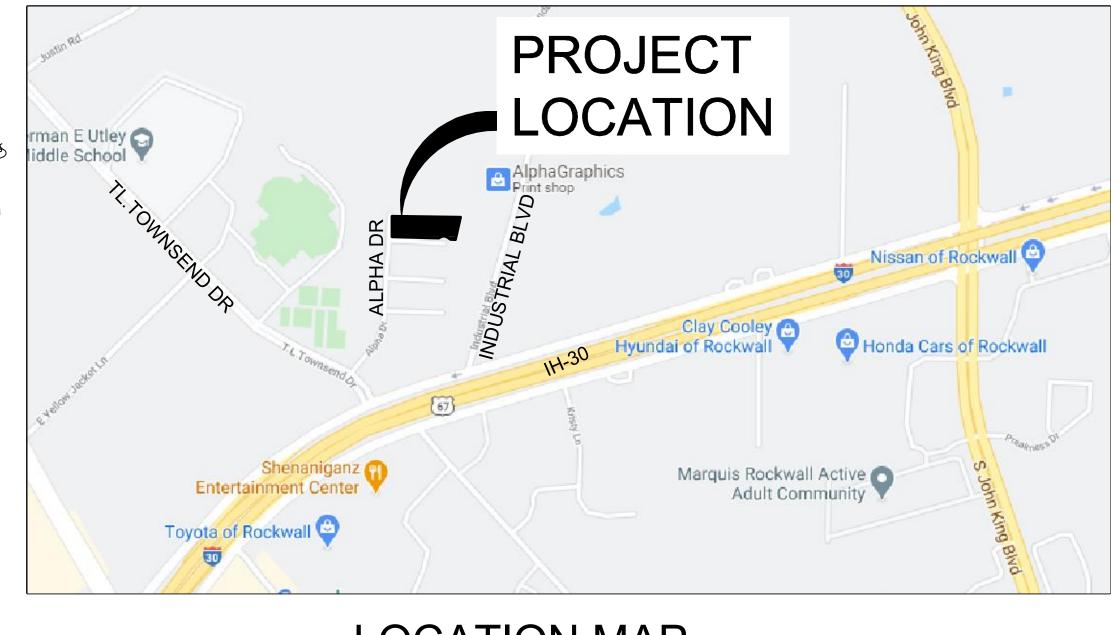
# **CONSTRUCTION PLANS** TO SERVE



# **ROCKWALL DFPS 1203 SIGMA COURT** LOTS 3 & 6, BLOCK C **ROCKWALL, TEXAS 75087**

LOCATION MAP N.T.S.

OWNER / DEVELOPER:

SVEA INDUSTRIAL II, LLC 1614 LAVCA STREET AUSTIN, TEXAS 78701 PHONE: 830-431-0326 EMAIL: j.kuper@sveare.com CONTACT: HARRY J. KUPER PREPARED BY:



CARRILLO ENGINEERING, LLC TEXAS BOARD OF PROFESSIONAL ENGINEERS **REGISTRATION NO. F-15893** 301 COMMERCE STREET, SUITE 1410 FORT WORTH, TEXAS 76102 PHONE NO.: 817-697-4996 CONTACT: ANNA C. BLACKWELL, P.E.



### SHEET INDEX

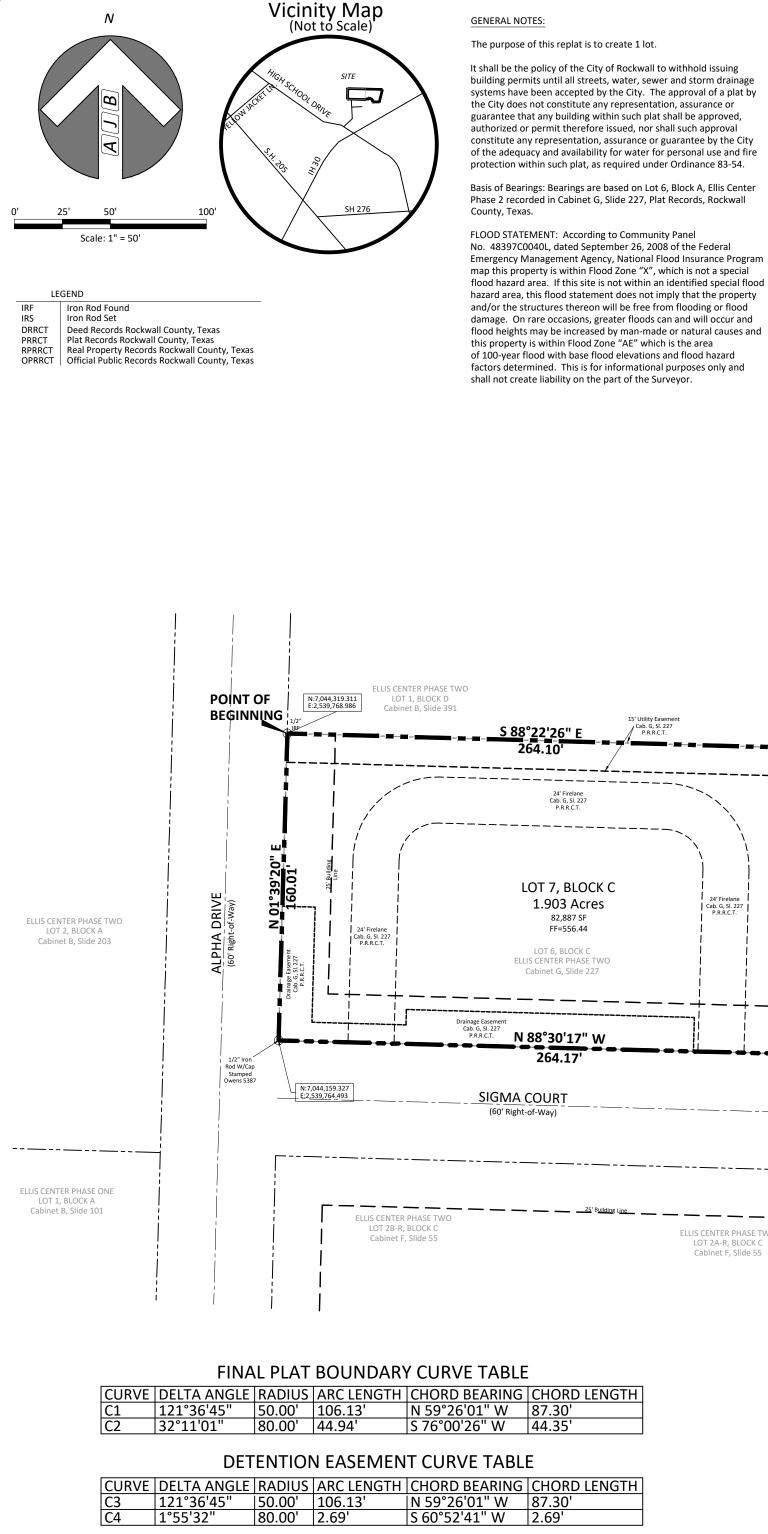
SHEET NO.	DESCRIPTION
C0.00	COVER SHEET
	REPLAT LOT 7, BLOCK A
C0.01	GENERAL NOTES
C0.02	CITY GENERAL NOTES
C0.03	CITY GENERAL NOTES
SP	SITE PLAN
C1.00	DEMOLITION PLAN
C2.00	PAVING / DIMENSION CONTROL PLAN
C3.00	GRADING PLAN
C4.00	EXISTING DRAINAGE AREA MAP
C4.01	PROPOSED DRAINAGE AREA MAP
C4.02	DETENTION POND PLAN
C4.03	DETENTION POND CALCULATIONS
C5.00	STORM DRAIN PLAN
C6.00	UTILITY PLAN
C7.00	EROSION CONTROL PLAN
C7.01	EROSION CONTROL DETAILS
C7.02	EROSION CONTROL CITY DETAILS
C8.00	
C8.01	SITE SPECIFIC DETAILS (PRIVATE)
C8.02	CITY DETAILS
L1.00	LANDSCAPE PLAN
L5.00	LANDSCAPE DETAILS



#### RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 27, 2021

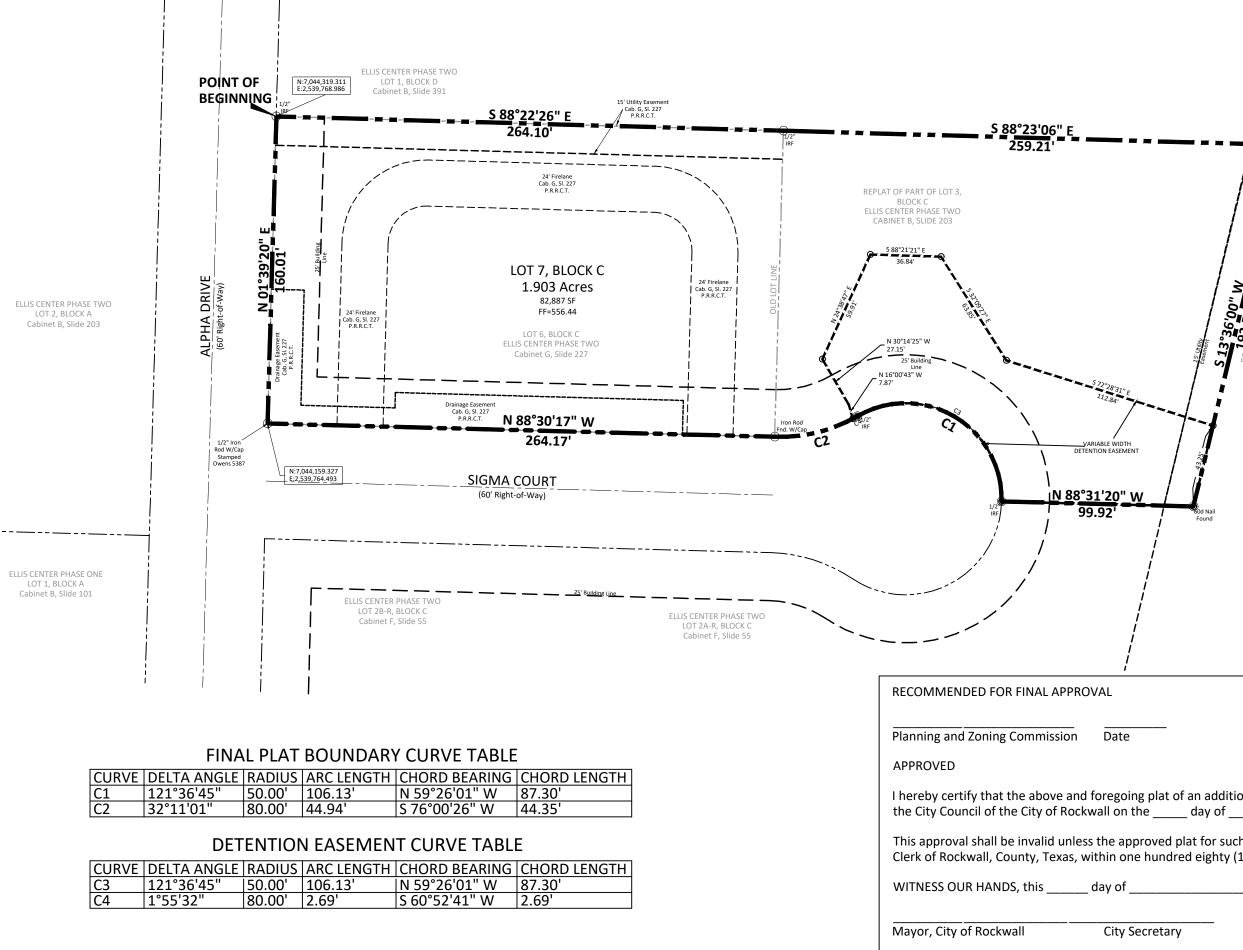


Property owner is responsible for maintenance, repair, and replacement of all detention/drainage facilities in easements;

Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay for the same out of the escrow deposit, should the developer and/or owner fail or refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done; or

Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which time shall be fixed by the city council of the City of Rockwall.

We further acknowledge that the dedications and/or exaction's made herein are proportional to the impact of the Subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City; We, my (our) successors and assigns hereby waive any claim, damage, or cause of action that We may have as a result of the dedication of exactions made herein



#### **OWNER'S CERTIFICATE** STATE OF TEXAS

#### COUNTY OF ROCKWALL

SVEA INDUSTRIAL II, LLC, BEING THE OWNER(S) OF A TRACT OF LAND IN THE COUNTY OF ROCKWALL, STATE OF TEXAS, said tract being described as follows

BEING a 1.905 acre tract of land situated in the A. Hanna Survey, Abstract No. 99, City of Rockwall, Rockwall County, Texas and being all of Lot 6, Block C of Ellis Center Phase Two Addition an addition to the City of Rockwall according to the plat recorded in Cabinet G, Slide 227, Plat Records, Rockwall County, Texas (PRRCT) and being all of Replat of Part of Lot 3, Block C of Ellis Center Phase Two Addition an addition to the City of Rockwall according to the plat recorded in Cabinet B, Slide 203, Plat Records, Rockwall County, Texas (PRRCT) and being more particularly described as follows

BEGINNING at a ½ inch iron rod found for corner located in the west line of Alpha Drive (60' Right-of-Way) and being the southeast corner of Lot 1, Block D, Ellis Center Phase Two according to the plat recorded in Cabinet B. Slide 391. (PRRCT):

THENCE departing the west line of said Alpha Drive and along common line of said Lot 6 and said Lot 1, SOUTH 88°22'26" EAST a distance of 264.10 feet to a ½ inch iron rod found for corne

THENCE continuing along the common line of said Lot 6 and said Lot 1, SOUTH 88°23'06" EAST a distance of 259.21 feet to a ½ inch iron rod with cap Stamped "OWENS 5387" set for corner and being the north east corner of said Lot 3 and being located in the west line of Lot 1 of Rockwall Industrial Foundation Addition (unrecorded):

THENCE along the common line of said Lot 3 and said Lot 1 of Rockwall Industrial Foundation Addition, SOUTH 13°36'00" WEST a distance of 193.72 feet to a 60d nail found for corner and being the northeast corner of Lot 2A-R, Block C, of Ellis Center Phase Two addition, per plat recorded in Cabinet F, Slide 55. (PRRCT):

THENCE along the common line of said Lot 3 and said Lot 2A-R, NORTH 88°31'20" WEST a distance of 99.92 feet to a ½ inch iron rod found for corner and being located at the most easterly point in a cul de sac of Sigma Court and being the beginning of a curve to the left with a radius of 50.00 feet and a chord bearing of NORTH 59°26'01" WEST:

ALONG said curve to the left through a central angle of 121°36'45" for an arch length of 106.13 feet to a ½ inch iron rod found for corner and being the beginning of a curve to the right with a radius of 80.00 feet and a chord bearing of SOUTH 76°00'26" WEST;

ALONG said curve to the right through a central angle of 32°11'01" for an arch length of 44.94 feet to a ½ inch iron rod found for corner and being the southeast corner of said Lot 6 and being located in the north line of said Sigma Court (60' Right-of-Way at this point);

THENCE along the north line of said Sigma Court, NORTH 88°30'17" WEST a distance of 264.17 feet to a ½ inch iron rod with cap Stamped "OWENS 5387" set for corner located in the east line of said Alpha Drive;

THENCE along the east line of said Alpha Drive, NORTH 01°39'20" EAST a distance of 160.01 feet to the POINT

CONTAINING within these metes and bounds 1.903 acres or 82,887 square feet of land more or less.

# 33.75 93.75 372°28'31" E <u>N 88°31'20" W</u> 99.92'

Date

I hereby certify that the above and foregoing plat of an addition to the City of Rockwall, Texas, was approved by , 2021.

This approval shall be invalid unless the approved plat for such addition is recorded in the office of the County Clerk of Rockwall, County, Texas, within one hundred eighty (180) days from said date of final approval.

\_\_, 2021.

City Secretary

City Engineer

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS: STATE OF TEXAS COUNTY OF ROCKWALL

We, SVEA INDUSTRIAL II, LLC, the undersigned owner of the land shown on this plat, and designated herein as the ELLIS CENTER PHASE TWO ADDITION subdivision to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. We further certify that all other parties who have a mortgage or lien interest in the ELLIS CENTER PHASE TWO ADDITION subdivision have been notified and signed this plat. We understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same. We also understand the following;

1. No buildings shall be constructed or placed upon, over, or across the utility easements as described herein

2. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips; and any public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maintaining, and either adding to or removing all or part of their respective system without the necessity of, at any time, procuring the permission of anyone.

3. The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivisio

4. The developer and subdivision engineer shall bear total responsibility for storm drain improvements.

5. The developer shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development.

6. No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm structures, storm sewers, and alleys, all according to the specifications of the City of Rockwall;

SVEA INDUSTRIAL II, LLC

Name: Harry J. Kuper, Jr. Title: Manager

STATE OF TEXAS COUNTY OF BEXAR

Before me, the undersigned authority, on this day personally appeared Harry J. Kuper, Jr., Manager, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated

Given upon my hand and seal of office this \_\_\_\_\_ day of \_\_\_\_\_ , 2021

Notary Public in and for the State of Texas

SURVEYOR'S CERTIFICATE

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT I, Frank R. Owens, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.

Frank R. Owens Registered Professional Land Surveyor No. 5387 frank@ajbedfordgroup.com A.J. Bedford Group, Inc. 301 North Alamo Road Rockwall, Texas 75087

#### Case No.: P2021-002



TBPLS REG#10118200

#### GENERAL NOTES

- 1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF ROCKWALL'S STANDARDS AND SPECIFICATIONS, 5th EDITION WITH CITY REVISIONS. IF NO CITY STANDARD IS APPLICABLE, MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE "NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- 2. ALL CONSTRUCTION BARRICADING TO BE IN ACCORDANCE WITH CURRENT "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" GUIDELINES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIALS AND LABOR TO CONSTRUCT THE FACILITIES AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.
- 4. THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS. SERVICES SHOWN ON THE PLANS, IF ANY, ARE CONCEPTUAL.
- 5. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.
- 6. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF PIPE
- 7. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PRIVATE AND PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
- 8. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
- 9. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING SIGNED PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
- 12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER, CITY, AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- 13. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ARCHITECT, CIVIL ENGINEER, CITY INSPECTOR AND OWNER DIRECTLY FROM THE TESTING AGENCY
- 14. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- 15. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
- 16. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
- 17. ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES UNLESS OTHERWISE NOTED ON PLANS.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION AND INSTALLATION OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION. PAYMENT FOR RELOCATION AND INSTALLATION WILL BE NEGOTIATED ONCE IDENTIFIED.
- 19. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE SHOWN.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 21. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CIVIL ENGINEER A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
- 22. CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 23. ALL "RECORD" DIMENSIONS SHALL CONFORM TO THE DESIGN DIMENSIONS PLUS OR MINUS 0.02 FEET. ALL "RECORD" SLOPES SHALL CONFORM TO THE DESIGNED SLOPES PLUS OR MINUS 0.005 FOOT/FOOT.
- 24. CONTRACTOR SHALL CONTACT CITY BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THAT THE CITY MAY REQUIRE. THE CONTRACTOR IS CAUTIONED THAT THIS AND PERHAPS OTHER SUCH REQUIREMENTS MAY EXIST AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH THEM.
- 25. ALL CONSTRUCTION STAKING SHALL BE RESPONSIBILITY OF THE CONTRACTOR
- 26. ALL UTILITIES ARE REQUIRED TO BE PLACED UNDERGROUND INCLUDING ALL FRANCHISE UTILITIES

#### **STORM SEWER NOTES**

- 1. ALL PRIVATE STORM DRAINAGE PIPE SHALL BE HDPE AND SHOULD BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS. PUBLIC STORM PIPE TO BE RCP.
- ROCK RIP RAP RUBBLE SHALL USE 12" (MINIMUM) ROCKS AND BE GROUTED SO THAT 6" OF THE ROCKS ARE EXPOSED.
- 3. NO PRECAST INLETS ARE PERMITTED FOR PUBLIC DRAINAGE SYSTEMS.
- 4. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
- 5. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS, GRATE INLETS, AND ALL UTILITIES CROSSING THE STORM SEWER. FLOW LINES AND RIMS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE PROPOSED GRADE PRIOR TO CONSTRUCTION.
- 6. THE END OF ALL STORM SEWER LATERALS THAT CONNECT TO WORK BY PLUMBER SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED 5.0 FEET OUTSIDE THE BUILDING UNTIL FINAL CONNECTIONS ARE MADE BY PLUMBING CONTRACTOR.
- 7. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- 8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS.
- 9. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

ADJUSTED AS REQUIRED TO MATCH FINAL GRADES AS SHOWN ON GRADING PLAN. NO SEPARATE PAY ITEM

#### STORM SEWER DISCHARGE AUTHORIZATION

- 1. IF THE TOTAL DISTURBED AREA EXCEEDS ONE (1) ACRE A NOTICE OF INTENT (N.O.I.) SHALL BE SUBMITTED BY THE CONTRACTOR TO THE TCEQ NO LESS THAN 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN A CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR
- RESPONSIBILITIES AS SPECIFIED IN THE SWPPP 3. A COPY OF THE SWPPP, INCLUDING CONTRACTOR CERTIFICATIONS AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY AND FILED WITH THE CONSTRUCTION PLANS, AND SHALL BE
- RETAINED ON-SITE DURING CONSTRUCTION. 4. THE CONTRACTOR IS RESPONSIBLE FOR FILING A NOTICE OF TERMINATION AS REQUIRED BY TCEQ.

