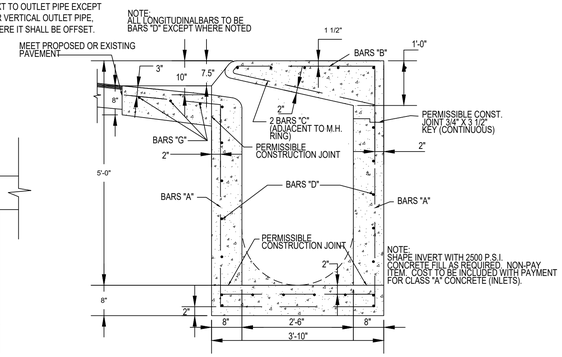
** DIAMETER OF PIPE + 1'-0"

*** 3-0" UPSTREAM
5'-0" DOWNSTREAM

04 CONCRETE PIPE END TREATMENT
SCALE : NTS



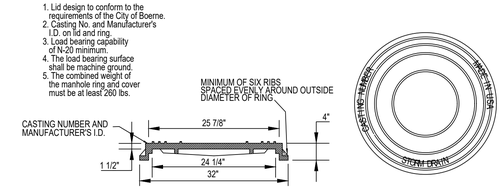
PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.

NOTE:

1. Lid design to conform to the requirements of the City of Boerne.
2. Casting No. and Manufacturer's I.D. on lid and ring.
3. Load bearing capability of N-20 minimum.
4. The load bearing surface shall be machine ground.
5. The combined weight of the manhole ring and cover must be at least 260 lbs.



MANHOLE RING & COVER DETAILS

Reinforcing Steel Schedule

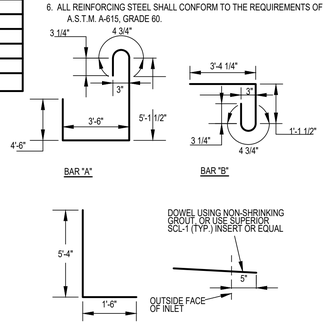
L=20'

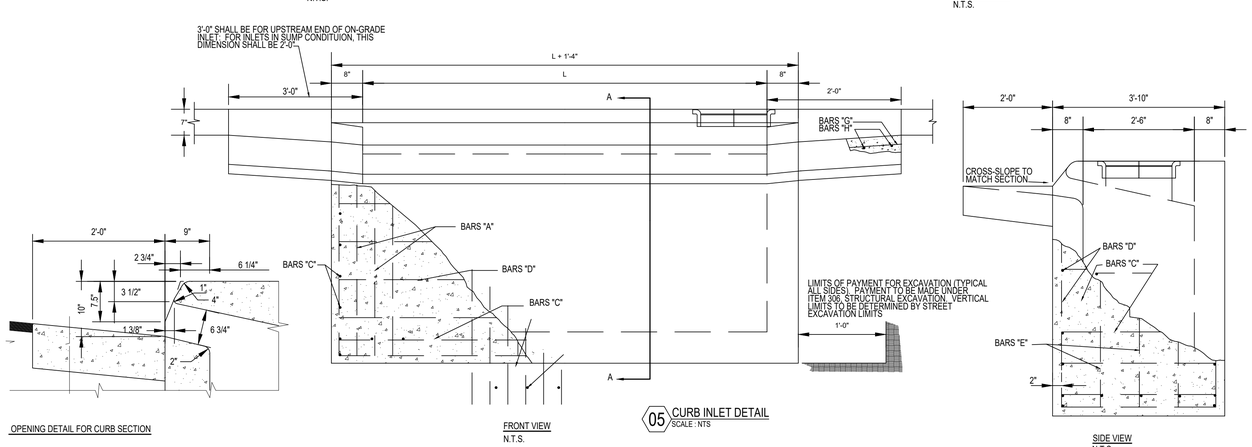
BAR	NO.	SIZE	SPA.	LENGTH	WEIGHT
A	15	4	5"OC	13'-9 1/2"	138
B	15	4	5"	5'-1"	52
C	23	4	9"	3'-6"	54
D	22	4	10"	6'-1"	89
E	10	4	10 1/2"	6'-10"	46
F	6	5	12"	2'-3"	14
G	3	4	12"	9'-8"	20
H	5	5	12"	1'-8"	9

*CONCRETE TOTAL=3.53 CY. MANHOLE CASTING=100 LBS. STEEL TOTAL=422 LBS.

GENERAL NOTES:

1. ALL BARS INTERCEPTING MANHOLE RING & REINFORCING CONCRETE PIPE SHALL BE FIELD CUT. 2. CONCRETE FOR STRUCTURES SHALL BE CLASS "A", 3000 P.S.I. IN 28 DAYS.
3. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
4. ALL EXPOSED CORNERS SHALL BE CHAMFERED TO 3/4"
5. CONSTRUCTION JOINT SHOWN AT FLOWLINE MAY BE RAISED A MAXIMUM OF 6" AT THE CONTRACTOR'S DISCRESION. ADJUST LENGTH OF VERTICAL STEEL AS REQUIRED.
6. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-615, GRADE 60.





05 CURB INLET DETAIL
SCALE : NTS

SHEET SIZE: 24" x 36"

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GEORGETOWN, TEXAS 78628
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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 3)
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CG503

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	69

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG\69 3020\09 STREET AND DRAINAGE DETAILS (SHEET 3) CG503.dwg

Date: Jul 24, 2019, 2:09pm User ID: rwagliardo

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\70 302000 STREET AND DRAINAGE DETAILS (SHEET 4) CG504.dwg

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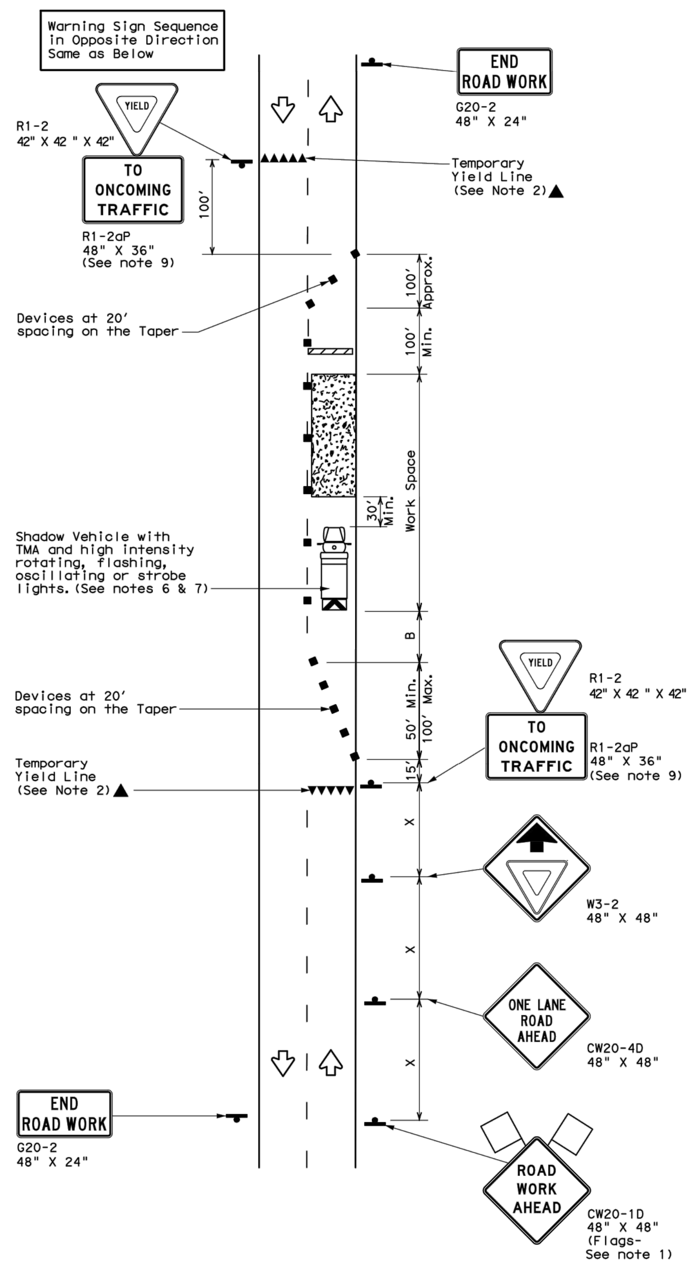


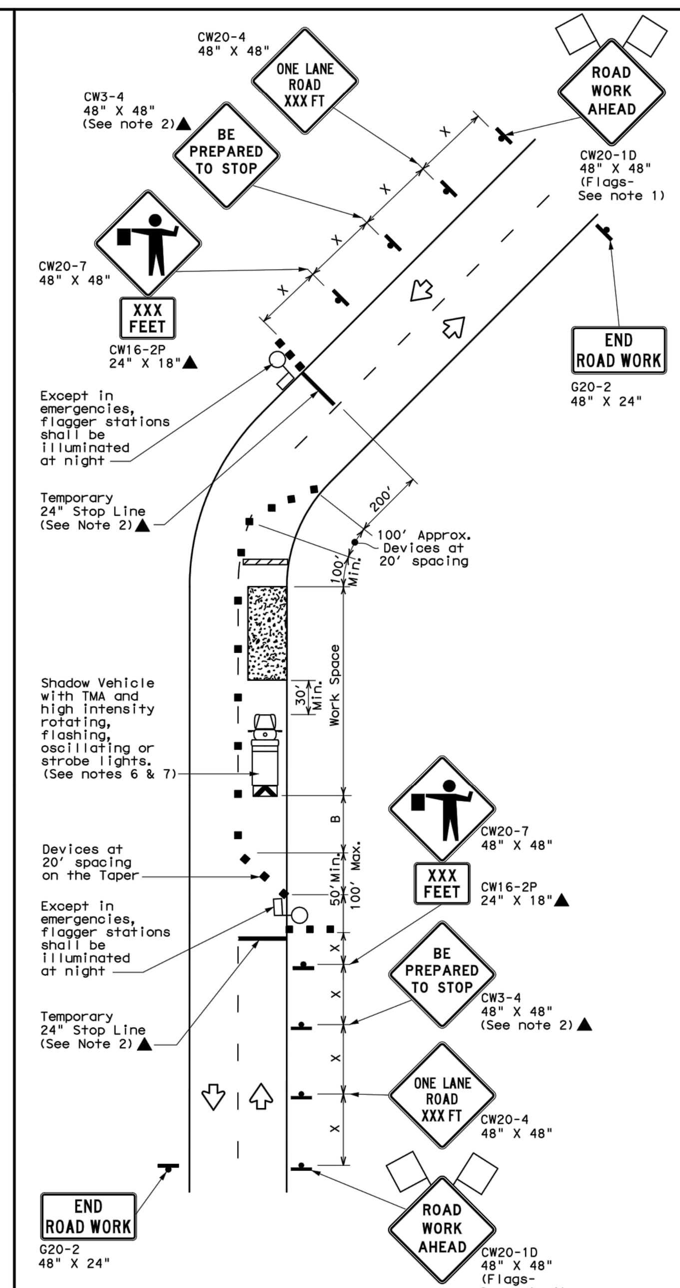
TCP (2-2a)

2-LANE ROADWAY WITHOUT PAVED SHOULDERS

ONE LANE TWO-WAY

CONTROL WITH YIELD SIGNS

(Less than 2000 ADT - See Note 9)



TCP (2-2b)

2-LANE ROADWAY WITHOUT PAVED SHOULDERS

ONE LANE TWO-WAY

CONTROL WITH FLAGGERS

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only

** Taper lengths have been rounded off.

L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
4. Flaggers should use two-way radios or other methods of communication to control traffic.
5. Length of work space should be based on the ability of flaggers to communicate.
6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situtations.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

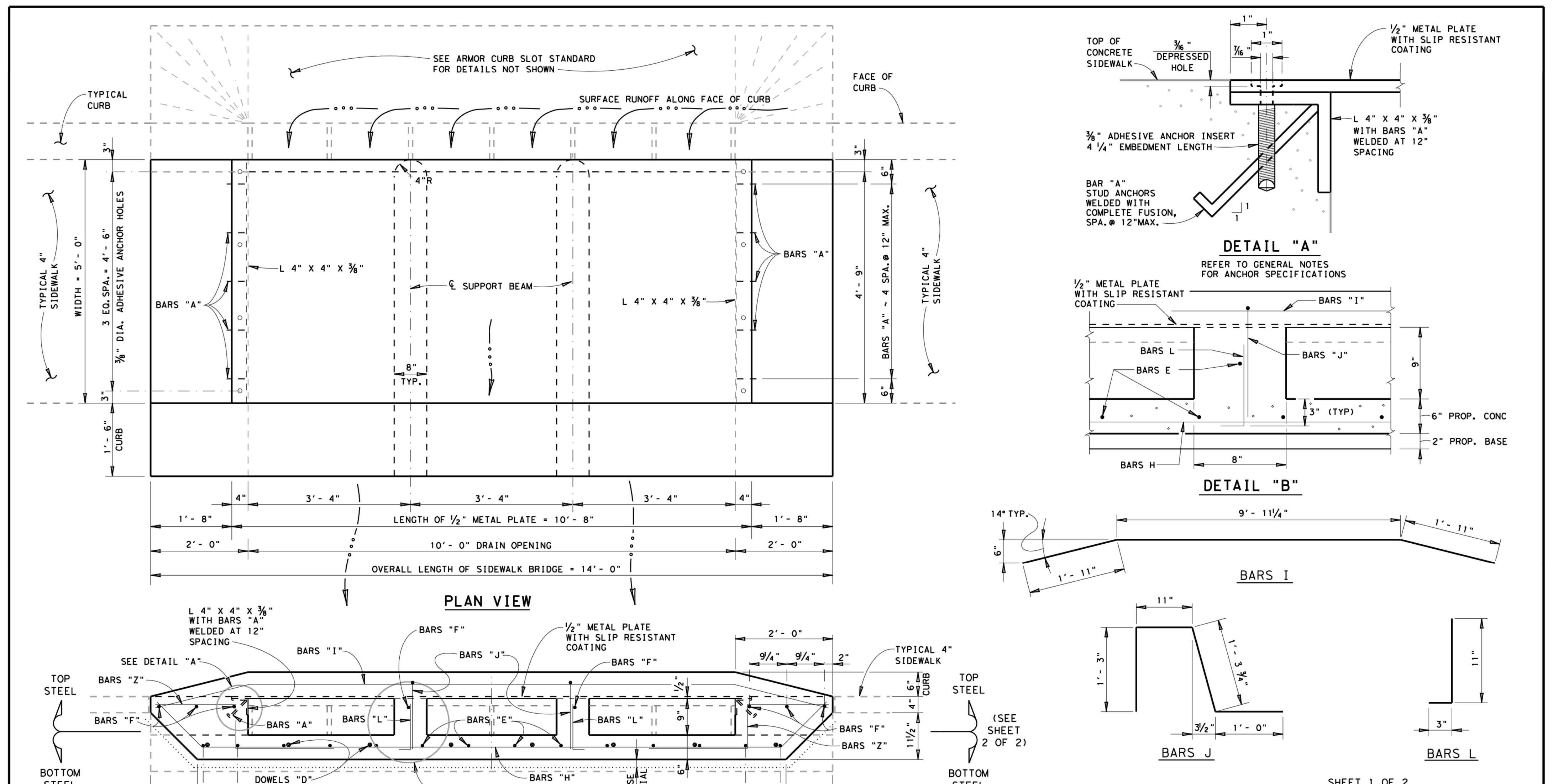
Texas Department of Transportation
Traffic Operations Division

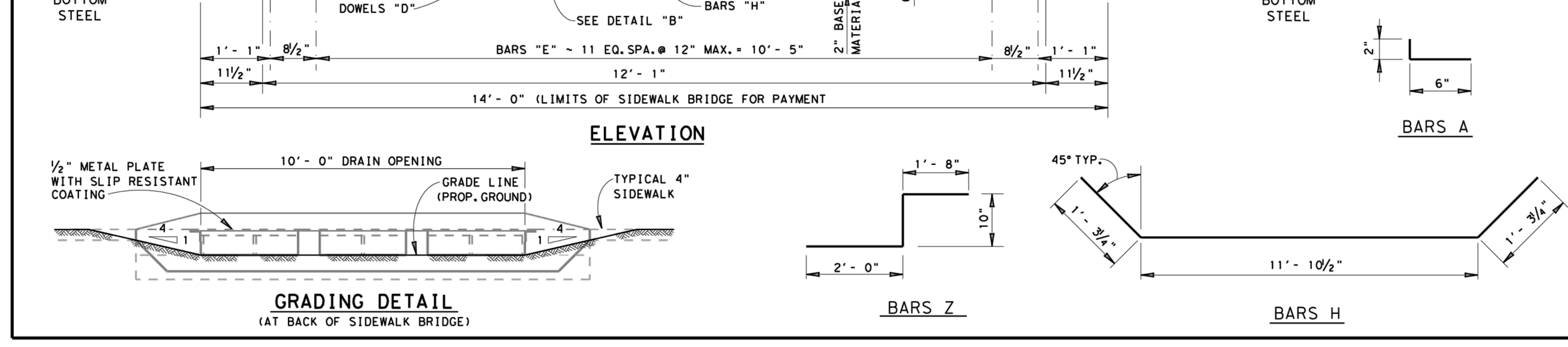
TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(2-2)-12

©TxDOT December 1985	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS 8-95 2-12 1-97 4-98 3-03	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

162





SHEET 1 OF 2

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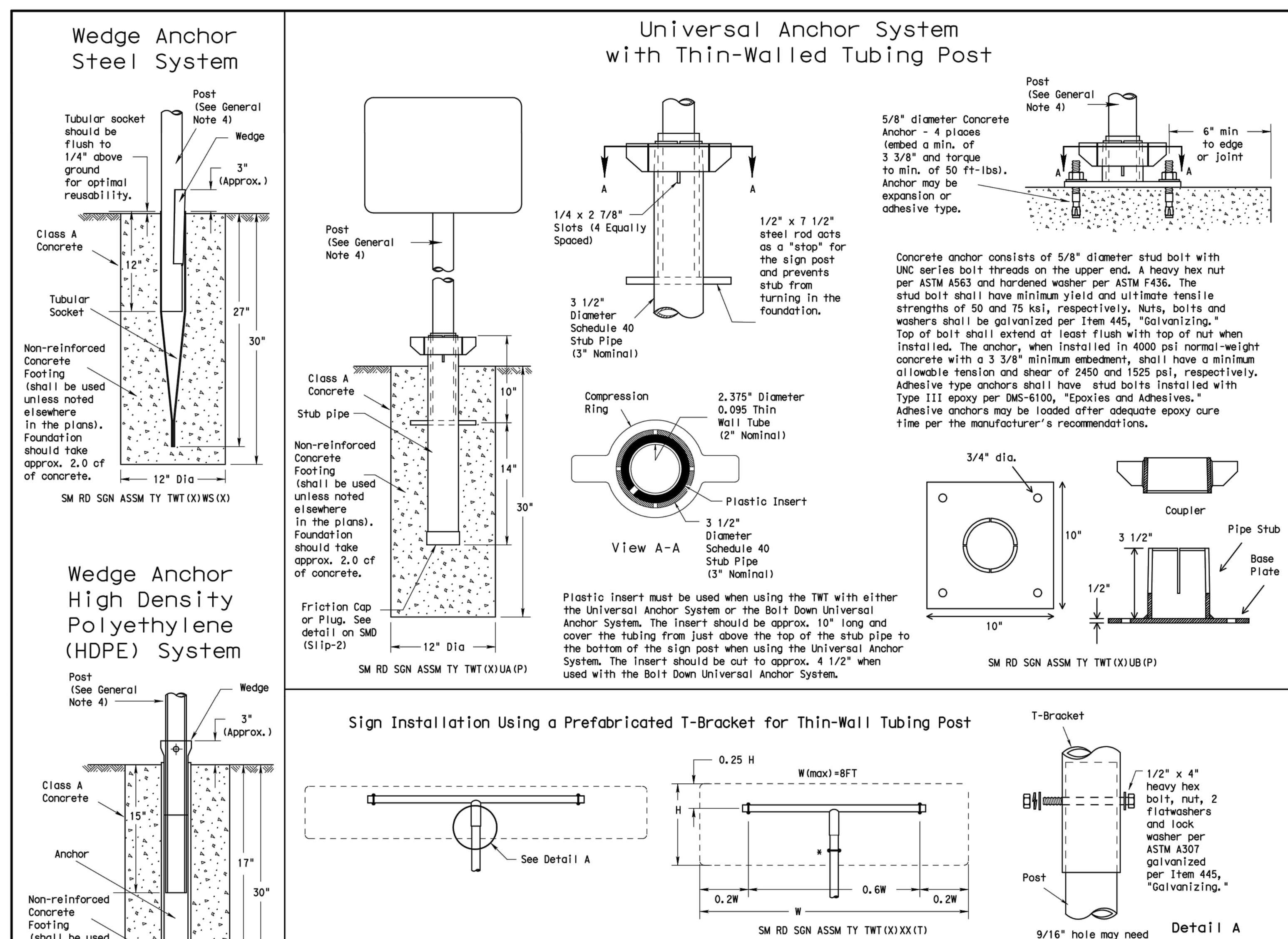
San Antonio District (Structural Design)

SIDEWALK BRIDGE INLET

AT ARMOR CURB SLOT

SAN ANTONIO DISTRICT STANDARD

T:Engdata/Standards/Design/sdwlkbrg.dgn
ORIGINAL DRAWING DATE: MAY 2004
REVISIONS 02-20-2015 NOW PAID FOR UNDER ITEM 465
STATE DISTRICT FEDERAL REGION 6
DN.: CK.: DW.: MRM CK.: GGG
PREPARED BY AND FOR USE OF TxDoT.



NOTE

The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. The Wedge Anchor System and the Universal Anchor System with thin wall tubing post may be used to support up to 10 square feet of sign area.
2. The tubular socket, wedge and prefabricated T-bracket shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to the approval of the TxDOT Traffic Standards Engineer.
3. Except for posts (13 BWG Tubing), clamps, nuts and bolts, all components shall be prequalified. A list of prequalified vendors may be obtained from the Material Producer List web page. The website address is: http://www.txdot.gov/business/producer_list.htm
4. Material used as post with this system shall conform to the following specifications: 13 BWG Tubing (2.375" outside diameter) (TWT)
   - 0.095" nominal wall thickness
   - Seamless or electric-resistance welded steel tubing
   - Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   - Other steels may be used if they meet the following:
     - 55,000 PSI minimum yield strength
     - 70,000 PSI minimum tensile strength
     - 18% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of .083" to .099"
   - Outside diameter (uncoated) shall be within the range of 2.369" to 2.381"
   - Galvanization per ASTM 123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.
5. Sign blanks shall be the sizes and shapes shown on the plans.
6. Additional sign clamp required on the "T-bracket" post for 24" high signs. Place clamp at least 3" above bottom of sign when possible.
7. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
8. See the Traffic Operations Division website for detailed drawings of sign clamps and Wedge Anchor System components. The website address is: http://www.txdot.gov/publications/traffic.htm

WEDGE ANCHOR SYSTEM INSTALLATION PROCEDURE

1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Place concrete into hole until it is approximately flush with the ground. Concrete shall be Class A.
3. Insert tubular socket into concrete until top of socket is approximaely 1/4 " above the concrete footing.
4. Plumb the socket. Allow a minimum 4 days for concrete to set, unless otherwise directed by Engineer..
5. Attach the sign to the sign post.
6. Insert the sign post into socket and align sign face with roadway.
7. Drive the wedge into the socket to secure post. This will leave approximately 3 inches of the wedge exposed.

UNIVERSAL ANCHOR SYSTEM INSTALLATION PROCEDURE

1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris.
2. Insert base post in hole to depths shown and backfill hole with concrete.
3. Level and plumb the base post using a torpedo level and allow concrete adequate time to set. The bottom of the slots provided in the stub pipe shall remain above the top of the concrete foundation.
4. Attach the sign to the sign post.
5. Install plastic insert around bottom of post.
6. Insert sign post into base post. Lower until the post comes to rest on steel rod.
7. Seat compression ring using a hammer. Typically, the top of compression ring will be approximately level with top of stub post when optimally installed.
8. Check sign post by hand to ensure it is unable to turn. If loose, increase the tightening of the compression ring.

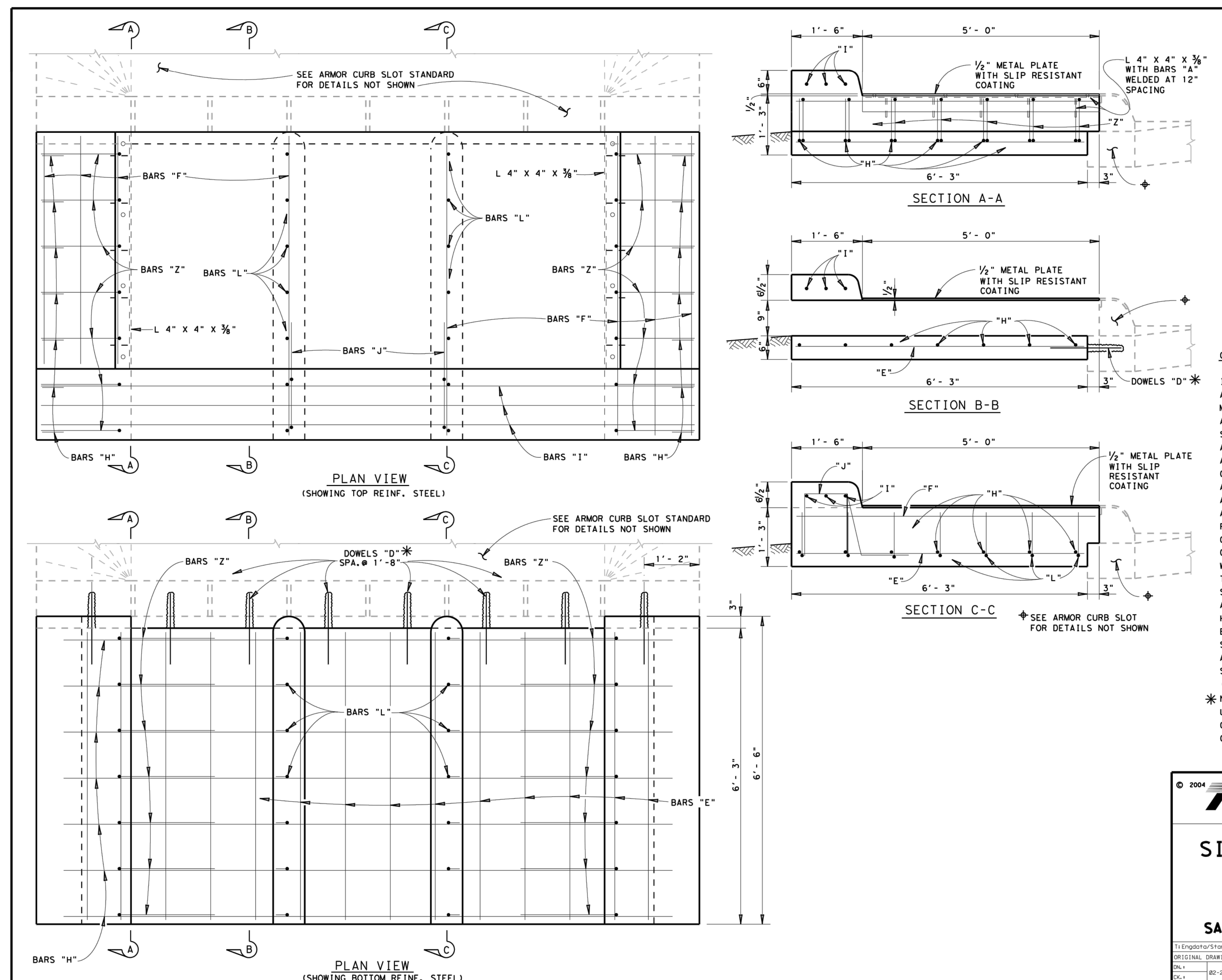
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
WEDGE & UNIVERSAL ANCHOR
WITH THIN WALL TUBING POST

SMD(TWT)-08

©TxDOT July 2002	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS 9-08	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

26E



* TABLE OF ESTIMATED QUANTITIES FOR ONE SIDEWALK BRIDGE				
BAR	NO.	SIZE	LENGTH	WEIGHT
A	10	#4	8"	5
D	8	#6	1'-6"	18
E	14	#4	6'-0"	56
F	8	#4	6'-3"	33
H	7	#4	14'-5"	67
I	3	#5	13'-9"	43
J	2	#4	4'-6"	6
L	14	#4	1'-2"	11
Z	14	#4	4'-6"	42
REINFORCING STEEL			LB	281
CL A CONC.			CY	2.5

* STRUCTURAL STEEL FOR ONE SIDEWALK BRIDGE		
FLOOR PLATE 1~5'X 1/2"X 10'-8"	LB	1145
2 ~ 5 FT - L 4" X 4" X3/8"	LB	98
TOTAL WT.	LB	1243

* FOR CONTRACTORS INFORMATION ONLY

GENERAL NOTES

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING MATERIAL.
ALL CONCRETE SHALL BE CL. "A"
STRUCTURAL STEEL SHALL BE GRADE A36
ALL REINFORCING STEEL SHALL BE GRADE 60.
ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2 IN
ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
ALL METAL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION.
GALVANIZING DAMAGED DURING TRANSPORT OR CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
THE SLIP RESISTANT COATING ON THE METAL PLATE SHALL BE AS APPROVED BY THE ENGINEER.
ADHESIVE ANCHOR SYSTEM SHALL BE HIT HY 150 H.I.S. INTERNALLY THREADED INSERTS, AS FURNISHED BY HILTI, INC. TULSA, OK. OR EQUIVALENT.
SIDEWALK BRIDGE, INCLUDING ALL LABOR, ARMOR CURB, AND ALL OTHER MATERIAL COMPLETE AND IN PLACE, SHALL BE PAID FOR UNDER ITEM 465, "INLET (COMP) (TY SIDEWALK BRIDGE)" BY EACH LOCATION.
* NON-SHRINKING GROUT OR APPROVED EPOXY SHALL BE USED WITH DOWEL BARS. IN LIEU OF DRILLING AND GROUTING, DOWELS "D" MAY BE PLACED WITH ARMOR CURB SLOT FOUNDATION.

SHEET 2 OF 2

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San Antonio District (Structural Design)

SIDEWALK BRIDGE INLET

AT ARMOR CURB SLOT

SAN ANTONIO DISTRICT STANDARD

T:Engdata/Standards/Design/sdwlkbrg.dgn
ORIGINAL DRAWING DATE: MAY 2004
REVISIONS 02-20-2015 NOW PAID FOR UNDER ITEM 465
STATE DISTRICT FEDERAL REGION 6
DN.: CK.: DW.: MRM CK.: GGG
PREPARED BY AND FOR USE OF TxDoT.

SHEET SIZE: 24" x 36"

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 4)

FOR

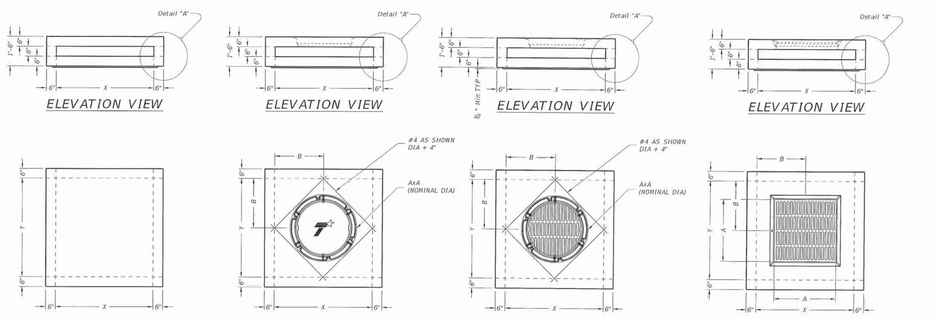
SALADO SANCTUARY, PHASE 1

SALADO, TEXAS

CG504

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	70

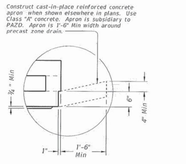
Date: Jul 18, 2019, 9:10am User ID: czamsey



GENERAL NOTES:

1. Designed according to ASTM C913.
2. PAZD is for use in ditches and medians outside of the clear zone. Precast Zone Drain is not intended for direct traffic and may not be placed in roadway.
3. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
4. Provide Grade 60 reinforcing steel or equivalent area of WWR.
5. Provide clear cover of ½" to reinforcing from bottom of slab for structural reinforcement, and 2" from top of slab for shrinkage and temperature reinforcement. Place short span reinforcing closest to surface.
6. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing. See standard PB for more information.
7. No substitution is allowed for diagonal #4 bars around openings.
8. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ½".
9. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
10. Do not grout rubber gasket joints without Manufacturer's recommendation.
11. Provide lifting devices in conformance with Manufacturer's recommendations.
12. See approved Industry Cast Iron Product Standards for details of castings.
13. See Standard Inlet and Manhole Program Guide for information not shown.
14. Payment for inlet is per Item 465, "Manholes and Inlets" by type, size, and opening.

Construct cast-in-place reinforced concrete apron when shown elsewhere in plans. Use Class "H" concrete. Apron is subsidiary to PAZD. Apron is 1'-6" Min width around precast zone drain.



DETAIL "A"
(Reinforcing not shown for clarity)
When an apron is to be cast around PAZD, use detail above to create an apron ledge on all 4 sides.

Size	X x Y	A x A	B x B	Short Span Steel Area	Long Span Steel Area
3'x3'	3'x3'	3'x3'	1.5'x1.5'	0.37 in²/ft	0.37 in²/ft
3'x3'	3'x3'	32" Dia	1.5'x1.5'	0.37 in²/ft	0.37 in²/ft
4'x4'	4'x4'	3'x3'	2'x2'	0.34 in²/ft	0.34 in²/ft
4'x4'	4'x4'	4'x4'	2'x2'	0.34 in²/ft	0.34 in²/ft
4'x4'	4'x4'	32" Dia	2'x2'	0.34 in²/ft	0.34 in²/ft
5'x5'	5'x5'	3'x3'	2.5'x2.5'	0.43 in²/ft	0.43 in²/ft
5'x5'	5'x5'	4'x4'	2.5'x2.5'	0.43 in²/ft	0.43 in²/ft
5'x5'	5'x5'	32" Dia	2.5'x2.5'	0.68 in²/ft	0.68 in²/ft

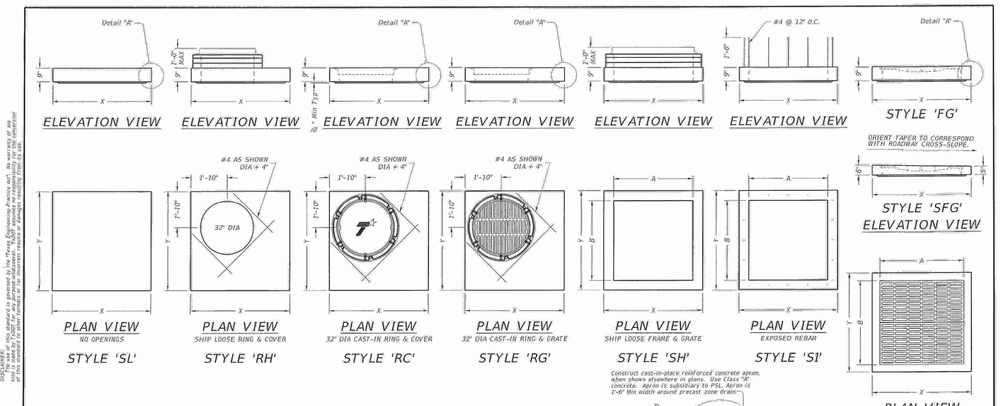
Texas Department of Transportation — Bridge Division Standard

PRECAST AREA ZONE DRAIN

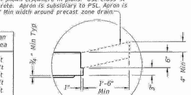
TYPE PAZD

FILE:	pressBEdge	dn: TxDOT	ck: TxDOT	dw: TxDOT	ck: TxDOT
© TxDOT	August 2013	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST		COUNTY	SHEET NO.

CG508



Construct cast-in-place reinforced concrete apron when shown elsewhere in plans. Use Class "H" concrete. Apron is subsidiary to PSL. Apron is 1'-6" Min width around precast zone drain.



DETAIL "A"
(Reinforcing not shown for clarity)
When an apron is to be cast around PSL, use detail above to create an apron ledge on all 4 sides.

GENERAL NOTES:

1. Designed according to ASTM C913.
2. Precast solid lids are intended for direct traffic and may be placed in roadway.
3. Locate penetration (Style 'RH'), ring and cover (Style 'RC'), ring and grate (Style 'RG'), or frame and grate (Style 'FG') in a convenient location for a cover.
4. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
5. Provide Grade 60 reinforcing steel or equivalent area of WWR.
6. Provide clear cover of ½" to reinforcing from bottom of slab for structural reinforcement, and 2" from top of slab for shrinkage and temperature reinforcement. Place short span reinforcing closest to surface.
7. Slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing. See standard PB for more information.
8. No substitution is allowed for diagonal #4 bars around openings.
9. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ½".
10. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
11. Do not grout rubber gasket joints without Manufacturer's recommendation.
12. Provide lifting devices in conformance with Manufacturer's recommendations.
13. See approved Industry Cast Iron Product Standards for details of castings.
14. See Standard Inlet and Manhole Program Guide for information not shown.
15. Payment for inlet is per Item 465, "Manholes and Inlets" by type, size, and opening (when applicable).

Size	X x Y	A x B	Short Span Steel Area	Long Span Steel Area
3'x3'	4'x4'	3'x3' or 32" Dia	0.37 in²/ft	0.37 in²/ft
* 3'x3'	4'x4'	3'x3'	0.37 in²/ft	0.37 in²/ft
4'x4'	5'x5'	3'x3' or 32" Dia	0.34 in²/ft	0.34 in²/ft
* 4'x4'	5'x5'	4'x4'	0.32 in²/ft	0.32 in²/ft
4'x4'	5'x5'	4'x4'	0.34 in²/ft	0.34 in²/ft
5'x5'	6'x6'	3'x3' or 32" Dia	0.48 in²/ft	0.48 in²/ft
5'x5'	6'x6'	3'x5'	0.48 in²/ft	0.48 in²/ft
* 5'x5'	6'x6'	5'x5'	0.32 in²/ft	0.32 in²/ft
6'x5'	5'x6'	3'x3' or 32" Dia	0.38 in²/ft	0.38 in²/ft
6'x5'	5'x6'	3'x4'	0.32 in²/ft	0.57 in²/ft
6'x3'	5'x6'	3'x5'	0.68 in²/ft	0.71 in²/ft
5'x5'	6'x6'	3'x3' or 32" Dia	0.43 in²/ft	0.43 in²/ft
5'x5'	6'x6'	3'x4'	0.43 in²/ft	0.43 in²/ft
5'x5'	6'x6'	3'x5'	0.63 in²/ft	0.68 in²/ft
5'x6'	6'x7'	3'x3' or 32" Dia	0.48 in²/ft	0.48 in²/ft
5'x6'	6'x7'	3'x4'	0.60 in²/ft	0.56 in²/ft
5'x6'	6'x7'	3'x5'	0.37 in²/ft	0.32 in²/ft
6'x6'	7'x7'	3'x3' or 32" Dia	0.56 in²/ft	0.56 in²/ft
6'x6'	7'x7'	3'x4'	0.56 in²/ft	0.56 in²/ft
6'x6'	7'x7'	3'x5'	0.56 in²/ft	0.56 in²/ft
6'x8'	9'x9'	3'x3' or 32" Dia	0.36 in²/ft	0.36 in²/ft
6'x8'	9'x9'	3'x4'	0.36 in²/ft	0.36 in²/ft
6'x8'	9'x9'	3'x5'	0.36 in²/ft	0.36 in²/ft

* These sizes and designs are applicable to style 'SFG' only.

HL93 LOADING

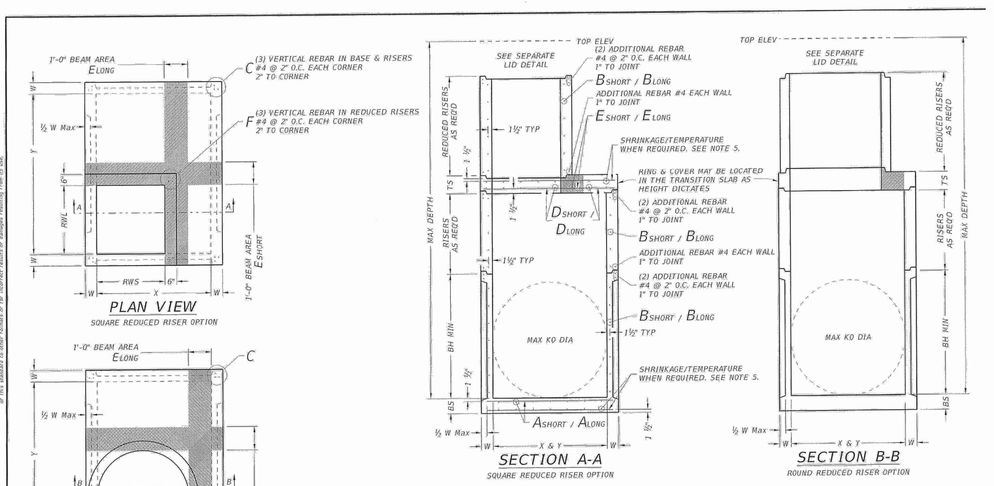
Texas Department of Transportation — Bridge Division Standard

PRECAST SOLID LID

TYPE PSL

FILE:	pressBEdge	dn: TxDOT	ck: TxDOT	dw: TxDOT	ck: TxDOT
© TxDOT	August 2013	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST		COUNTY	SHEET NO.

CG507



GENERAL NOTES:

1. Designed according to ASTM C913.
2. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
3. Provide Grade 60 reinforcing steel or equivalent area of WWR.
4. Provide typical clear cover of 1 ½" to reinforcing steel at interior or exterior walls.
5. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing sheet.
6. No substitution is allowed for vertical and horizontal #4 bars in corners.
7. Manufacture base and risers to meet ASTM requirements.
8. Inverts (benching) are provided by Contractor.
9. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ½".
10. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
11. Do not grout rubber gasket joints without Manufacturer's recommendation.
12. Provide lifting devices in conformance with Manufacturer's recommendations.
13. See Standard Inlet and Manhole Program Guide for information not shown.
14. Payment for precast base is subsidiary to the specified inlet or manhole, per Item 465, "Manholes and Inlets."

HL93 LOADING — SHEET 1 OF 2

Texas Department of Transportation — Bridge Division Standard

PRECAST BASE

TYPE PB

FILE:	pressBEdge	dn: TxDOT	ck: TxDOT	dw: TxDOT	ck: TxDOT
© TxDOT	August 2013	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST		COUNTY	SHEET NO.

CG50

Size	To 15 Feet Top of Base Slab															To 25 Feet Top of Base Slab																
	Base Slab				Base Unit or Riser Walls				Below Grade Slab				Transition Slab*			Base Slab				Base Unit or Riser Walls				Below Grade Slab				Transition Slab**				
	Short Span	Long Span	Steel Depth	Thickness	Short Span	Long Span	Steel Depth	Thickness	Short Span	Long Span	Steel Depth	Thickness	Riser Size	Short Beam	Long Beam	Short Span	Long Span	Steel Depth	Thickness	Short Span	Long Span	Steel Depth	Thickness	Short Span	Long Span	Steel Depth	Thickness	Riser Size	Short Beam	Long Beam	Min Height	Max KO DIA***
XxY	Ashort	Along	As & Al	BS	Bshort	Blong	Bs & Bl	W	Dshort	Dlong	Ds & Dl	TS	RWS x RWL or ID	Eshort	Elong	Ashort	Along	As & Al	BS	Bshort	Blong	Bs & Bl	W	Dshort	Dlong	Ds & Dl	TS	RWS x RWL or ID	Eshort	Elong	BH MIN	KO DIA
Feet	in²/ft	in²/ft	Inches	Inches	in²/ft	in²/ft	Inches	Inches	in²/ft	in²/ft	Inches	Inches	Feet**	in²/ft	in²/ft	in²/ft	in²/ft	Inches	Inches	in²/ft	in²/ft	Inches	Inches	in²/ft	in²/ft	Inches	Inches	Feet**	in²/ft	in²/ft	Feet	Inches
3x3	0.20	0.20	4.25	6	0.19	0.19	4.25	6	0.37	0.37	7	9	N/A	N/A	N/A	0.29	0.29	4.25	6	0.24	0.24	4.25	6	0.37	0.37	7	9	N/A	N/A	N/A	2.5	36
4x4	0.28	0.28	4.25	6	0.24	0.24	4.25	6	0.41	0.41	7	9	N/A	N/A	N/A	0.47	0.47	4.25	6	0.38	0.38	4.25	6	0.41	0.41	7	9	N/A	N/A	N/A	4.5	48
3x5	0.29	0.18	4.25	6	0.19	0.35	4.25	6	0.48	0.48	7	9	N/A	N/A	N/A	0.39	0.18	4.25	6	0.23	0.59	4.25	6	0.48	0.48	7	9	N/A	N/A	N/A	2.5	36/60
3x5	0.29	0.18	4.25	6	0.19	0.35	4.25	6	N/A	N/A	7	9	3x3	0.30	0.34	0.39	0.18	4.25	6	0.23	0.59	4.25	6	N/A	N/A	7	9	3x3	0.4	0.4	2.5	36/60
4x5	0.36	0.18	4.25	6	0.22	0.34	4.25	6	0.42	0.42	7	9	N/A	N/A	N/A	0.53	0.26	4.25	6	0.39	0.59	4.25	6	0.42	0.42	7	9	N/A	N/A	N/A	4.5	48/60
4x5	0.36	0.18	4.25	6	0.22	0.34	4.25	6	N/A	N/A	7	9	3x3	0.30	0.30	0.53	0.26	4.25	6	0.39	0.59	4.25	6	N/A	N/A	7	9	3x3	0.46	0.37	4.5	48/60
4x5	0.36	0.18	4.25	6	0.22	0.34	4.25	6	N/A	N/A	7	9	4x4	0.30	0.30	0.53	0.26	4.25	6	0.39	0.59	4.25	6	N/A	N/A	7	9	4x4	0.39	0.39	4.5	48/60
4x5	0.36	0.18	4.25	6	0.22	0.34	4.25	6	N/A	N/A	7	9	48"	0.39	0.39	0.53	0.26	4.25	6	0.39	0.59	4.25	6	N/A	N/A	7	9	48"	0.47	0.47	4.5	48/60
4x5	0.36	0.18	4.25	6	0.22	0.34	4.25	6	N/A	N/A	7	9	3x5	0.33	0.40	0.53	0.26	4.25	6	0.39	0.59	4.25	6	N/A	N/A	7	9	3x5	0.48	0.48	4.5	48/60
5x5	0.36	0.36	4.25	6	0.34	0.34	4.25	6	0.43	0.43	7	9	N/A	N/A	N/A	0.62	0.62	4.25	6	0.59	0.59	4.25	6	0.43	0.43	7	9	N/A	N/A	N/A	5.5	60
5x5	0.36	0.36	4.25	6	0.34	0.34	4.25	6	N/A	N/A	7	9	3x3	0.34	0.34	0.62	0.62	4.25	6	0.59	0.59	4.25	6	N/A	N/A	7	9	3x3	0.53	0.53	5.5	60
5x5	0.36	0.36	4.25	6	0.34	0.34	4.25	6	N/A	N/A	7	9	4x4	0.36	0.36	0.62	0.62	4.25	6	0.59	0.59	4.25	6	N/A	N/A	7	9	4x4	0.64	0.64	5.5	60
5x5	0.36	0.36	4.25	6	0.34	0.34	4.25	6	N/A	N/A	7	9	48"	0.36	0.36	0.62	0.62	4.25	6	0.59	0.59	4.25	6	N/A	N/A	7	9	48"	0.64	0.64	5.5	60
5x5	0.36	0.36	4.25	6	0.34	0.34	4.25	6	N/A	N/A	7	9	3x5	0.34	0.40	0.62	0.62	4.25	6	0.59	0.59	4.25	6	N/A	N/A	7	9	3x5	0.53	0.53	5.5	60
5x6	0.27	0.27	6.25	8	0.34	0.45	4.25	6	0.48	0.48	7	9	N/A	N/A	N/A	0.47	0.45	6.25	8	0.38	0.54	6.25	8	0.48	0.48	7	9	N/A	N/A	N/A	5.5	60/72
5x6	0.27	0.27	6.25	8	0.34	0.45	4.25	6	N/A	N/A	7	9	3x3	0.34	0.34	0.47	0.45	6.25	8	0.38	0.54	6.25	8	N/A	N/A	7	9	3x3	0.61	0.5	5.5	60/72
5x6	0.27	0.27	6.25	8	0.34	0.45	4.25	6	N/A	N/A	7	9	4x4	0.36	0.45	0.47	0.45	6.25	8	0.38	0.54	6.25	8	N/A	N/A	7	9	4x4	0.74	0.57	5.5	60/72
5x6	0.27	0.27	6.25	8	0.34	0.45	4.25	6	N/A	N/A	7	9	48"	0.36	0.45	0.47	0.45	6.25	8	0.38	0.54	6.25	8	N/A	N/A	7	9	48"	0.74	0.57	5.5	60/72
5x6	0.27	0.27	6.25	8	0.34	0.45	4.25	6	N/A	N/A	7	9	3x5	0.45	0.45	0.47	0.45	6.25	8	0.38	0.54	6.25	8	N/A	N/A	7	9	3x5	0.61	0.61	5.5	60/72
6x6	0.27	0.27	6.25	8	0.45	0.45	4.25	6	0.56	0.56	7	9	N/A	N/A	N/A	0.52	0.52	6.25	8	0.54	0.54	6.25	8	0.56	0.56	7	9	N/A	N/A	N/A	6.5	72
6x6	0.27	0.27	6.25	8	0.45	0.45	4.25	6	N/A	N/A	7	9	3x3	0.41	0.41	0.52	0.52	6.25	8	0.54	0.54	6.25	8	N/A	N/A	7	9	3x3	0.74	0.74	6.5	72
6x6	0.27	0.27	6.25	8	0.45	0.45	4.25	6	N/A	N/A	7	9	4x4	0.45	0.45	0.52	0.52	6.25	8	0.54	0.54	6.25	8	N/A	N/A	7	9	4x4	0.87	0.87	6.5	72
6x6	0.27	0.27	6.25	8	0.45	0.45	4.25	6	N/A	N/A	7	9	48"	0.45	0.45	0.52	0.52	6.25	8	0.54	0.54	6.25	8	N/A	N/A	7	9	48"	0.87	0.87	6.5	72
6x6	0.27	0.27	6.25	8	0.45	0.45	4.25	6	N/A	N/A	7	9	3x5	0.45	0.45	0.52	0.52	6.25	8	0.54	0.54	6.25	8	N/A	N/A	7	9	3x5	0.87	0.87	6.5	72
8x8	0.52	0.52	6.25	8	0.51	0.51	6.25	8	0.45	0.45	10	12	N/A	N/A	N/A	0.87	0.87	6.25	8	0.70	0.70	8.25	10	0.45	0.45	10	12	N/A	N/A	N/A	8.5	72
8x8	0.52	0.52	6.25	8	0.51	0.51	6.25	8	N/A	N/A	10	12	3x3	0.61	0.61	0.91	0.91	6.25	8	0.70	0.70	8.25	10	N/A	N/A	10	12	3x3	0.85	0.85	8.5	72
8x8	0.52	0.52	6.25	8	0.51	0.51	6.25	8	N/A	N/A	10	12	4x4	0.70	0.70	0.87	0.87	6.25	8	0.70	0.70	8.25	10	N/A	N/A	10	12	4x4	1.01	1.01	8.5	72
8x8	0.52	0.52	6.25	8	0.51	0.51	6.25	8	N/A	N/A	10	12	48"	0.70	0.70	0.87	0.87	6.25	8	0.70	0.70	8.25	10	N/A	N/A	10	12	48"	1.01	1.01	8.5	72
8x8	0.52	0.52	6.25	8	0.51	0.51	6.25	8	N/A	N/A	10	12	3x5	0.70	0.85	0.87	0.87	6.25	8	0.70	0.70	8.25	10	N/A	N/A	10	12	3x5	1.01	1.01	8.5	72

Note: all temperature and shrinkage steel area = 0.11 in²/ft E.W.

Maximum spacing of reinforcement is 8"

* Note: detailed reinforcement is in addition to normal below grade slab requirements.

** Unless otherwise indicated.

*** Thin wall panels (KO) are optional. Holes may be cast or cored to no more than Maximum KO DIA at manufacturer's option. Where no penetration is required it is acceptable to provide a wall with no sectional reduction. Refer to manual for information.

HL93 LOADING — SHEET 2 OF 2

Texas Department of Transportation — Bridge Division Standard

PRECAST BASE

TYPE PB

FILE:	pressBEdge	dn: TxDOT	ck: TxDOT	dw: TxDOT	ck: TxDOT
© TxDOT	August 2013	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST		COUNTY	SHEET NO.

CG506

Z:\PROJECTS\3020_Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C71 30200\0 STREET AND DRAINAGE DETAILS (SHEET 5) CG505.dwg

SHEET SIZE: 24" x 36"

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 5)

FOR

SALADO SANCTUARY, PHASE 1

SALADO, TEXAS

CG505

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	71

Date: Jul 18, 2019, 9:10am User ID: czamsey

TABLE OF DIMENSIONS & REINFORCING STEEL (Wings for One Structure End)

Dimensions					Variable Reinforcing				Estimated Quantities per ft of wing length (2-Wings) ③	
Maximum Wingwall Height Hw	W	X	Y	Z	Bars J1		Bars J2			
					No. Req'd	Spa	No. Req'd	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'- 8"	1'- 9"	1'- 3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'- 2"	2'- 0"	1'- 6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'- 8"	2'- 3"	1'- 9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'- 2"	2'- 6"	2'- 0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'- 8"	2'- 9"	2'- 3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'- 2"	3'- 0"	2'- 6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'- 8"	3'- 3"	2'- 9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'- 2"	3'- 6"	3'- 0"	1'- 0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'- 8"	4'- 0"	3'- 0"	1'- 1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'- 2"	4'- 6"	3'- 0"	1'- 3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING (2-Wings)

Bar	Size	No.	Spa
D	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
R	#5	6	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (Lb/Ft)			2.45
Conc (CY/Ft)			0.037

WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

Hw = H + T + C - 0.250'

A = (Hw - 0.333') (SL)

B = (A) Tangent (30°)

Lw = (A) ÷ Cosine (30°)

For Cast-in-place culverts:

Ltw = (N) (S) + (N+1) (U)

For Precast culverts:

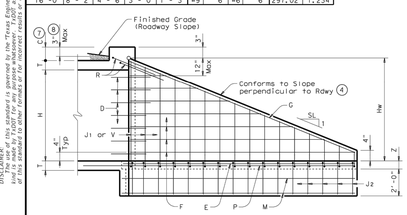
Ltw = (N) (ZU + S) + (N-1) (0.500')

Total Wingwall Area (Two Wings = S.F.)=(Hw + 0.333') (Lw)

Hw = Height of Wingwall
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)
Lw = Length of Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans

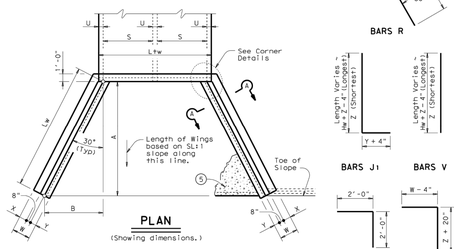
See applicable box culvert standard for H, S, T, and U values.

1. Extend Bars P 3'-0" minimum into bottom slab of Box Culvert.
2. Adjust to fit as necessary to maintain 1 ¼" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by Lw.
4. Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
5. When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1'-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
6. At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
7. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
8. For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.



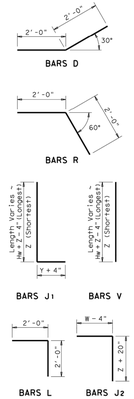
INSIDE ELEVATION

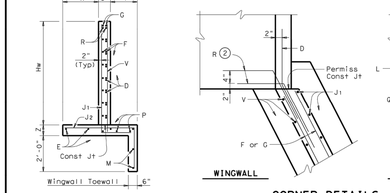
(Showing reinforcing. Culvert and Culvert Toewall reinforcing not shown for clarity.)