#### WATER NOTES

- 1. ALL WATER MAINS SHALL BE PVC AWWA-C900, DR14, (PC 305) FOR ≤12" AND
- DR18 (PC235) FOR ≤ 14". FIRE LINES SHALL BE AWWA C-900, DR14, CLASS 200. 2. GATE VALVES SHALL CONFORM TO CITY SPECIFICATIONS.
- 3. CITY ORDINANCE PROHIBITS ANYONE (OTHER THAN CITY EMPLOYEES) FROM OPENING OR CLOSING A WATER VALVE WHICH IS PART OF THE ACTIVE PUBLIC SYSTEM.
- 4. ALL FITTINGS SHALL BE MEGALUG .
- 5. ALL FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYVINYL PLASTIC. 6. THE MINIMUM HORIZONTAL SEPARATION BETWEEN ANY WATER MAIN AND A STORM DRAIN FACILITY SHALL BE EQUAL TO 2.5 FEET OR HALF THE DEPTH OF THE WATER LINE, WHICHEVER IS GREATER.
- 7. ROUTE WATER LINES AROUND STORM DRAIN INLETS WITH A MINIMUM OF 12" CLEARANCE OUT-TO-OUT. MINIMUM DEFLECTION RADII SHALL BE ADHERED TO.
- 8. MINIMUM DEPTH OF COVER OVER ALL WATER MAINS SMALLER THAN TEN (10") INCHES IN DIAMETER SHALL BE FOUR (4') FEET. MINIMUM DEPTH OF COVER FOR WATER MAINS TEN (10")
- INCHES AND LARGER SHALL BE FOUR (4') FEET. 9. SEE PAGE 378 OF THE CITY OF ROCKWALL'S STANDARDS OF DESIGN AND CONTRUCTION FOR
- FIRE HYDRANT PAINT MATERIALS. 10. BLOW-OFF HYDRANTS ARE TO BE SURROUNDED WITH HIGH VISIBILITY CONSTRUCTION FENCING FOR THE DURATION OF CONSTRUCTION ACTIVITY.
- 11. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS
- 12. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. HORIZONTAL AND VERTICAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY.
- HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS AND
- SPECIFICATIONS. 14. CORPORATION STOPS SHALL BE TESTED FOR FULL FLOW WHEN THE SYSTEM IS PRESSURE TESTED.
- 15. ALL NEW WATER LINES SHALL BE FULLY PURGED.
- 16. ALL UNDERGROUND FIRE LINES SHALL BE INSPECTED BY THE FIRE MARSHAL'S OFFICE. 17. CONTRACTOR TO INSTALL BLUE EMS DISKS ON THE WATER LINE AT EVERY CHANGE IN
- DIRECTION, VALVE, FIRE HYDRANT LEAD CONNECTION, SERVICE CONNECTION, AND 250 FEET. 18. ALL TRENCH COMPACTION MIN 95%.

#### SANITARY SEWER NOTES

- 1. ALL SANITARY SEWER PIPE SHALL BE SDR 35 PVC (ASTM D-3034), UNLESS THE LINE IS DEEPER THAN 10 FEET, THEN SDR 26 PVC SHALL BE USED. 2. ALL SANITARY SEWER LINES ARE TO HAVE ONE 18 FOOT MINIMUM JOINT CENTERED BELOW
- WATER MAIN CROSSINGS. 3. THE MINIMUM HORIZONTAL SEPARATION BETWEEN ANY SANITARY SEWER MAIN AND A STORM
- DRAIN FACILITY SHALL BE EQUAL TO 2.5 FEET OR HALF THE DEPTH OF THE SANITARY SEWER, WHICHEVER IS GREATER. 4. SERVICES WHICH ARE CONNECTED TO MANHOLES SHALL BE INSTALLED A MINIMUM OF 8 INCHES
- ABOVE THE MAIN FLOWLINE. 5. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE CITY AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS
- DATA
- 6. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 7. TYPICAL LOCATION OF PUBLIC SANITARY SEWER PIPE SHALL BE A MINIMUM OF 4'-0" OF COVER. 8. ALL PRIVATE FLEXIBLE SANITARY SEWER MAINS SHALL BE TESTED WITH STANDARD 5%
- DEFLECTION MANDREL. 9. ALL SANITARY SEWER LINES SHALL BE CAPPED WITH AN APPROPRIATE CAP AT THE END OF EACH
- WORKDAY
- 10. 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.
- 11. ALL PUBLIC SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED PER CITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- 12. ALL PUBLIC MANHOLE TO BE 'RAVEN' LINED OR APPROVED EQUAL INCLUDING EXISTING MANHOLES THAT ARE CONNECTED TO.
- 13. CONTRACTOR TO INSTALL GREEN EMS ON PUBLIC SANITARY SEWER LINES AT EVERY CLEANOUT, MANHOLE, SERVICE CONNECTION, AND CHANGE IN DIRECTION.

- TRAFFIC CONTROL NOTES AT LEAST 3 WEEKS PRIOR TO CONSTRUCTION ACTIVITY AND SIGNED/ SEALED BY P.E. 2. ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST VERSION.
- 1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS TO THE OWNER AND CITY INSPECTOR,
- 3. THE CONTRACTOR SHALL COVER EXISTING SIGNS AND OBLITERATE EXISTING PAVEMENT
- MARKINGS THAT CONFLICT WITH THE INTENT OF THESE TRAFFIC CONTROL PLANS TO AVOID CONFUSION TO THE TRAVELING PUBLIC. 4. THE CONTRACTOR SHALL UNCOVER EXISTING SIGNS AND REPLACE PAVEMENT MARKINGS
- IN-KIND AS ORIGINALLY CONFIGURED AT THE END OF CONSTRUCTION OPERATIONS AND PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- 5. ALL TEMPORARY SIGNS, BARRICADES, WARNING LIGHTS AND OTHER MISCELLANEOUS TRAFFIC CONTROL MEASURES SHALL BE REMOVED AND ORIGINAL TRAFFIC CONTROL MEASURES REPLACED AT THE END OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS.

#### EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED.
- 2. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.
- 3. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.

#### 10. EXISTING MANHOLE TOPS AND ALL OTHER DRAINAGE WATER, AND SEWER FACILITIES SHALL BE

- 4. CONSTRUCTION ENTRANCE:
  - MINIMUM SIZE STONE: 4-6" INCHES DIAMETER (NO RECYCLED OR CRUSHED CONCRETE ALLOWED.
  - THICKNESS: NOT LESS THAN 12" INCHES
  - LENGTH: AS SHOWN ON PLAN MIN 50'
  - WIDTH, 20' MIN.: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS. MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.
- 5. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE ( NOT CONCRETE ) WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR
- TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
- 6. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
- 7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT ADVERSE OFF SITE IMPACTS OR STORM WATER QUALITY FROM SILT AND CONSTRUCTION DEBRIS FLOWING ONTO ADJACENT PROPERTIES AS REQUIRED BY THE CITY.
- 8. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK
- 9. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
- 10. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY THE T.C.E.Q. OR THE GOVERNING CITY.

#### GRADING NOTES

- 1. ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING AREAS OUTSIDE THE CONSTRUCTION BOUNDARY SHALL BE SEEDED AND HYDROMULCHED OR SODDED TO RE-ESTABLISH VEGETATION (75-80% COVERAGE) WITH GRASS (NOT WEED OR WINTER RYE) TO A MINIMUM OF 1" STAND IN HEIGHT (AT LEAST 75-80% COVERAGE WITH NO BARE SPOTS). PRIOR TO FINAL ACCEPTANCE. A CUMULATIVE APPROACH WHERE A PORTION OF THE DISTURBED AREA IS 100% VEGETATED AND OTHER AREAS ARE LEFT BARE IS NOT ACCEPTABLE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF A MAXIMUM NUMBER OF PASSING FIELD DENSITY TESTS ON LIME STABILIZED SUBGRADE EQUAL TO THE RATIO OF 1 PER 100 LINEAR FEET OF STREET AND ALL FAILING DENSITY TESTS AND REQUIRED MOISTURE-DENSITY CURVES.
- 3. ALL FILL SHALL ADHERE TO GEOTECHNICAL REPORT BY: REED ENGINEERING GROUP, JOB #14137 DATED FEBRUARY 2020. STOCKPILING OF EXCESS FILLS WILL NOT BE ALLOWED WITHIN CITY LIMITS WITHOUT OBTAINING A FILL/EXCAVATION PERMIT. MINIMUM COMPACTION IS 95% STD. DENSITY USING A SHEEP'S FOOT ROLLER (BUILDING PAD EXCLUDED).
- 4. GRADING SHALL NOT RESULT IN SLOPES GREATER THAN 4' HORIZONTAL TO 1' VERTICAL (4:1). 5. GRADING SHALL BE COMPLETE IN ACCORDANCE WITH THE APPROVED PLANS PRIOR TO THE OWNER ACCEPTING THE PROJECT.
- 6. SLOPES CREATED BY EXCAVATION OR FILL SHALL NOT EXCEED 3' HORIZONTAL TO 1' VERTICAL (3:1) FOR A PERIOD MORE THAN 120 DAYS. IF LONGER THAN 120 DAYS THE SLOPE SHALL NOT EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1).
- 7. ALL STATE AND LOCAL REQUIREMENTS FOR STORM WATER POLLUTION PREVENTION PLANS (SWPPP) MUST BE MET.
- 8. IF A GRADING PERMIT IS REQUIRED FROM THE CITY PRIOR TO STARTING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT AND PAYING ALL ASSOCIATED FEES
- 9. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- 10. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE EXISTING AND PROPOSED FACILITIES AND NO PONDING IN PAVED AREAS. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED
- 11. THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
- 12. ALL EXISTING CONCRETE PAVING, CHANNEL IMPROVEMENTS, SIDEWALK, STRUCTURES AND CURB DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR. OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER.
- 13. ALL CLEARING, GRADING, COMPACTION MINIMUM 95% STD WITH SHEEP'S FOOT ROLLER (EXCEPT UNDER BUILDING PAD) AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE TO THE GEOTECHNICAL REPORT: REED ENGINEERING GROUP JOB # 14137 DATED FEBRUARY 2007 AND ALL ADDENDA.
- 14. GRADING CONTRACTOR TO COORDINATE WITH THE FRANCHISE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- 15. GENERAL FILL TO BE COMPACTED TO 95% STD PROCTOR WITH A MOISTURE RANGE OF -2 TO +4 WITH A SHEEP'S FOOT ROLLER.
- 16. ALL R.O.W. TO BE SODDED.
- 17. ALL DETENTION SYSTEMS MUST BE COMPLETED PRIOR TO ANY PAVING (INCLUDING BUILDING SLAB). THIS INCLUDES THE SIDES AND THE BOTTOM OF THE DETENTION POND HAVING EITHER ANCHORED SEEDED WELEX OR SOD INSTALLED.

#### PAVING

- 1. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, CITY OF ROCKWALL STANDARD SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- 3. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- 4. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE
- 5. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.

- - DETAILS.

6. THE CONTRACTOR SHALL PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. THAT ARE TO REMAIN OR BE RELOCATED DURING ALL CONSTRUCTION PHASES.

7. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

8. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND THESE PLANS.

9. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT FOR PAVEMENT MARKINGS SHALL ADHERE TO SECTION 2.9 OF THE N.C.T.C.O.G. STANDARD SPECIFICATIONS UNDER "TRAFFIC

11. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990. 12. REFERENCE CITY OF ROCKWALL STANDARD CONSTRUCTION DETAILS FOR HANDICAP RAMP AND

OTHER PAVING DETAILS. 13. REFERENCE LANDSCAPE PLANS BY OTHERS FOR LOCATION AND TYPE OF HANDICAP RAMPS TO

BE PROVIDED AND FOR FLATWORK. 14. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ANY SPECIAL PROVISION AS APPROVED BY THE CITY OF ROCKWALL.

15. CONTRACTOR RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY CITY OF ROCKWALL OF TRAFFIC CONTROL PLAN PRIOR TO START OF CONSTRUCTION. 16. SIDEWALKS TO CONFORM TO THE MINIMUM STANDARDS PER CITY OF ROCKWALL CONSTRUCTION

17. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE LOCATED OUT OF THE PEDESTRIAN AND AUTOMOBILE ROUTES EASEMENTS, OFF-SITE, AND R.O.W. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO PUBLIC SAFETY AND CONFORM TO THE STANDARDS ESTABLISHED PER CITY OF ROCKWALL DESIGN CRITERIA AND CONSTRUCTION STANDARDS. ALL SIGNS MUST BE APPROVED THROUGH A BUILDING PERMIT WITH THE ROCKWALL BUILDING DEPARTMENT.

18. CONTRACTOR SHALL VERIFY HANDICAP RAMPS COMPLY WITH A.D.A. AND T.A.S STANDARDS. 19. REFER TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATION MIN 95%. 20. CONSTRUCTION JOINTS SHALL BE REQUIRED AT INTERRUPTIONS OF PAVING OPERATIONS SUCH AS THOSE OCCURRING AT THE END OF THE DAY OR DUE TO WEATHER OR EQUIPMENT BREAKDOWN. PLACE AT LONGITUDINAL CONSTRUCTION OR ISOLATION JOINT LOCATIONS.

21. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PC'S AND AS CONVENIENT TO PHASING OF POURS. CONCRETE PAVEMENT TO BE CONSTRUCTED WITH ISOLATION JOINTS AROUND THE PERIMETER OF ANY BLOCK OUT IN PAVEMENT AND SAWED DUMMY JOINTS NO FARTHER THAN EVERY 12' IN BOTH DIRECTIONS.

22. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.

23. RADIAL JOINTS SHALL BE NO SHORTER THAN 24". 24. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND

IMMEDIATELY SEALED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.

25. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO ANY PAVING OPERATIONS.

26. THE CONTRACTOR SHALL OBTAIN A STREET USE PERMIT FOR ANY PAVING WORK IN PUBLIC RIGHT-OF-WAY.

27. NO SAND UNDER ANY PAVING.

GEOTECHNICAL REPORT PROJECT NO. 14137 BY: REED ENGINEERING GROUP DATED: FEBRUARY, 2007

#### RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 27, 2021

#### **BENCH MARK:**

All elevations shown hereon are based on the City of Rockwall Control Monumentaion System

COR-11 Brass Disk stamped "City of Rockwall Survey Monument" on the northeast side of Mims Road at the southerly end of a concrete headwall at the intersection of the northeast line of Mims Rd. with the southeast Line of I-30. Elevation=565.98'

TBM - "X" cut on the southeast corner of an electric transformer pad at the northeast corner of Lot 3A-R. Elevation = 557.37'

#### NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION



	Revision Sched	ule
Rev.	Revision	Revision
#	Description	Date



#### Carrillo Engineering Carrillo Engineering LLC

#### Carrillo Engineering, LLC

301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102 Phone 817-697-4996 - Firm Registration #F-15893

## OWT ARCHITECTS

**509 PECAN STREET** SUITE 100 FORT WORTH, TX 76102 817.993.9844

www.owtarchitects.com

**ROCKWALL DFPS** 

## **ELLIS CENTRE #2 ADDITION** BOCK C, LOT 3A-R

1203 SIGMA CT, ROCKWALL, TX 75087

3/1/2021 ISSUE DATE

## **GENERAL NOTES**



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<ul> <li>and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times.</li> <li>Where any conflicting noise, details or specifications cour in the plans the City of Rockwall General Construction Notes, Standards, Denils and Specifications shall govern unless detail or specification is more strict.</li> <li>The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: <u>http://www.rockwall.com/engrage</u></li> <li>All communication between the City and the CONTRACTOR shall be through the Engineering plans tat: <u>http://www.rockwall.com/engrage</u></li> <li>Froit to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.</li> <li>The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if riems are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".</li> <li>All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and regorose by the City.</li> <li>All site dimensions are referenced to the face of cutb or edge of pavement unless otherwise noted.</li> <li>The City requires the (10%) permetitive (2) guar maintenance bond for paving, paving improvements, water systems, watewater systems, storm server systems including detention systems, and associated fixtures and structures which are located with the refind-rolways of defined easements. The vok (2) year maintenance bond is to state "from date of City acceptance" as the crity costructure of the Sistemate the conducted at twenty (20) months into the tox (2) year maintenance bound is to state "from hany c</li></ul>		
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noved from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement shing shall be allowed only after sediment is removed in this manner.

drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be nediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of aning.

ring all dewatering operations, water shall be pumped into an approved filtering device prior to discharge o a receiving outlet.

#### FIC CONTROL

new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval inimum of 21 calendar days prior to planned day of implementation.

hen the normal function of the roadway is suspended through closure of any portion of the right-of-way, porary construction work zone traffic control devices shall be installed to effectively guide the motoring lic through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow an integral element of every traffic control zone.

traffic control plans shall be prepared and submitted to the Engineering Department in accordance with standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur roadways without an approval from the Rockwall Engineering Department and an approved traffic control an. Traffic control plans shall be required on all roadways as determined by the City Engineer or the ignated representative.

traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional incer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.

e CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks or to any the closures in writing and verbally.

ny deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated resentative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a rbal warning and be required to correct the problem immediately. If the deviation is not corrected, all struction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.

temporary traffic control devices shall be removed as soon as practical when they are no longer needed. nen work is suspended for short periods of time at the end of the workday, all temporary traffic control rices that are no longer appropriate shall be removed or covered. The first violation of this provision will ult in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all ork at the job site for a minimum of 48 hours. All contractors working on City funded projects will be arged one working day for each 24 hour closure.

ne closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am 1 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during ak hours of 7:00 am – 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual rt-finish times of the actual school with approval by the City Engineer. The first violation of this provision ll result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be arged one working day for each 24 hour closure of a roadway whether they are working or not.

traffic signs shall be taken down without permission from the City.

street/roadway will be allowed to be fully closed.

#### TY LINE LOCATES

is the CONTRACTOR's responsibility to notify utility companies to arrange for utility locates at least 48 urs prior to beginning construction. The completeness and accuracy of the utility data shown on the plans not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the oth and location of existing underground utilities proper to excavating, trenching, or drilling and shall be uired to take any precautionary measures to protect all lines shown and .or any other underground utilities on record or not shown on the plans.

he CONTRACTOR shall be responsible for damages to utilities

ONTRACTOR shall adjust all City of Rockwall utilities to the final grades.

utilities shall be placed underground.

ONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or posed by construction operations. Where existing mains or service lines are cut, broken or damaged, the ONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original nstruction or better. The City of Rockwall can and will intervene to restore service if deemed necessary nd charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a nely manner by the CONTRACTOR.

he City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call – 811 – line locate system. City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.

Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:

a. No more than 500 linear feet of trench may be opened at one time.

b. Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends. c. Applicable safety regulations shall be complied with.

11. This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.

12. All underground lines shall be installed, inspected, and approved prior to backfilling.

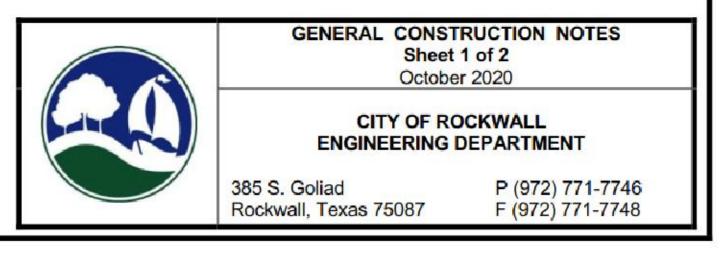
13. All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

#### WATER LINE NOTES

- engineering standards of design and construction manual.
- as any costs incurred when the loss of fire protection to a structure occurs.
- (both existing and proposed).
- Service Center.
- water line and every 250'.
- 9. All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.
- to parking spaces and landscaping.
- 12. All joints are to be megalug joints with thrust blocking.
- 14. CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.
- installed per the City of Rockwall regulations at the property line and shown on plans.

#### WASTEWATER LINE NOTES

- will be allowed on a sanitary sewer line deeper than 10 feet.
- public works standard design and construction manual.
- Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.
- are accounted for and transferred to proposed wastewater lines prior to abandonment.
- Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.
- (20<sup>th</sup>) month of the maintenance period.
- to the measures called out in standard detail R-5031.
- and cover to prevent inflow.
- 10 business days for review and response by the City.
- CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.



#### RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 27, 2021

The CONTRACTOR shall maintain existing water service at all times during construction.

Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.

Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's

CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well

CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves

All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal

Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed

All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.

10. Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.

1. All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited

13. Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.

15. All domestic and irrigation services are required to have a testable backflow device with a double check valve

The CONTRACTOR shall maintain existing wastewater service at all times during construction.