PLAN

(Showing dimensions.)

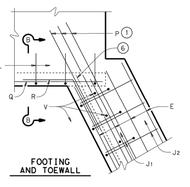




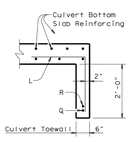
SECTION A-A

CORNER DETAILS

(Culvert and Culvert Toewall reinforcing not shown for clarity.)



FOOTING AND TOEWALL



SECTION B-B ⑤

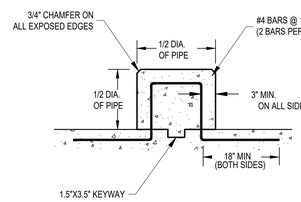
Texas Department of Transportation — Bridge Division Standard

CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS

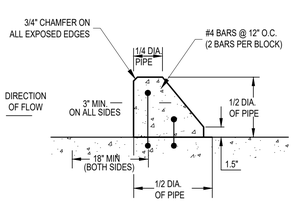
FW-0

FILE: fw-0skb.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST		COUNTY	SHEET NO.

01 CONCRETE HEADWALL DETAIL
SCALE : NTS

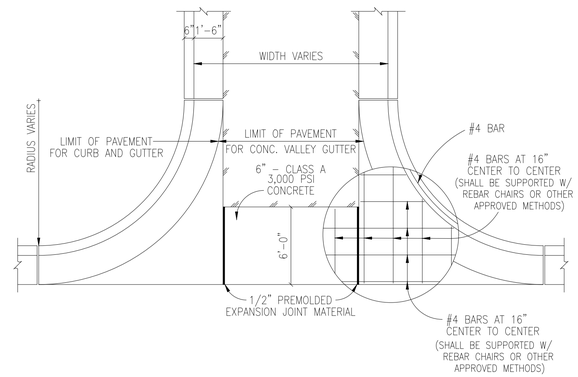


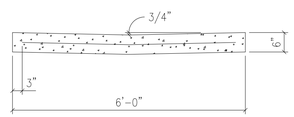
SECTION "A" - "A"
N.T.S.



SECTION "B" - "B"
N.T.S.

02 BAFFLE BLOCK DETAIL
SCALE : NTS





03 CONCRETE VALLEY GUTTER DETAIL
SCALE : NTS

SHEET SIZE: 24" x 36"

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

REVISIONS:

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3303 SHELL ROAD SUITE 100
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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004513 SURVEYING FIRM F-10034000

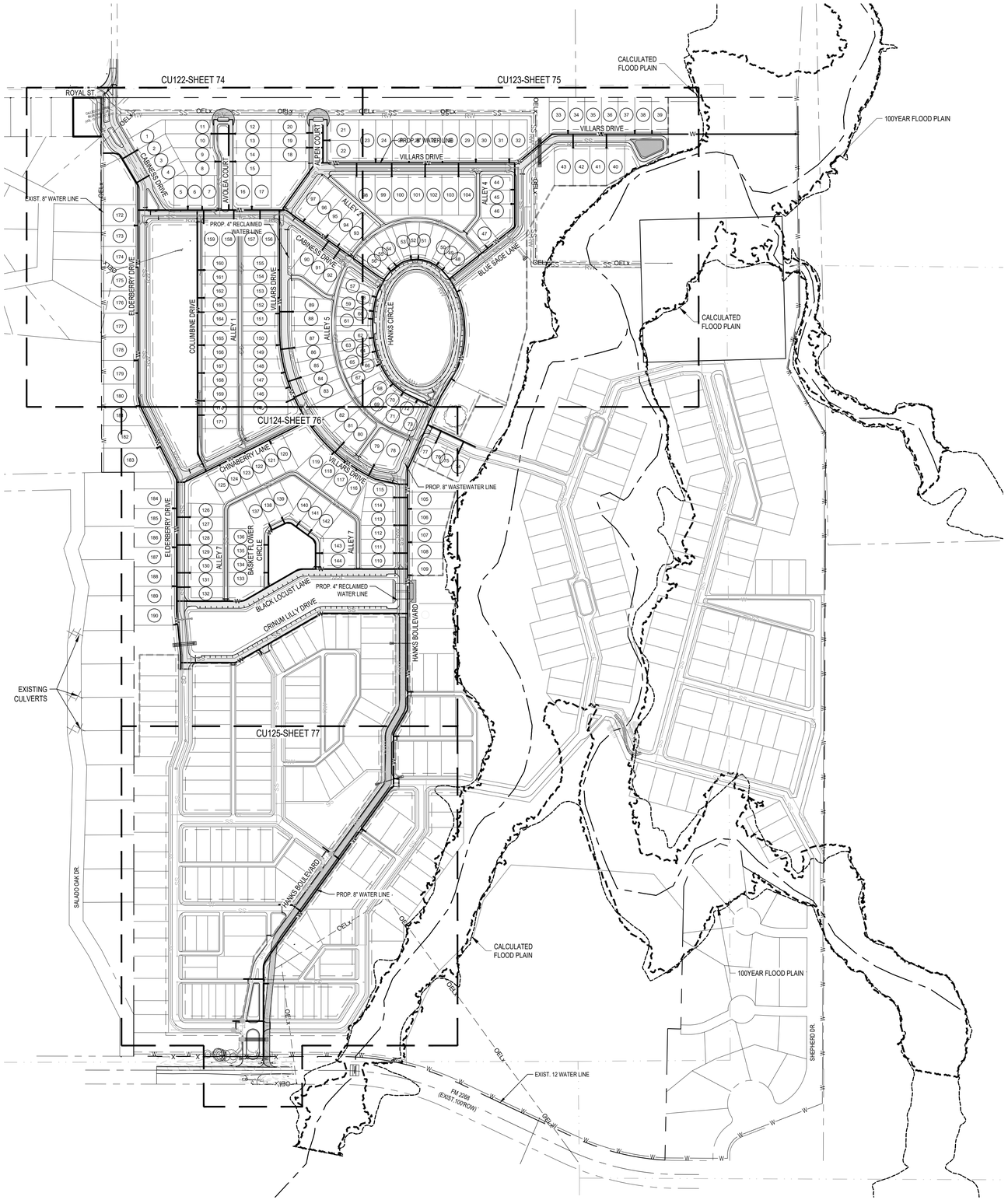
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

STREET AND DRAINAGE DETAILS (SHEET 6)
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CG506

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	72

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CG72 3020\00 STREET AND DRAINAGE DETAILS (SHEET 6) CG506.dwg



NOTE:
IF THE MAXIMUM STATIC PRESSURE EXCEEDS 80 PSI, A PRV WILL BE REQUIRED ON THE PROPERTY OWNER'S SIDE OF THE WATER METER.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

NOTE:
1. SEE SHEET C-001 FOR GENERAL UTILITY NOTES
2. SEE SHEET'S CU501THROUGH CU502 FOR GENERAL UTILITY DETAILS
3. NO ACCESS SHALL BE GRANTED TO SENSITIVE FEATURE BUFFER ZONE TO INCLUDE ANY AND ALL CONTRACTOR OPERATIONS.
4. ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO P.E.C. PLANS FOR FULL ELECTRIC LAYOUT.

FOR SANITARY SEWER CROSSINGS SEE TYPICAL UTILITY CROSSING DETAIL AND NOTES ON SHEET CU502

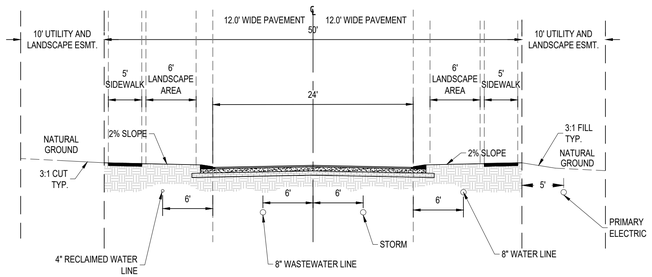
FOR OTHER UTILITY CROSSINGS SEE TYPICAL UTILITY CROSSING AND WATER LOWERING DETAILS ON SHEET CU502

LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR (600)
- EXISTING 1' CONTOUR (599)
- PROPOSED 8" WATER LINE (W)
- PROPOSED 8" SEWER LINE (SS)
- PROPOSED 4" RECLAIMED WATER LINE (RW)
- PROPOSED GAS MAIN (G)
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE (Wx)
- EXISTING SEWER LINE (SSx)
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

FIRE HYDRANTS, WATER SERVICES, AND OTHER APPURTENANCES ARE SHOWN SCHEMATICALLY. REFER TO STANDARD DETAILS FOR EXACT PLACEMENT OF THESE FEATURES.



MINIMUM COVER BELOW FINISH-GRADE *ALL UTILITIES UNDER ROADWAY - 36"*	
ELECTRIC PRIMARY	36"
RECLAIMED WATER	36"
WATER	36"
WASTE WATER	48"
STORM SEWER	48"

01 TYPICAL UTILITY ASSIGNMENT DETAIL
SCALE : NTS

N

SCALE: 1"=200'
0 100' 200' 300' 400'

SHEET SIZE: 24" x 36"

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REVISIONS:

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

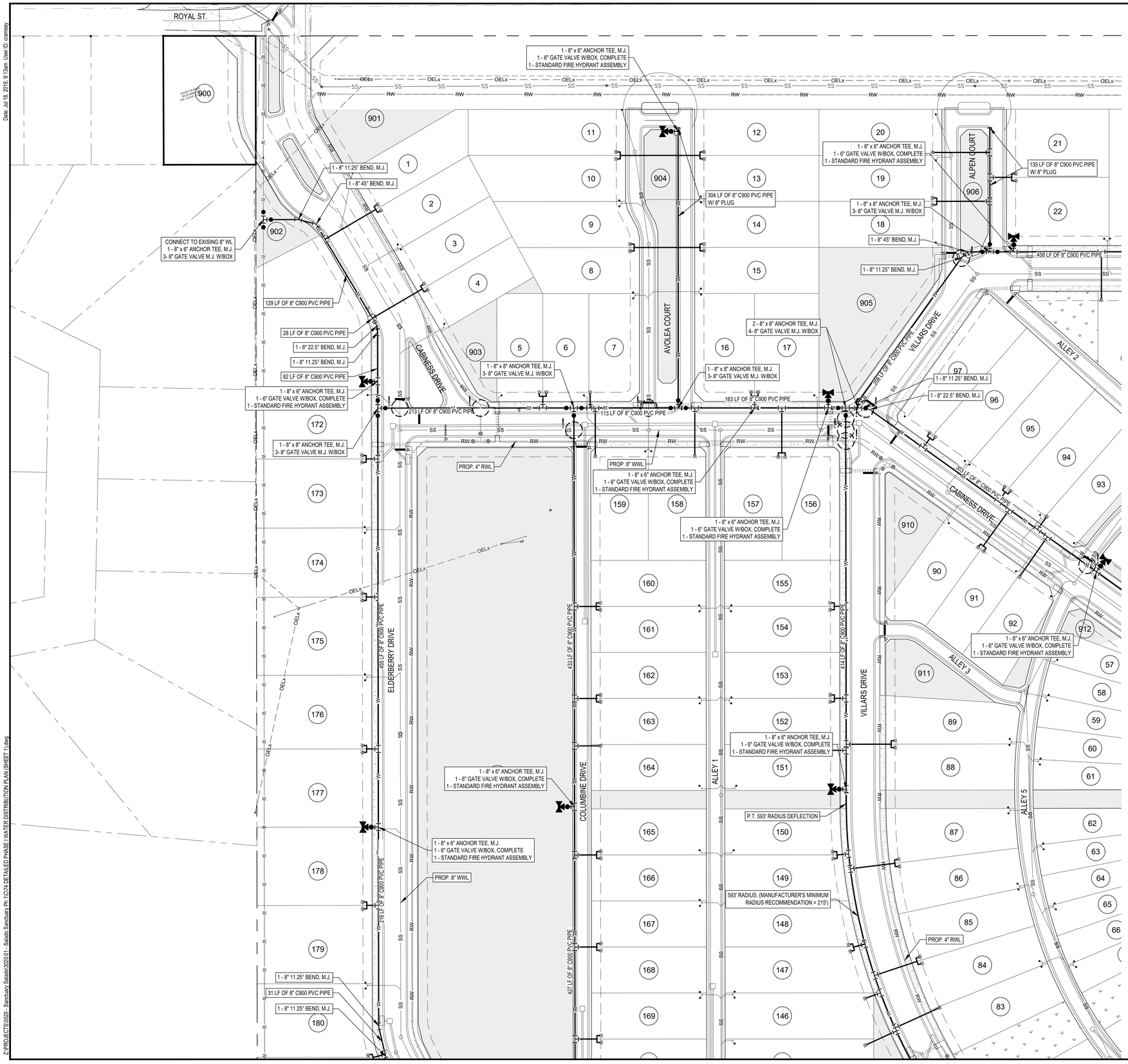
FOR REVIEW ONLY - NOT FOR CONSTRUCTION

OVERALL PHASE I WATER DISTRIBUTION PLAN
FOR
SALADO SANCTUARY, PHASE 1
SALADO, TEXAS

CU121

JOB NO.	3020.01
DESIGNED BY:	JF
DRAWN BY:	RRA
CHECKED BY:	GDK
SHEET #	73 OF 100

Date: Jul 18, 2019, 9:11am User ID: czamsey
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CU73 OVERALL PHASE I WATER DISTRIBUTION PLAN.dwg



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY.
REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004513 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 1)

FOR

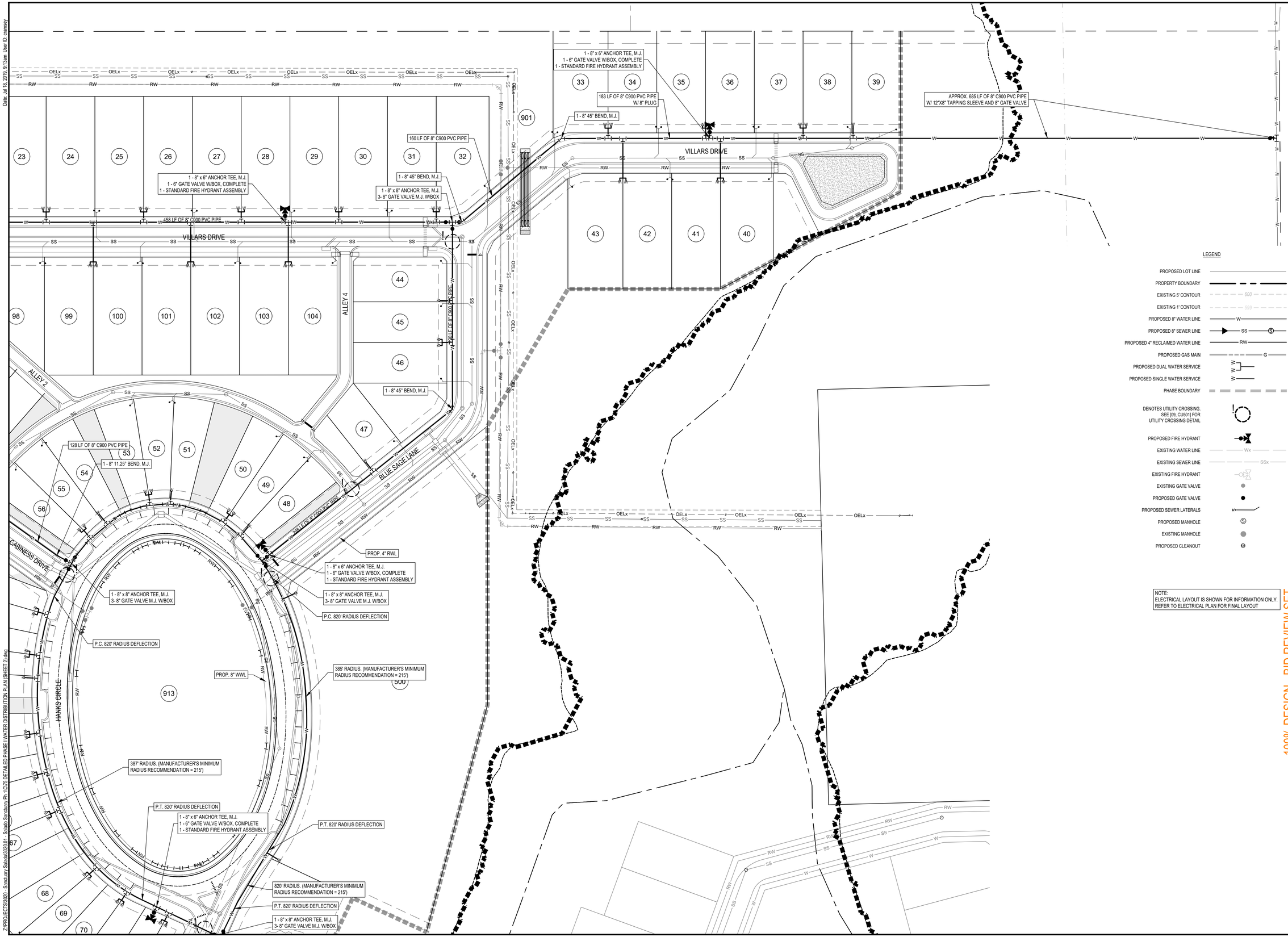
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU122

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	74 OF 100

Date: Jul 18, 2019, 9:13am User ID: czamsey
Z:\PROJECTS\3020\ - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\IC\74 DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 1).dwg



NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 2)

FOR

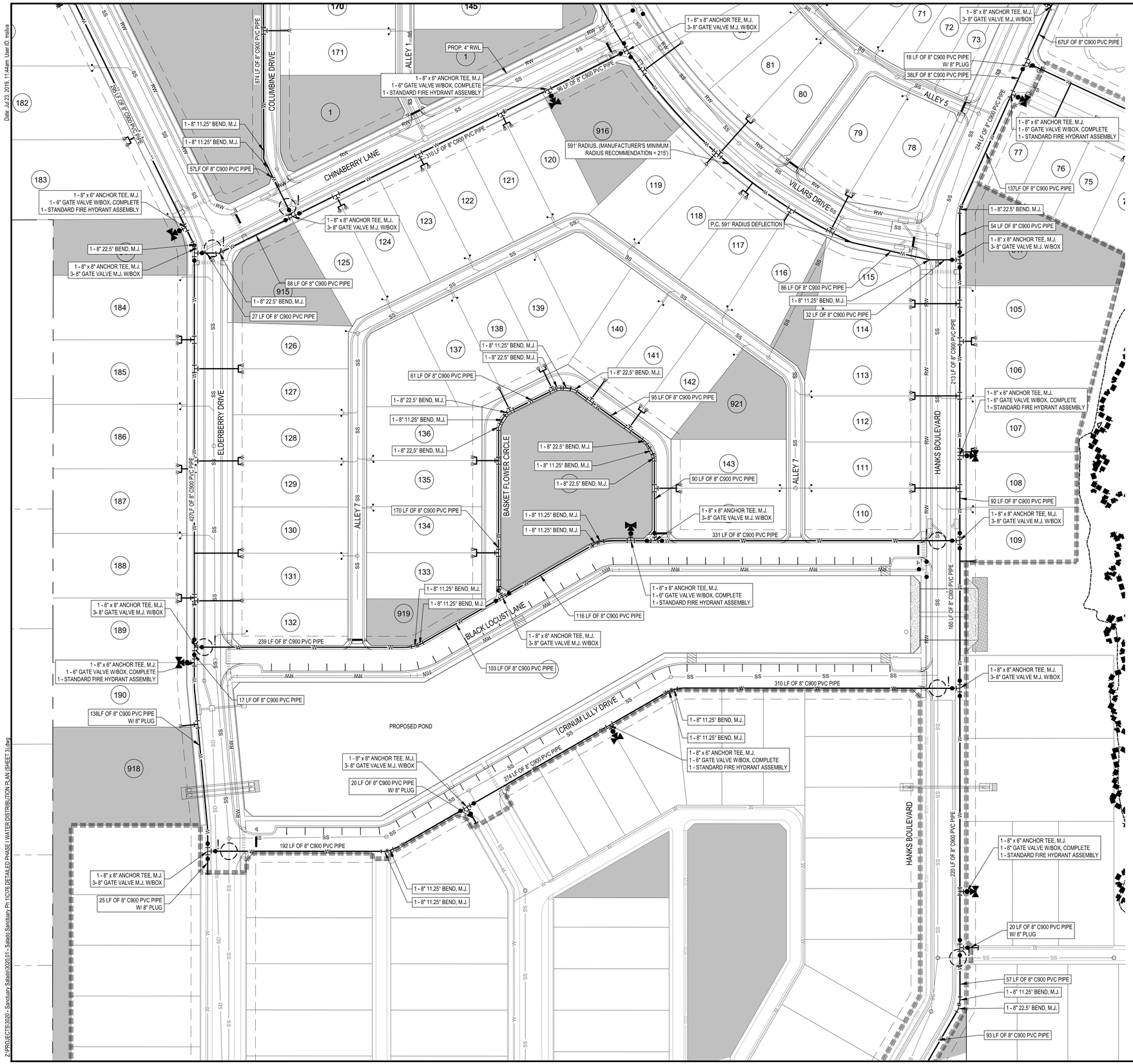
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU123

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	75 OF 100

Date: Jul 18, 2019, 9:13am User ID: czamsey
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CTS DETAILED PHASE I WATER DISTRIBUTION PLAN SHEET 2.dwg



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 3)

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

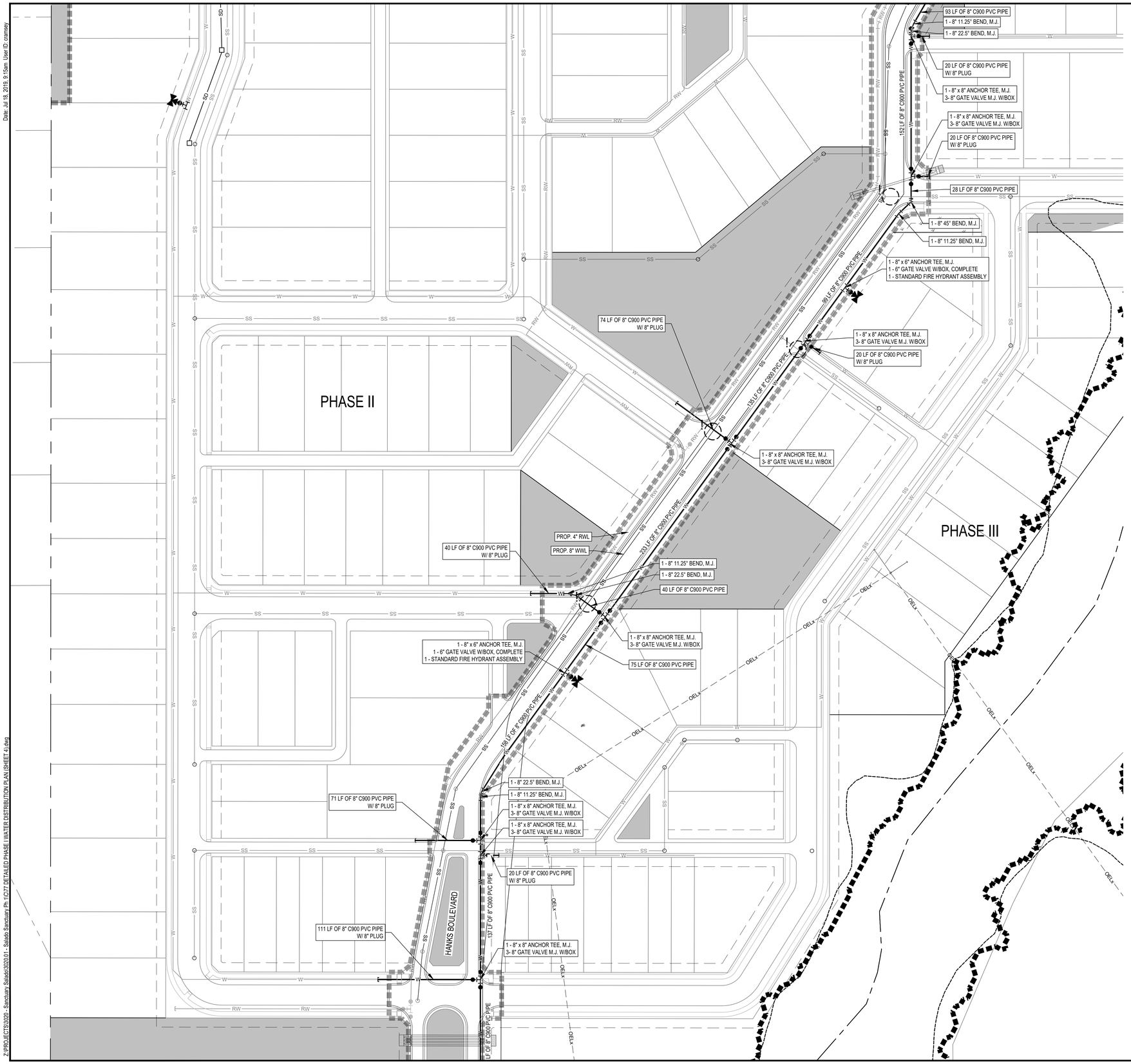
CU124

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	76 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CT6 DETAILED PHASE I WATER DISTRIBUTION PLAN SHEET 3.dwg
Date: Jul 23, 2019, 11:44am User ID: mslva

Date: Jul 18, 2019, 9:15am User ID: czamsey

Z:\PROJECTS\3020 - Sanctuary Salado\3020\01 - Salado Sanctuary Ph 1\C77 DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 4).dwg



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
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- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I WATER DISTRIBUTION PLAN (SHEET 4)

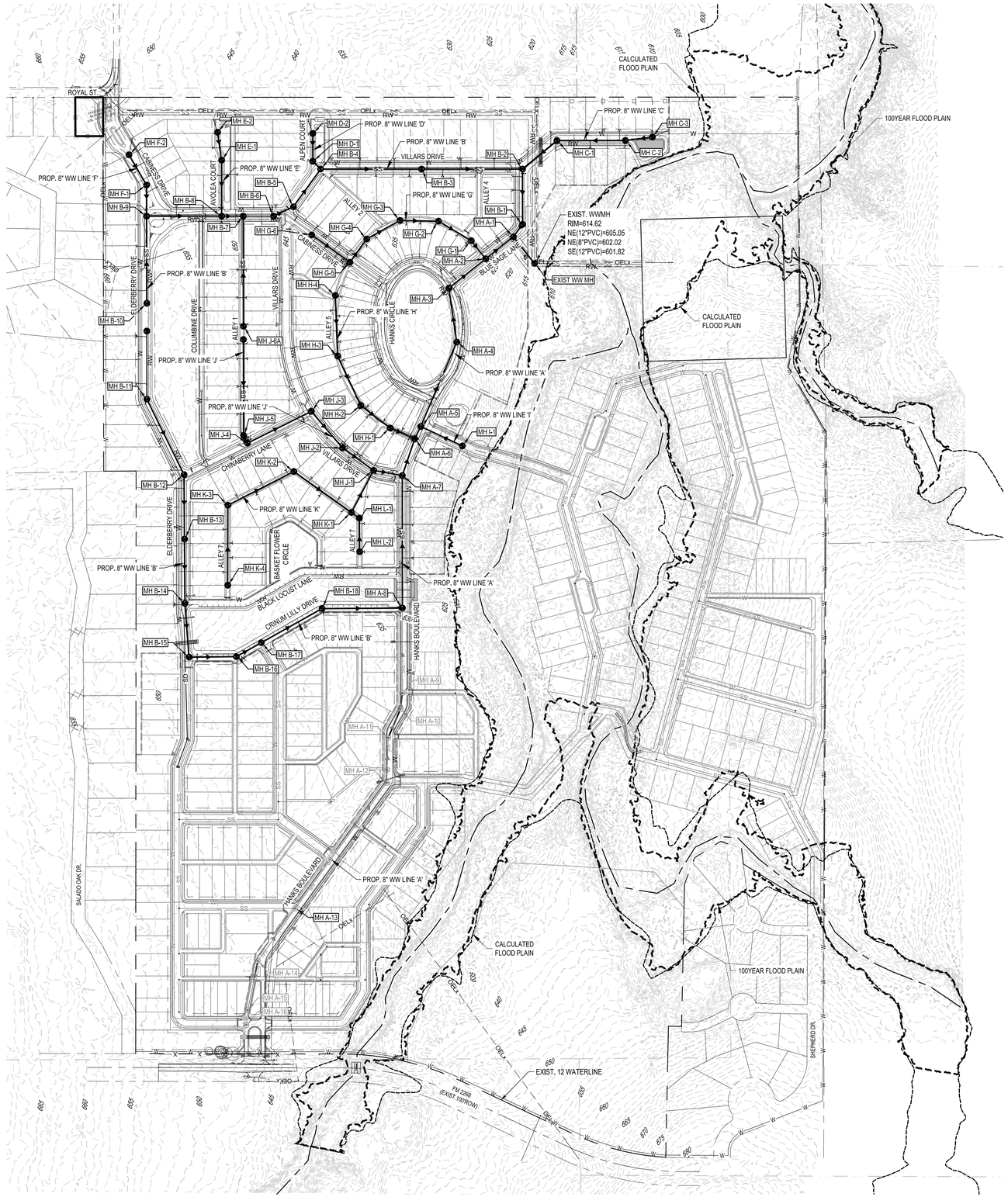
FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU125

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	77 OF 100



NOTE:
IF THE MAXIMUM STATIC PRESSURE EXCEEDS 80 PSI, A PRV WILL BE REQUIRED ON THE PROPERTY OWNER'S SIDE OF THE WATER METER.

TRENCH EXCAVATION SAFETY PROTECTION
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NOTE:
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2. SEE SHEETS CU501THROUGH CU502 FOR GENERAL UTILITY DETAILS
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4. ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO P.E.C. PLANS FOR FULL ELECTRIC LAYOUT.

FOR SANITARY SEWER CROSSINGS SEE TYPICAL UTILITY CROSSING DETAIL AND NOTES ON SHEET CU502

FOR OTHER UTILITY CROSSINGS SEE TYPICAL UTILITY CROSSING AND WATER LOWERING DETAILS ON SHEET CU502

LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR (600)
- EXISTING 1' CONTOUR (599)
- PROPOSED 8" WATER LINE (W)
- PROPOSED 8" SEWER LINE (SS)
- PROPOSED 4" RECLAIMED WATER LINE (RW)
- PROPOSED GAS MAIN (G)
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE (Wx)
- EXISTING SEWER LINE (SSx)
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
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FIRE HYDRANTS, WATER SERVICES, AND OTHER APPURTENANCES ARE SHOWN SCHEMATICALLY. REFER TO STANDARD DETAILS FOR EXACT PLACEMENT OF THESE FEATURES.

N

SCALE: 1"=200'
0 100' 200' 300' 400'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

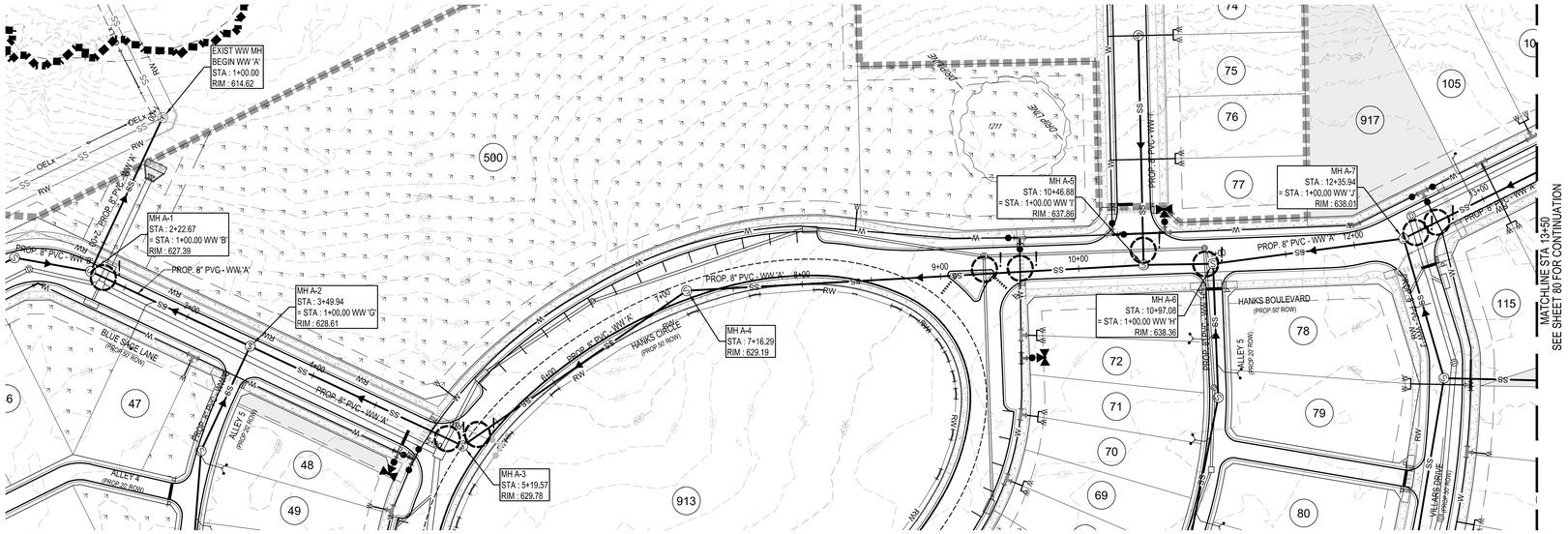
OVERALL PHASE I WASTEWATER COLLECTION PLAN
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU201

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	78 OF 100

Date: Jul 24, 2019, 3:15pm User ID: nwagliardo
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CU78 OVERALL PHASE I WASTEWATER COLLECTION PLAN.dwg

Date: Jul 24, 2019, 5:47pm User ID: nwagliardo



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dr. CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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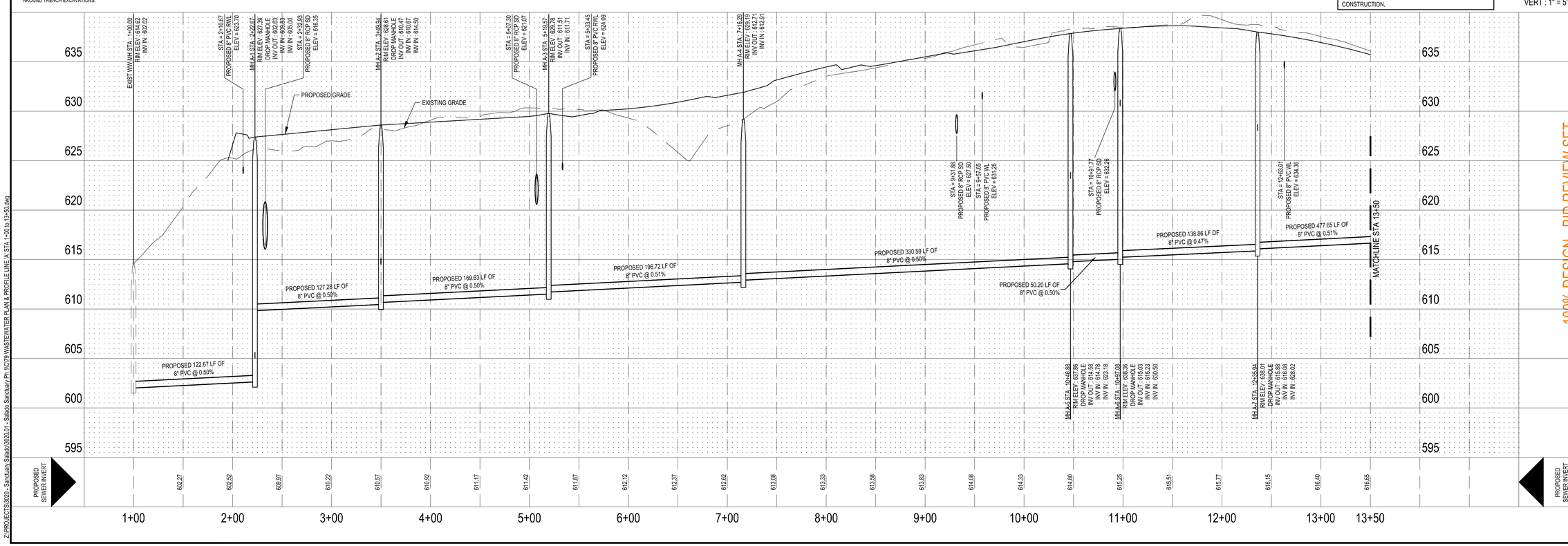
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WASTEWATER LINE 'A'
STA 1+00 TO 13+50

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

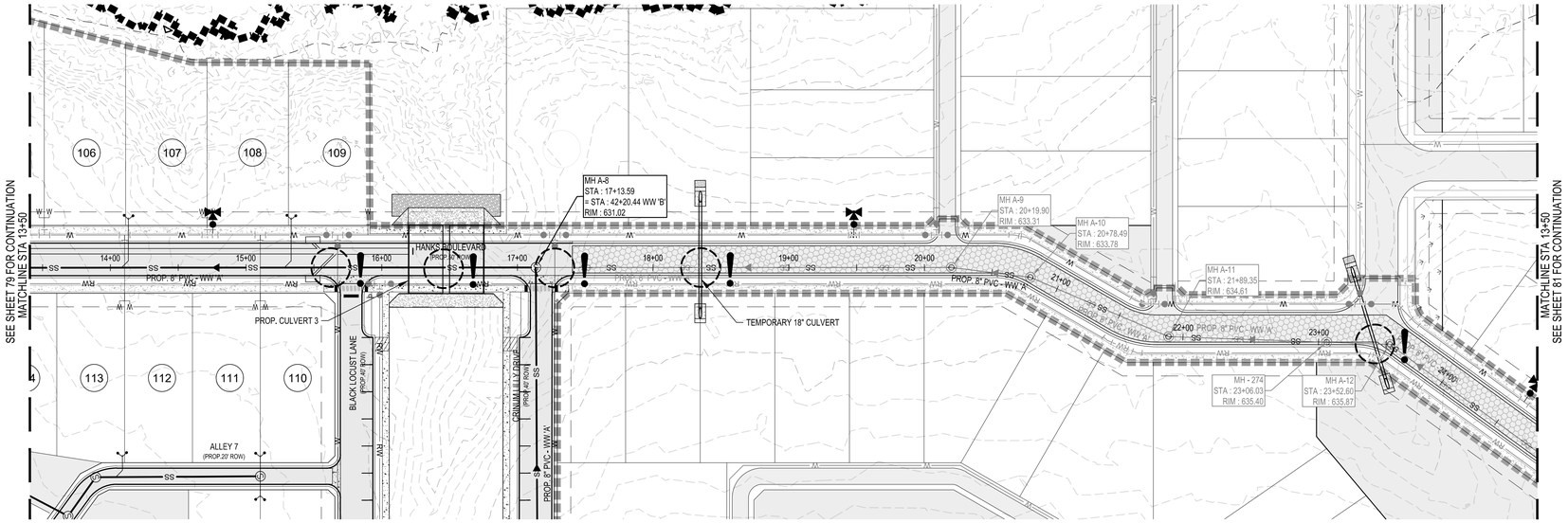
WASTEWATER PLAN & PROFILE LINE 'A'
STA 1+00 TO 13+50
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU202

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	79 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CT9 WASTEWATER PLAN & PROFILE LINE 'A' STA 1+00 to 13+50.dwg

Date: Jul 23, 2019, 2:21pm User ID: mslva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE (DS. CU501) FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD SUITE 103
CEDAR PARK, TEXAS 78613
OFFICE: 512.868.2244

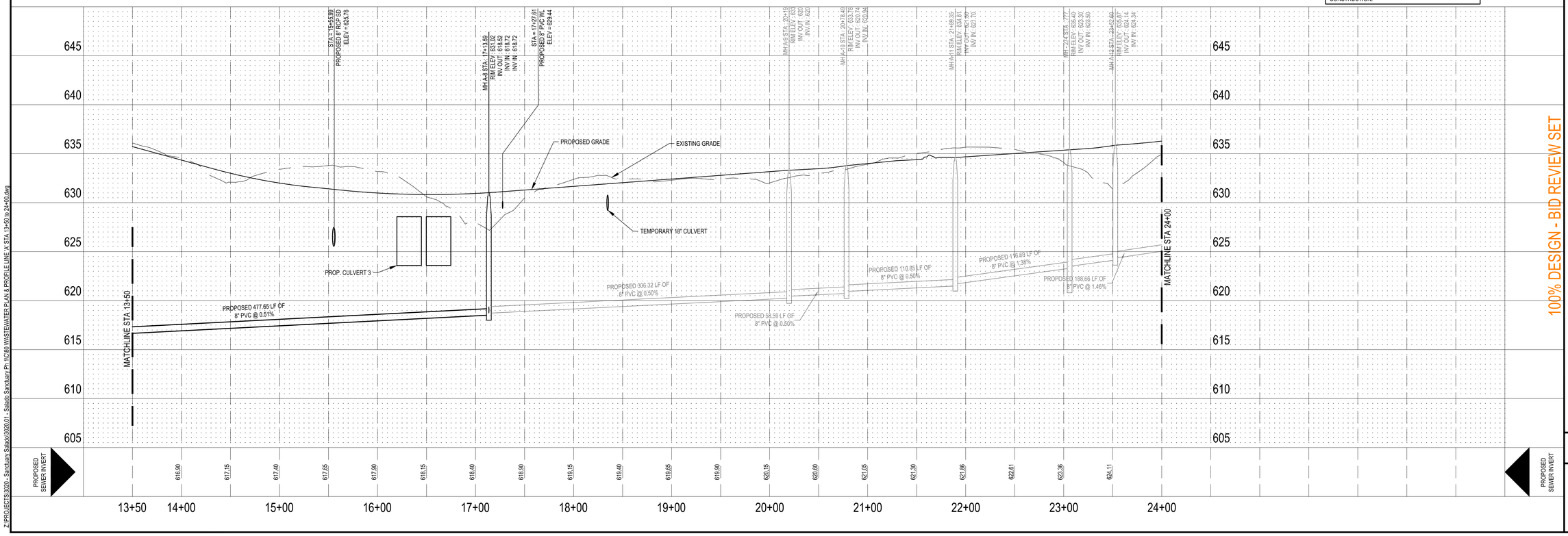
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WASTEWATER LINE 'A'
STA 13+50 TO 24+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

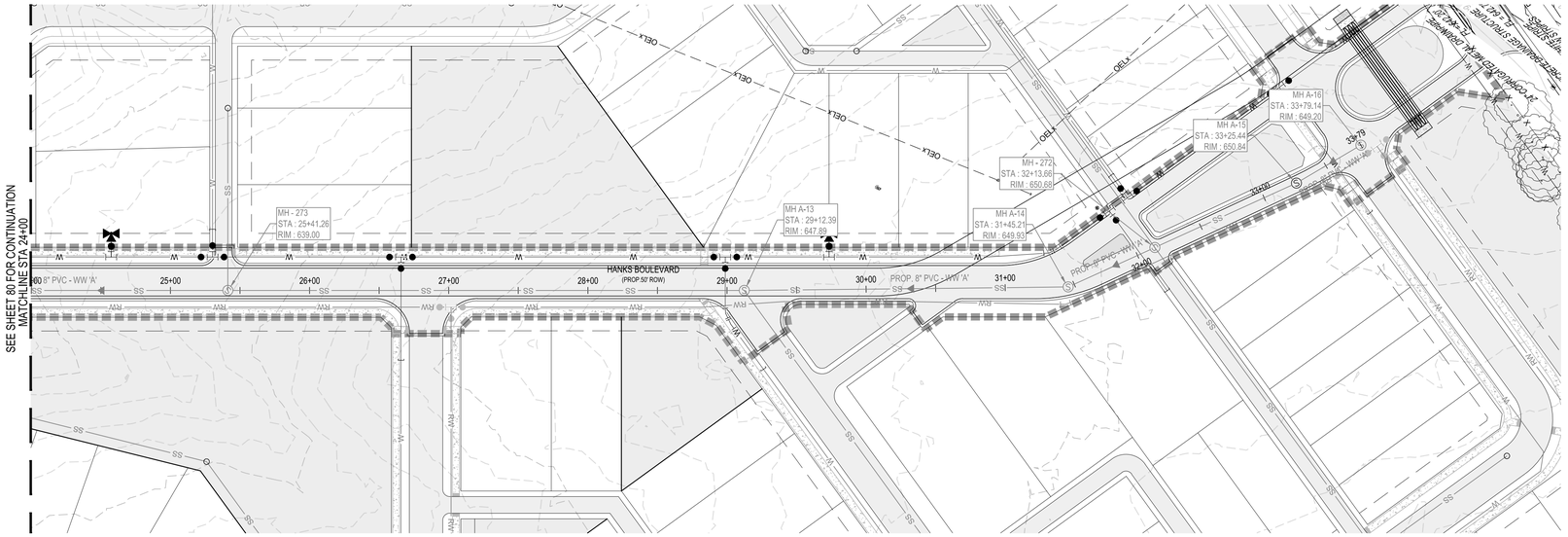
WASTEWATER PLAN & PROFILE LINE 'A'
STA 13+50 TO 24+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU203

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	80 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\80 WASTEWATER PLAN & PROFILE LINE 'A' STA 13+50 to 24+00.dwg

Date: Jul 31, 2019, 9:02am User ID: mslka



WASTEWATER LINE 'A'
STA 24+00 TO END

NOT PART OF THIS PROJECT

TRENCH EXCAVATION SAFETY PROTECTION

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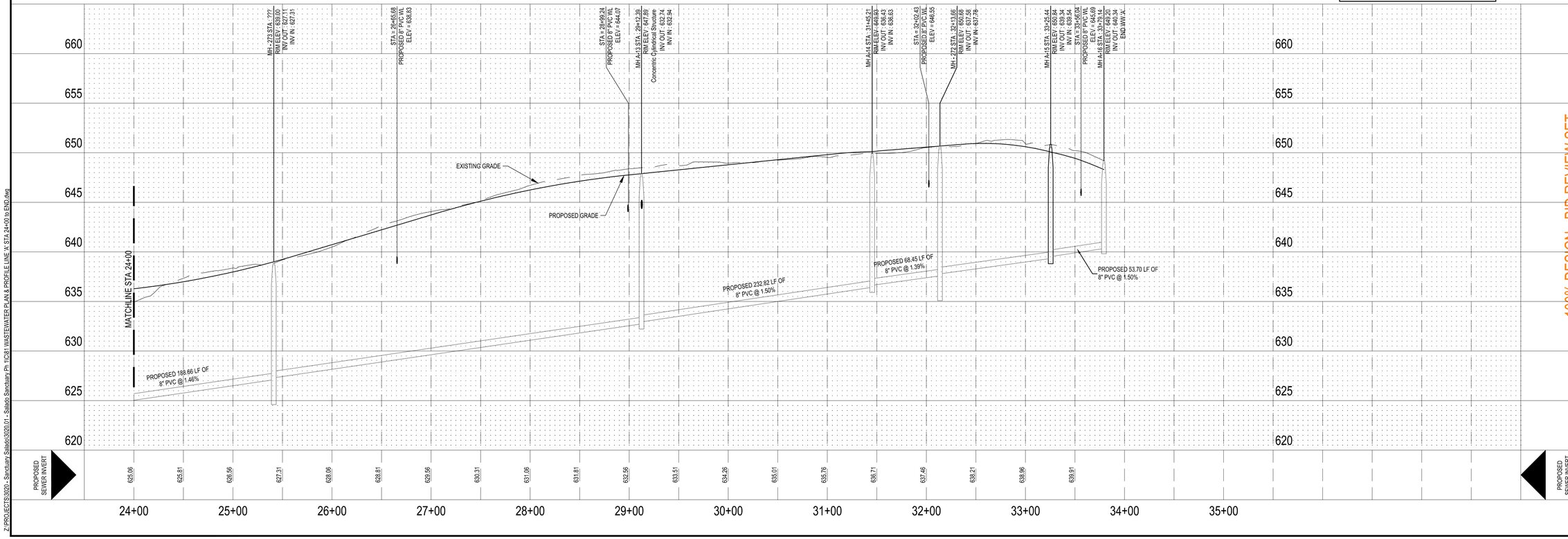
WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dg. CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78408
OFFICE: 512.868.2244

100% DESIGN - BID REVIEW SET

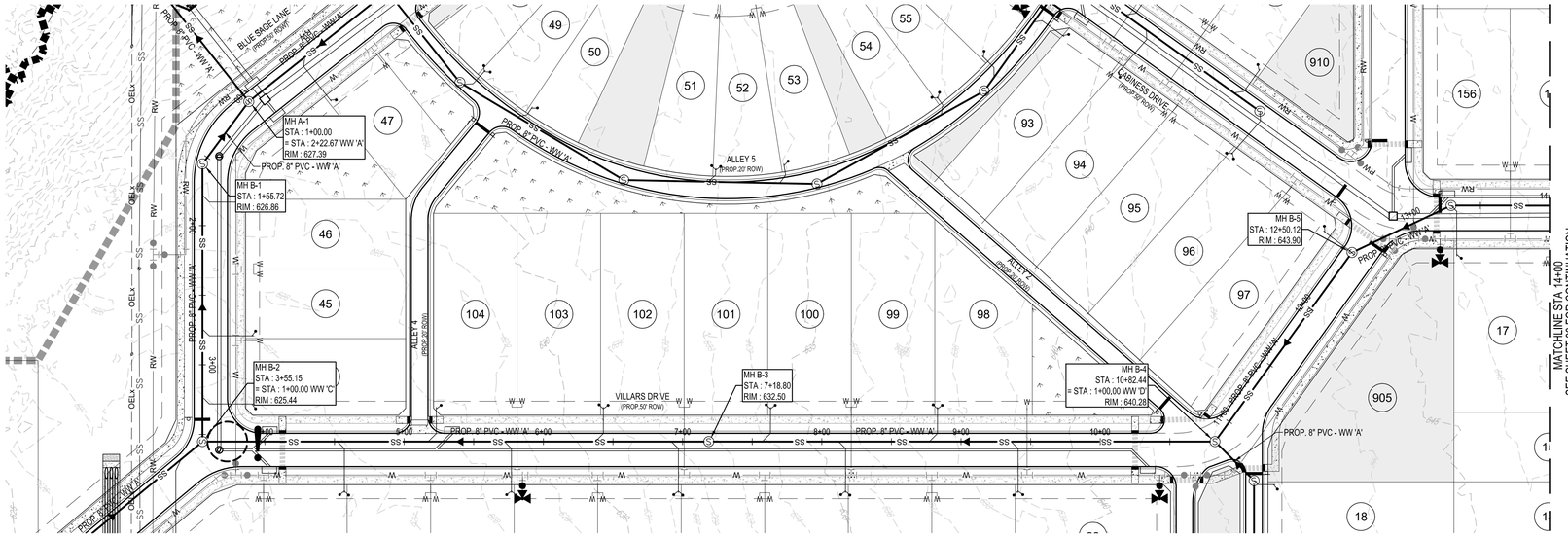
WASTEWATER PLAN & PROFILE LINE 'A'
STA 24+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU204

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	81 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C81 WASTEWATER PLAN & PROFILE LINE 'A' STA 24+00 to END.dwg

Date: Jul 23, 2019, 12:51pm User ID: malka



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE (DS. C1501) FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD, SUITE 103
CROSS PLAINS, TEXAS 76443
OFFICE: 512.868.2244

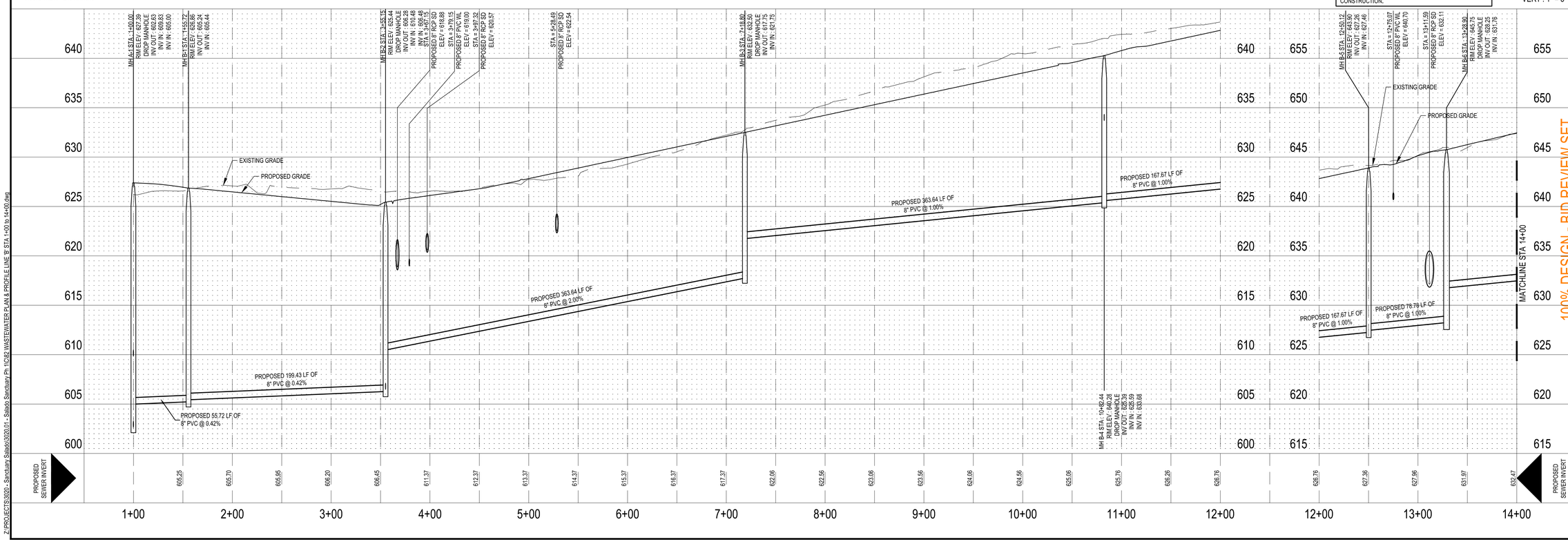
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WASTEWATER LINE 'B'
STA 1+00 TO 14+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

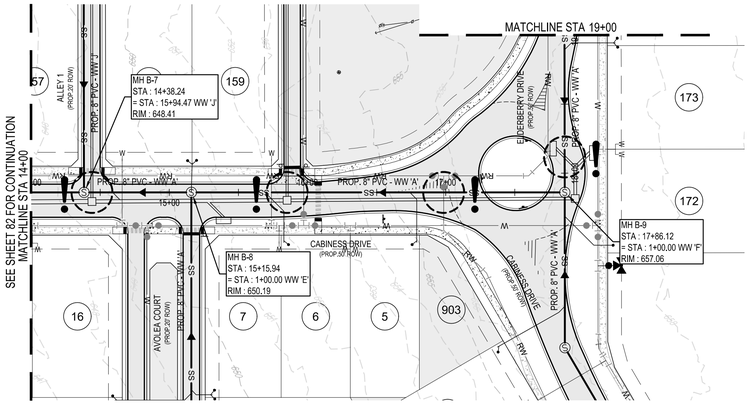
WASTEWATER PLAN & PROFILE LINE 'B'
STA 1+00 TO 14+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

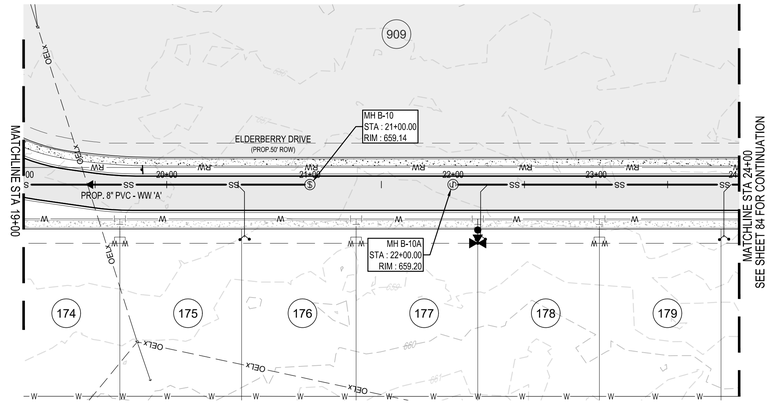
CU205

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	82 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CIV2\WASTEWATER PLAN & PROFILE LINE 'B' STA 1+00 to 14+00.dwg