Wastewater line for 4-inch through 15-inch shall be Green PVC - SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and lager wastewater line shall be Green PVC – PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services

Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's

CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals

6. All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.

All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth

All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform

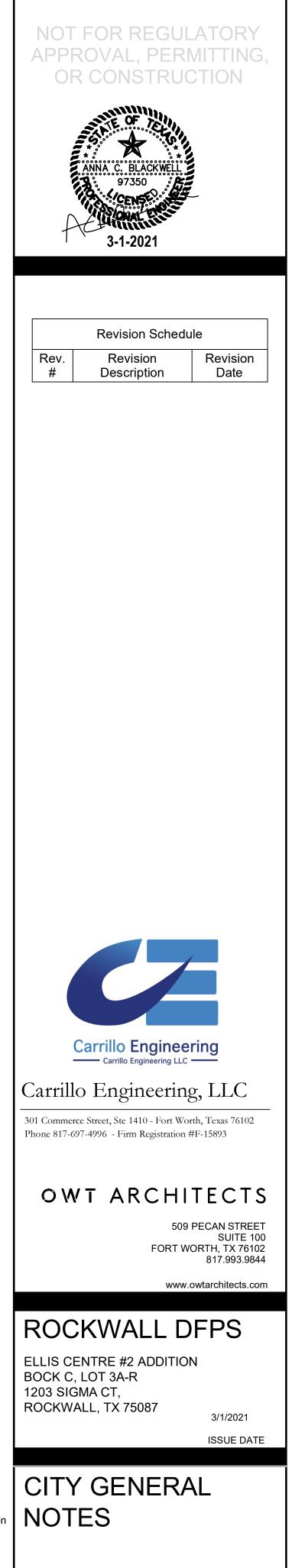
). All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal. Consheild must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal. 1. All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim

2. If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approva prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than

**BENCH MARK:** All elevations shown hereon are based on the City of Rockwall Control Monumentaion

COR-11 Brass Disk stamped "City of Rockwall Survey Monument" on the northeast side of Mims Road at the southerly end of a concrete headwall at the intersection of the northeast line of Mims Rd. with the southeast Line of I-30. Elevation=565.98'

TBM - "X" cut on the southeast corner of an electric transformer pad at the northeast corner of Lot 3A-R. Elevation = 557.37'



**C0.02** 

#### DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

- . All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.
- Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.
- All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.
- 4. No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

#### PAVING AND GRADING

- All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.
   All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a
- minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Starst/Decomposit Trees	Minimum	Streng th 28-	Minimum (sacks)		Steel Re	einforcement	
Street/Pavement Type	Thickness (inches)	Day (psi)	Machine placed	Hand Placed	Bar #	Spacing (O.C.E.W.)	
Arterial	10"	3,600	6.0	6.5	#4 bars	18"	
Collector	8"	3,600	6.0	6.5	#4 bars	18"	
Residential	6"	3,600	6.0	6.5	#3 bars	24"	
Alley	7"-5"-7"	3,600	6.0	6.5	#3 bars	24"	
Fire Lane	6"	3,600	6.0	6.5	#3 bars	24"	
Driveways	6"	3,600	6.0	6.5	#3 bars	24"	
Barrier Free Ramps	6"	3,600	N/A	6.5	#3 bars	24"	
Sidewalks	4"	3,000	N/A	5.5	#3 bars	24"	
Parking Lot/Drive Aisles	5"	3,000	5.0	5.5	#3 bars	24"	
Dumpster Pads	7"	3,600	6.0	6.5	#3 bars	24"	

- 3. Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudinal butt joint constructed.
- 4. No sand shall be allowed under any paving.
- 5. All concrete mix design shall be submitted to the City for review and approval prior to placement.
- Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.
- 7. All curb and gutter shall be integral (monolithic) with the pavement.
- 8. All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.
- All concrete compression tests and soil compaction/density tests are required to be submitted to the City's Engineering Inspector immediately upon results.
- All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).
- All public sidewalks shall be doweled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.
   All comparison for a state of the state
- All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)
- 13. Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.
- 14. All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.
- 15. Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.
- 16. All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.
- 17. CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.
- 18. CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.
- CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

#### **DRAINAGE / STORM SEWER NOTES**

 The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.

All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.

Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.

All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.

5. All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.

All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.
 All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.

All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20<sup>th</sup>) month of the maintenance period.

#### **RETAINING WALLS**

 All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department
 All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.

All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.

All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.

No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

#### FINAL ACCEPTANCE AND RECORD DRWINGS/AS-BUILTS

Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.

After improvements have been constructed, the developer shall be responsible for providing to the City "As Built" or "Record Drawings". The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.

Submit 1-set of printed drawings of the "Record Drawings" containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the "Record Drawing" digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.

Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as "Record Drawings" or "As Built Drawings" on all sheets.

The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer's surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like or similar disclaimer verbiage will not be accepted by the City of Rockwall.

Example of Acceptable Disclaimer: "To the best of our knowledge ABC Engineering, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor."

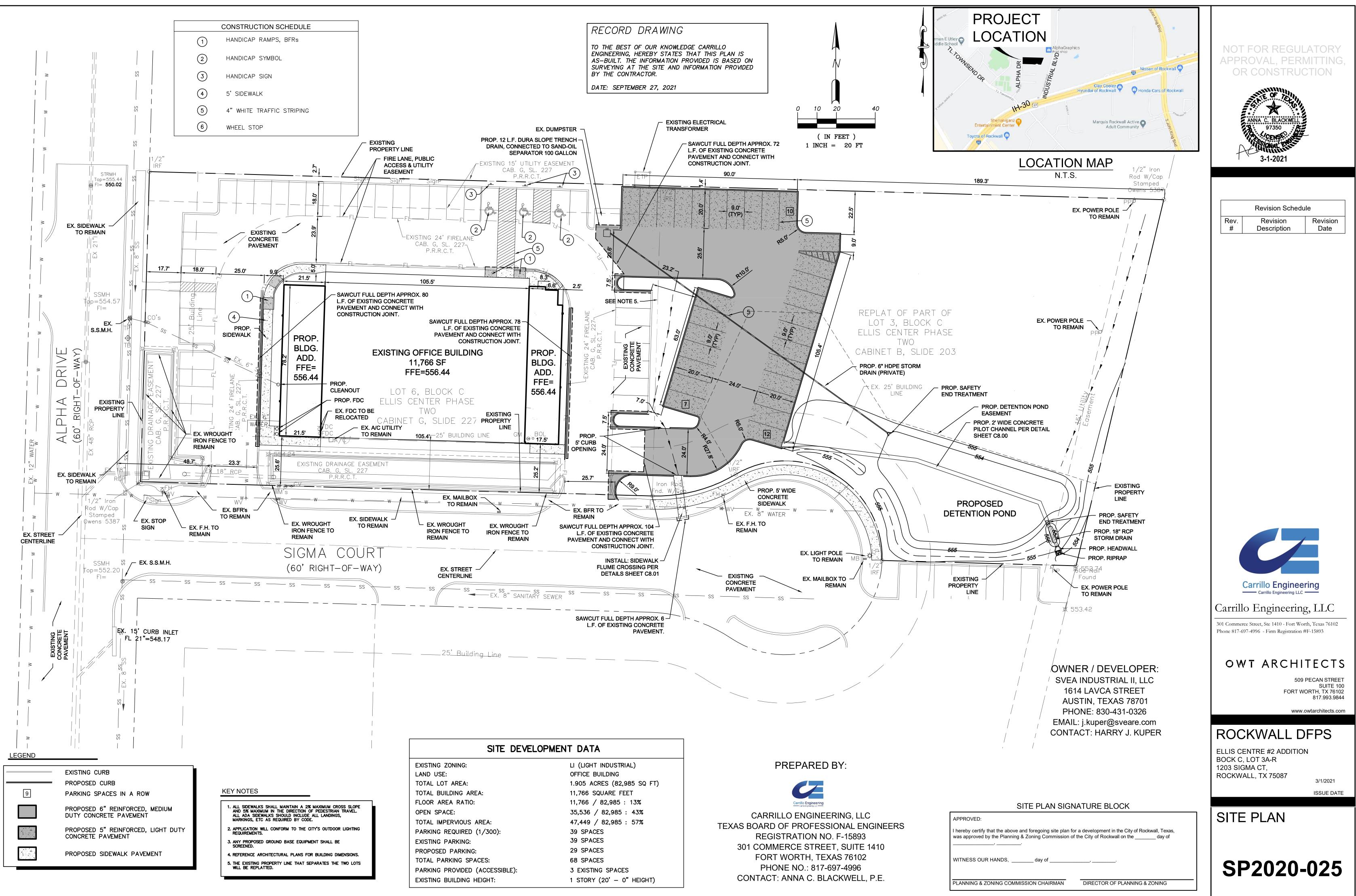


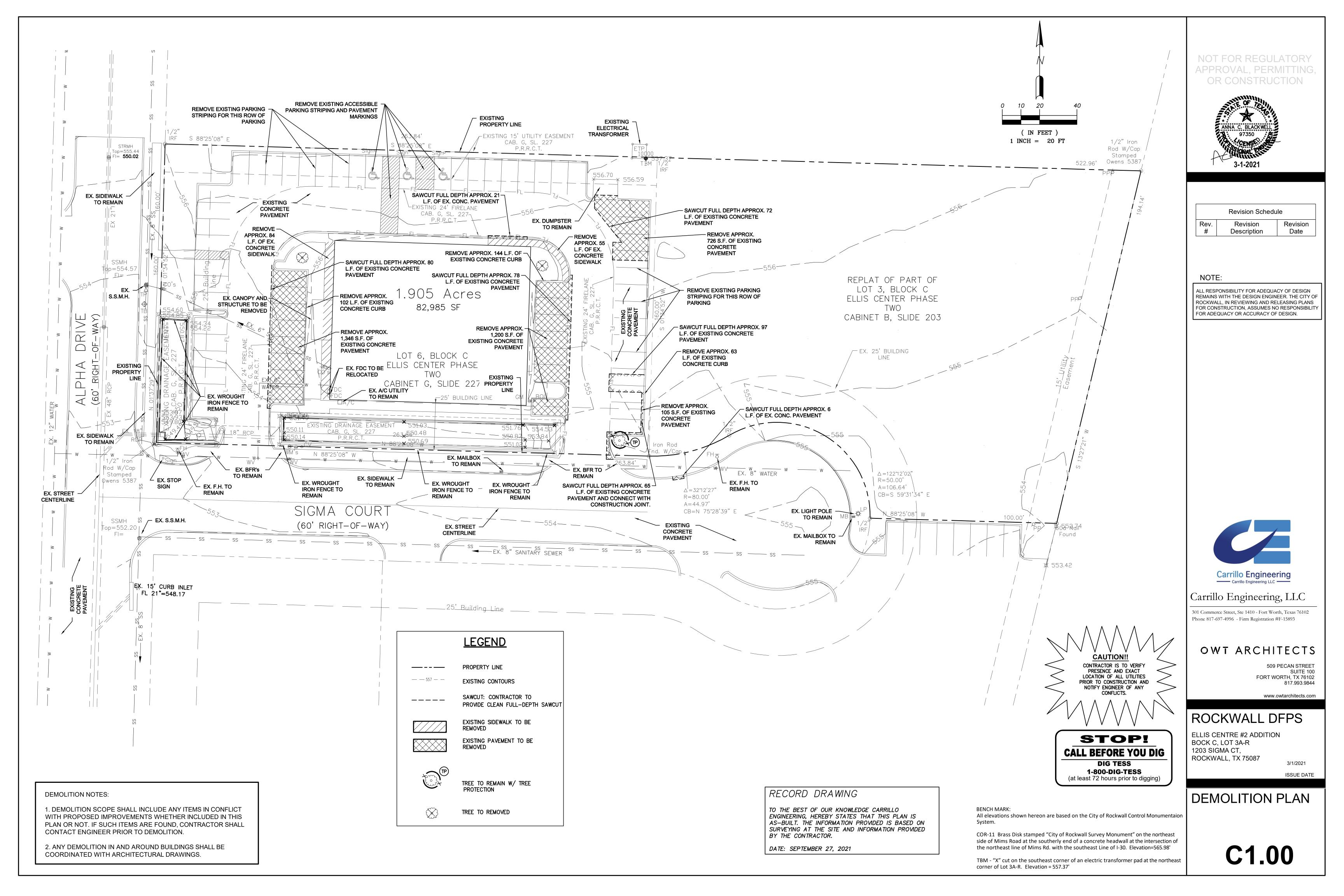
#### RECORD DRAWING

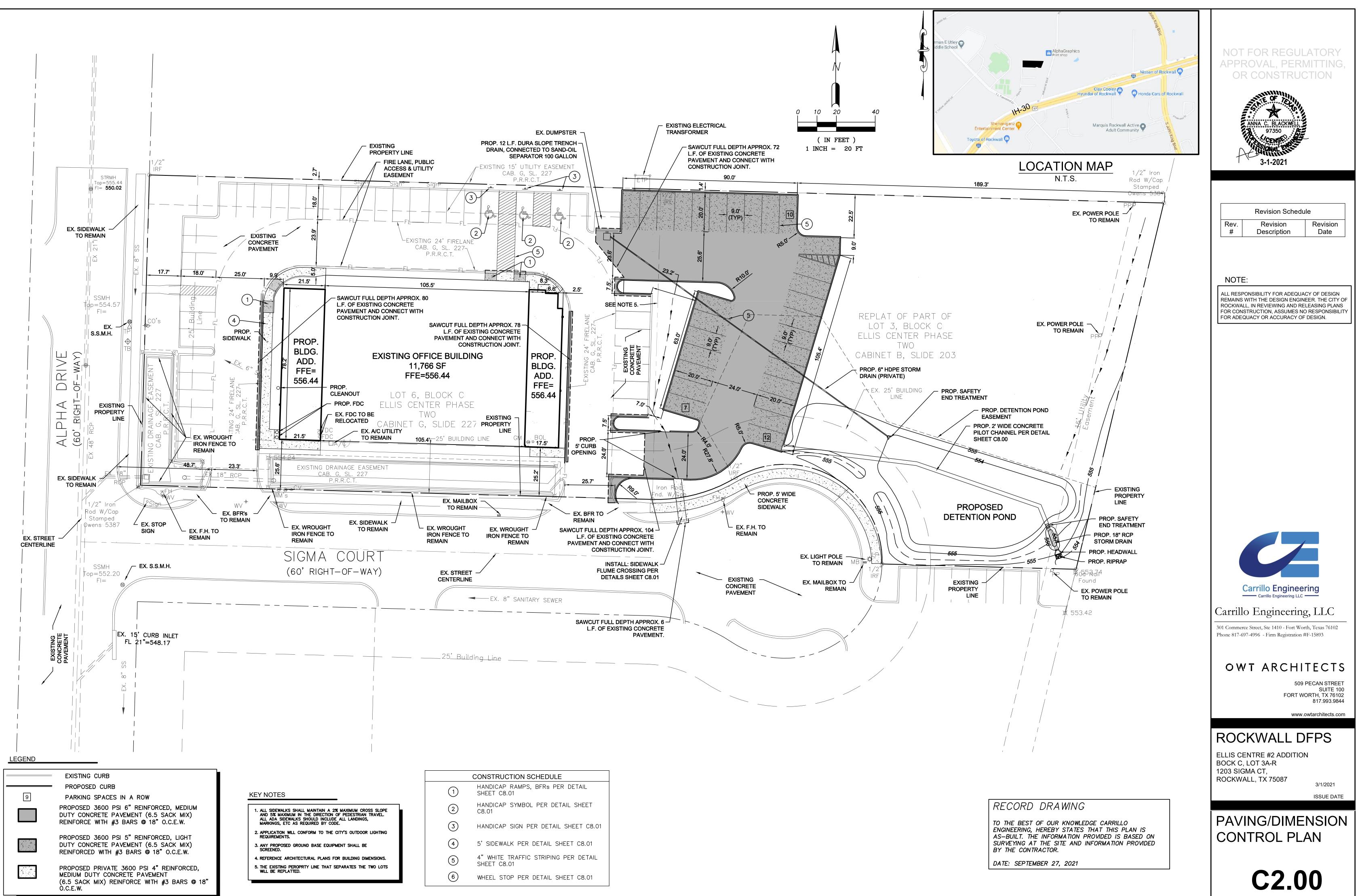
TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

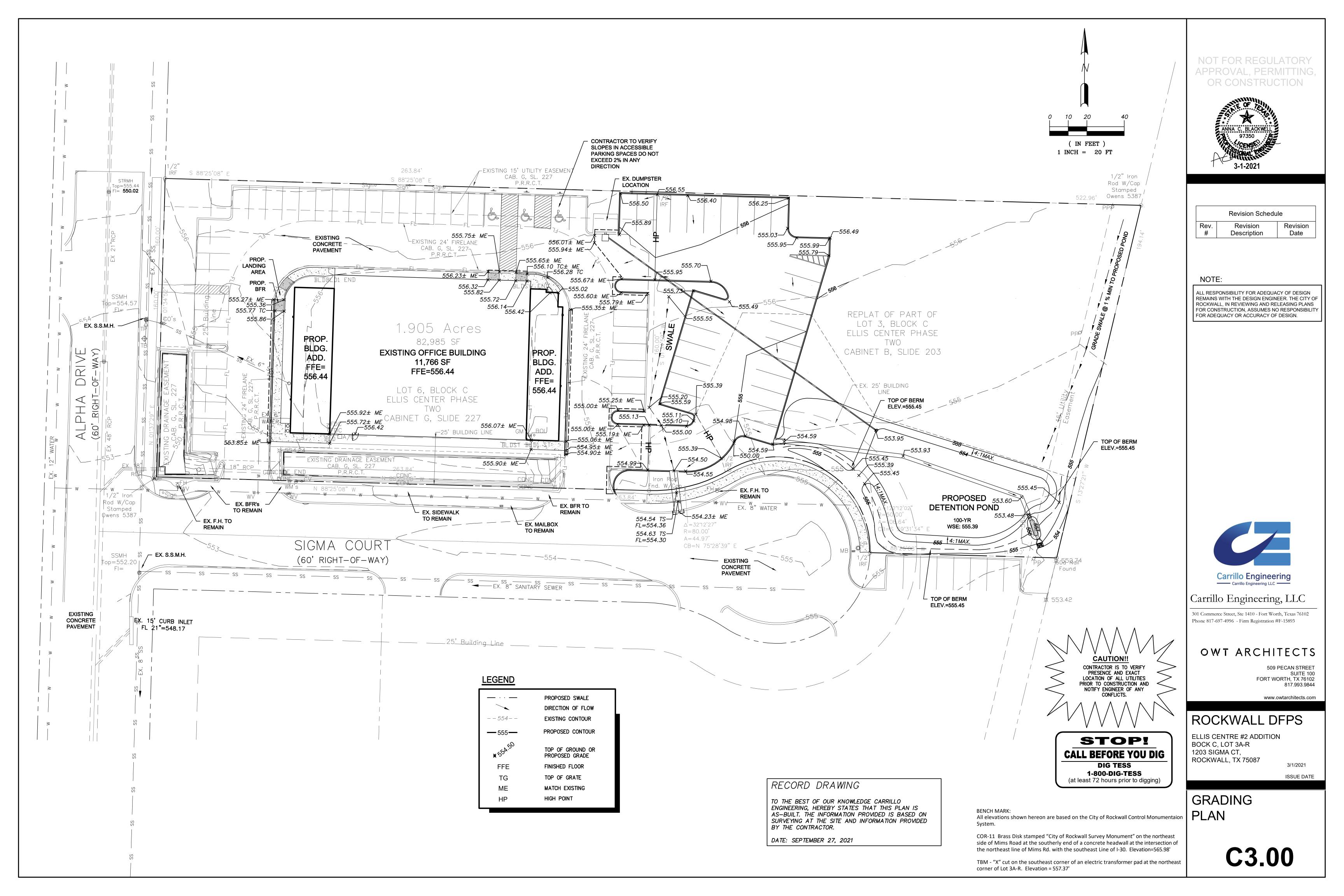
DATE: SEPTEMBER 27, 2021

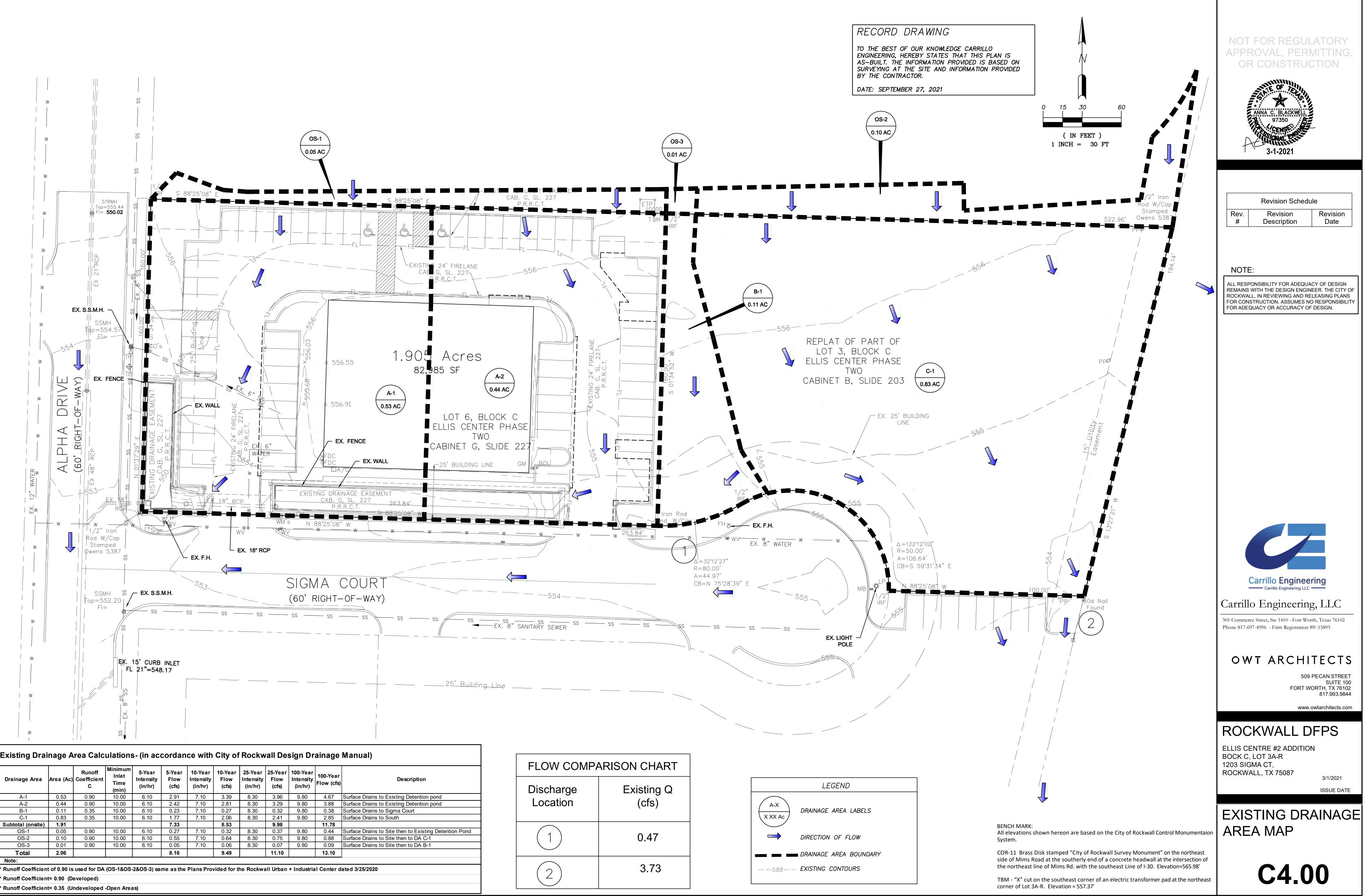
	<section-header></section-header>
	Revision ScheduleRev.RevisionRevision#DescriptionDate
	Carrillo Engineering LLCOdd Engineering LLCSol Commerce Street, Ste 1410 - Fort Worth, Texas 76102Phone 817-697-4996 - Firm Registration #F-15893
GENERAL CONSTRUCTION NOTES Sheet 2 of 2 October 2020 CITY OF ROCKWALL ENGINEERING DEPARTMENT	OWT ARCHITECTS 509 PECAN STREET SUITE 100 FORT WORTH, TX 76102 817.993.9844 www.owtarchitects.com
385 S. Goliad         P (972) 771-7746           Rockwall, Texas 75087         F (972) 771-7748	ROCKWALL DFPS ELLIS CENTRE #2 ADDITION BOCK C, LOT 3A-R 1203 SIGMA CT, ROCKWALL, TX 75087 3/1/2021 ISSUE DATE
BENCH MARK: All elevations shown hereon are based on the City of Rockwall Control Monumentaid System. COR-11 Brass Disk stamped "City of Rockwall Survey Monument" on the northeast side of Mims Road at the southerly end of a concrete headwall at the intersection of the northeast line of Mims Rd. with the southeast Line of I-30. Elevation=565.98' TBM - "X" cut on the southeast corner of an electric transformer pad at the northeast	<b>CU U3</b>
corner of Lot 3A-R. Elevation = 557.37'	



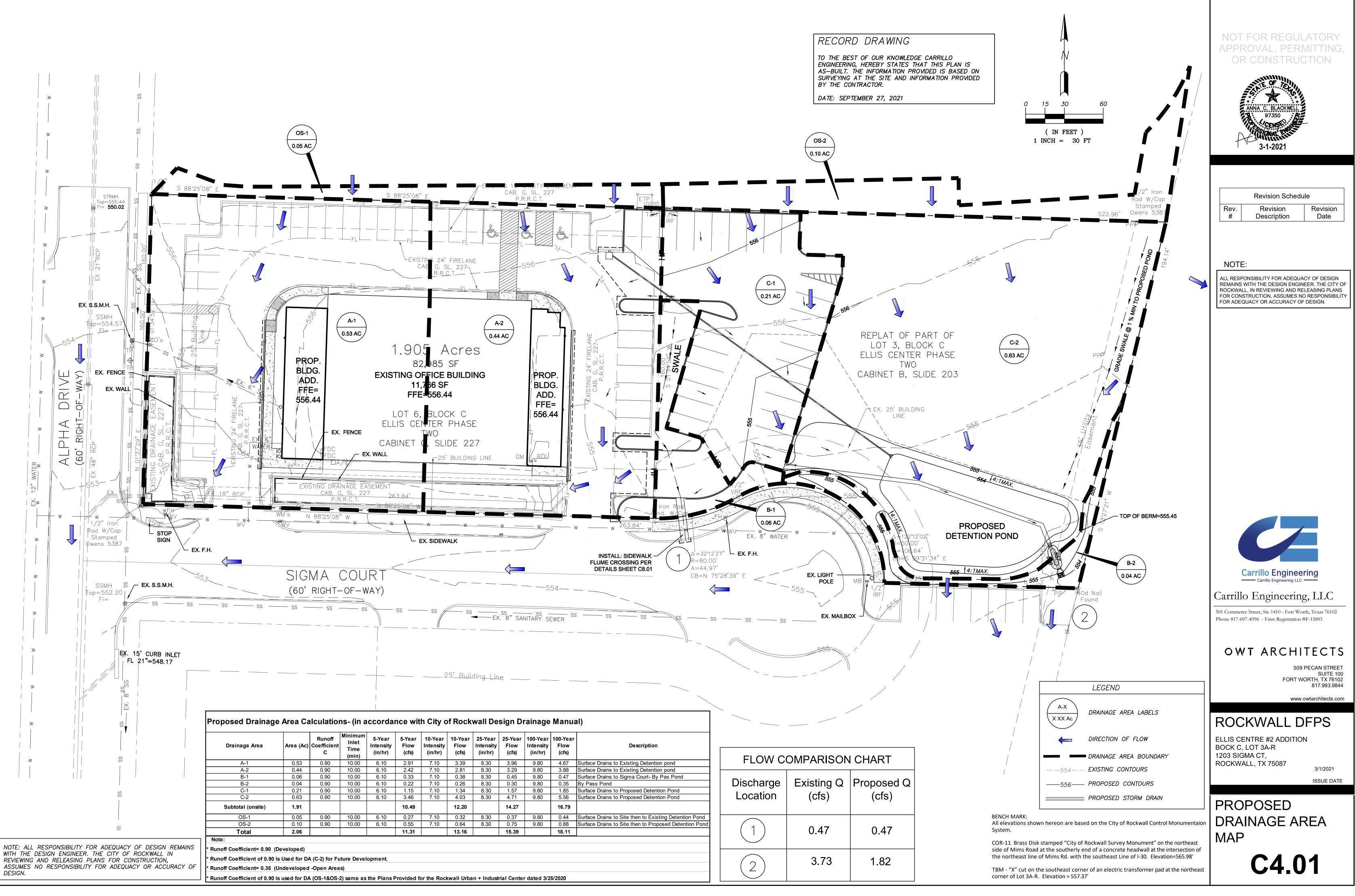




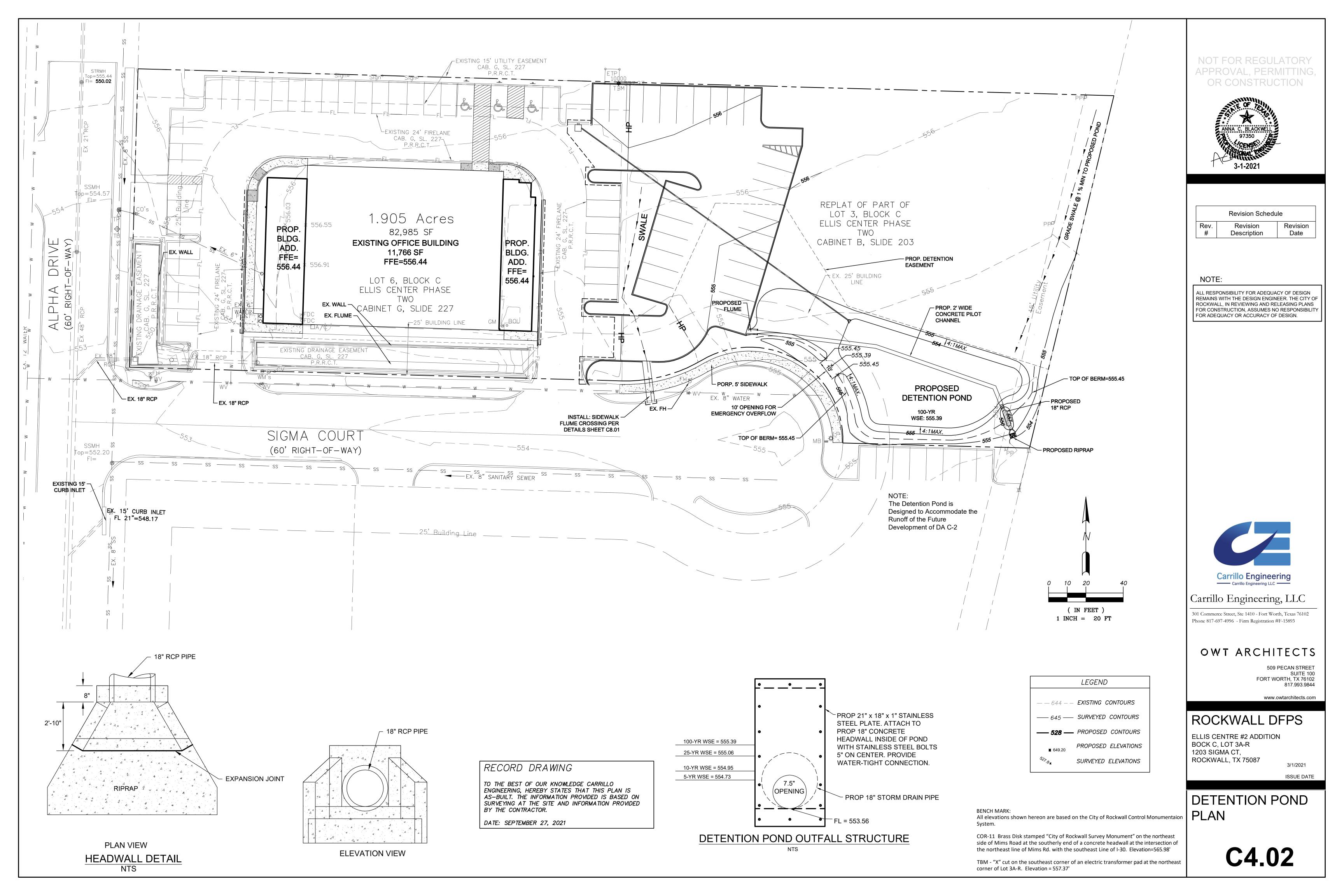




Existing Drainage Area Calculations- (in accordance with City of Rockwall Design Drainage Manual)									wall De	sign Dr			]		
Drainage Area	Area (Ac	Runoff ) Coefficient C	Minimum Inlet Time (min)	5-Year Intensity (in/hr)	5-Year Flow (cfs)	10-Year Intensity (in/hr)	10-Year Flow (cfs)	25-Year Intensity (in/hr)	25-Year Flow (cfs)	100-Year Intensity (in/hr)	100-Year Flow (cfs	Description	Discharge	PARISON CHART Existing Q	LEGEND
A-1	0.53	0.90	10.00	6.10	2.91	7.10	3.39	8.30	3.96	9.80	4.67	Surface Drains to Existing Detention pond			
A-2	0.44	0.90	10.00	6.10	2.42	7.10	2.81	8.30	3.29	9.80	3.88	Surface Drains to Existing Detention pond	Location	Location (cfs)	A-X
B-1	0.11	0.35	10.00	6.10	0.23	7.10	0.27	8.30	0.32	9.80	0.38	Surface Drains to Sigma Court			DRAINAGE AREA LABELS
C-1	0.83	0.35	10.00	6.10	1.77	7.10	2.06	8.30	2.41	9.80	2.85	Surface Drains to South			
Subtotal (onsite)	1.91				7.33		8.53		9.98		11.78				
OS-1	0.05	0.90	10.00	6.10	0.27	7.10	0.32	8.30	0.37	9.80	0.44	Surface Drains to Site then to Existing Detention Pond		0.47	
OS-2	0.10	0.90	10.00	6.10	0.55	7.10	0.64	8.30	0.75	9.80	0.88	Surface Drains to Site then to DA C-1		0.47	DIRECTION OF FLOW
OS-3	0.01	0.90	10.00	6.10	0.05	7.10	0.06	8.30	0.07	9.80	0.09	Surface Drains to Site then to DA B-1			
Total	2.06				8.16		9.49		11.10		13.10				
Note:													$\frown$		
* Runoff Coefficier	nt of 0.90 i	s used for DA	(OS-1&OS	-2&OS-3) sa	ame as the	Plans Pro	ovided for	the Rockw	all Urban	+ Industri	al Center o	lated 3/25/2020	$\left  \left( 2 \right) \right $	3.73	— — 588— — EXISTING CONTOURS
* Runoff Coefficier	* Runoff Coefficient= 0.90 (Developed)														
* Runoff Coefficier	ot= 0 35 /l	Indeveloped	-Onen Are	ae)											



Discharge Location	Existing Q (cfs)	Proposed C (cfs)
	0.47	0.47
(2)	3.73	1.82



ainage / Detention Calcu	ulations (5-YEAR)			/ <b>Detention C</b> Rational Metho	Iculations (10-YEAR)			Drainage / Detention Calculations (25-YEAR) Modified Rational Method			e / Detention Calculations (100-YEAR)		
						ouble for f		Required Storage Volume 8,418 cubic-feet 0.193 acre-feet			Storage Volume 11,7	35 cubic-feet	
quired Storage Volume	5,641 cubic-feet 0.129 acre-feet		Required \$	Storage Volume		cubic-feet acre-feet		Onsite Existing Conditions		Onsite Exi	isting Conditions	71 acre-feet	
			Oneita Evi	ating Conditions				Area     0.93 acres     Total Acreage Going to Pond Area- DA (C-1&OS-2)       Time (Tc)     20 minutes		Area Time (Tc)	0.93 acres Total Acreage Going to Ponc	Area- DA (C-1&OS-2)	
site Existing Conditions a 0.93 acres	Total Acreage Going to Pond Area- DA(	C-1&OS-2)	Area	0.93 acres	Total Acreage Going to Pond A	Area- DA (C-	1&OS-2)	C value 0.35		C value	0.35		
ne (Tc) 20 minutes alue 0.35			Time (Tc) C value	20 minute 0.35	3			I-25yr 6.60 in/hr Q 25-yr 2.15 cfs Allowable Release		I-100yr	8.30 in/hr		
yr 4.90 in/hr			I-10 yr	5.90 in/hr				0.75 cfs By- Pass Q DA (B-1&B-2)		Q 100-yr	2.70 cfs Allowable Release 0.88 cfs By- Pass Q DA (B-1&B-2)		
5-yr 1.59 cfs 0.55 cfs	Allowable Release By- Pass Q DA (B-1&B-2)		Q 10-yr	1.92 cfs 0.64 cfs	Allowable Release By- Pass Q DA (B-1&B-2)			1.40 cfs     Actual Allowable Release       1.61 cfs     Actual Pond Release			1.82 cfs         Actual Allowable Release           1.82 cfs         Actual Pond Release		
1.05 cfs 1.37 cfs	Actual Allowable Release		1	1.28 cfs 1.53 cfs	Actual Allowable Release Actual Pond Release			Onsite Proposed Conditions					
	Actual Pond Release							Area 0.94 acres Total Acreage Going to Pond- DA (C-1&C-2&OS-1)		Onsite Pro	0.94 acres Total Acreage Going to Ponc	- DA (C-1&C-2&OS-1)	
site Proposed Conditions	Total Acreage Going to Pond- DA (C-1&	2-28 (05-1)	Area	0.94 acres	Total Acreage Going to Pond-	DA (C-1&C-2	2&OS-1)	Time (Tc)         10 minutes           C value         0.90		Time (Tc)	10 minutes		
ne (Tc) 10 minutes			Time (Tc) C value	10 minute 0.90	3			I-25yr 8.30 in/hr		C value I-100yr	0.90 9.80 in/hr		
alue 0.90 yr 6.10 in/hr			l-10 yr	7.10 in/hr				Q 25-yr 7.02 cfs Developed Runoff		Q 100-yr	8.29 cfs Developed Runoff		
5-yr 5.16 cfs	Developed Runoff		Q 10-yr	6.01 cfs	Developed Runoff								
			D. ((					Runoff per Storm Event - Developed Rockwall Rainfall	Intensity	Runoff pe	r Storm Event - Developed	Rockwall Ra	ainfall Intensity
noff per Storm Event - Develo	oped Runoff	Rockwall         Rainfall         Intensity           Time	Runoff per	Storm Event - De	veloped	Runoff	Rockwall Rainfall Intensity Time	Time Runoff <b>Time</b>		Time		Runoff <b>Time</b>	
ne (min.) I-5yr C value	e Area (ac) (cfs)	(min.) I-5 yr I-10 yr I-25 yr I-100 yr	Time (min.)	I-10yr C valu		(cfs)	(min.) I-5 yr I-10 yr I-25 yr I-100 yr	(min.)         I-25yr         C value         Area (ac)         (cfs)         (min.)         I-5 yr           5         9.185         0.90         0.94         7.77         5         6.873	I-10 yr         I-25 yr         I-100 yr           7.975         9.185         11.103	(min.)	I-100yr         C value         Area (ac)           11.103         0.90         0.94		5 yr         I-10 yr         I-25 yr         I-1           .873         7.975         9.185         1
5 6.873 0.90 10 6.100 0.90		5         6.873         7.975         9.185         11.103           10         6.100         7.100         8.300         9.800	5 10	7.9750.97.1000.9	0.94 0.94	6.75 6.01	5         6.873         7.975         9.185         11.103           10         6.100         7.100         8.300         9.800	10         8.300         0.90         0.94         7.02         10         6.100           15         7.500         0.90         0.94         6.35         15         5.500	7.1008.3009.8006.5007.5009.000	10	9.800 0.90 0.94	8.29 10 6	.100 7.100 8.300 9
15 5.500 0.90	90         0.94         4.65	15 5.500 6.500 7.500 9.000	15 20	6.500 0.9 5.900 0.9	0.94	5.50 4.99	15         5.500         6.500         7.500         9.000           20         4.900         5.900         6.600         8.300	20 6.600 0.90 0.94 5.58 20 4.900	5.900 6.600 8.300	15 20	9.000         0.90         0.94           8.300         0.90         0.94		.5006.5007.5009.9005.9006.6008
20         4.900         0.90           25         4.500         0.90		20         4.900         5.900         6.600         8.300           25         4.500         5.350         6.050         7.600	30	5.350 0.9	0.94	4.53	25 4.500 5.350 6.050 7.600	25         6.050         0.90         0.94         5.12         25         4.500           30         5.500         0.90         0.94         4.65         30         4.100	5.3506.0507.6004.8005.5006.900	25	7.600 0.90 0.94	6.43 25 4	.500 5.350 6.050 7
30 4.100 0.90	90 0.94 3.47	30 4.100 4.800 5.500 6.900	25 35	4.800 0.9 4.400 0.9	0.94 0.94	4.06 3.72	30         4.100         4.800         5.500         6.900           35         3.750         4.400         5.050         6.350	35 5.050 0.90 0.94 4.27 35 3.750	4.400 5.050 6.350	30 35	6.9000.900.946.3500.900.94		.1004.8005.5006.7504.4005.0506
35         3.750         0.90           40         3.400         0.90	90 0.94 2.88	35         3.750         4.400         5.050         6.350           40         3.400         4.000         4.600         5.800	40	4.000 0.9	0.94	3.38	40 3.400 4.000 4.600 5.800	40         4.600         0.90         0.94         3.89         40         3.400           50         4.000         0.90         0.94         3.38         50         2.800	4.0004.6005.8003.5004.0005.000	40	5.800         0.90         0.94           5.000         0.90         0.94	4.91 40 3	.4004.0004.6005.8003.5004.0005
50         2.800         0.90           60         2.600         0.90		50         2.800         3.500         4.000         5.000           60         2.600         3.000         3.500         4.500	50 60	3.5000.93.0000.9	0.94 0.94	2.96 2.54	50         2.800         3.500         4.000         5.000           60         2.600         3.000         3.500         4.500	60         3.500         0.90         0.94         2.96         60         2.600           70         3.310         0.90         0.94         2.80         70         2.450	3.000         3.500         4.500           2.860         3.310         4.000	60	4.500 0.90 0.94	3.81 60 2	.600 3.000 3.500 4
00         2.000         0.90           70         2.450         0.90	90 0.94 2.07	70 2.450 2.860 3.310 4.000	70 80	2.860 0.9 2.600 0.9	0.94 0.94	2.42 2.20	70         2.450         2.860         3.310         4.000           80         2.300         2.600         3.133         3.700	80 3.133 0.90 0.94 2.65 80 2.300	2.800         3.310         4.000           2.600         3.133         3.700	70 80	4.000         0.90         0.94           3.700         0.90         0.94	3.38         70         2           3.13         80         2	4502.8603.3104.3002.6003.1333
80         2.300         0.90           90         2.100         0.90		80         2.300         2.600         3.133         3.700           90         2.100         2.500         2.900         3.500	90	2.500 0.9	0.94	2.12	90 2.100 2.500 2.900 3.500	90         2.900         0.90         0.94         2.45         90         2.100           100         2.700         0.90         0.94         2.28         100         1.900	2.5002.9003.5002.4002.7003.400	90	3.500 0.90 0.94	2.96 90 2	.100 2.500 2.900 3
100         1.900         0.90           110         1.800         0.90	90 0.94 1.61	100         1.900         2.400         2.700         3.400           110         1.900         2.200         2.500         3.200	100	2.400 0.9 2.300 0.9	0.94	2.03 1.95	100         1.900         2.400         2.700         3.400           110         1.800         2.300         2.500         3.200	110         2.500         0.90         0.94         2.12         110         1.800           120         2.400         0.90         0.94         2.03         120         1.700	2.3002.5003.2002.2002.4003.100	100	3.400         0.90         0.94           3.200         0.90         0.94	2.88         100         1           2.71         110         1	.9002.4002.7003.8002.3002.5003
120 1.700 0.90	0.94 1.44	110         1.800         2.300         2.500         3.200           120         1.700         2.200         2.400         3.100	120	2.200 0.9 1.800 0.9	0.94	1.86 1.52	120         1.700         2.200         2.400         3.100           130         1.600         1.800         2.250         2.800	130         2.250         0.90         0.94         1.90         130         1.600	1.800 2.250 2.800	120	3.100         0.90         0.94           2.800         0.90         0.94	2.62         120         1           2.37         130         1	7002.2002.4003.6001.8002.2502
130         1.600         0.90           140         1.400         0.90		130         1.600         1.800         2.250         2.800           140         1.400         1.600         2.000         2.500	140	1.600 0.9	0.94	1.35	130         1.000         1.000         2.250         2.800           140         1.400         1.600         2.000         2.500	140         2.000         0.90         0.94         1.69         140         1.400	1.600 2.000 2.500	140	2.500         0.90         0.94           2.500         0.90         0.94		400         1.600         2.250         2           .400         1.600         2.000         2
			Inflow per	Storm Event				Inflow per Storm Event		Inflow per	r Storm Event		
ow per Storm Event	(ft^3)		Storm	Inflo				Storm Inflow Event Runoff (ft^3)		Storm	Inflow		
- ,	1,744		Event 5	Runoff (ft <sup>A</sup> ) 6.75 2,				5 7.77 2,331		Event 5	Runoff (ft^3) 9.39 2.818		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,096 4,188		10	6.01 3,	04			10         7.02         4,213           15         6.35         5,711		10	8.29 4,974		
,	4,974 5.711		20	5.50     4,       4.99     5,	90			20 5.58 6,700		15 20	7.61         6,853           7.02         8,426		
30 3.47 6,3	5,243		25 30	4.53 6, 4.06 7.	89			25 5.12 7,677 30 4.65 8.375		25	6.43 9,644		
,	6,662 6,903		35	3.72 7,	17			35         4.27         8,972		30 35	5.84 10,507 5.37 11.281		
50 2.37 7,	7,106		40	3.38 8, 2.96 8,	83			40         3.89         9,340           50         3.38         10.152		40	4.91 11,776		
60         2.20         7,9           70         2.07         8,7	7,919 3,705		60	2.54 9,	37			60         2.96         10,660		50 60	4.23 12,690 3.81 13,705		
	9,340		70 80	2.42 10, 2.20 10,	62 58			70         2.80         11,761           80         2.65         12,722		70	3.38 14,213		
	9,594 9,644		90 100	2.12 11, 2.03 12.				90         2.45         13,248           100         2.28         13,705		80 90	3.13         15,025           2.96         15,989		
	D,050 D,355		110	1.95 12,	42			100         2.28         13,705           110         2.12         13,959		100	2.88 17,258		
130 1.35 10,	0,558		120 130	1.86 13, 1.52 11.	01 78			120         2.03         14,619           130         1.90         14,847		110 120	2.71         17,868           2.62         18,883		
140 1.18 9,9	9,949		140	1.35 11,	70			140         1.69         14,213		130 140	2.37         18,477           2.12         17,766		
tflow per Storm Event Storm Time Release	ase Outflow (ft^3)		Outflow pe	r Storm Event Time Relea	se Outflow (ft^3)			Outflow per Storm Event		Outflow p Storm	Time Release Outflow (ft^3)		
5 15 1.37 10 20 1.37			5	15 1.5	689			Storm         Time         Release         Outflow (ft^3)           5         15         1.61         725		5	15 1.82 8	19	
15 25 1.37	37 1,028		10 15	20 1.5 25 1.5	0.0			10         20         1.61         966           15         25         1.61         1.208		10	20         1.82         1,0           25         1.82         1,3	35	
20         30         1.37           25         35         1.37	· · ·		20	30 1.5	1,377			20         30         1.61         1,449           25         35         1.61         1.691		20 25	30         1.82         1,6           35         1.82         1.9		
30 40 1.37	37 1,644		30	35 1.5 40 1.5	7			25         35         1.61         1,691           30         40         1.61         1,932		30	40 1.82 2,1	34	
35         45         1.37           40         50         1.37			35 40	45 1.5 50 1.5				35         45         1.61         2,174            40         50         1.61         2,415		35 40	45         1.82         2,4           50         1.82         2,7		
50         60         1.37           60         70         1.37	37 2,466		50	60 1.5	2,754			50 60 1.61 2,898		50	60         1.82         3,2           70         1.82         3,8	76	
70 80 1.37	37 3,288		60 70	70 1.5 80 1.5				60         70         1.61         3,381           70         80         1.61         3,864		70	70         1.82         3,8           80         1.82         4,3		
80901.37901001.37			80 90	90 1.5 100 1.5	4,131			80         90         1.61         4,347            90         100         1.61         4,830		80 90	90         1.82         4,9           100         1.82         5,4		
100 110 1.37	37 4,521		100	110 1.5	5,049			100 110 1.61 5,313		100	110 1.82 6,0	06	
1101201.371201301.37			110 120	120 1.5 130 1.5				110         120         1.61         5,796           120         130         1.61         6,279		110 120	120         1.82         6,5           130         1.82         7,0		
130 140 1.37	37 5,754		130	140 1.5	6,426			130 140 1.61 6,762		130	140 1.82 7,6	14	
140 150 1.37	37 6,165		140	150 1.5	6,885			140 150 1.61 7,245		140	150 1.82 8,1		
ention Volume	Storago		Detention	/olume				Detention Volume		Detention	Volume	Ctore re-	
Storm Inflow Outflo			Storm	Inflow Outfl	w Storage (ft^3)	Storage (acre-ft)		Storm         Inflow         Outflow         Storage (ft^3)         (acre-ft)		Storm	Inflow Outflow Storage (ft^3)	Storage (acre-ft)	
5 1,744	617         1,128         0.026           822         2,274         0.052		5 10	2,024	89 1,336	0.031		5 2,331 725 1,607 0.037		5	2,818 819 1,9 4,974 1,092 3,8	0.046	
15 4,188 1,	1,028 3,160 0.073		15	4,949 1,	48 3,802	0.087		15 5,711 1,208 4,503 0.103		15	6,853 1,365 5,4	38 0.126	
	1,2333,7410.0861,4394,2720.098		20 25	5,990 1, 6,789 1,	77 4,613			20         6,700         1,449         5,251         0.121           25         7,677         1,691         5,987         0.137		20 25		38         0.156           33         0.178	
30 6,243 1,	1,644 4,599 0.106		30	7,309 1,	36 5,473	0.126		30 8,375 1,932 6,443 0.148		30	10,507 2,184 8,3	23 0.191	
	1,8504,8130.1102,0554,8480.111		35 40	7,817 2, 8,122 2,				35         8,972         2,174         6,798         0.156           40         9,340         2,415         6,925         0.159		35 40	11,281         2,457         8,8           11,776         2,730         9,0		
50 7,106 2,4	2,466 4,640 0.107		50	8,883 2,	54 6,129	0.141		50 10,152 2,898 7,254 0.167		50	12,690 3,276 9,4	14 0.216	
	2,8775,0420.1163,2885,4170.124		60 70	9,137 3, 10,162 3,		0.136 0.149		60         10,660         3,381         7,279         0.167           70         11,761         3,864         7,897         0.181		60 70	13,705         3,822         9,8           14,213         4,368         9,8	33         0.227           45         0.226	
80 9,340 3,	3,699 <b>5,641 0.129</b>		80	10,558 4,	31 6,427	0.148		80 12,722 4,347 8,375 0.192		80	15,025 4,914 10,1	11 0.232	
100 9,644 4,	4,1105,4840.1264,5215,1230.118		90 100	11,421 4, 12,182 5,	49 7,133			90         13,248         4,830         8,418         0.193           100         13,705         5,313         8,392         0.193		90 100	15,9895,46010,517,2586,00611,2		
110 10,050 4,9	4,9325,1180.1185,3435,0120.115		110 120		08 7,334	0.168		110         13,959         5,796         8,163         0.187           120         14,619         6,279         8,340         0.191		110	17,868 6,552 11,3	16 0.260	
130 10,558 5,	5,754 4,804 0.110		130	11,878 6,	26 5,452	0.125		130 14,847 6,762 8,085 0.186		120 130	18,477 7,644 10,8	33 0.249	
140 9,949 6,	6,165 3,784 0.087		140	11,370 6,	85 4,485	0.103		140 14,213 7,245 6,968 0.160		140	17,766 8,190 9,5		