Date: Jul 23, 2019, 1:17pm User ID: mslva





N

N

WASTEWATER LINE 'B'
STA 14+00 TO 24+00

TRENCH EXCAVATION SAFETY PROTECTION

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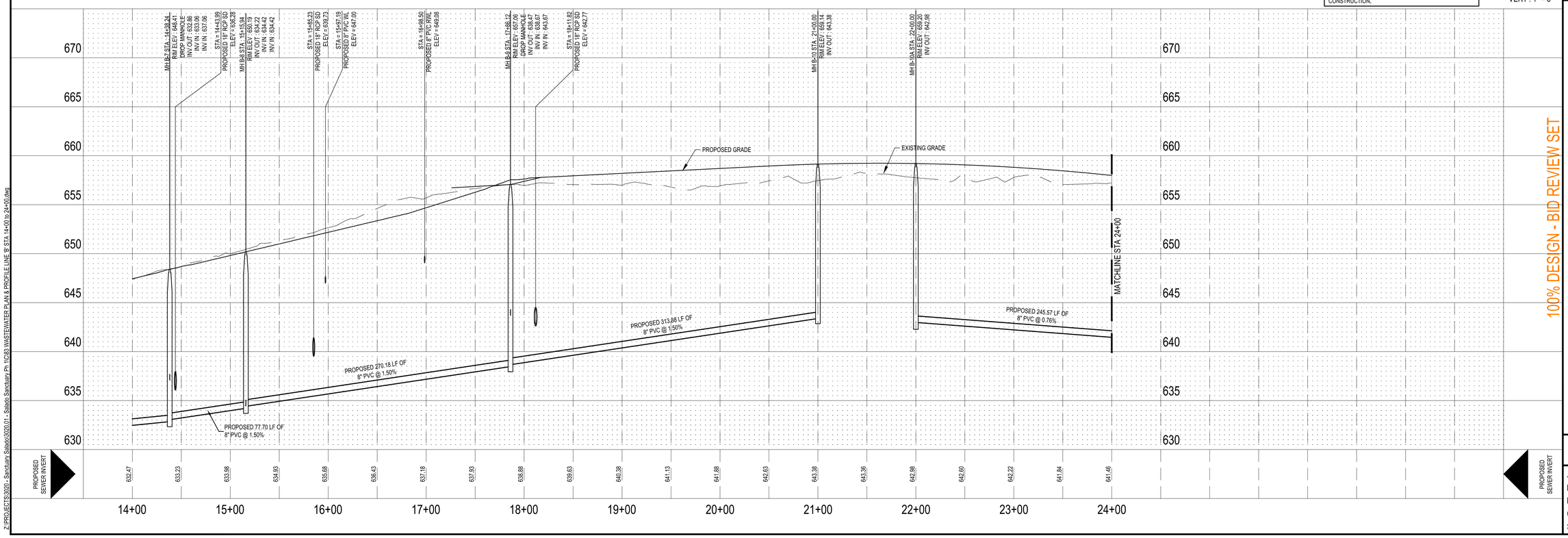
WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CUS01] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

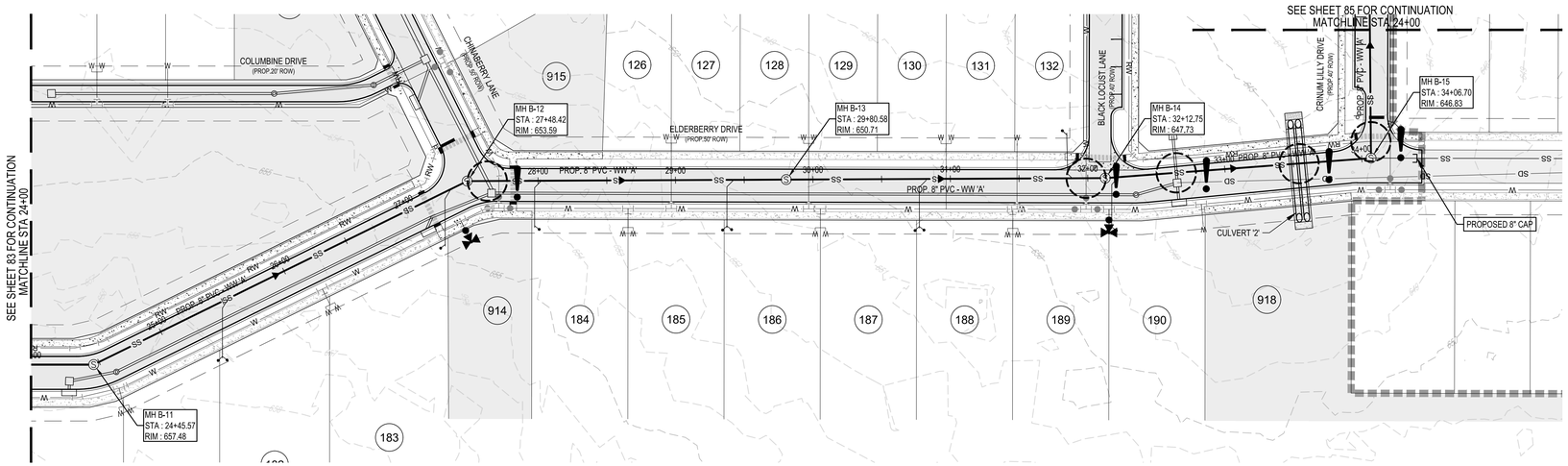
WASTEWATER PLAN & PROFILE LINE 'B'
STA 14+00 TO 24+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU206

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	83 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CB3 WASTEWATER PLAN & PROFILE LINE 'B' STA 14+00 to 24+00.dwg

Date: Jul 23, 2019, 1:28pm User ID: msilva



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
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EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CL501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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8 SPENCER ROAD SUITE 100
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TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000
3101 SHELL ROAD SUITE 103
CHARLOTTE, NORTH CAROLINA 28208
OFFICE: 512.868.2244

WASTEWATER LINE 'B'
STA 24+00 TO 35+00

TRENCH EXCAVATION SAFETY PROTECTION

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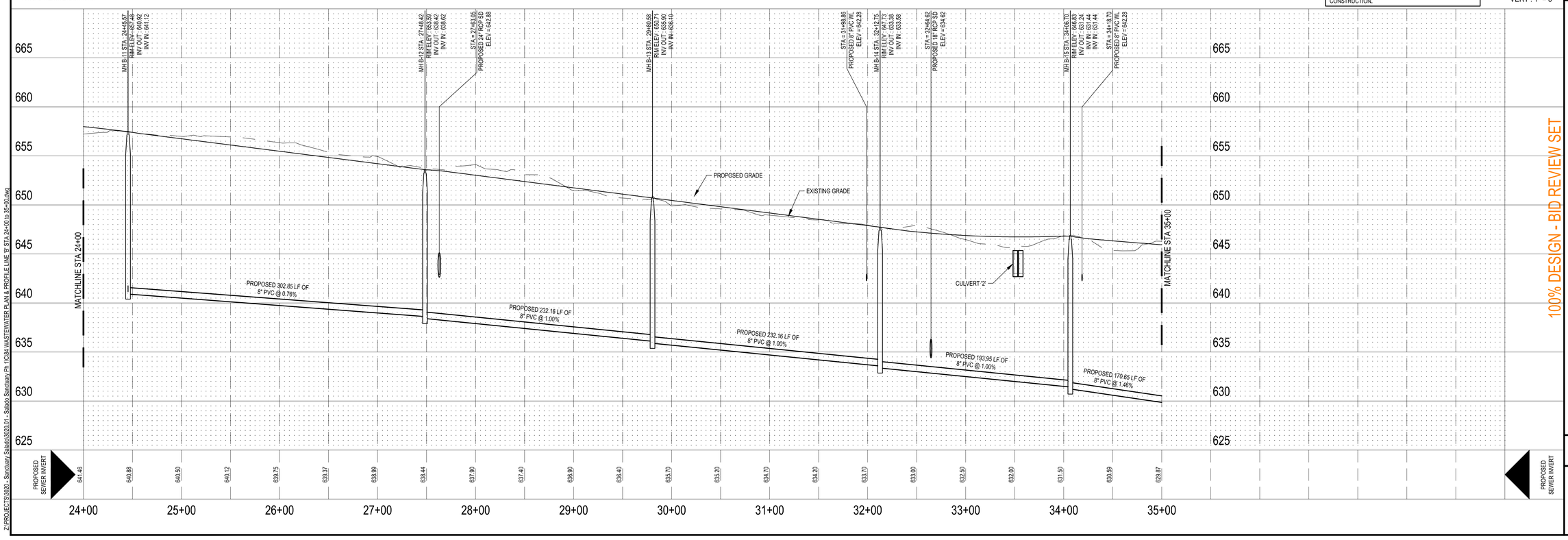
WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

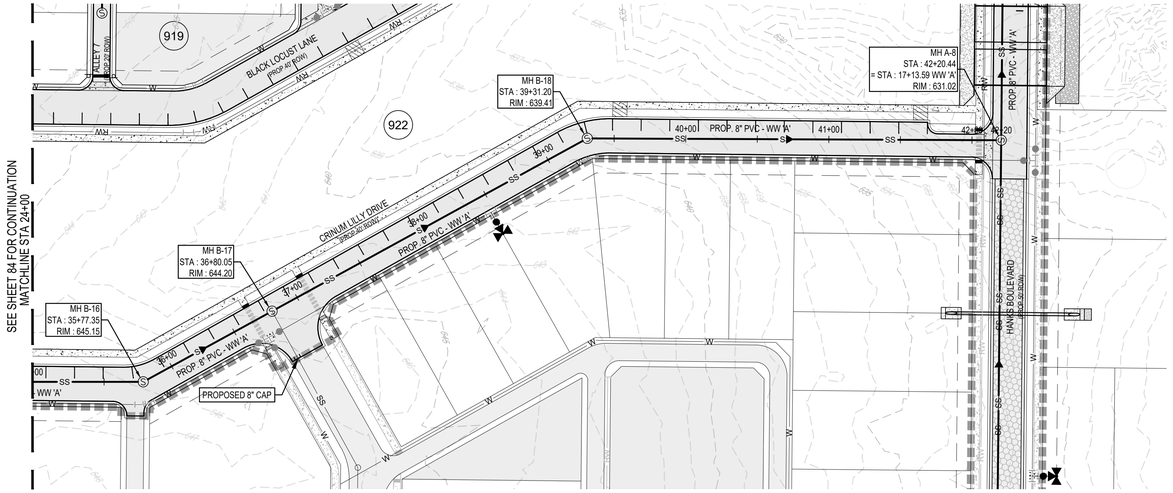
WASTEWATER PLAN & PROFILE LINE 'B'
STA 24+00 TO 35+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU207

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	84 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\84 WASTEWATER PLAN & PROFILE LINE 'B' STA 24+00 to 35+00.dwg

Date: Jul 18, 2019, 9:30am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
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EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS CU501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
8 SPENCER ROAD, SUITE 100
BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
1301 SHELL ROAD, SUITE 100
CEDAR PARK, TEXAS 78613
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

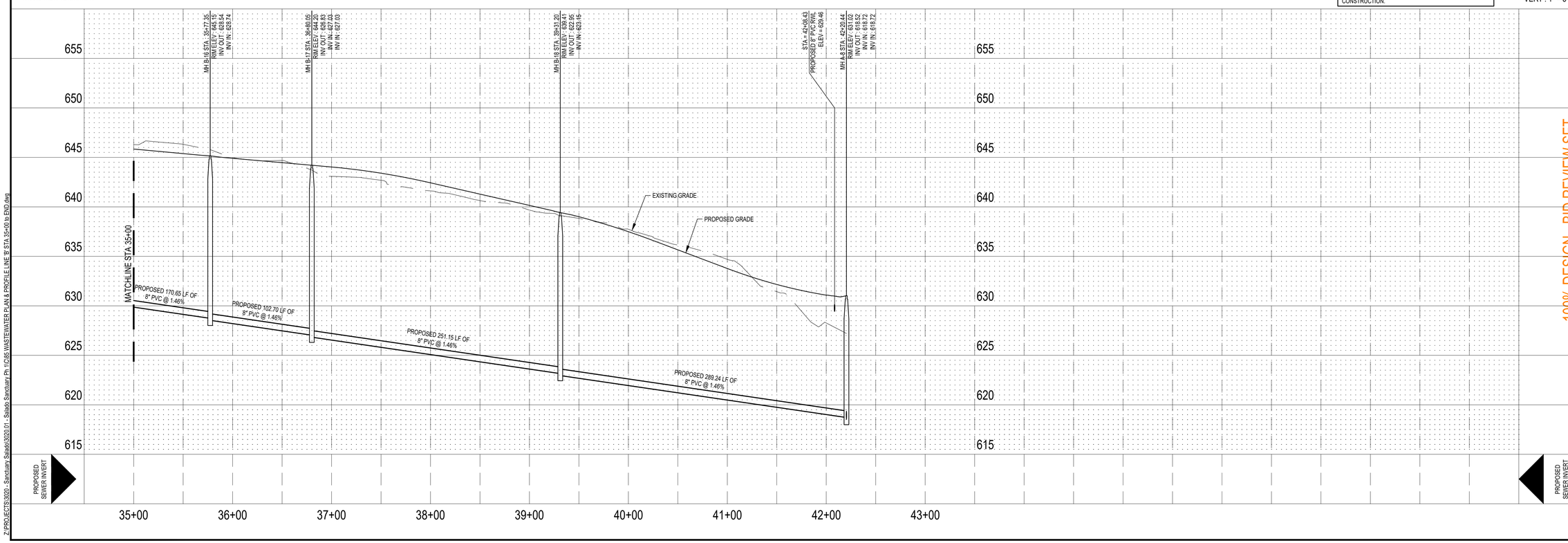
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WASTEWATER LINE 'B'
STA 35+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

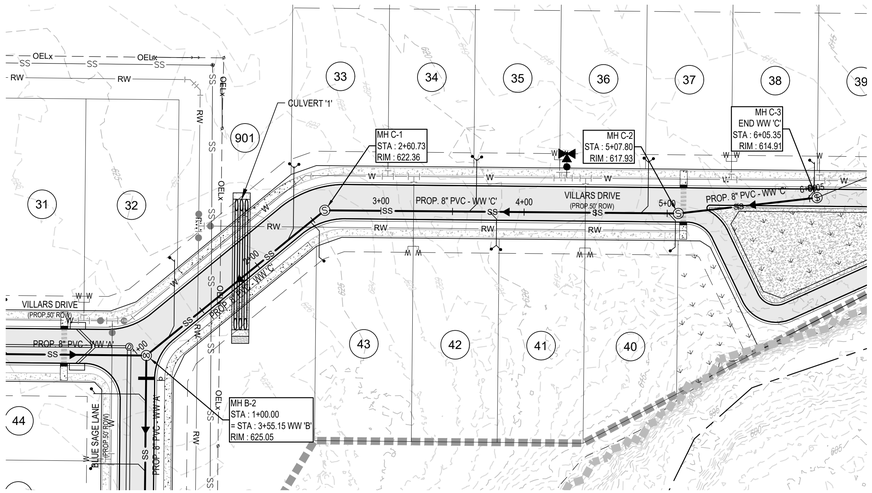
WASTEWATER PLAN & PROFILE LINE 'B'
STA 35+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

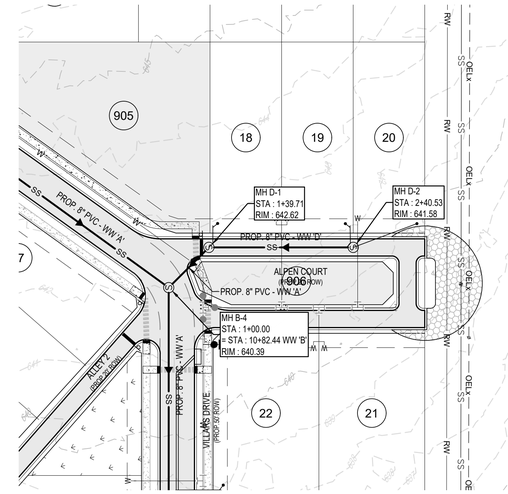
CU208

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	85 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD\5 WASTEWATER PLAN & PROFILE LINE 'B' STA 35+00 to END.dwg

Date: Jul 18, 2019, 9:32am User ID: cramsey





LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DI CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12-SURVEYING FIRM F-10024000

TRENCH EXCAVATION SAFETY PROTECTION

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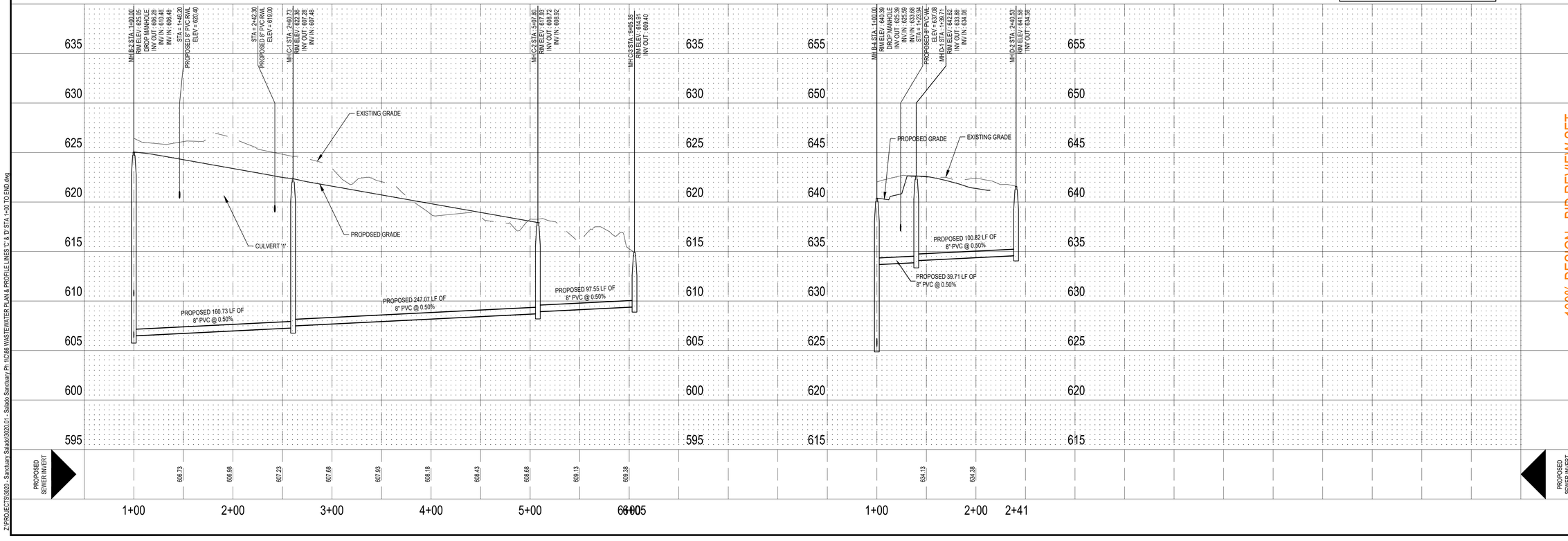
WASTEWATER LINE 'C'
STA 1+00 TO END

WASTEWATER LINE 'D'
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

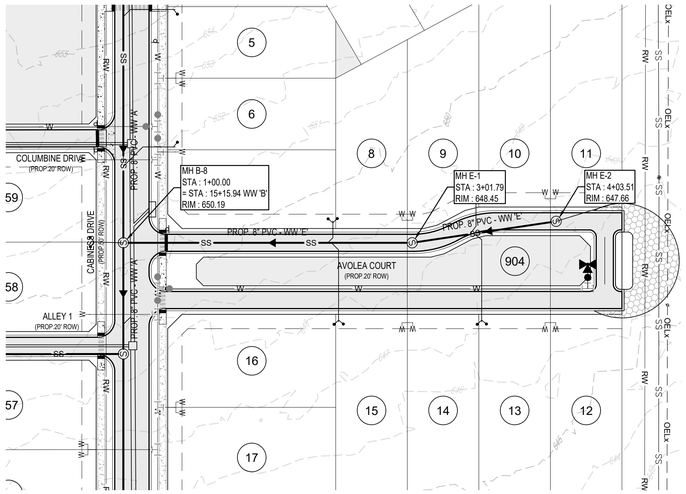
WASTEWATER PLAN & PROFILE LINES 'C' & 'D'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

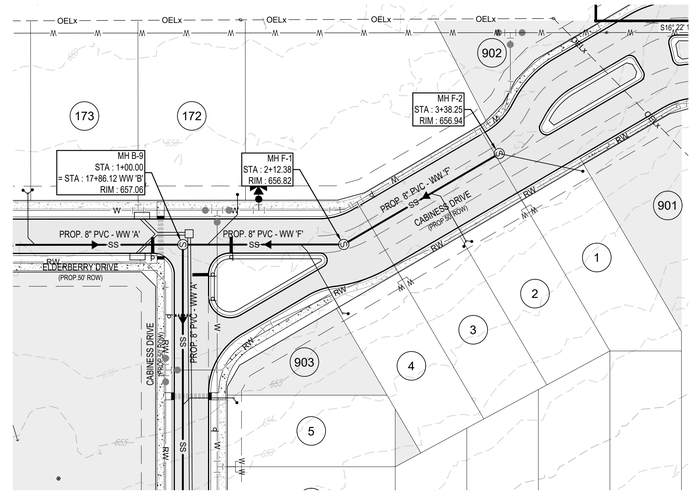
CU209

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	86 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C08 WASTEWATER PLAN & PROFILE LINES 'C' & 'D' STA 1+00 TO END.dwg

Date: Jul 18, 2019, 9:34am User ID: cramsey





LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [Dr. CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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MATKINHOOVER ENGINEERING & SURVEYING
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3301 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244

TRENCH EXCAVATION SAFETY PROTECTION

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N

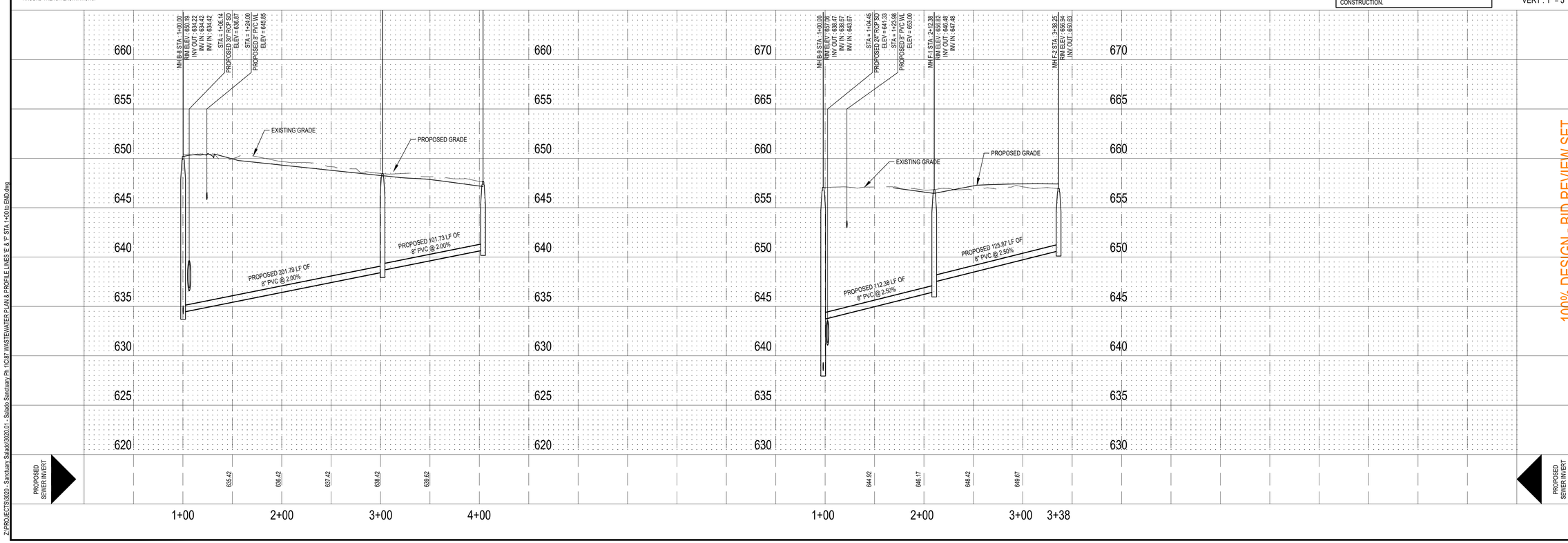
WASTEWATER LINE 'E'
STA 1+00 TO END

N

WASTEWATER LINE 'F'
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

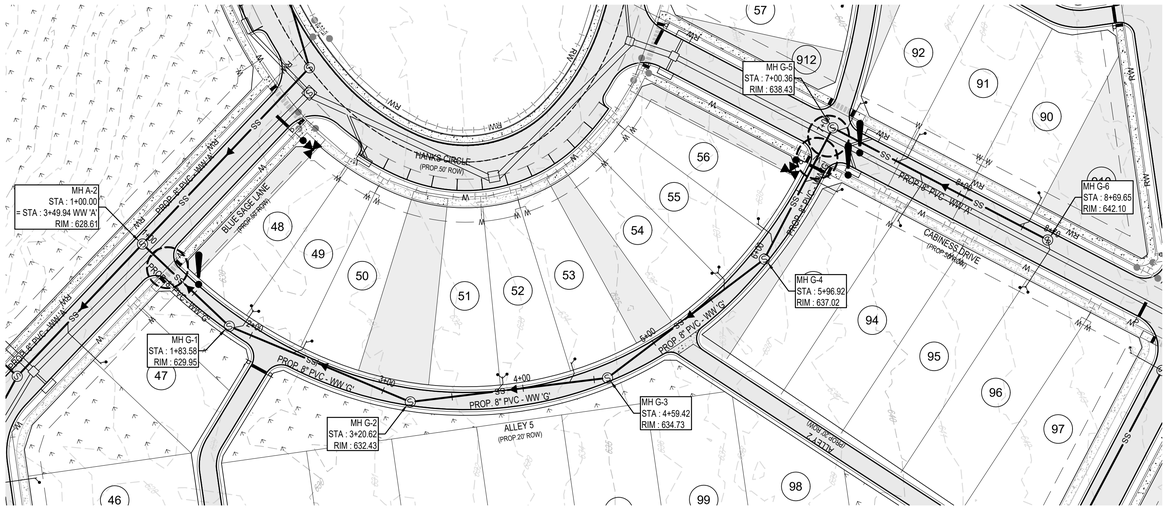
WASTEWATER PLAN & PROFILE LINES 'E' & 'F' STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

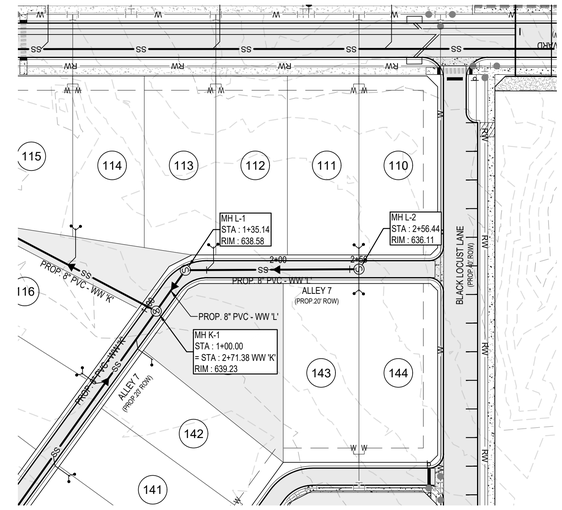
CU210

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	87 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C87 WASTEWATER PLAN & PROFILE LINES 'E' & 'F' STA 1+00 to END.dwg

Date: Jul 18, 2019, 9:36am User ID: cramsey





LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [D9 CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION

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BOERNE, TEXAS 78006
OFFICE: 830.249.0600
CONTACT@MATKINHOOVER.COM
TEXAS REGISTERED ENGINEERING FIRM F-9045/12 SURVEYING FIRM F-10024000
3303 SHELL ROAD, SUITE 100
CORPUS CHRISTI, TX 78408
OFFICE: 512.868.2244