Available S	Storage				
			Cumulative	Discharge	
Elevation	Area	Volume	Volume	Rate*	
(ft)	(sf)	(cf)	(cf)	(cfs)	
553.56	3584.35	-	-	-	
554.00	3897.52	1,646	1,646	-	
554.25	5092.83	1,124	2,770	-	
554.35	5570.95	533	3,303	-	
554.73	7387.82	2,462	5,765	1.37	←5-yr
554.95	8439.69	1,741	7,506	1.53	←10-yr
554.98	8583.13	255	7,762	-	
555.00	8678.75	173	7,934	-	
555.06	9049.03	532	8,466	1.61	←25-yr
555.39	11085.56	3,322	11,788	1.82	←100-yr
555.50	14850.06	1,426	13,215	-	
Q (allowa	ble release) =	5-yr	10-yr	25-yr	100-yr
		1.05	1.28	1.40	1.82

Outlet Calc	culations			
		Area	h	Q
Design	С	(sf)	(ft)	(cfs)
5-Yr	0.6	0.31	0.86	1.37
10-Yr	0.6	0.31	1.08	1.53
25-Yr	0.6	0.31	1.19	1.61
100-Yr	0.6	0.31	1.52	1.82

## RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 27, 2021

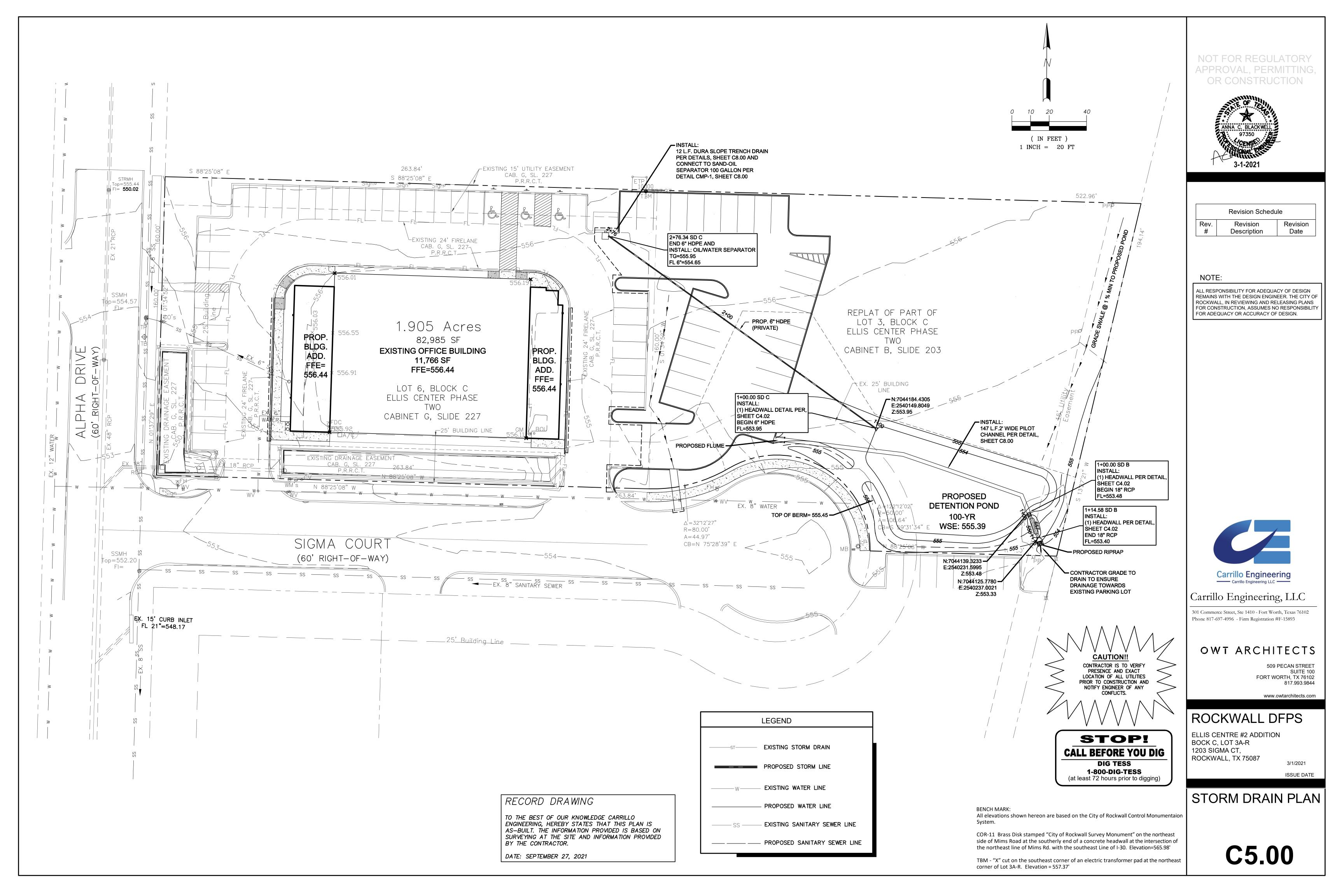
#### BENCH MARK:

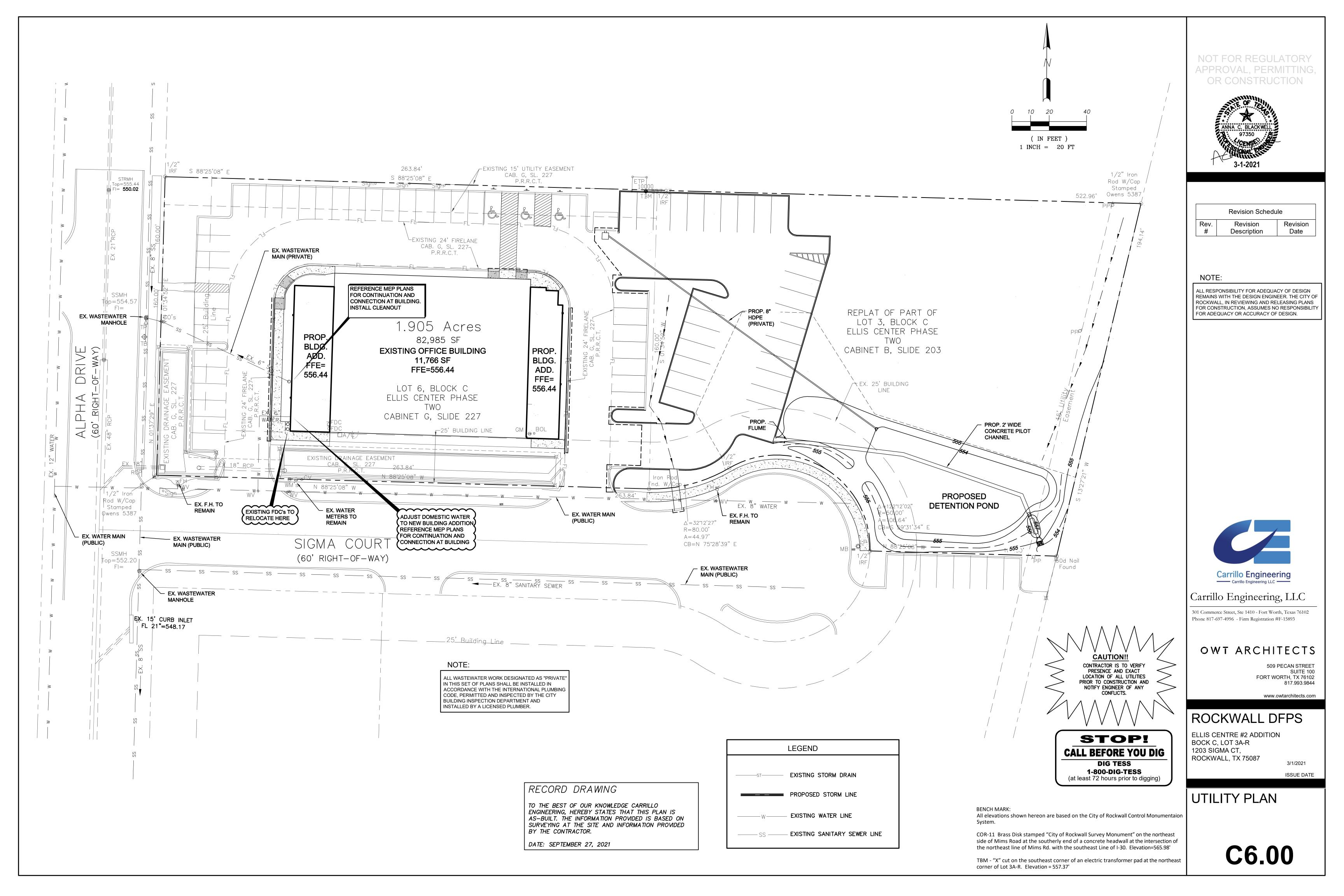
All elevations shown hereon are based on the City of Rockwall Control Monumentaion System.

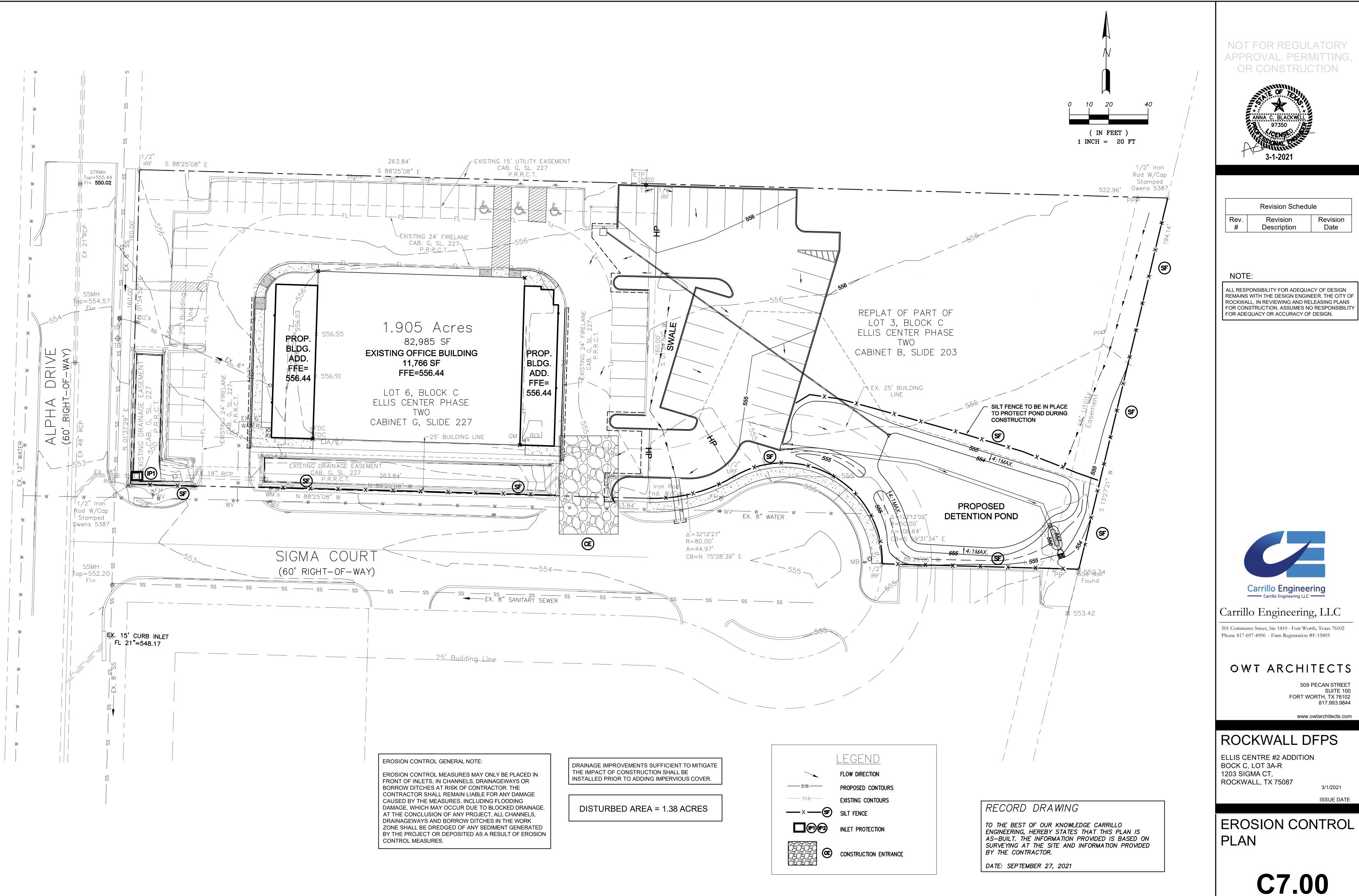
COR-11 Brass Disk stamped "City of Rockwall Survey Monument" on the northeast side of Mims Road at the southerly end of a concrete headwall at the intersection of the northeast line of Mims Rd. with the southeast Line of I-30. Elevation=565.98'

TBM - "X" cut on the southeast corner of an electric transformer pad at the northeast corner of Lot 3A-R. Elevation = 557.37'

# NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION 3-1-2021 **Revision Schedule** Rev. Revision Revision Description Date # Carrillo Engineering LLC Carrillo Engineering, LLC 301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102 Phone 817-697-4996 - Firm Registration #F-15893 OWT ARCHITECTS 509 PECAN STREET SUITE 100 FORT WORTH, TX 76102 817.993.9844 www.owtarchitects.com ROCKWALL DFPS ELLIS CENTRE #2 ADDITION BOCK C, LOT 3A-R 1203 SIGMA CT, ROCKWALL, TX 75087 3/1/2021 ISSUE DATE DETENTION POND CALCULATIONS C4.03







	STANDARD EROSION CONTROL GENERAL NOTES	
1.	EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.	SILT FENCE (MIN. HEIGHT 24" ABOVE
2.	ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF <b>ROCKWALL</b> .	EXIST. GROUND) COMPACTED EARTH OR ROCK BACKFILL
3.	IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.	
4.	IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.	FLOW
5.	INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION HALL SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.	SILT FENCE GEN 1. STEEL POSTS WHICH SI ANGLE TOWARD THE AN MINIMUM OF ONE FOOT 2. THE TOE OF THE SILT TRENCHER, SO THAT T
6.	CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.	PERPENDICULAR TO TH (e.g. PAVEMENT), WEIG FLOW FROM SEEPING U
7.	CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.	<ul> <li>3. THE TRENCH MUST BE FOR THE SILT FENCE F COMPACTED MATERIAL.</li> <li>4. SILT FENCE SHOULD BE WONTEN MUST MUST IN INC.</li> </ul>
		WOVEN WIRE, WHICH IN SHALL BE A 3 FOOT C
		5. INSPECTION SHALL BE OR REPLACEMENT SHAL
		6. SILT FENCE SHALL BE NOT TO BLOCK OR IMP

EROSION CONTROL SCHEDULE AND PHASING THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING: PHASE 1 - DEMOLITION/GRADING A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND TREE PROTECTION FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON

GRADING AND EROSION CONTROL PLAN, NOTES, AND DETAIL SHEETS. B. BEGIN CLEARING AND GRADING OF SITE.