TRENCH EXCAVATION SAFETY PROTECTION

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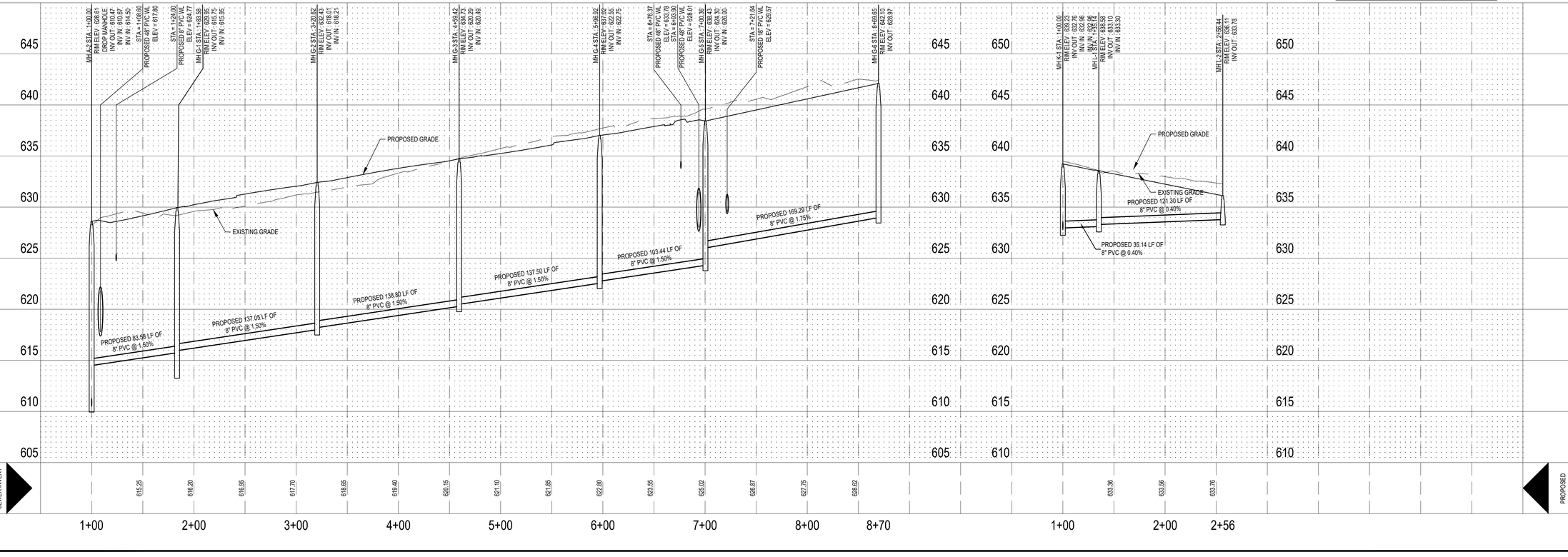
WASTEWATER LINE 'G'
STA 1+00 TO END

WASTEWATER LINE 'L'
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

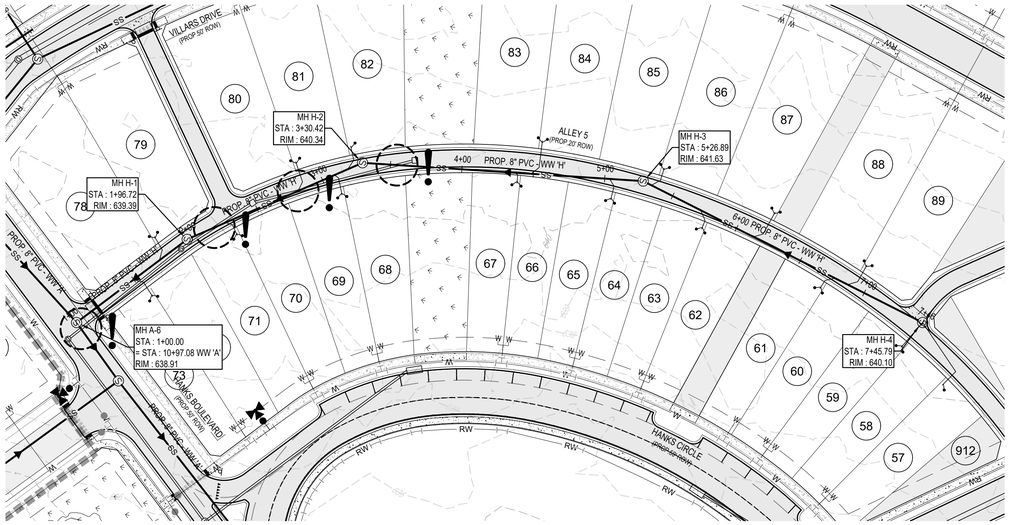
WASTEWATER PLAN & PROFILE LINES
'G' & 'L' STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

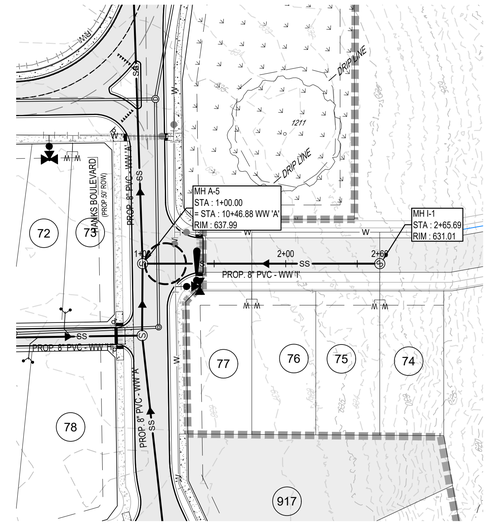
CU211

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	88 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C08 WASTEWATER PLAN & PROFILE LINES 'G' & 'L' STA 1+00 to END.dwg

Date: Jul 18, 2019, 9:37am User ID: cramsey





LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DI- CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
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LICENSED PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

TRENCH EXCAVATION SAFETY PROTECTION

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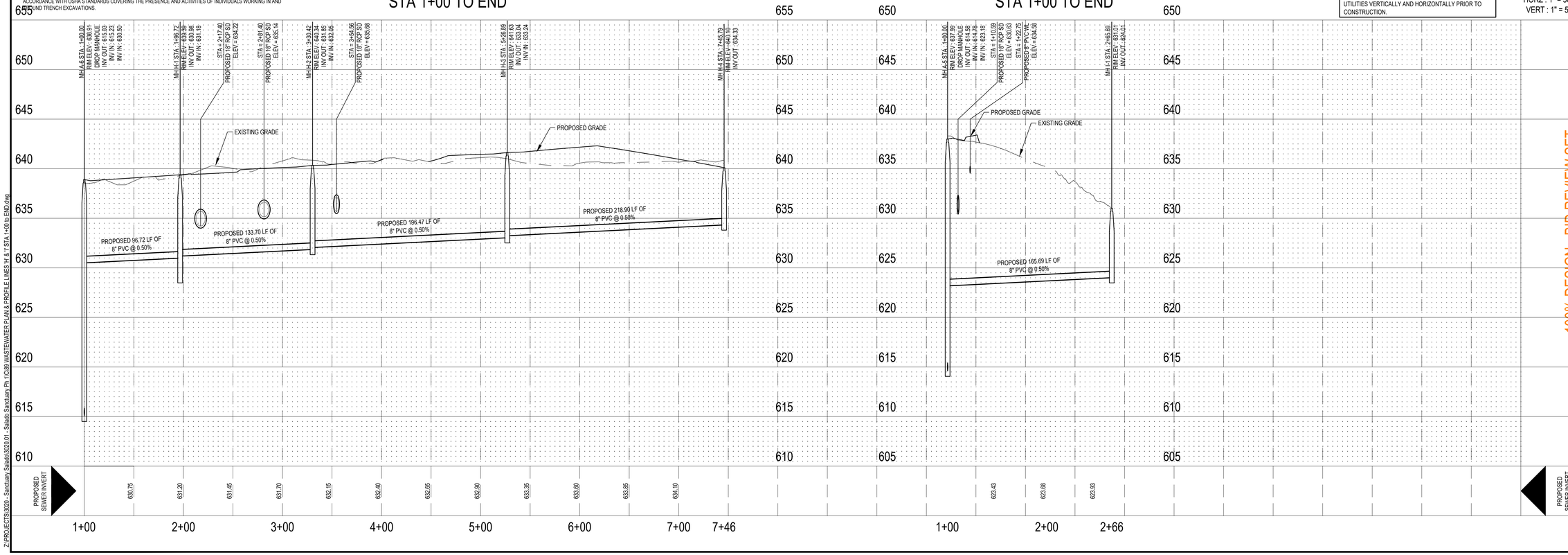
WASTEWATER LINE 'H'
STA 1+00 TO END

WASTEWATER LINE 'I'
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

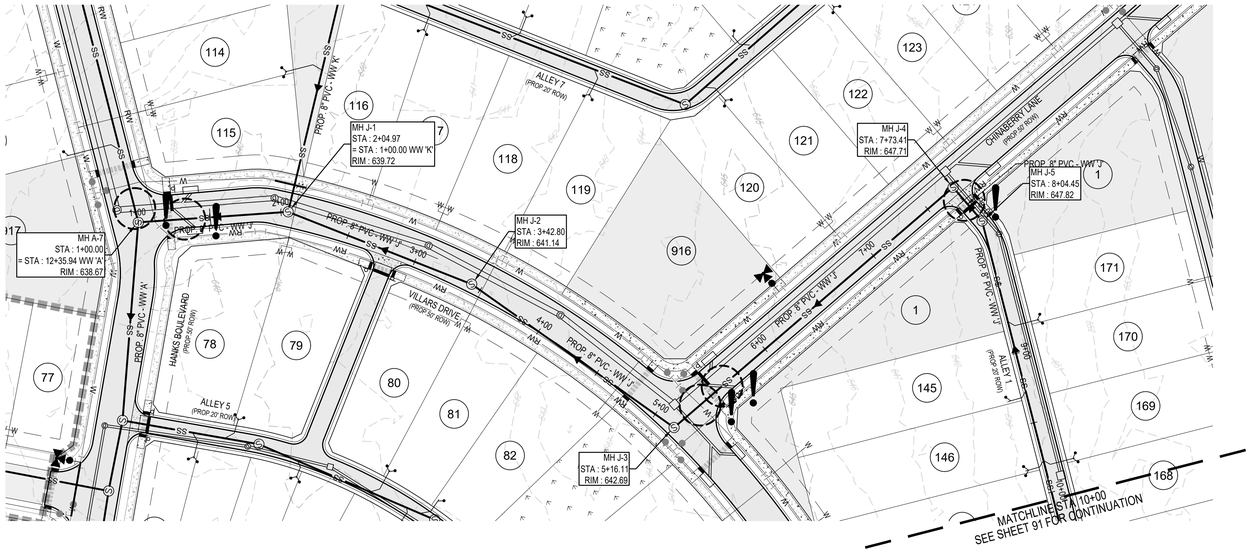
WASTEWATER PLAN & PROFILE LINES 'H' & 'I'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU212

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	89 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C08 WASTEWATER PLAN & PROFILE LINES 'H' & 'I' STA 1+00 to END.dwg

Date: Jul 18, 2019, 9:39am User ID: cramsey



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS CU501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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3101 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

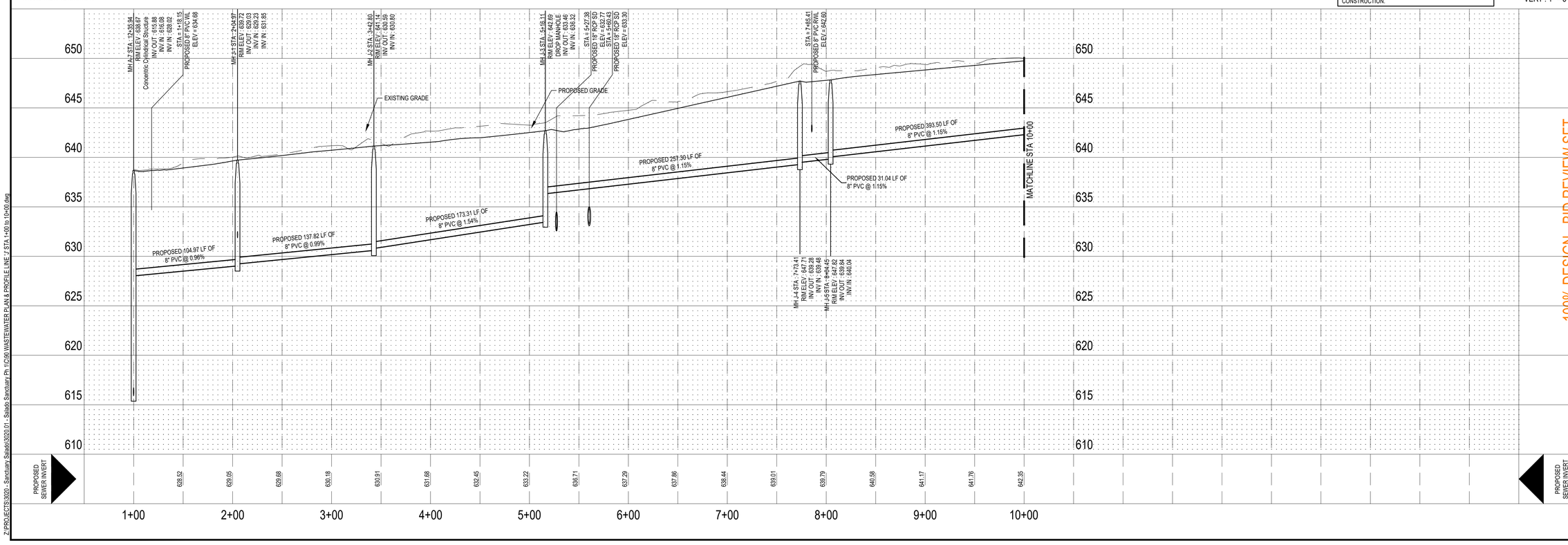
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS. PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

WASTEWATER LINE 'J'
STA 1+00 TO 10+00

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

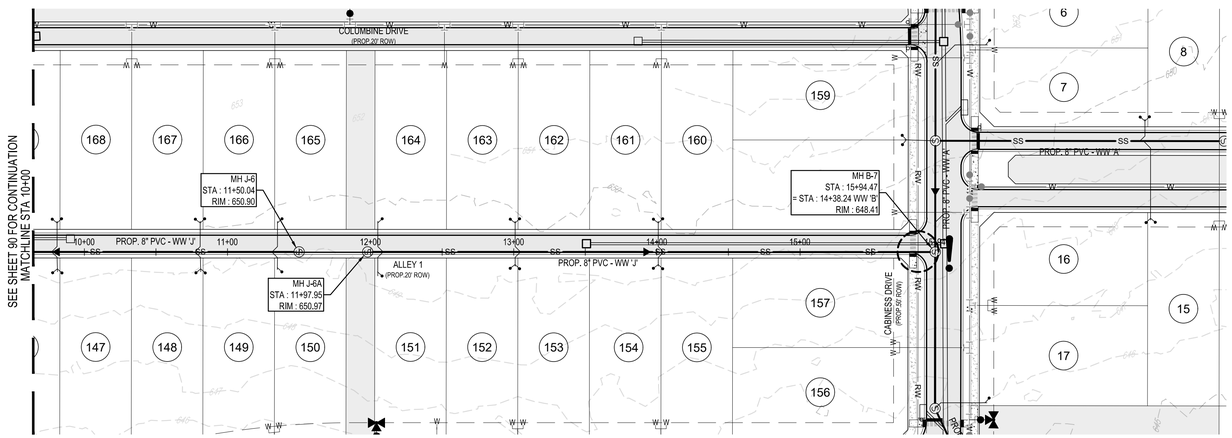
WASTEWATER PLAN & PROFILE LINE 'J'
STA 1+00 TO 10+00
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU213

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	90 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C90 WASTEWATER PLAN & PROFILE LINE 'J' STA 1+00 to 10+00.dwg

Date: Jul 23, 2019, 1:41pm User ID: mslva



WASTEWATER LINE 'J'
STA 10+00 TO END

TRENCH EXCAVATION SAFETY PROTECTION

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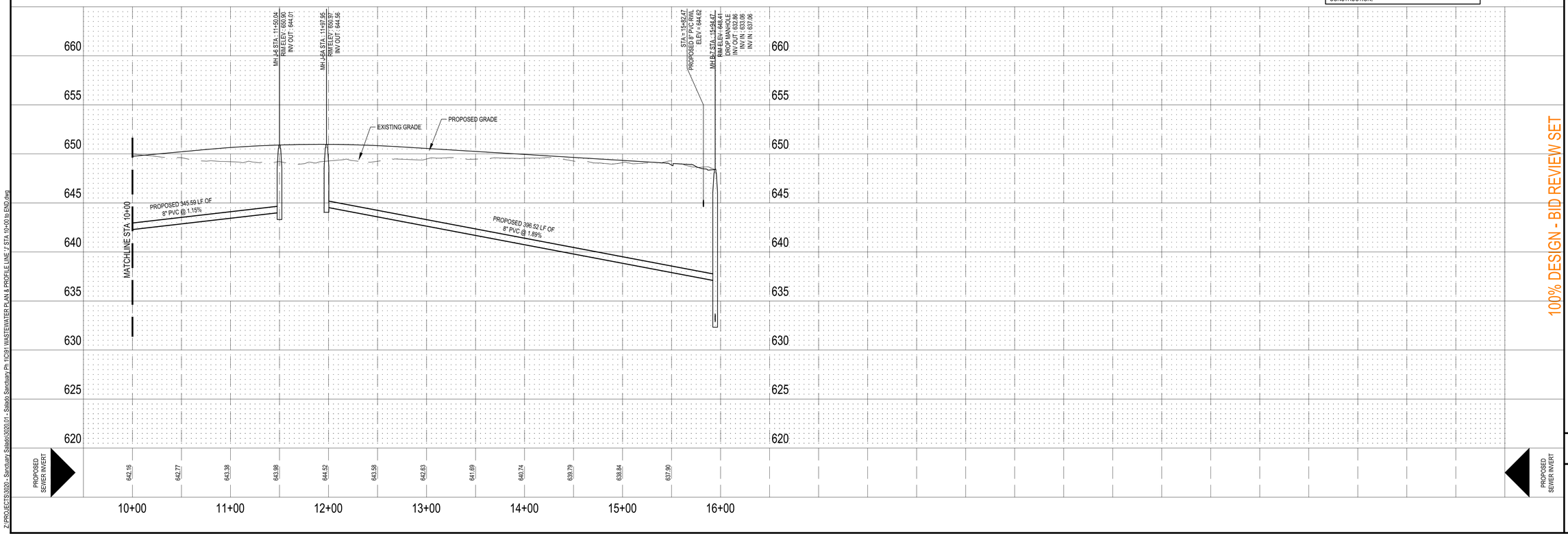
WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [DS. CU501] FOR UTILITY CROSSING DETAIL	!

SCALE: 1"=50'
0 25' 50' 75' 100'
SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
PRELIMINARY
6-5-2019

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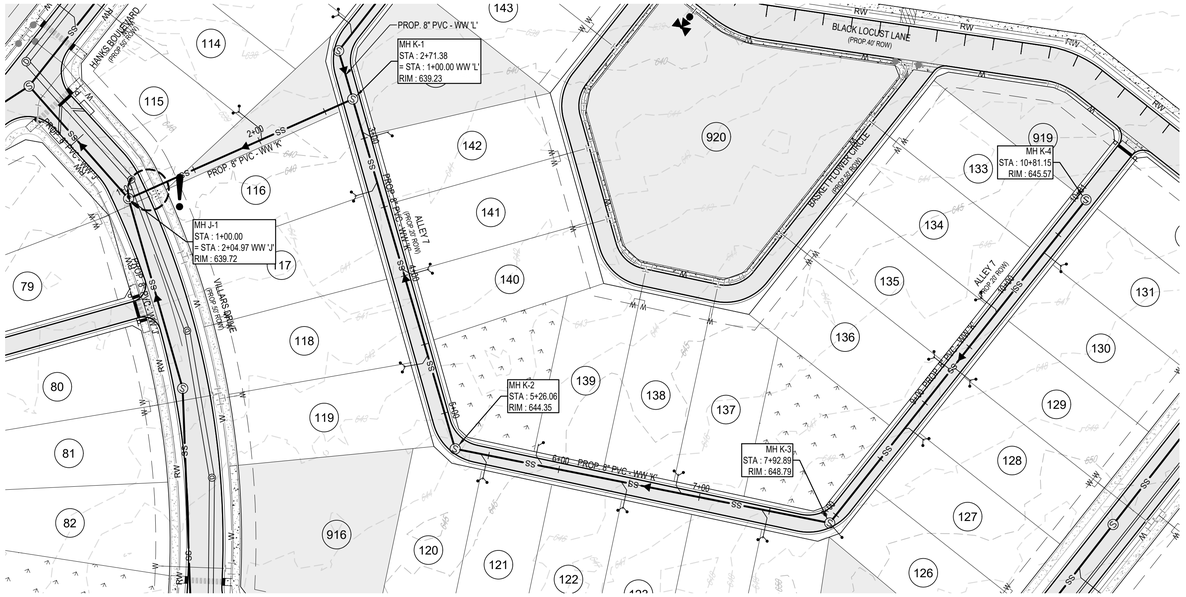
3303 SHELL ROAD, SUITE 100
CORPUS CHRISTI, TEXAS 78418
OFFICE: 512.868.2244
TEXAS REGISTERED SURVEYING FIRM F-10024000

WASTEWATER PLAN & PROFILE LINE 'J'
STA 10+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU214

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	91 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C91 WASTEWATER PLAN & PROFILE LINE 'J' STA 10+00 to END.dwg



LEGEND

OVERALL SUBDIVISION BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
PHASE LINE LIMITS	
PUBLIC UTILITY EASEMENT (P.U.E.)	
EXISTING 1' CONTOUR	874
EXISTING 5' CONTOUR	875
PROPOSED 1' CONTOUR	836
PROPOSED 5' CONTOUR	840
EXISTING FIBER OPTIC LINE	FO
EXISTING OVERHEAD ELECTRIC & TELEPHONE LINE	OET
EXISTING WATER LINE	Wx
PROPOSED WATER LINE	W
EXISTING SANITARY SEWER	SSx
PROPOSED SANITARY SEWER	SS
RIGHT OF WAY	ROW
FACE OF CURB	FOC
EDGE OF PAVEMENT	EOP
EXISTING FIRE HYDRANT	
EXISTING TELEPHONE BOX	
EXISTING SIGN	
EXISTING UTILITY POLE	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING CLEANOUT	
EXISTING SEWER MANHOLE	
PROPOSED SEWER MANHOLE	S
EXISTING GAS VALVE	
EXISTING ASPHALT PAVEMENT	
PROPOSED ASPHALT PAVEMENT	
PROPOSED CONCRETE SIDEWALK	
PAVEMENT SECTION TO BE CUT AND REPLACED	
DENOTES UTILITY CROSSING, SEE [09 C1501] FOR UTILITY CROSSING DETAIL	!

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER

PRELIMINARY

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TEXAS REGISTERED ENGINEERING FIRM F-9043 | LICENSED SURVEYING FIRM LF-10024600

3301 SHELL ROAD, SUITE 103
CORPUS CHRISTI, TEXAS 78026
OFFICE: 512.868.2244

TRENCH EXCAVATION SAFETY PROTECTION

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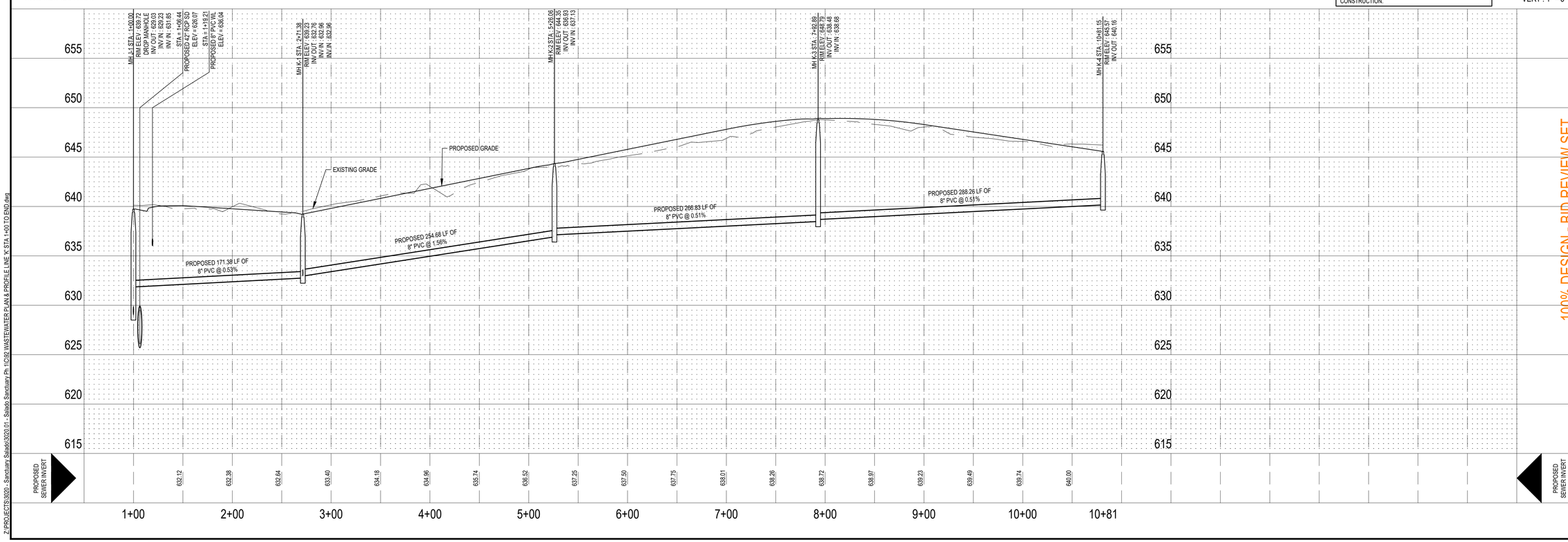
WASTEWATER LINE 'K'
STA 1+00 TO END

WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

PROFILE SCALE:
HORZ : 1" = 50'
VERT : 1" = 5'



100% DESIGN - BID REVIEW SET

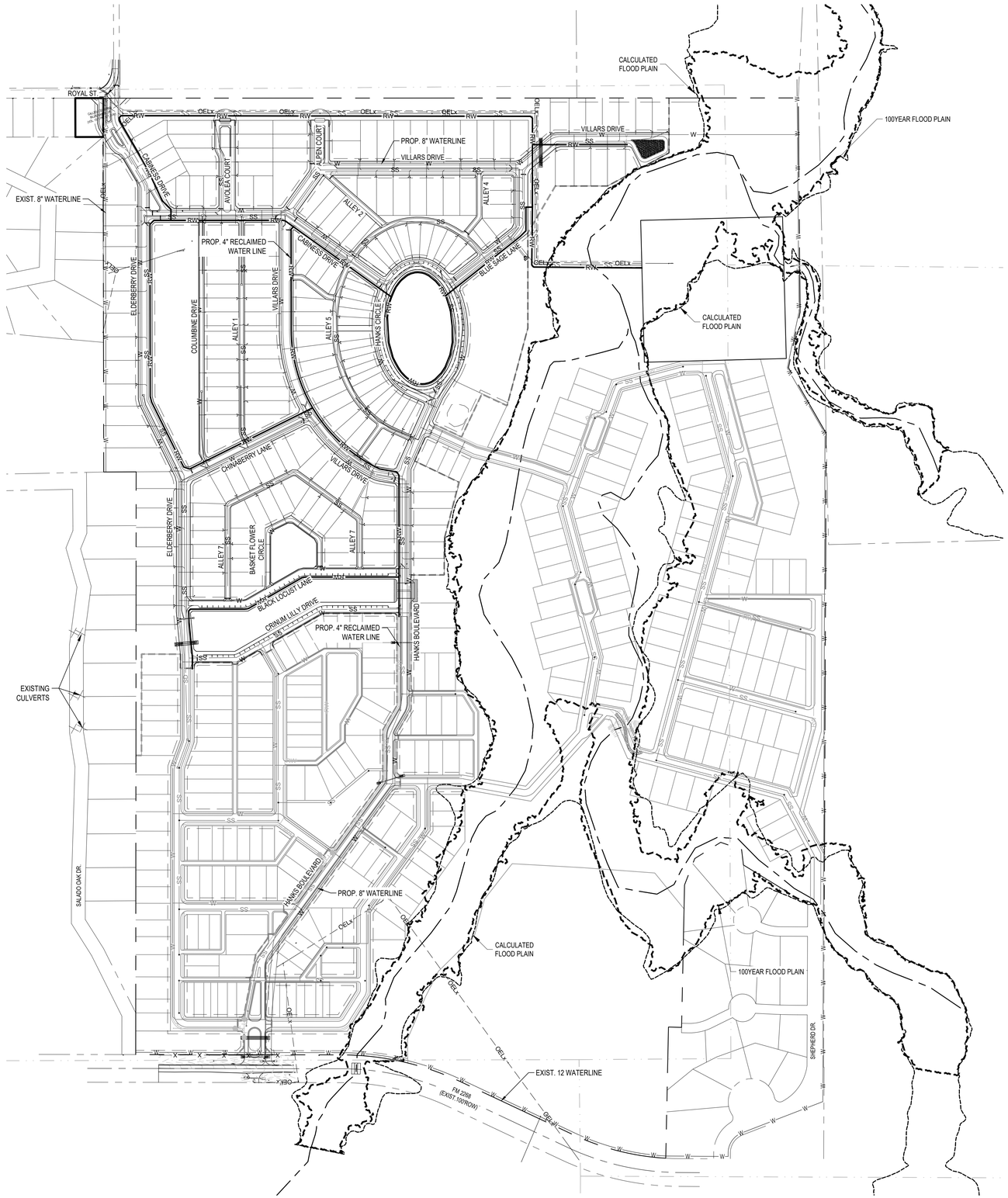
WASTEWATER PLAN & PROFILE LINE 'K'
STA 1+00 TO END
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU215