C. SEED AND REVEGETATE SLOPES WHERE SHOWN.

PHASE 2 – UTILITIES

A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. B. INSTALL STORM DRAINS AS SPECIFIED ON PLAN SHEETS. C. INSTALL INLET PROTECTION.

PHASE 3 - PAVING A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.

B. STABILIZE SUBGRADE.

C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS. D. REMOVE TEMPORARY CONSTRUCTION ENTRANCE.

PHASE 4 - LANDSCAPING AND SOIL STABILIZATION

A. REVEGETATE LOT AND PARKWAYS

B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR

LANDSCAPE VEGETATIVE COVERS. C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

#### B.M.P. MAINTENANCE SCHEDULE TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE SONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.

EXCESS SOCK MATERIAL-TO BE DRAWN IN AND TIED OFF TO STAKE AT BOTH ENDS.



5. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE SOCK. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION. 6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

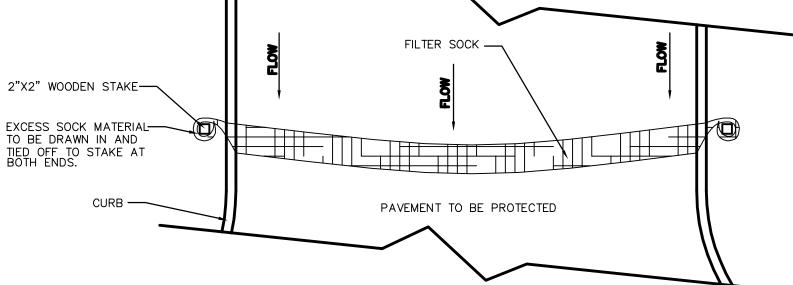
4. FILTER SOCK SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

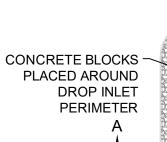
REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

3. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL.

1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS 2. FILTER SOCK TO BE FILTREXX INLET SOXX OR APPROVED EQUAL

FILTER SOCK GENERAL NOTES





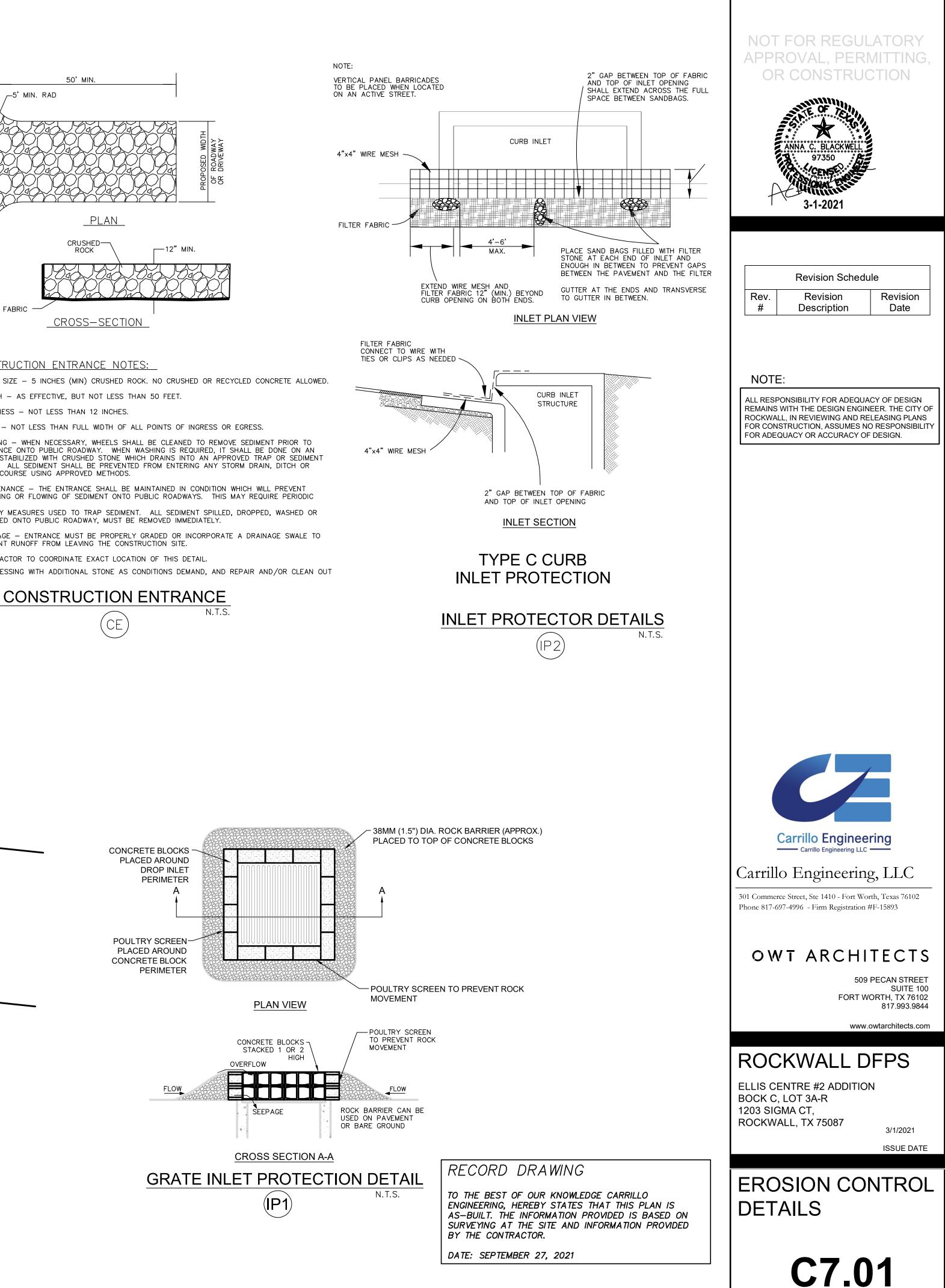
POULTRY SCREEN

PLACED AROUND

PERIMETER

FLOW

CONCRETE BLOCK



N.T.S.

## CONSTRUCTION OF A SILT FENCE

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

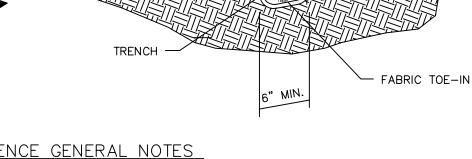
VIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE E A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET. ION SHALL BE MADE EVERY WEEK AND AFTER EACH 1/2" RAINFALL. REPAIR ACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

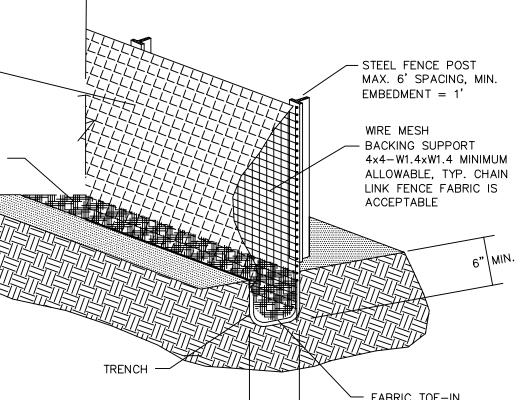
SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH ICE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO

OM SEÉPING UNDER FENCE. NCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW

OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL R, SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND ICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN VEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT

DSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT OWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A





# 516K PLAN CRUSHED-—12" MIN. ROCK FILTER FABRIC -

CROSS-SECTION

50' MIN

–5' MIN. RAD

CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - 5 INCHES (MIN) CRUSHED ROCK. NO CRUSHED OR RECYCLED CONCRETE ALLOWED.

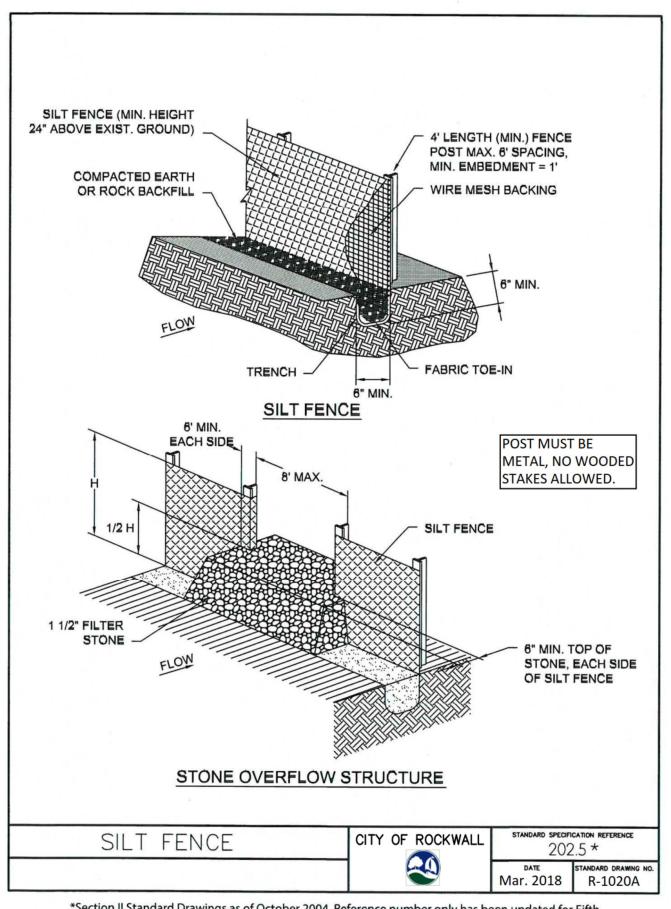
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

3. THICKNESS - NOT LESS THAN 12 INCHES.

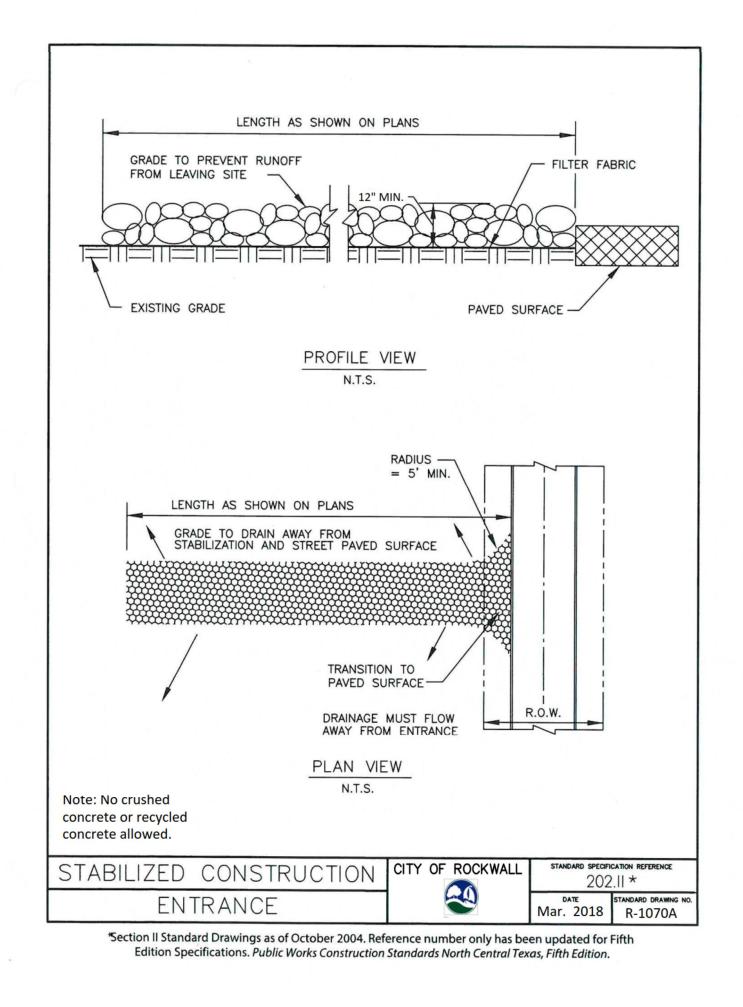
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

- 5. WASHING WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR
- WATERCOURSE USING APPROVED METHODS. 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT
- TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC
- OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR
- TRACKED ONTO PUBLIC ROADWAY, MUST BE REMOVED IMMEDIATELY.
- 7. DRAINAGE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO
- PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- 8. CONTRACTOR TO COORDINATE EXACT LOCATION OF THIS DETAIL. TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT





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



<u>SILT FE</u>	N
1. POS INSTALL RUNOFF ONE FO	E
2. THE A SPAD DOWNSL PERPEN BE TRE ROCK O FENCE.	
3. THE 6 INCHI LAID IN MATERI	E
4. SIL SUPPOF ATTACH OVERLA	
5. INS REPAIR NEEDED	
6. SIL IS ACH DEVICE	
7. AC A DEPT SHALL A MANI	E
8. FIL SIX (6")	
*Section II St Edition	

1. STO AGGREG 2. MIN 3. THE 4. THE POINTS 5. WHI SEDIMEN WASHIN STABILI FROM

7. THE A DRAIN CONSTR

10. NO

STABILIZE \*Section II Sta

ENCE GENERAL NOTES:	
STS WHICH SUPPORT THE SILT FENCE SHALL BE LED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED F SOURCE. POST MUST BE EMBEDDED A MINIMUM OF DOT.	
E TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH DE OR MECHANICAL TRENCHER, SO THAT THE LOPE FACE OF THE TRENCH IS FLAT AND NDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT ENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER	
E TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND IES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE N THE GROUND AND BACKFILLED WITH COMPACTED IAL.	
T FENCE SHOULD BE SECURELY FASTENED TO EACH RT POST OR TO WIRE BACKING, WHICH IN TURN IS HED TO THE FENCE POST. THERE SHALL BE A 3 FOOT AP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.	
SPECTION SHALL BE AS SPECIFIED IN THE SWPPP. R OR REPLACEMENT SHALL BE MADE PROMPTLY AS D.	
T FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION HEVED OR ANOTHER EROSION OR SEDIMENT CONTROL IS EMPLOYED.	
CCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES TH OF HALF THE HEIGHT OF THE FENCE. THE SILT BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH INER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.	

TER STONE SHALL BE WRAPPED IN FILTER FABRIC AND BURIED INCHES MINIMUM.

SILT FENCE	CITY OF ROCKWALL	standard specification reference 202.5 *		
	~	<sub>рате</sub> Mar. 2018	standard drawing no R-1020B	

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

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:
1. STONE SHALL BE 4 TO 6 INCH DIAMETER COARSE AGGREGATE.
2. MINIMUM LENGTH SHALL BE 50 FEET AND WIDITH SHALL BE 20 FEET.
3. THE THICKNESS SHALL NOT BE LESS THAN 12 INCHES.
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
8. PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS NECESSARY.
9. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.
10. NO CRUSHED OR RECYCLED CONCRETE ALLOWED.
BILIZED CONSTRUCTION CITY OF ROCKWALL 202.11 *
ENTRANCE   date standard drawing Mar. 2018 R-1070B
Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

#### ROCK CHECK DAM GENERAL NOTES:

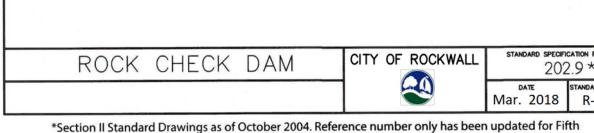
1. STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1% TO 3% INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.

2. THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

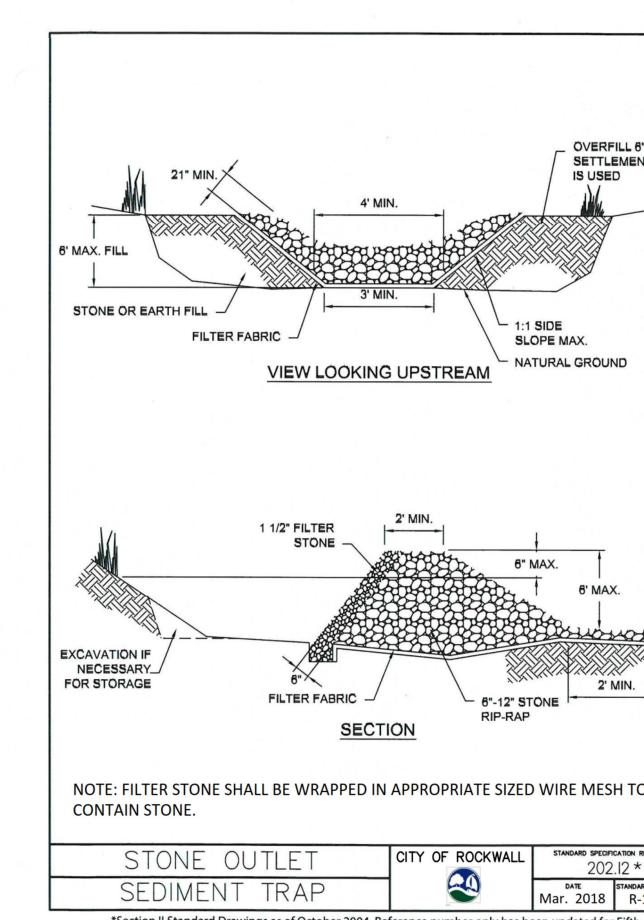
3. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.

4. WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

5. FILTER STONE SHALL BE WRAPPED IN APPROPRIATE SIZED WIRE MESH TO CONTAIN STONE AND BURIED SIX (6") INCHES MINIMUM.

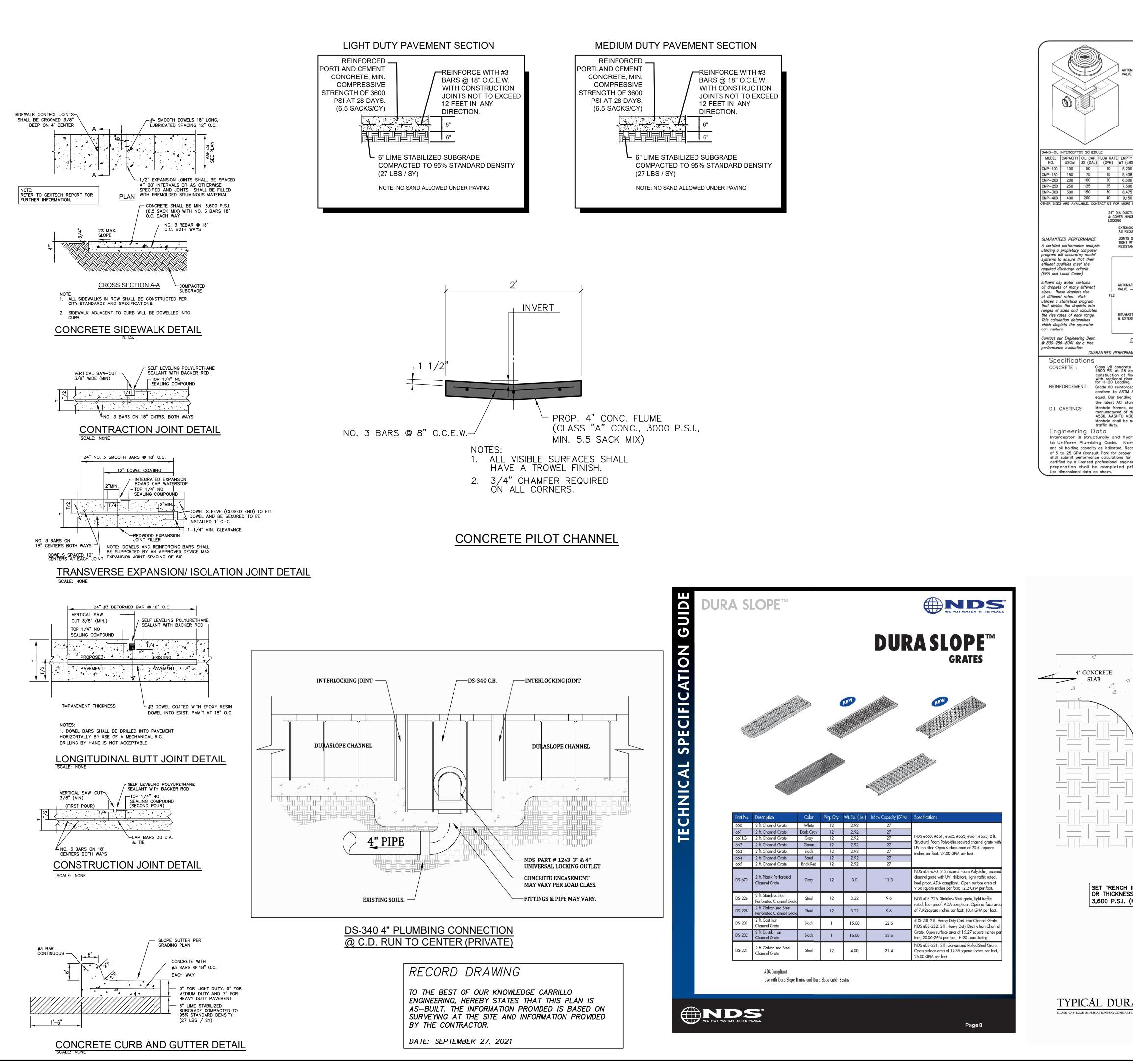


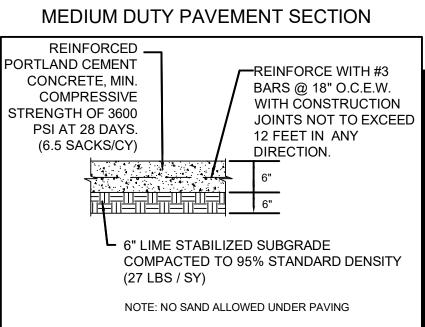
Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.