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	92 OF 100

Date: Jul 18, 2019, 9:41am User ID: cramsey

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\02 WASTEWATER PLAN & PROFILE LINE 'K' STA 1+00 TO END.dwg



LEGEND

PROPOSED LOT LINE	
PROPERTY BOUNDARY	
EXISTING 5' CONTOUR	600
EXISTING 1' CONTOUR	599
PROPOSED 8" WATER LINE	W
PROPOSED 8" SEWER LINE	SS
PROPOSED 4" RECLAIMED WATER LINE	RW
PROPOSED GAS MAIN	G
PROPOSED DUAL WATER SERVICE	W W
PROPOSED SINGLE WATER SERVICE	W
PHASE BOUNDARY	
DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL	!
PROPOSED FIRE HYDRANT	
EXISTING WATER LINE	Wx
EXISTING SEWER LINE	SSx
EXISTING FIRE HYDRANT	
EXISTING GATE VALVE	
PROPOSED GATE VALVE	
PROPOSED SEWER LATERALS	S
PROPOSED MANHOLE	S
EXISTING MANHOLE	
PROPOSED CLEANOUT	

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY.
REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

RECLAIMED WATER:

ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

N

SCALE: 1"=200'

0 100' 200' 300' 400'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

OVERALL PHASE I RECLAIMED WATER DISTRIBUTION PLAN

FOR

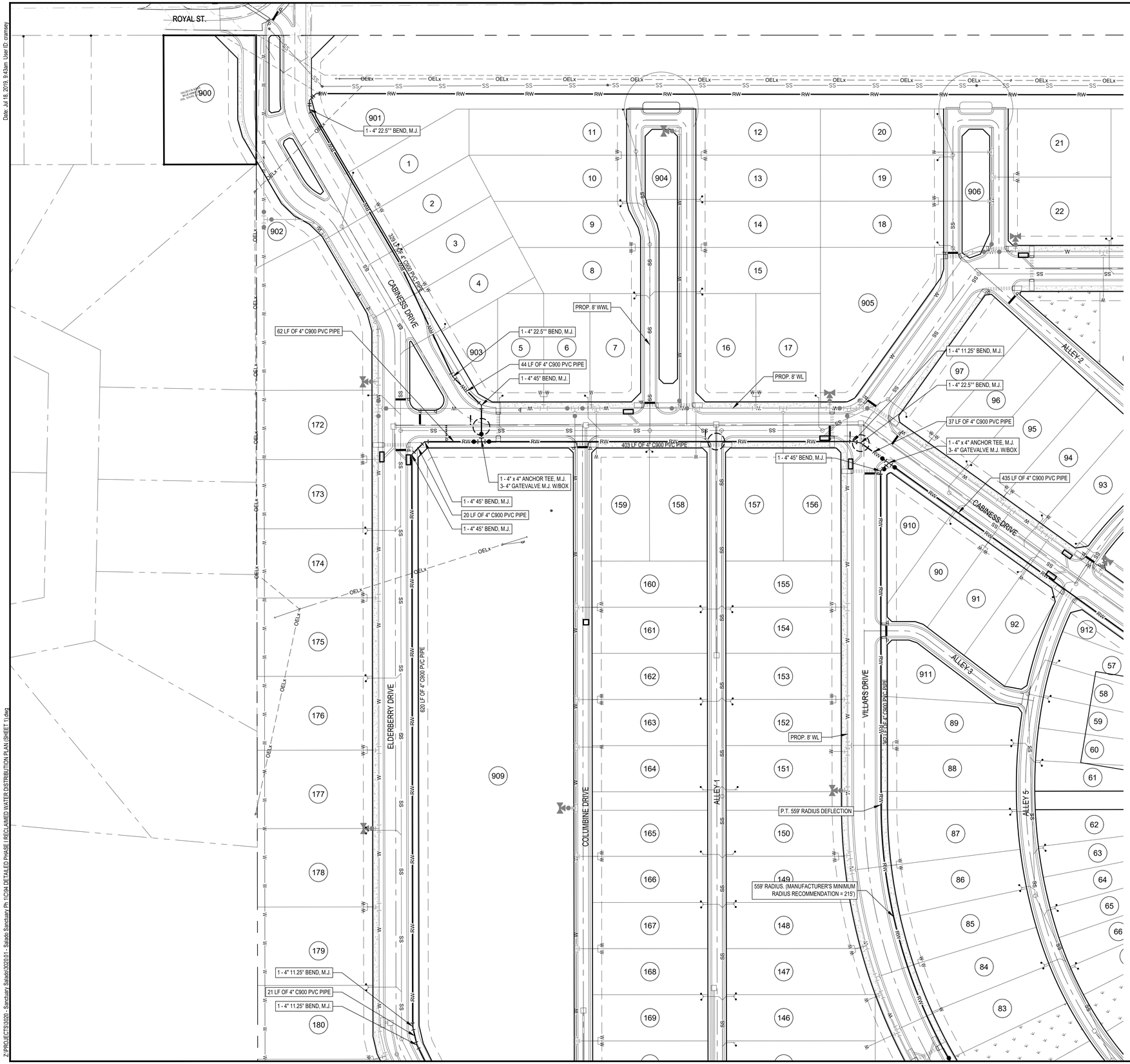
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU151

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	93 OF 100

Date: Jul 18, 2019, 9:42am User ID: czamsey
Z:\PROJECTS\3020\ - Sanctuary Salado\3020.01 - Salado Sanctuary Ph. 1\CD\3 OVERALL PHASE I RECLAIMED WATER DISTRIBUTION PLAN.dwg



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09. CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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3303 SHELL ROAD SUITE 100
GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 1)

FOR

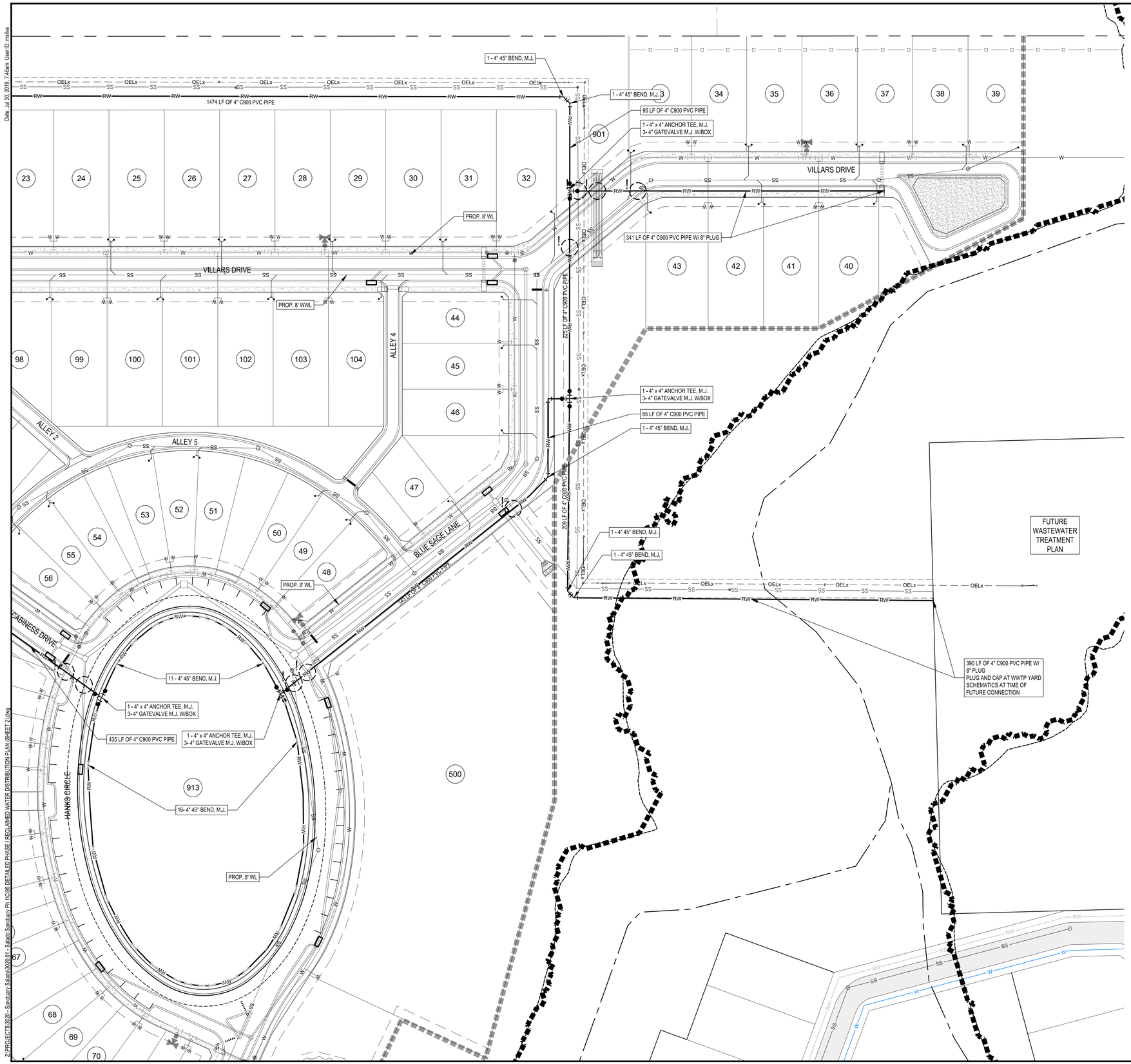
SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU152

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	94 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\04 DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 1).dwg
Date: Jul 18, 2019, 9:43am User ID: czamsey



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

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GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 2)

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

CU153

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	95 OF 100

Date: Jul 30, 2019, 7:46am User ID: mstva
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CI\05 DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 2).dwg

LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY.
REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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GEORGETOWN, TEXAS 78628
OFFICE: 512.868.2244
TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 3)

FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

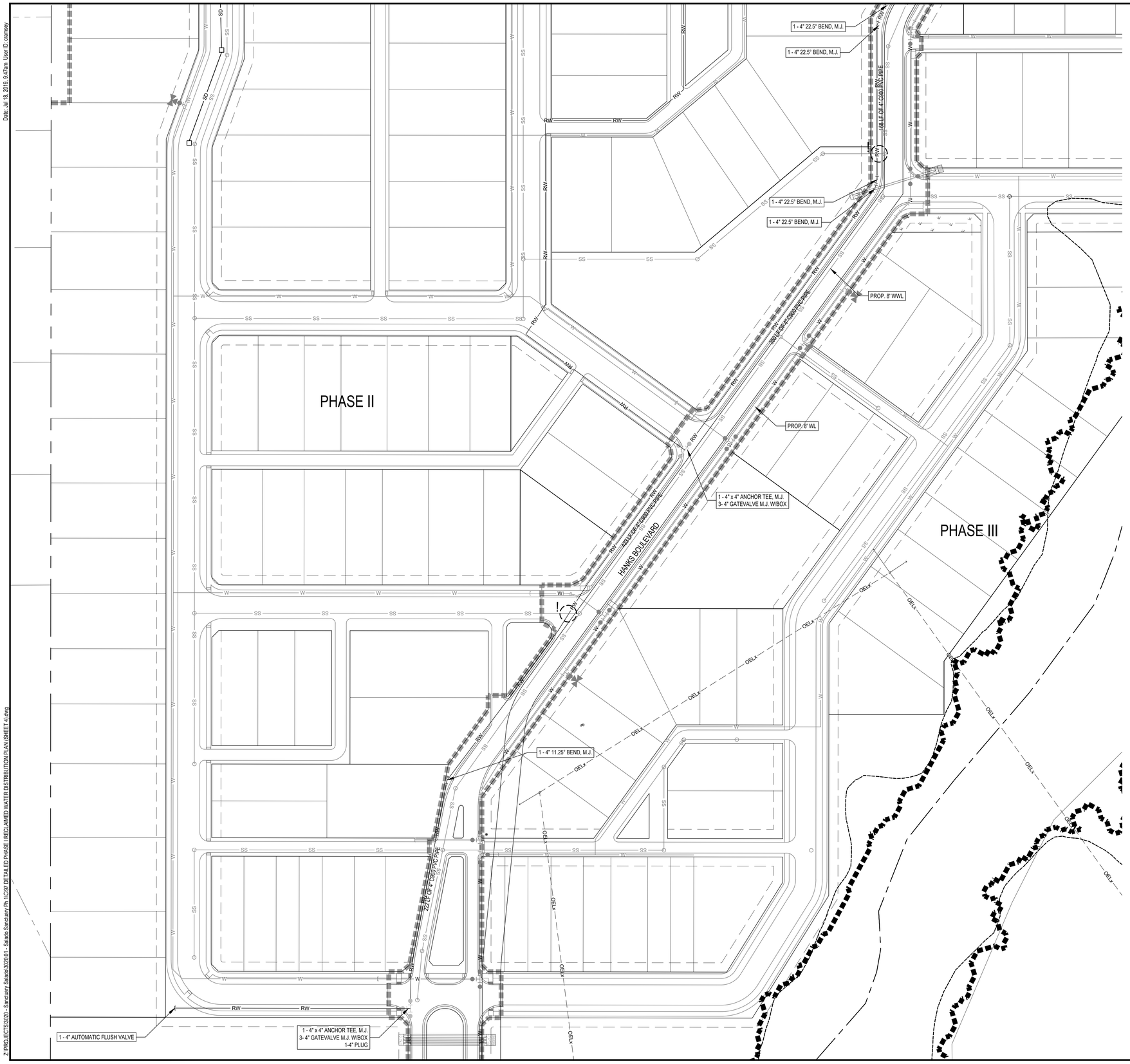
CU154

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	96 OF 100

Date: Jul 18, 2019, 9:46am User ID: czamsey
Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\C\96 DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN SHEET 3.dwg

Date: Jul 18, 2019, 9:47am User ID: czamsey

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph. 1\CS\7 DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 4).dwg



LEGEND

- PROPOSED LOT LINE
- PROPERTY BOUNDARY
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 8" WATER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 4" RECLAIMED WATER LINE
- PROPOSED GAS MAIN
- PROPOSED DUAL WATER SERVICE
- PROPOSED SINGLE WATER SERVICE
- PHASE BOUNDARY
- DENOTES UTILITY CROSSING. SEE [09, CU501] FOR UTILITY CROSSING DETAIL
- PROPOSED FIRE HYDRANT
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERALS
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CLEANOUT

NOTE:
ELECTRICAL LAYOUT IS SHOWN FOR INFORMATION ONLY.
REFER TO ELECTRICAL PLAN FOR FINAL LAYOUT

N

SCALE: 1"=50'

0 25' 50' 75' 100'

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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TEXAS REGISTERED ENGINEERING FIRM F-004513 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

DETAILED PHASE I RECLAIMED WATER DISTRIBUTION PLAN (SHEET 4)

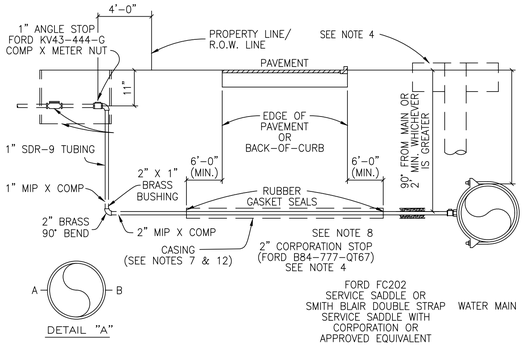
FOR

SALADO SANCTUARY, PHASE I

SALADO, TEXAS

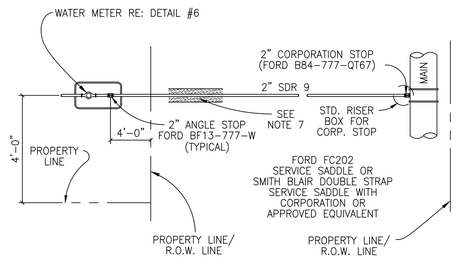
CU155

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	97 OF 100



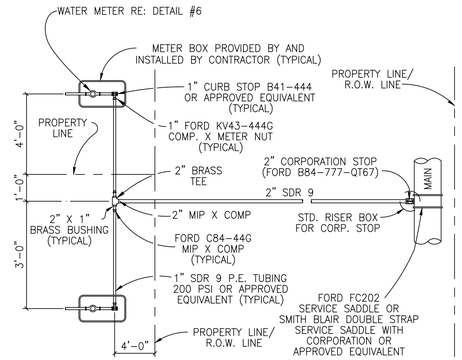
NOTES:
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT THE CENTERLINE AS SHOWN ON DETAIL "A".
2. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISHED GRADE.
3. AUTHORIZED SERVICE LINE MATERIAL: POLYETHYLENE TUBING SHALL BE SDR-9. CLASS 200, SDR TUBING SHALL HAVE STAINLESS STEEL STIFFENERS.
4. ROTATE THE CORPORATION STOP SO THAT THE OPERATING NUT IS ACTUATED FROM THE VERTICAL POSITION RATHER THAN THE HORIZONTAL. SEE STD. RISER FOR CORP. STOP DETAIL #5.
5. SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO CORPORATION STOP WITH NO FITTINGS IN BETWEEN.
6. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY.
7. CASING REQUIRED FOR ALL PAVEMENT CROSSINGS. 4" SDR-26 REQUIRED FOR OPEN-CUT. STEEL CASING PIPE REQUIRED FOR JACK AND BORE. LIMITS OF CASING SHOULD EXTEND SIX FEET BEYOND THE EDGE OF PAVEMENT OR BACK-OF-CURB.
8. BEDDING MATERIAL PER SPECIFICATIONS.
9. ANY VARIATIONS ON FITTINGS MUST BE APPROVED BY THE ENGINEER.
10. METER BOX TO BE CAPABLE OF HOUSING ITRON AUTOMATIC METER READING DEVICE. USE DFW-PLASTICS, INC. PART NO. 1200.SBAMR OR APPROVED EQUAL.
11. ALL SERVICE LINES SHALL BE PLACED 90° PERPENDICULAR TO THE ROADWAY.
12. CASING SHALL EXTEND OUT TO WITHIN 4' INSIDE OF THE R.O.W. LINE, ON BOTH SIDES.

01 TYPICAL WATER SERVICE ELEVATION
SCALE : NTS



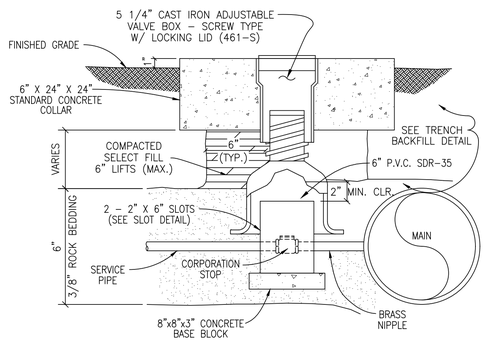
NOTES:
1. AUTHORIZED SERVICE LINE MATERIAL: POLYETHYLENE TUBING SHALL BE SDR-9. CLASS 200, SDR TUBING SHALL HAVE STAINLESS STEEL STIFFENERS.
2. ANGLE STOP SHALL BE 1" MINIMUM.
3. 1" ANGLE STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" IN DIAMETER SHALL BE HANDLED ON AN INDIVIDUAL BASIS.
5. ANGLE STOPS 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH BOTH A LOCKING CAP AND METER FLANGE.
6. ANGLE STOPS SHALL BE INSTALLED 8" BELOW FINISHED GRADE AND MARKED WITH A 2" X 2" X 48" TREATED WOOD STAKE, PAINTED BLUE.
7. BEDDING MATERIAL PER SPECIFICATIONS.
8. CASING REQUIREMENTS FOR SERVICE LINES CROSSING ROADWAYS SEE DETAIL #2, NOTE #7.
9. ANY VARIATIONS ON FITTINGS MUST BE APPROVED BY THE ENGINEER.
10. ALL SERVICE LINES SHALL BE PLACED 90° PERPENDICULAR TO THE ROADWAY.

02 TYPICAL SINGLE WATER SERVICE PLAN
SCALE : NTS

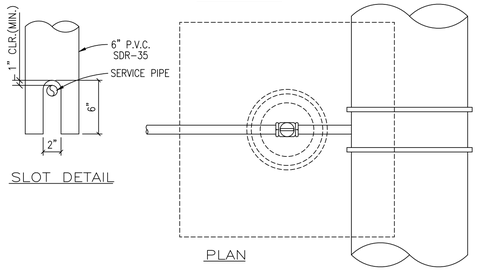


NOTES:
1. AUTHORIZED SERVICE LINE MATERIAL: POLYETHYLENE TUBING SHALL BE SDR-9. CLASS 200, SDR TUBING SHALL HAVE STAINLESS STEEL STIFFENERS.
2. ANGLE STOP SHALL BE 1" MINIMUM.
3. 1" ANGLE STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" IN DIAMETER SHALL BE HANDLED ON AN INDIVIDUAL BASIS.
5. ANGLE STOPS 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH BOTH A LOCKING CAP AND METER FLANGE.
6. ANGLE STOPS SHALL BE INSTALLED 8" BELOW FINISHED GRADE AND MARKED WITH A 2" X 2" X 48" TREATED WOOD STAKE, PAINTED BLUE.
7. BEDDING MATERIAL PER SPECIFICATIONS.
8. CASING REQUIREMENTS FOR SERVICE LINES CROSSING ROADWAYS SEE DETAIL #2, NOTE #7.
9. ANY VARIATIONS ON FITTINGS MUST BE APPROVED BY THE ENGINEER.
10. ALL SERVICE LINES SHALL BE PLACED 90° PERPENDICULAR TO THE ROADWAY.

03 TYPICAL DOUBLE WATER SERVICE PLAN
SCALE : NTS



ELEVATION



SLOT DETAIL

PLAN

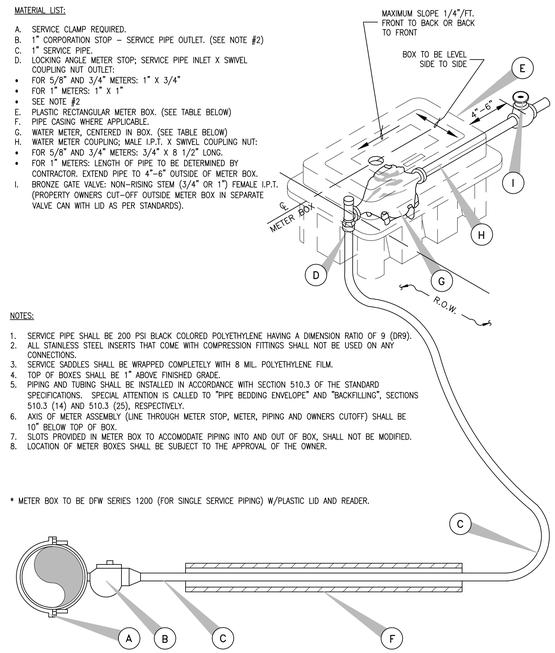
04 STANDARD RISER BOX FOR CORPORATION STOP
SCALE : NTS

MATERIAL LIST:

A. SERVICE CLAMP REQUIRED.
B. 1" CORPORATION STOP - SERVICE PIPE OUTLET. (SEE NOTE #2)
C. 1" SERVICE PIPE.
D. LOCKING ANGLE METER STOP; SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
- FOR 5/8" AND 3/4" METERS: 1" X 3/4"
- FOR 1" METERS: 1" X 1"
- SEE NOTE #2

E. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
F. PIPE CASING WHERE APPLICABLE.
G. WATER METER, CENTERED IN BOX. (SEE TABLE BELOW)
H. WATER METER COUPLING; MALE I.P.T. X SWIVEL COUPLING NUT:
- FOR 5/8" AND 3/4" METERS: 3/4" X 8 1/2" LONG.
- FOR 1" METERS: LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR. EXTEND PIPE TO 4"-6" OUTSIDE OF METER BOX.

I. BRONZE GATE VALVE; NON-RISING STEM (3/4" OR 1") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER STANDARDS).



NOTES:

1. SERVICE PIPE SHALL BE 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
8. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

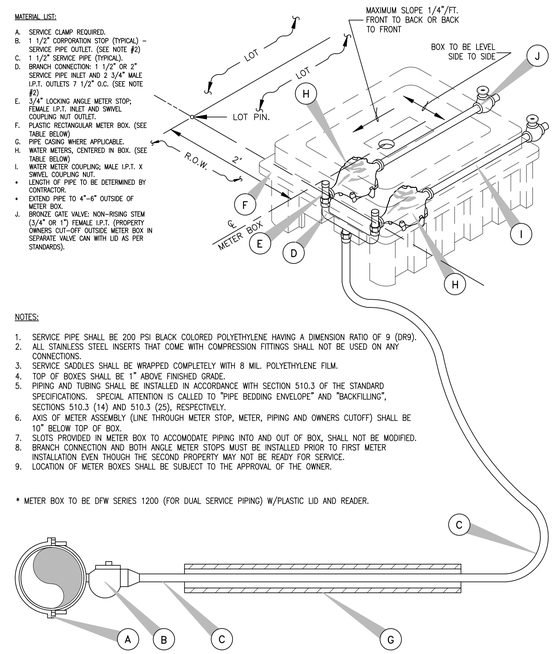
* METER BOX TO BE DFW SERIES 1200 (FOR SINGLE SERVICE PIPING) W/PLASTIC LID AND READER.

05 SINGLE SERVICE WATER METER DETAIL
SCALE : NTS

MATERIAL LIST:

A. SERVICE CLAMP REQUIRED.
B. 1 1/2" CORPORATION STOP (TYPICAL) - SERVICE PIPE OUTLET. (SEE NOTE #2)
C. 1 1/2" SERVICE PIPE (TYPICAL).
D. BRANCH CONNECTION: 1 1/2" OR 2" SERVICE PIPE INLET AND 2 3/4" MALE I.P.T. OUTLETS 7 1/2" O.C. (SEE NOTE #2).
E. 3/4" LOCKING ANGLE METER STOP; FEMALE I.P.T. INLET AND SWIVEL COUPLING NUT OUTLET.
F. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
G. PIPE CASING WHERE APPLICABLE.
H. WATER METERS, CENTERED IN BOX. (SEE TABLE BELOW)
I. WATER METER COUPLING; MALE I.P.T. X SWIVEL COUPLING NUT.
- LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR.
- EXTEND PIPE TO 4"-6" OUTSIDE OF METER BOX.