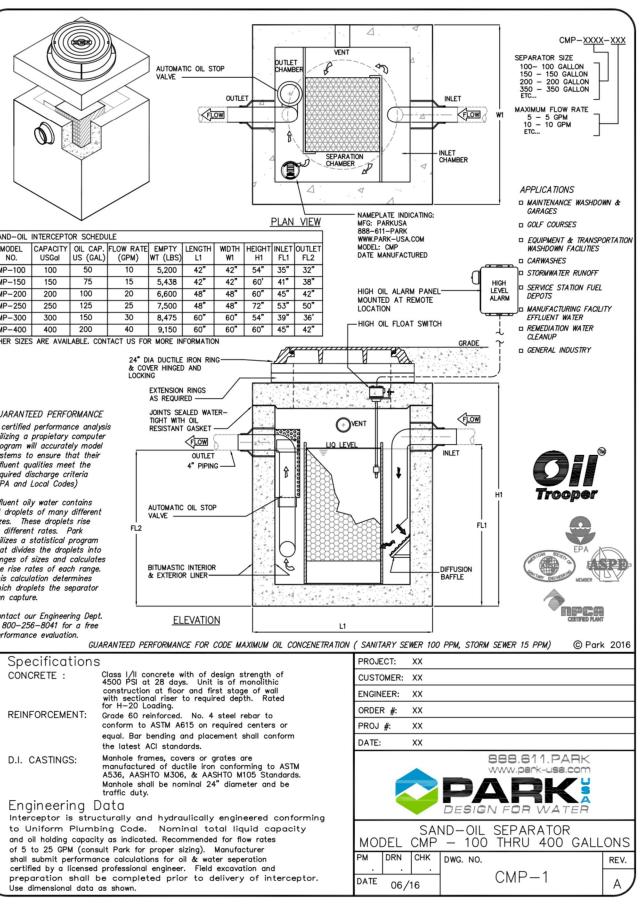
\*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

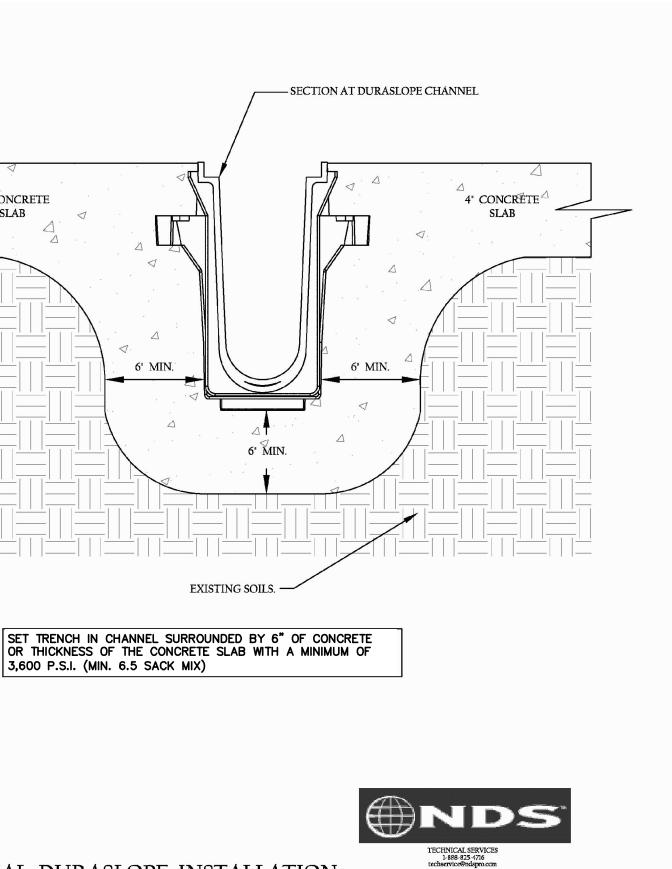
		NOT FOR REGULATORY APPROVAL, PERMITTING DOCUMENTAL OCCONSTRUCTIONImage: ConstructionImage: Cons
		Revision ScheduleRev.RevisionRevision#DescriptionDate
		NOTE: ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.
NO.		
LL		
		Carrillo Engineering LLC Carrillo Engineering LLC Carrillo Engineering, LLC 301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102 Phone 817-697-4996 - Firm Registration #F-15893
		OWT ARCHITECTS 509 PECAN STREET SUITE 100 FORT WORTH, TX 76102 817.993.9844 www.owtarchitects.com
	RECORD DRAWING	ROCKWALL DFPS ELLIS CENTRE #2 ADDITION BOCK C, LOT 3A-R 1203 SIGMA CT, ROCKWALL, TX 75087 3/1/2021 ISSUE DATE
5 NO.	TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR. DATE: SEPTEMBER 27, 2021	EROSION CONTROL CITY DETAILS



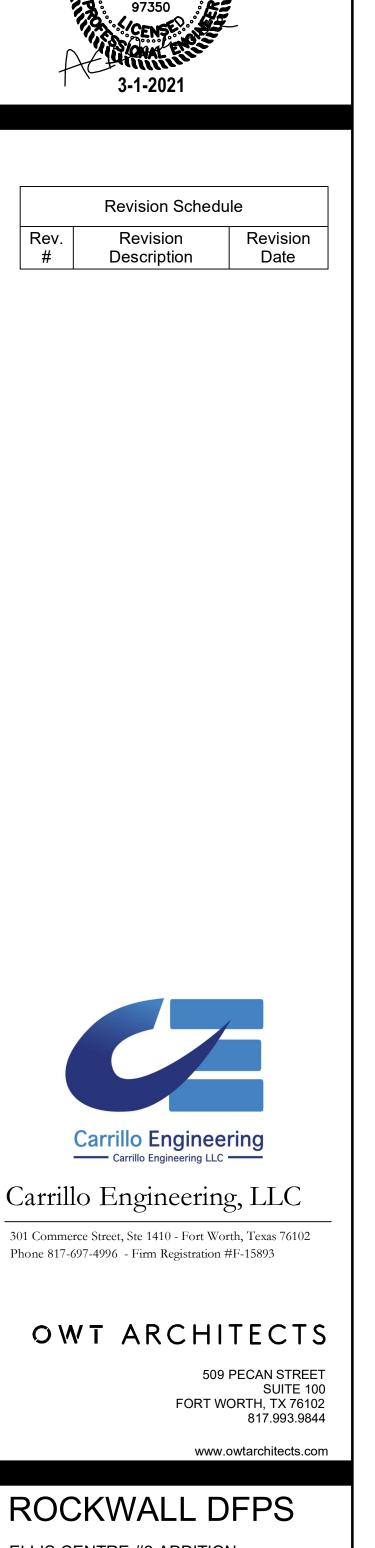


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CMP-200	200	100	20	+	6,0
CMP-250	250	125	25		7,
CMP-300 CMP-400	300 400	150 200	30 40	+	8,4 9,
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TYPICAL DURASLOPE INSTALLATION



NOT FOR REGULATORY

APPROVAL, PERMITTING

OR CONSTRUCTION

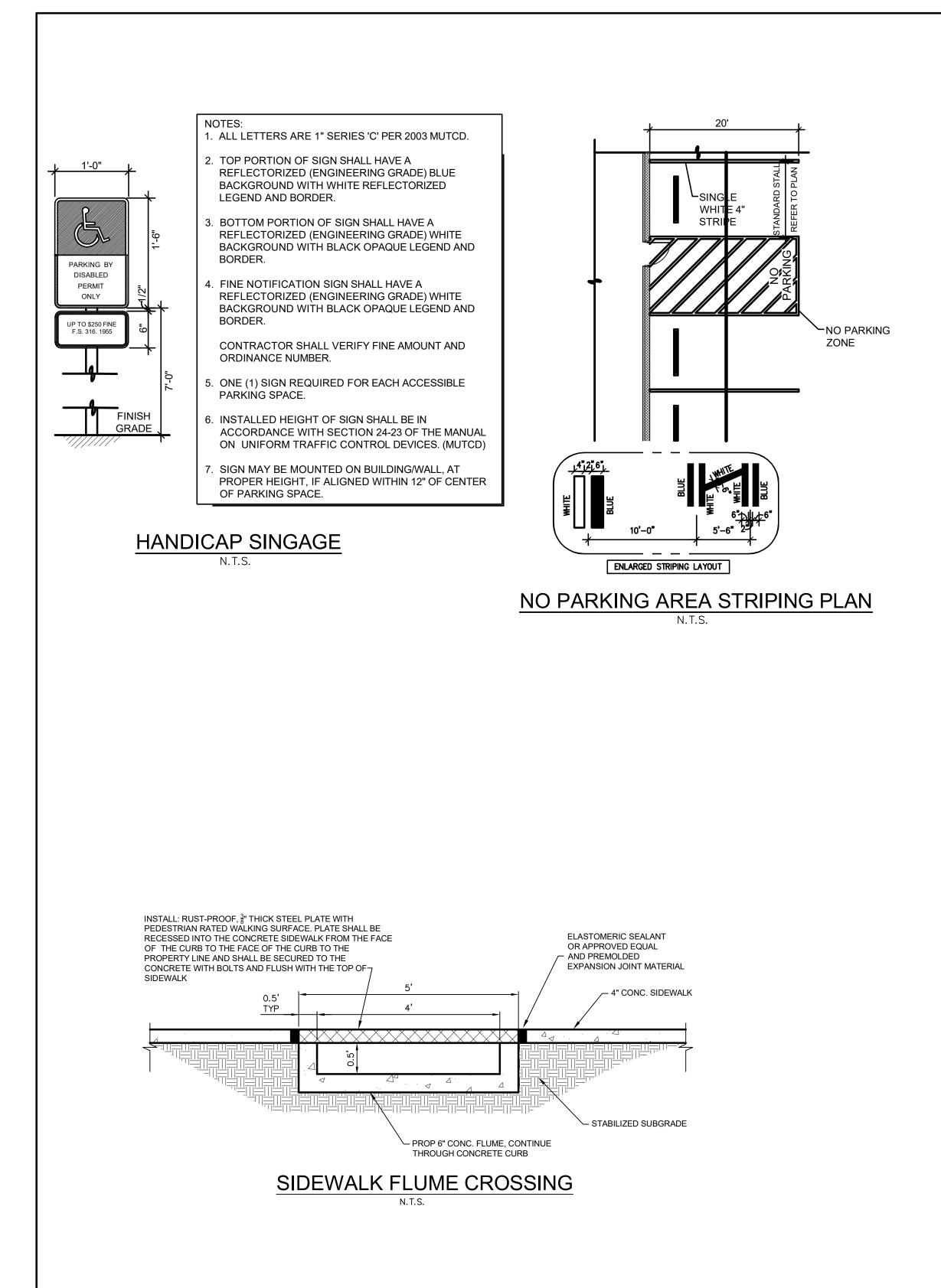
X

ANNA C. BLACKWEL

ELLIS CENTRE #2 ADDITION BOCK C, LOT 3A-R 1203 SIGMA CT, ROCKWALL, TX 75087

3/1/2021 ISSUE DATE





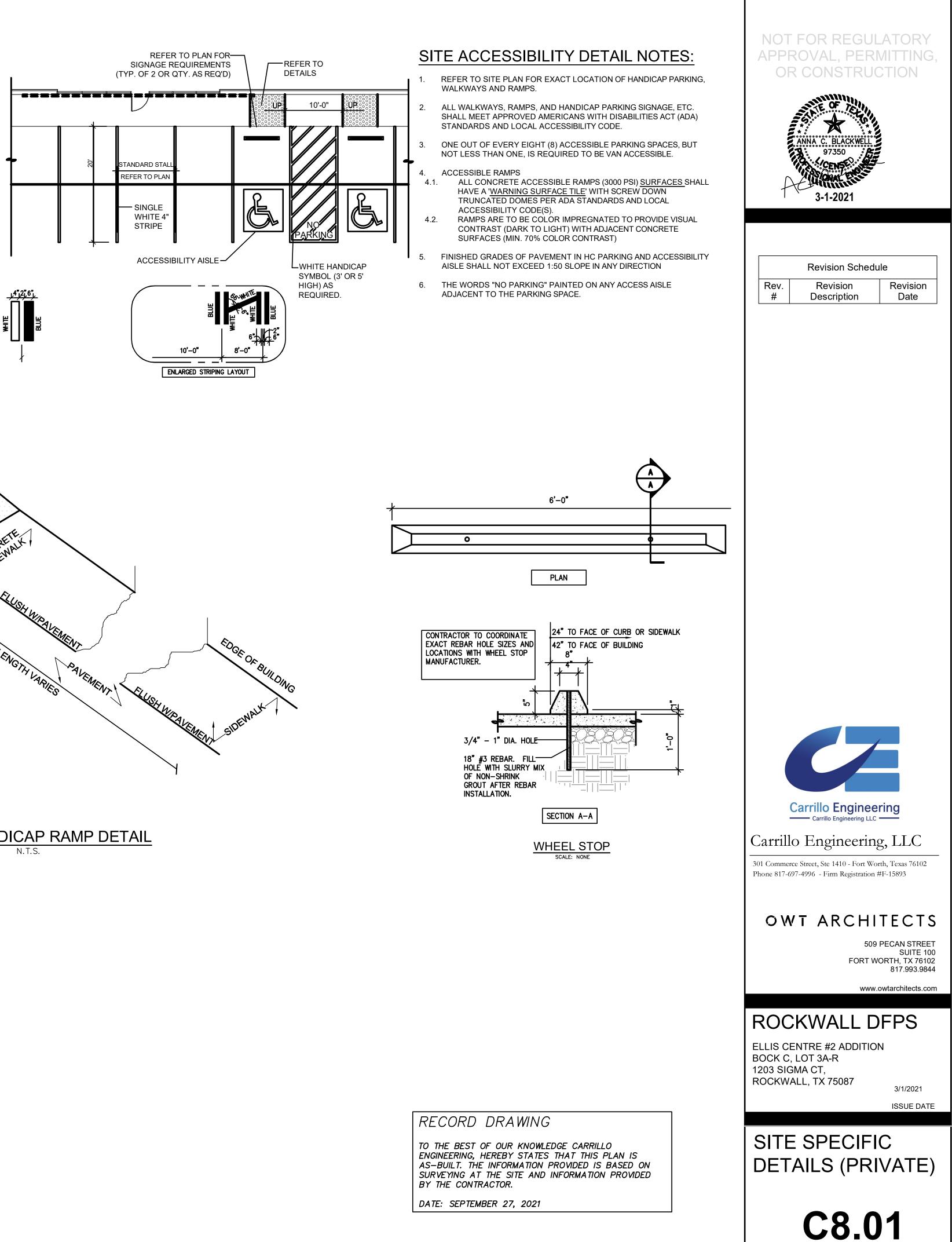
### ACCESSIBILITY PARKING SPACES NOTES:

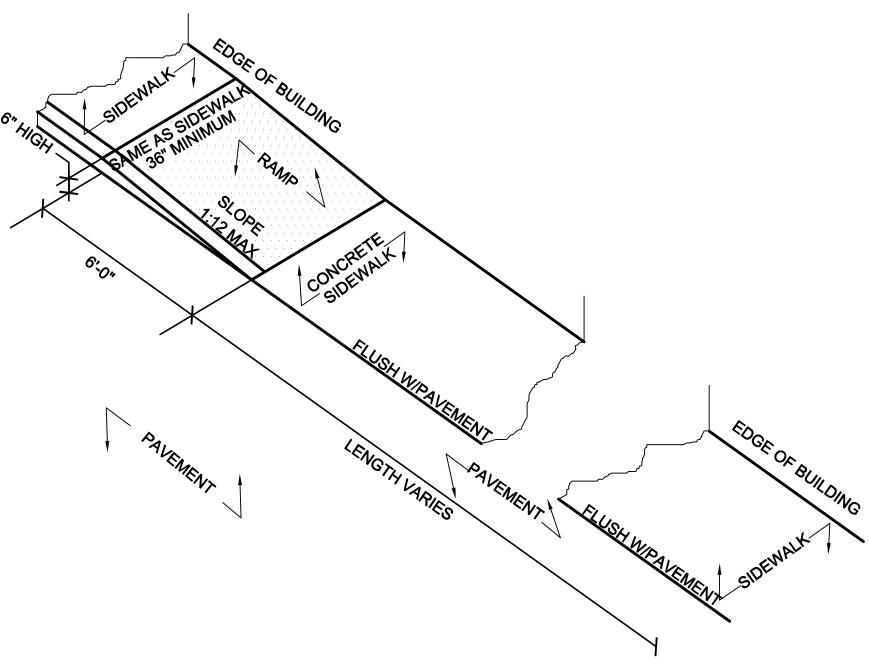
A PAVED ACCESSIBLE PARKING SPACE MUST INCLUDE: 1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PAINTED CONSPICUOUSLY ON THE SURFACE IN A COLOR THAT CONTRASTS THE PAVEMENT.

- 2. THE WORDS "NO PARKING" PAINTED ON ANY ACCESS AISLE ADJACENT TO THE PARKING SPACE. THE WORDS MUST BE PAINTED: (A) IN ALL CAPITAL LETTERS;
- (B) WITH A LETTER HEIGHT OF AT LEAST TWELVE INCHES, AND A STROKE WIDTH OF AT LEAST TWO INCHES; AND (C) CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE.

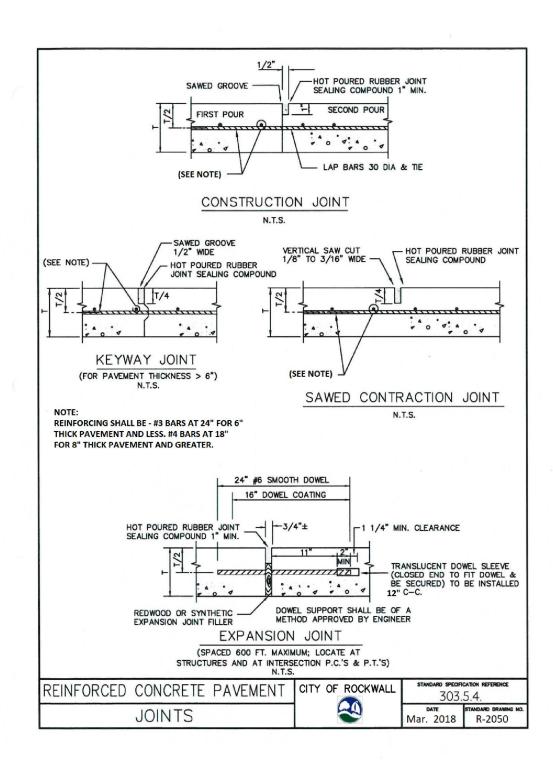
3. A SIGN IDENTIFYING THE CONSEQUENCES OF PARKING ILLEGALLY IN A PAVED ACCESSIBLE PARKING SPACE. THE SIGN MUST: (A) AT A MINIMUM STATE "VIOLATORS SUBJECT TO FINE AND

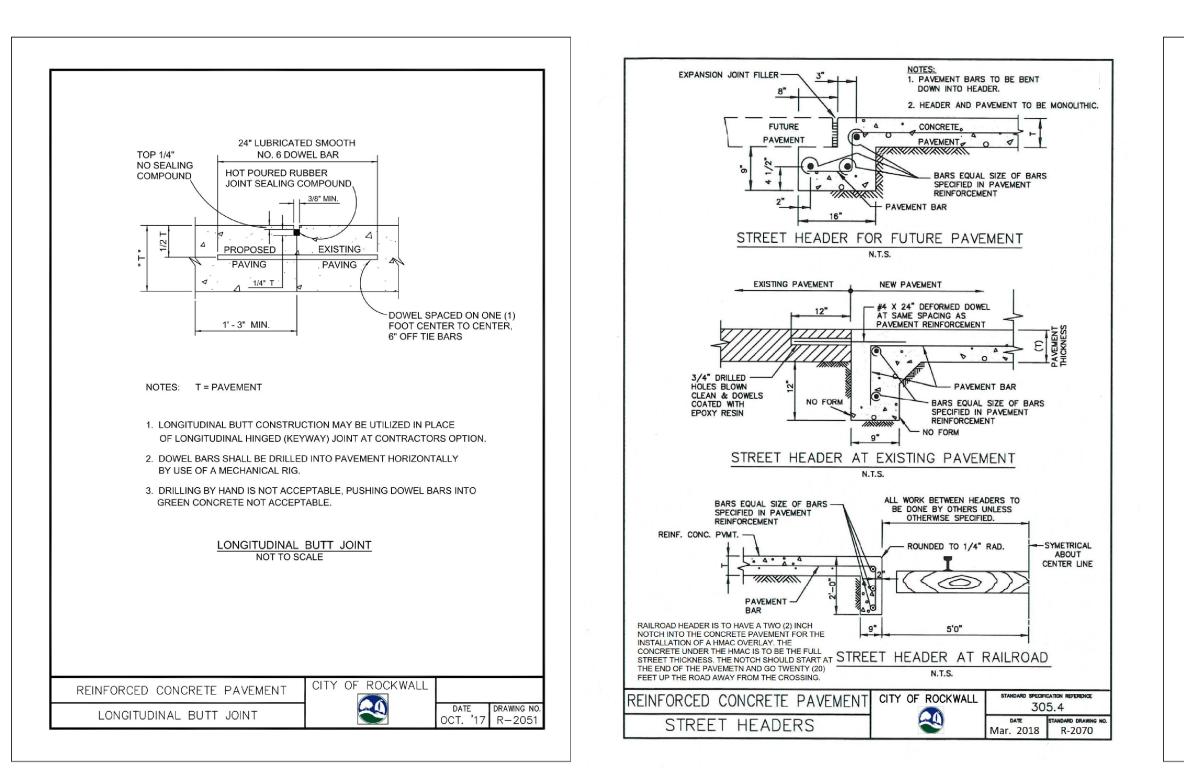
- TOWING" IN A LETTER HEIGHT OF AT LEAST ONE INCH; (B) BE MOUNTED ON A POLE, POST, WALL OR FREESTANDING
- BOARD; (C)BE NO MORE THAN EIGHT INCHES BELOW A SIGN REQUIRED BY TEXAS ACCESSIBILITY STANDARDS, 502.6; AND
- (D)BE INSTALLED SO THAT THE BOTTOM EDGE OF THE SIGN IS NO LOWER THAN 48 INCHES AND NO HIGHER THAN 80 INCHES ABOVE GROUND LEVEL.