J. BRONZE GATE VALVE; NON-RISING STEM (3/4" OR 1") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER STANDARDS).

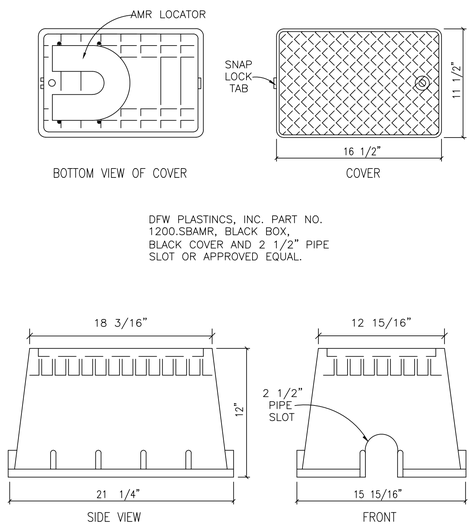


NOTES:

1. SERVICE PIPE SHALL BE 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
8. BRANCH CONNECTION AND BOTH ANGLE METER STOPS MUST BE INSTALLED PRIOR TO FIRST METER INSTALLATION EVEN THOUGH THE SECOND PROPERTY MAY NOT BE READY FOR SERVICE.
9. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

* METER BOX TO BE DFW SERIES 1200 (FOR DUAL SERVICE PIPING) W/PLASTIC LID AND READER.

06 DOUBLE SERVICE WATER METER DETAIL
SCALE : NTS



DFW PLASTINCS, INC. PART NO.
1200.SBAMR, BLACK BOX,
BLACK COVER AND 2 1/2" PIPE
SLOT OR APPROVED EQUAL.

07 METER BOX (NON-TRAFFIC AREAS)
SCALE : NTS

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

PRELIMINARY

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

100% DESIGN - BID REVIEW SET

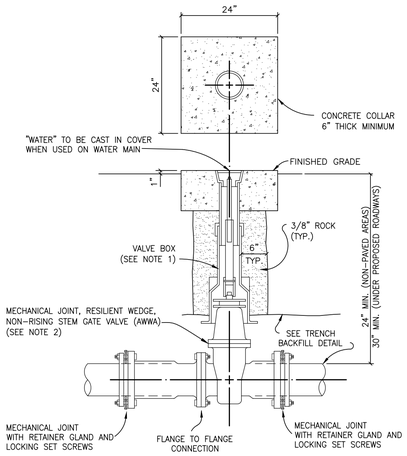
CIVIL UTILITY DETAILS (SHEET 1)
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU501

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	98 OF 100

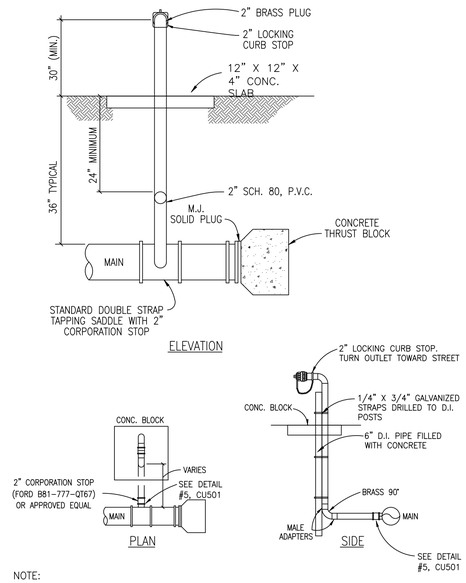
Date: Jul 18, 2019, 9:48am User ID: czamsey
Z:\PROJECTS\3020\ - Sanctuary\Salado\3020.01 - Salado Sanctuary Ph 1\CS\8 3020\00 CIVIL UTILITY DETAILS (SHEET 1).dwg

Date: Jul 18, 2019, 9:48am User ID: czamsey



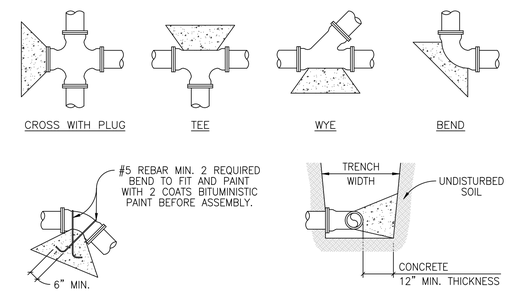
NOTES:
1. VALVE BOX SHALL BE AMERICAN FLOW CONTROL TRENCH ADAPTER OR APPROVED EQUAL HAVING AN ADJUSTABLE RANGE OF + OR – 6 INCHES FROM INSTALLED FINISH GRADE.
2. ACCEPTABLE GATE VALVES ARE:
   A. AMERICAN FLOW CONTROL – SERIES 2500
   B. MUELLER – 2360 SERIES
   C. CLOW

01 INLINE WATER VALVE INSTALLATION
SCALE : NTS



NOTE:
1. ATTACH FIRE HYDRANT CONNECTION AT THE END OF THE BLOW OFF VALVE.

02 STANDARD WATER MAIN BLOW-OFF DETAIL
SCALE : NTS



*DEADMAN

TYPICAL SECTION

ALL THRUST BLOCKS SHALL BE FORMED. LAID FORMS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY THE ENGINEER PRIOR TO COVERING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTION (THRUST) BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER. CONCRETE SHALL HAVE 2,500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS, AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUEEN OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

PIPE SIZE	THRUST BLOCK AREA REQUIRED	PIPE SIZE	THRUST BLOCK AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BENDS, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 33% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES, THE AREA REQUIRED IS IN DIRECT PROPORTION.
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

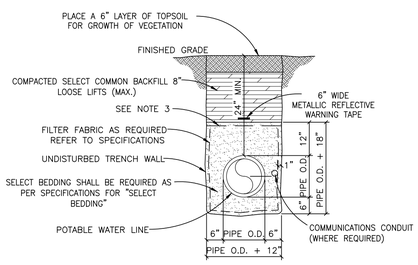
03 TYPICAL THRUST BLOCKS FOR WATER AND FORCE MAIN
SCALE : NTS

PIPE SIZE	JOINT TYPE	MINIMUM REQUIRED RESTRAINED LENGTH
6 INCH	90° BEND	5 FEET
6 INCH	45° BEND	5 FEET
6 INCH	DEAD END (GATE VALVE)	12 FEET
6 INCH X 6 INCH	TEE	* 5 FEET (MAIN) 5 FEET (BRANCH)

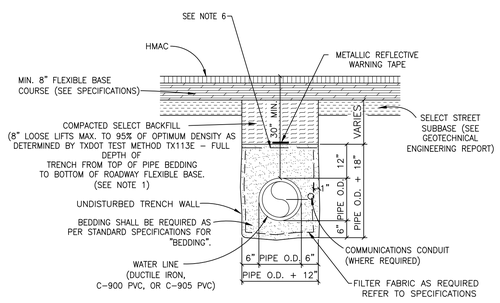
* CALCULATION BASED ON JOINTS ON THE MAIN BRANCH A MINIMUM OF 5 FEET FROM THE TEE.

NOTES:
1. CONTRACTOR TO MAXIMIZE JOINT SPACING FROM FITTING AND VALVES WHERE POSSIBLE.
2. CALCULATIONS SPECIFIC TO THIS PROJECT SPECIFIED PIPE EMBEDMENT AND A 60 PSI OPERATING PRESSURE.
3. RESTRAINED LENGTH REFERS TO A DISTANCE FROM A FITTING WHERE ALL JOINTS WITHIN THIS DISTANCE MUST BE RESTRAINED. THE RESTRAINED LENGTH DOES NOT SPECIFY THE JOINT RESTRAINT TYPE OR METHOD. JOINT RESTRAINT TYPE AND METHODS SHALL BE INCLUDED IN PROJECT SUBMITTALS, AND APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
4. ALL-THREADED RODS SHALL BE USED FOR JOINT RESTRAINTS WHERE FITTINGS ARE WITHIN 5 FEET OF EACH OTHER. INDIVIDUAL JOINT HARNESSES OR BOLT-ON FLANGE ASSEMBLIES CAN BE INSTALLED ELSEWHERE.

04 JOINT RESTRAINT CALCULATION TABLE
SCALE : NTS

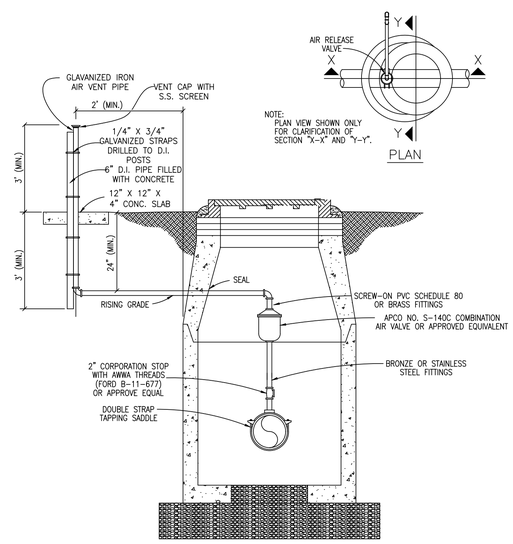


05 TRENCH AND EMEDMENT DETAIL (UNDER NON-PAVED AREAS)
SCALE : NTS



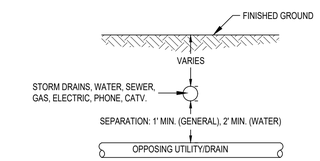
NOTES:
1. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY TWO HUNDRED (200) FEET FOR EACH EIGHT (8) INCH LIFT OF SELECT BACKFILL. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY OR THE PERMITTEE'S CONSULTANTS. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO THE OWNER. BACKFILL COMPACTION SHALL BE A MINIMUM 95% OF OPTIMUM DENSITY AS DETERMINED BY TxDOT 113E TEST METHOD.
2. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
3. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE, FLEXIBLE BASE AND PAVEMENT REQUIREMENTS.

06 TRENCH AND EMBEDMENT DETAIL (UNDER PROPOSED ROADWAYS)
SCALE : NTS



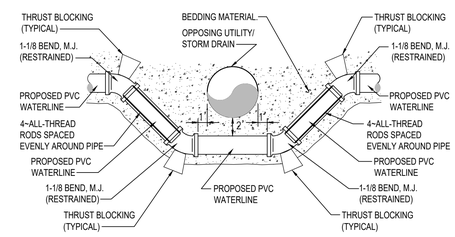
SECTION "Y–Y"

07 STANDARD AIR RELEASE VALVE FOR WATER MAIN
SCALE : NTS



NOTES:
1. IF EITHER UTILITY SHOWN IS SEWER, REFER TO 30 TAC CHAPTER. 290.44(e) AND 217.13 APPENDIX E FOR TCEQ SEPARATION DISTANCE AND PROTECTION REQUIREMENTS.
2. IF SEPARATION CANNOT BE ATTAINED, CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER AND APPLICABLE UTILITY COMPANY FOR ALTERNATE MEASURES.
3. IF SEPARATION CANNOT BE ATTAINED FOR WATERLINE, REFER TO TYPICAL WATER LOWERING DETAIL.

08 TYPICAL UTILITY CROSSING DETAIL
SCALE : NTS



NOTES:
1. REFER TO TYPICAL UTILITY CROSSING DETAIL ON THIS SHEET FOR INSTALLATION AT SEWER AND WATER CROSSINGS.

09 TYPICAL WATER LOWERING DETAIL
SCALE : NTS

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED
PROFESSIONAL ENGINEER
6-5-2019

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TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-10024000

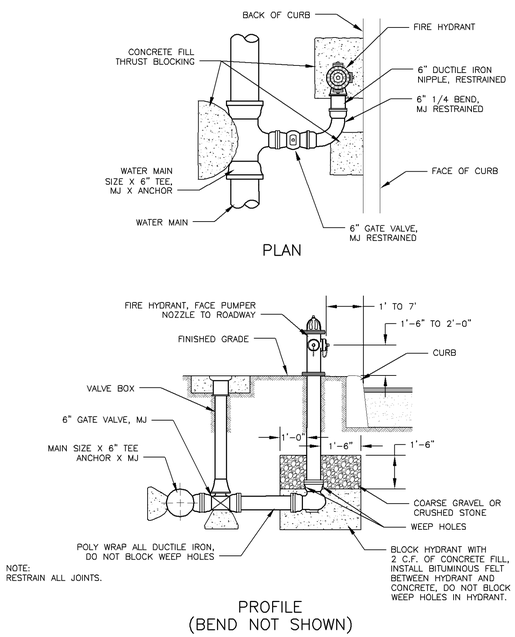
100% DESIGN - BID REVIEW SET

CIVIL UTILITY DETAILS (SHEET 2)
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

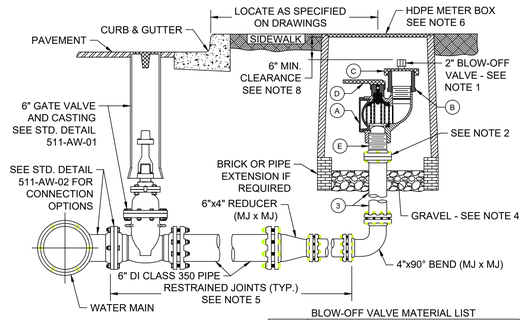
CU502

JOB NO.	3020.01
DESIGNED BY:	JF/DAP
DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	99 OF 100

Z:\PROJECTS\3020 - Sanctuary Salado\3020.01 - Salado Sanctuary Ph 1\CD\8 3020\00 CIVIL UTILITY DETAILS (SHEET 2).dwg



01 FIRE HYDRANT ASSEMBLY
SCALE : NTS



BLOW-OFF VALVE MATERIAL LIST

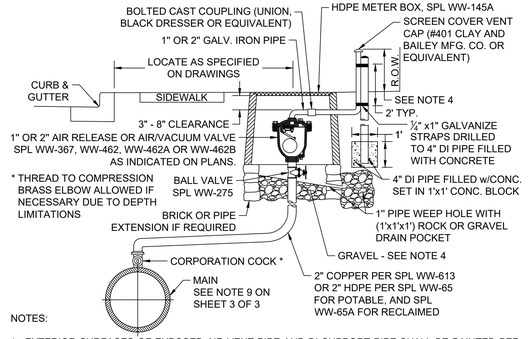
ITEM #	DESCRIPTION
A	ASSY, 2" OFFSET BALL VALVE 2FIP x 2MIP
B	ADAPTER 2" FEMALE NPT x 2 ½ MALE NHT
C	CAP, 2 ½ NHT PIN LUG, PAINTED PURPLE
D	LEVER HANDLE, PAINTED PURPLE
E	2" NIPPLE 4" LONG

NOTES:

1. 2" BLOW-OFF VALVE FOR RECLAIMED WATER PER SPL WW-3A.
2. 2"x9" 125# REDUCING COMPANION FLANGE (MANUFACTURED BY SMITH-COOPER INTERNATIONAL OR EQUIVALENT.)
3. 4" DI CLASS 350 PIPE (PE x FLG).
4. 6" MIN. DEPTH COMPACTED COARSE GRAVEL OR BROKEN STONE.
5. BLOW-OFF VALVE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO BLOW-OFF VALVE. JOINTS SHOWN MAY VARY. SEE SPL WW-27, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.
6. HDPE METER BOX SHALL BE RECTANGULAR, COMMERCIAL METER BOX FOR RECLAIMED WATER PER SPL WW-145A.
7. METER BOX AND BLOW-OFF VALVE SHALL NOT BE LOCATED IN A SIDEWALK, DRIVEWAY, PEDESTRIAN WAY OR TRAFFIC WAY. BLOW-OFF VALVES SHALL BE LOCATED AS SHOWN ON APPROVED PLANS.
8. BLOW-OFF VALVE MUST BE FREE TO MOVE VERTICALLY WITHIN THE METER BOX, IN ORDER TO PREVENT THE TRANSMISSION LOADS TO THE BLOW-OFF VALVE.

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

02 2" NON-TRAFFIC RATED RECLAIMED BLOW OFF VALVE
SCALE : NTS



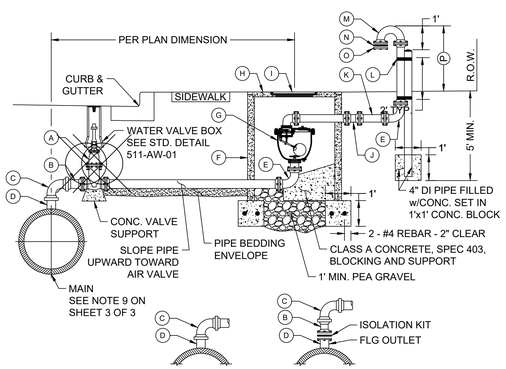
NOTES:

1. EXTERIOR SURFACES OF EXPOSED AIR VENT PIPE AND DI SUPPORT PIPE SHALL BE PAINTED PER SPL WW-3C. POTABLE WATER PIPE SHALL BE PAINTED SAFETY BLUE.
2. AIR VENT PIPE INSTALLATION SHALL BE AS NEAR AS PRACTICAL TO RIGHT-OF-WAY LINE WITH MINIMUM CLEARANCE OF 18" FROM ANY OBSTACLE.
3. HDPE METER BOX PENETRATION SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED WITH LINKSEAL LS 300 OR APPROVED EQUAL.
4. COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH SAND SLOPED TO DRAIN.
5. IN UNDEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 4' MIN. IN HEIGHT SUPPORTED BY A 4" DIA. DI PIPE WHICH HAS BEEN FILLED WITH CONCRETE (SUPPORT PIPE SHALL BE 6' LONG, BURIED IN CLASS A CONCRETE OR CLSM 3' BELOW FINAL GRADE AND EXTENDING 3' ABOVE FINAL GRADE). INSTALL ONE DELINEATOR STAKE WITHIN 3' OF THE VAULT ON THE VEHICULAR ACCESS SIDE OF VAULT OR AS DIRECTED BY AUSTIN WATER. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES. IN DEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 8" - 12" IN HEIGHT AND LOCATED NOT TO CONFLICT WITH SIDEWALK, DRIVEWAY, OR OTHER PEDESTRIAN TRAFFIC.
6. THE AIR VALVE AND ASSOCIATED PIPING SHALL BE INSTALLED ABOVE THE HIGHEST ELEVATION OF THE WATER MAIN. AIR VALVE PIPING, FROM THE WATER MAIN TO THE AIR VALVE, SHALL MAINTAIN A CONSTANT RISE, WITH NO DIPS, TO THE TOP OF THE GROUND.

1" - 2" AIR RELEASE OR AIR/VACUUM VALVE INSTALLATION - TYPE I

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

03 AIR RELEASE AND AIR-VACUUM VALVE DETAIL 1
SCALE : NTS



A. GATE VALVE (FLG x FLG). GATE VALVE SHALL NOT BE INSTALLED DIRECTLY ABOVE WATER MAIN.
B. PIPE FLG x FACTORY RESTRAINED JOINT SPIGOT END.
C. 90° BEND w/FACTORY RESTRAINED JOINT BELL ENDS, SPL WW-27F.
D. FOR DI MAIN: WELDED-ON OUTLET w/FACTORY RESTRAINED JOINT SPIGOT END.
FOR STEEL/CSC MAIN: WELDED-ON FLANGED OUTLET w/ISOLATION KIT AND FLG x FACTORY RESTRAINED SPIGOT END.
E. 90° BEND (FLG x FLG).
F. CLASS III RCP VAULT 60" MIN. I.D.
G. AIR RELEASE VALVE w/GOOSENECK PER AIR RELEASE VALVES FOR WATER SPL WW-367 OR AIR RELEASE/VACUUM RELIEF VALVES FOR POTABLE WATER SPL WW-462A OR AIR RELEASE/VACUUM RELIEF VALVES FOR RECLAIMED WATER SPL WW-462B OR AIR RELEASE/AIR VACUUM VALVE FOR WASTEWATER SPL WW-462B.
H. REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING).
I. COA FRAME AND 32" COVER WITH LETTERING MODIFIED FOR WATER.
J. BOLTED CAST COUPLING (SMITH-BLAIR 441 OMNI CAST COUPLING OR APPROVED EQUAL).
K. AIR VENT PIPE, 3" PIPE - GALVANIZED IRON, 4" AND LARGER PIPE - DI ONLY.
L. ¼" x1" GALVANIZE STRAPS DRILLED TO 4" DI PIPE FILLED w/CONCRETE (SEE NOTE 7).
M. RETURN BEND (FLG x FLG).
N. No. 16 MESH BRASS CLOTH
O. COMPANION FLANGE (SEE NOTE 5).
P. 4' MIN. - UNDEVELOPED AREAS.

3" OR LARGER AIR/VACUUM VALVE INSTALLATION - TYPE II

04 AIR RELEASE AND AIR-VACUUM VALVE DETAIL 2
SCALE : NTS

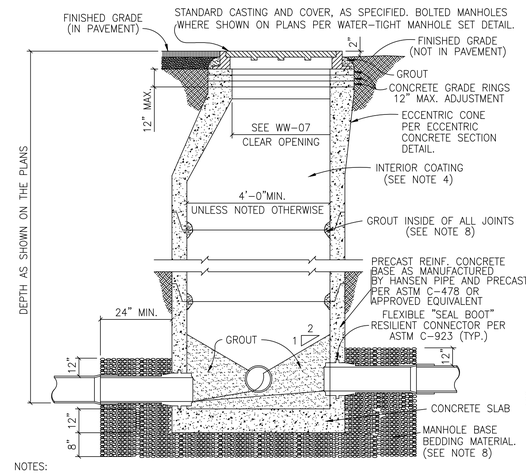
NOTES:

1. ON 10" AND LARGER TWO PIECE COMBINATION AIR VALVES, THE OUTLET PIPING OF THE SMALL VALVE SHALL BE VENTED WITHIN THE VAULT INTO THE LARGER VENT PIPE
2. AIR VENT PIPE 6" AND LARGER SHALL BE DI (CLASS 350 MIN.) PIPE FLANGE FITTINGS AND EXTERIOR SURFACES OF ALL EXPOSED PIPE SHALL BE PAINTED PER SPL WW-3C. POTABLE WATER PIPE SHALL BE PAINTED SAFETY BLUE. SURFACE PREPARATION SHALL BE PER PAINT MANUFACTURER'S REQUIREMENTS.
3. ENTIRE AIR VENT ASSEMBLY SHALL BE LOCATED WITHIN EASEMENT OR R.O.W.
4. CONCRETE PIPE PENETRATIONS SHALL BE CORE BIT DRILLED. VOID SHALL BE SEALED w/LINKSEAL LS 300 OR APPROVED EQUAL.
5. CROSS SECTIONAL AREA OF OPENING TO BE EQUAL TO OR GREATER THAN CROSS SECTIONAL AREA OF AIR VENT PIPE.
6. AIR/VACUUM VALVE SHALL BE INSTALLED IN A MANNER WHICH WILL ALLOW REMOVAL OF ASSEMBLY WITHOUT REMOVAL OF PRECAST CONCRETE LID.
7. IN UNDEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 4' MIN. IN HEIGHT SUPPORTED BY A 4" DIA. DI PIPE WHICH HAS BEEN FILLED WITH CONCRETE (SUPPORT PIPE SHALL BE 6' LONG, BURIED IN CLASS A CONCRETE OR CLSM 3' BELOW FINAL GRADE AND EXTENDING 3' ABOVE FINAL GRADE). INSTALL ONE DELINEATOR STAKE WITHIN 3' OF THE VAULT ON THE VEHICULAR ACCESS SIDE OF VAULT OR AS DIRECTED BY AUSTIN WATER. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES. IN DEVELOPED AREAS, THE AIR VENT PIPE SHALL BE LOCATED NOT TO CONFLICT WITH SIDEWALK, DRIVEWAY, OR OTHER PEDESTRIAN TRAFFIC.
8. GATE VALVE, PIPE, AND FITTINGS FROM MAIN TO ARV SHALL BE OF EQUAL DIAMETER AS THE AIR VALVE EXCEPT 3" ARV SHALL HAVE 4" FITTINGS AND A 4"x3" REDUCER AT THE ARV, AND ALL PIPE AND FITTINGS ON THE OUTLET SIDE OF THE ARV SHALL BE EQUAL TO THE SIZE OF THE OUTLET OF THE ARV. VAULTS SHALL BE 5' DIAMETER FOR 3" VALVE; 6' DIAMETER FOR 4", 6", AND 8" VALVES; AND 7' DIAMETER FOR 10" AND 12" VALVES.
9. FOR 24" AND LARGER MAINS, AN 18" OUTLET WITH BLIND FLANGE SHALL BE INSTALLED AT CONNECTION OF ARV.

3" OR LARGER AIR/VACUUM VALVE INSTALLATION - TYPE II

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

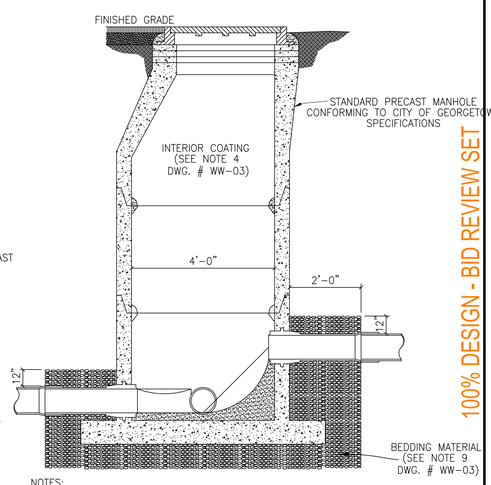
05 AIR RELEASE AND AIR-VACUUM VALVE DETAIL 3
SCALE : NTS



NOTES:

1. MANHOLES SHALL BE PRECAST ASTM C-478 BELL AND SPIGOT WITH PROFILE GASKET - SINGLE OFF-SET JOINTS.
2. SEE PLANS AND MANHOLE SCHEDULE, FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZE AND TYPES.
3. SEE SPECIFICATIONS ON MATERIALS AND CONSTRUCTION.
4. AN 80 MIL. COAT OF RAVEN LINING SYSTEMS, RAVEN 405 ULTRA HIGH BUILD EPOXY COATING, OR SPRAY WALL EPOXY COATING, OR APPROVED EQUAL, TO BE APPLIED TO ENTIRE INTERIOR OF EACH WASTEWATER MANHOLE AND UNDERSIDE OF FLAT TOPS.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETTED WHEN MANHOLES ARE LOCATED OUT FROM PAVEMENT.
6. MANHOLES TO BE VENTED ARE IDENTIFIED ON MANHOLE SCHEDULE. REFERENCE MANHOLE VENT DETAIL.
7. MANHOLES ARE TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR HS-20 TRAFFIC LOADS.
8. GROUT SHALL MEET THE REQUIREMENTS AS STATED BY THE COATING MANUFACTURER.
9. MANHOLE BASE BEDDING MATERIAL SPECS. FOR 3/4" WASHED GRAVEL:
SIEVE SIZE 2", PERCENT (%) RETAINED 0
SIEVE SIZE 1 1/2", % RETAINED 0-10
SIEVE SIZE 1", % RETAINED 45-80
SIEVE SIZE 3/4", % RETAINED 85-100
SIEVE SIZE 3/8", % RETAINED 95-100

06 STANDARD MANHOLE
SCALE : NTS



NOTES:

1. TO BE USED WHERE DROP IS SIX INCHES (6") TO TWO FEET (2'-0").
2. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
3. CONSTRUCTION OF DROP SHALL PROVIDE AN OVERSIZED SLAB TO EXTEND UNDER THE DROP CONNECTION.
4. MINIMUM PIPE SIZE FOR DROP IS EIGHT INCHES (8").
5. SEE STANDARD MANHOLE DETAIL (DWG. # WW-03) FOR ADDITIONAL REQUIREMENTS.

07 DROP CONNECTION-PRECAST
SCALE : NTS

SHEET SIZE: 24" x 36"

STATE OF TEXAS
GARRETT D. KELLER
111511
LICENSED PROFESSIONAL ENGINEER
6-5-2019
PRELIMINARY

This document is released for REVIEW PURPOSES ONLY, NOT FOR CONSTRUCTION and was prepared under the authorization of Garrett D. Keller, Registered Professional Engineer, State of Texas, Registration No. 111511. DATE: June 2019

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CIVIL UTILITY DETAILS (SHEET 3)
FOR
SALADO SANCTUARY, PHASE I
SALADO, TEXAS

CU503

JOB NO.	3020.01
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DRAWN BY:	DAP/MES
CHECKED BY:	GDK
SHEET #	100 OF 100

Date: Jul 24, 2019, 3:57pm User ID: rwagliardo
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