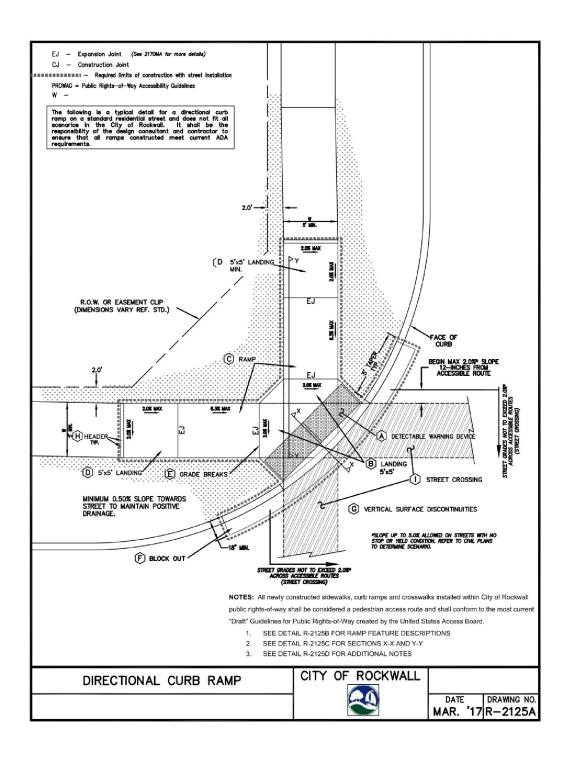




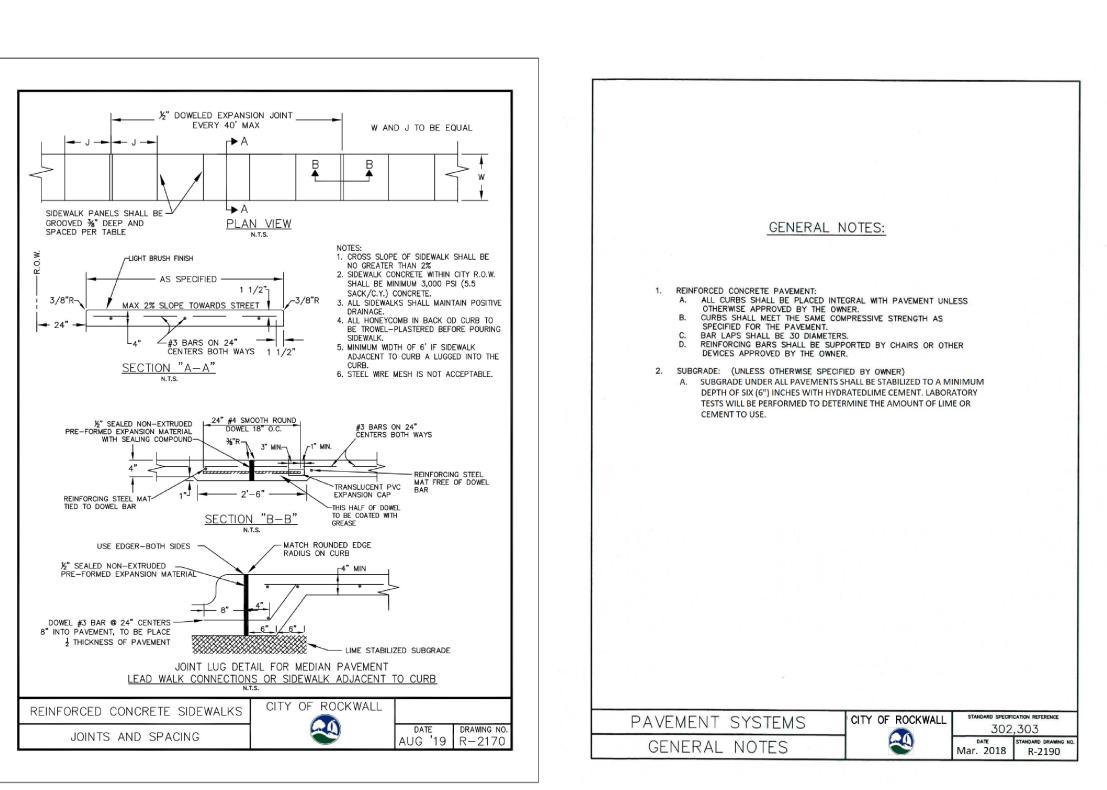
## INLINE HANDICAP RAMP DETAIL

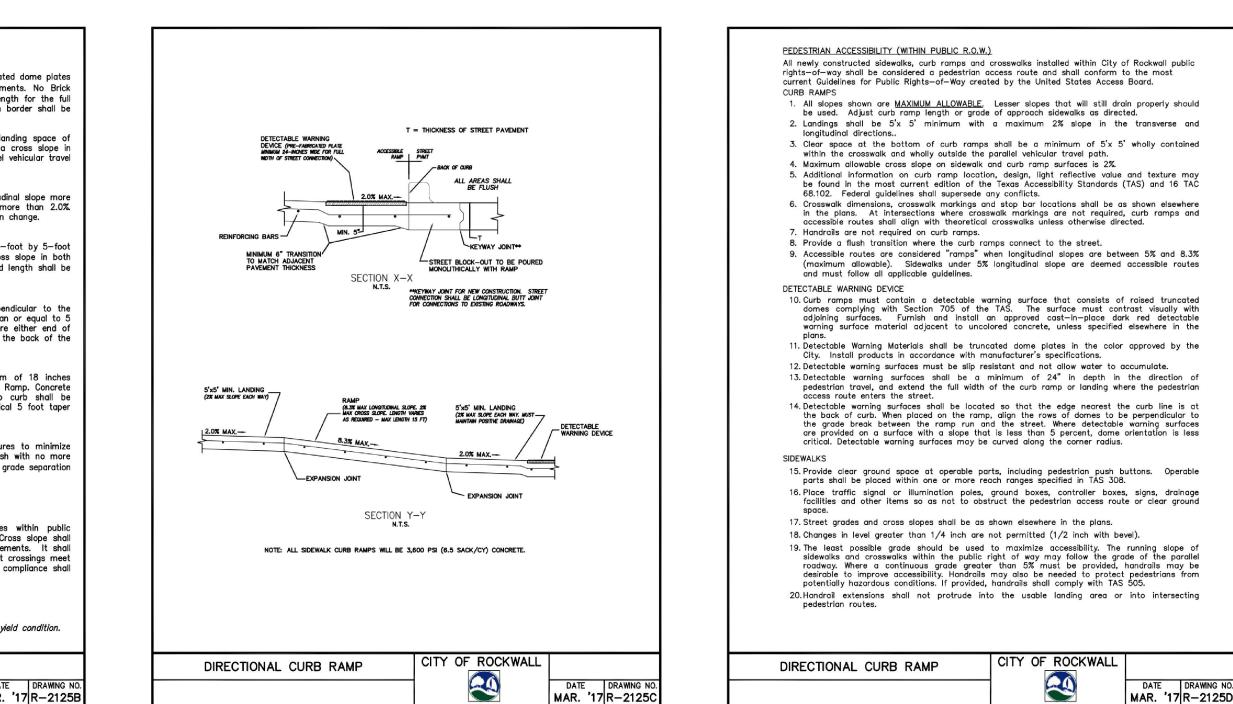






Â	Detectable Warning Devices (DWD) shall be pre-manufactured cast-in-place truncated dome plates installed to the manufacturer's specifications, and shall meet all ADA requirements. No Brick Pavers allowed. Color to be approved by the City. DWD shall be 24 inches in length for the full width of the street connection starting at the back of curb. A maximum 2-inch border shall be allowed on the sides of the DWD for proper installation.				
В	Also known as "Clear Space" per ADA PROWAG, the City requires a minimum landing space of 5—foot by 5—foot at the bottom of every ramp. This landing space shall have a cross slope in both directions that does not exceed 2.0%, and shall be wholly outside the parallel vehicular travel path.				
C	The ramp component of the directional curb ramp shall have a continuous longitudinal slope more than 5% and less than 8.3%. The ramp shall also have a cross slope of no more than 2.0%. Length of ramp can vary, but shall not exceed 15 feet to achieve desired elevation change.				
D	Also known as "Turning Space" per ADA PROWAG, a minimum landing space of 5-foot by 5-foot shall be at the top of every ramp. This landing (turning) space shall have a cross slope in both directions that does not exceed 2.0%. Landing must match width of sidewalk and length shall be the same distance ("Squared" Landing).				
E	All curb ramps shall have grade breaks at the top and bottom that are perpendicular to the direction of the ramp run. Where the ends of the bottom grade break are less than or equal to 5 feet, the DWD shall be placed within the ramp at the bottom grade break. Where either end of the bottom grade break is greater than 5 feet, the DWD shall be placed behind the back of the curb.				
F	Paving contractor shall leave block out with a keyway joint installed, minimum of 18 inches measured from back of curb. Block out shall be poured monolithically with Curb Ramp. Concrete shall tie to street paving with a keyway joint per NCTCOG detail 2050. No curb shall be constructed where a DWD is provided. The curb on either side shall have a typical 5 foot taper to transition from the standard 6—inch curb height to be flush with ramp.				
G	All work associated with accessible routes shall be installed flush with all features to minimize vertical surface discontinuities. Each segment along accessible route shall be flush with no more (zero tolerance) than a ¼—inch grade separation (elevation difference), or ½—inch grade separation if beveled (bevel slope shall not be steeper than 50%).				
$(\mathbf{H})$	A sidewalk header shall be constructed at ends of all work performed.				
	Street crossings shall adhere to same guidelines as other accessible routes within public right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall not exceed 27%. New street construction shall incorporate all ADA design requirements. It shall be the responsibility of the Design Professional and Contractor to ensure all street crossings meet the requirements of PROWAG. Street alterations on existing streets to bring to compliance shall be at the City Engineer's discretion.				
J	All curbs constructed as part of an ADA Ramp shall match City curb standards. * See PROWAG special design considerations when street crossing has no stop or yield condition.				
	RECTIONAL CURB RAMP CITY OF ROCKWALL				





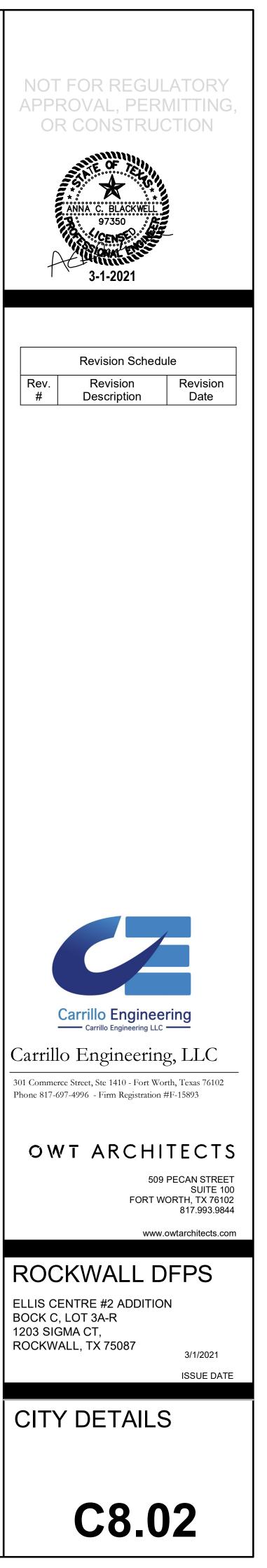
DATE DRAWING N

MAR. '17 R-2125C



TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 27, 2021



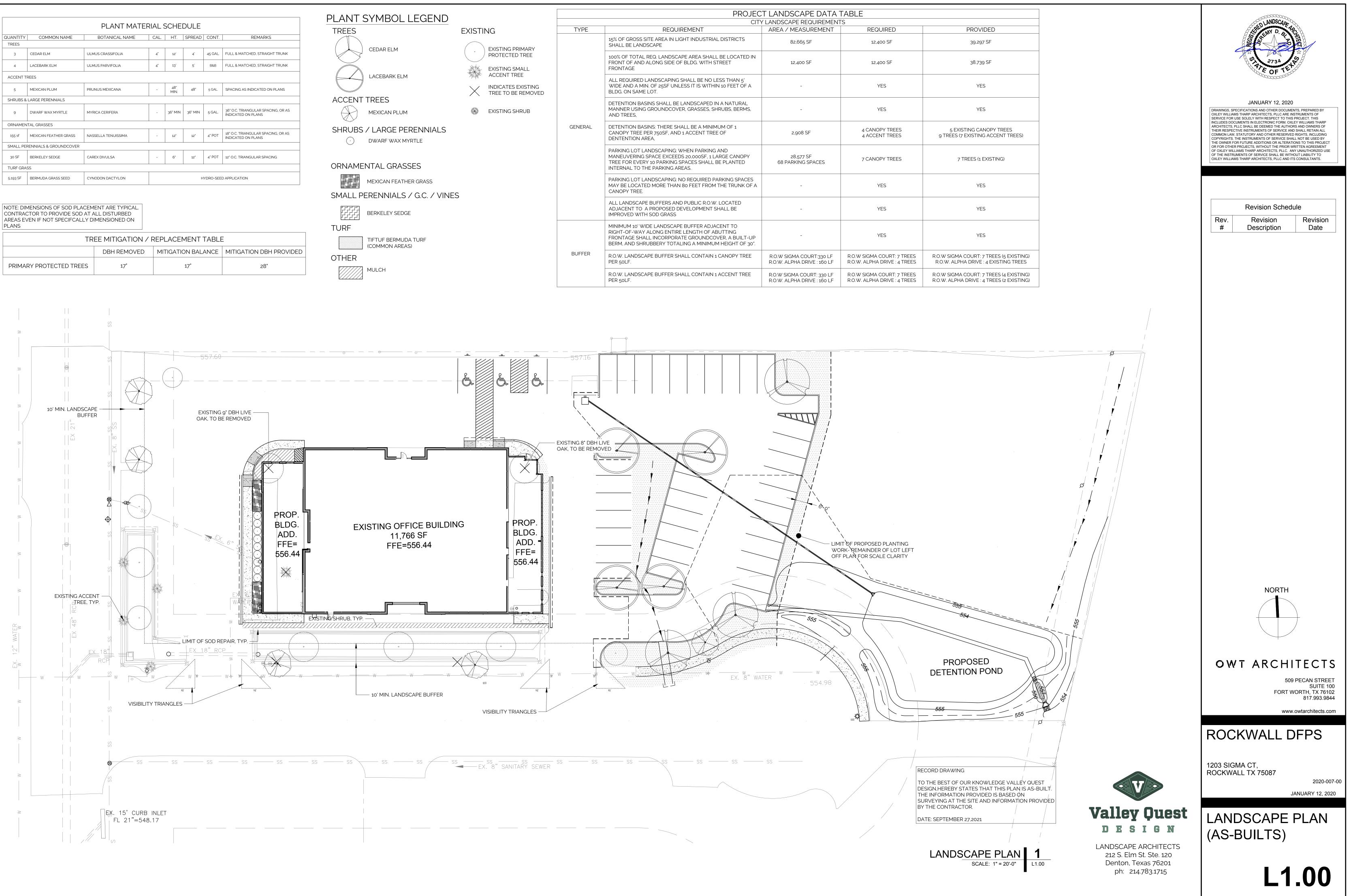
PLANT MATERIAL SCHEDULE							
TREES		BOTANICAL NAME	CAL.	<u> </u> пі.	SPREAD	CONT.	REMARKS
3	CEDAR ELM	ULMUS CRASSIFOLIA	4"	12'	4'	45 GAL.	FULL & MATCHED, STRAIGHT TRUNK
4	LACEBARK ELM	ULMUS PARVIFOLIA	4"	13'	5'	B&B	FULL & MATCHED, STRAIGHT TRUNK
ACCENT T	REES						
5	MEXICAN PLUM	PRUNUS MEXICANA	-	48" MIN.	48"	5 GAL.	SPACING AS INDICATED ON PLANS
SHRUBS &	SHRUBS & LARGE PERENNIALS						
9	DWARF WAX MYRTLE	MYRICA CERIFERA	-	36" MIN	36" MIN	5 GAL.	36° O.C. TRIANGULAR SPACING, OR AS INDICATED ON PLANS
ORNAMENTAL GRASSES							
155 sf	MEXICAN FEATHER GRASS	NASSELLA TENUISSIMA	-	12"	12"	4" POT	18" O.C. TRIANGULAR SPACING, OR AS INDICATED ON PLANS
SMALL PE	SMALL PERENNIALS & GROUNDCOVER						
30 SF	BERKELEY SEDGE	CAREX DIVULSA	-	6"	12"	4" POT	12" O.C. TRIANGULAR SPACING
TURF GRA	SS						
5,193 SF	BERMUDA GRASS SEED	CYNODON DACTYLON			Н	YDRO-SEE	D APPLICATION

# $\langle \mathbf{x} \rangle$ MEXICAN PLUM DWARF WAX MYRTLE MEXICAN FEATHER GRASS BERKELEY SEDGE

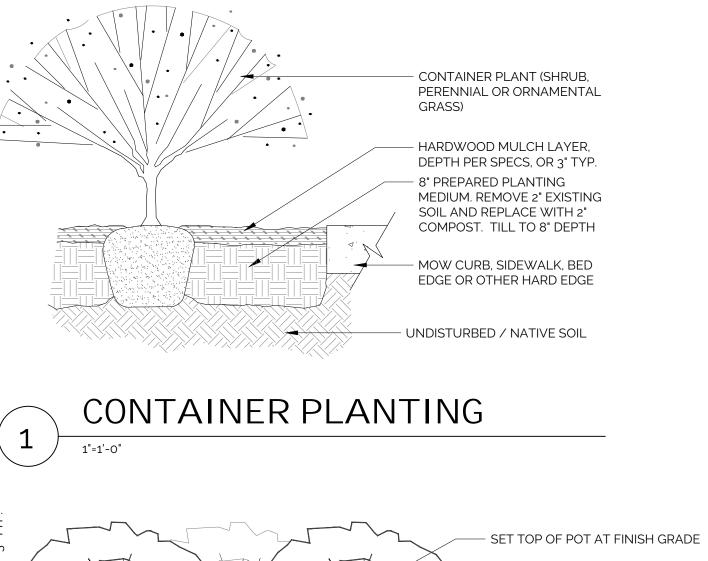
# TIFTUF BERMUDA TURF (COMMON AREAS)

## PLANS TREE MITIGATION / REPLACEMENT TABLE

	DBH REMOVED	MITIGATION BALANCE	MITIGATION DBH PROVIDED
PRIMARY PROTECTED TREES	17"	17"	28"



			T LANDSCAPE DATA			
EXICTING	TYPE	REQUIREMENT	Y LANDSCAPE REQUIREMENT AREA / MEASUREMENT			
		15% OF GROSS SITE AREA IN LIGHT INDUSTRIAL DISTRICTS SHALL BE LANDSCAPE	82,665 SF	12,400 SF		
EXISTING FRIMART PROTECTED TREE		100% OF TOTAL REQ. LANDSCAPE AREA SHALL BE LOCATED IN FRONT OF AND ALONG SIDE OF BLDG. WITH STREET FRONTAGE	12,400 SF	12,400 SF		
ACCENT TREE INDICATES EXISTING TREE TO BE REMOVED		ALL REQUIRED LANDSCAPING SHALL BE NO LESS THAN 5' WIDE AND A MIN. OF 25SF UNLESS IT IS WITHIN 10 FEET OF A BLDG. ON SAME LOT.	-	YES		
EXISTING SHRUB		DETENTION BASINS SHALL BE LANDSCAPED IN A NATURAL MANNER USING GROUNDCOVER, GRASSES, SHRUBS, BERMS, AND TREES,	-	YES		
	GENERAL	DETENTION BASINS: THERE SHALL BE A MINIMUM OF 1 CANOPY TREE PER 750SF, AND 1 ACCENT TREE OF DENTENTION AREA,	2.908 SF	4 CANOPY TREES 4 ACCENT TREES	9	
		PARKING LOT LANDSCAPING: WHEN PARKING AND MANEUVERING SPACE EXCEEDS 20,000SF, 1 LARGE CANOPY TREE FOR EVERY 10 PARKING SPACES SHALL BE PLANTED INTERNAL TO THE PARKING AREAS.	28,577 SF 68 PARKING SPACES	7 CANOPY TREES		
		PARKING LOT LANDSCAPING: NO REQUIRED PARKING SPACES MAY BE LOCATED MORE THAN 80 FEET FROM THE TRUNK OF A CANOPY TREE.	-	YES		
		ALL LANDSCAPE BUFFERS AND PUBLIC R.O.W. LOCATED ADJACENT TO A PROPOSED DEVELOPMENT SHALL BE IMPROVED WITH SOD GRASS	-	YES		
		MINIMUM 10' WIDE LANDSCAPE BUFFER ADJACENT TO RIGHT-OF-WAY ALONG ENTIRE LENGTH OF ABUTTING FRONTAGE SHALL INCORPORATE GROUNDCOVER, A BUILT-UP BERM, AND SHRUBBERY TOTALING A MINIMUM HEIGHT OF 30".	-	YES		
	BUFFER R.O.W. LANDS PER 50LF.	R.O.W. LANDSCAPE BUFFER SHALL CONTAIN 1 CANOPY TREE PER 50LF.	R.O.W SIGMA COURT:330 LF R.O.W. ALPHA DRIVE : 160 LF	R.O.W SIGMA COURT: 7 TREES R.O.W. ALPHA DRIVE : 4 TREES	R.O.\ R.O	
		R.O.W. LANDSCAPE BUFFER SHALL CONTAIN 1 ACCENT TREE PER 50LF.	R.O.W SIGMA COURT: 330 LF R.O.W. ALPHA DRIVE : 160 LF	R.O.W SIGMA COURT: 7 TREES R.O.W. ALPHA DRIVE : 4 TREES	R.O.V R.O.V	



/ <del>/ ////</del>

- HARDWOOD MULCH - GROUNDCOVER ROOTS

- PREPARED SOIL MIX, REF. SPECS.

M.R.

1XXX

1/2"=1'-0"

12" Ž → \_ \_ \_ \_ \_ \_

4

ROOT BALL

AS REQ'D

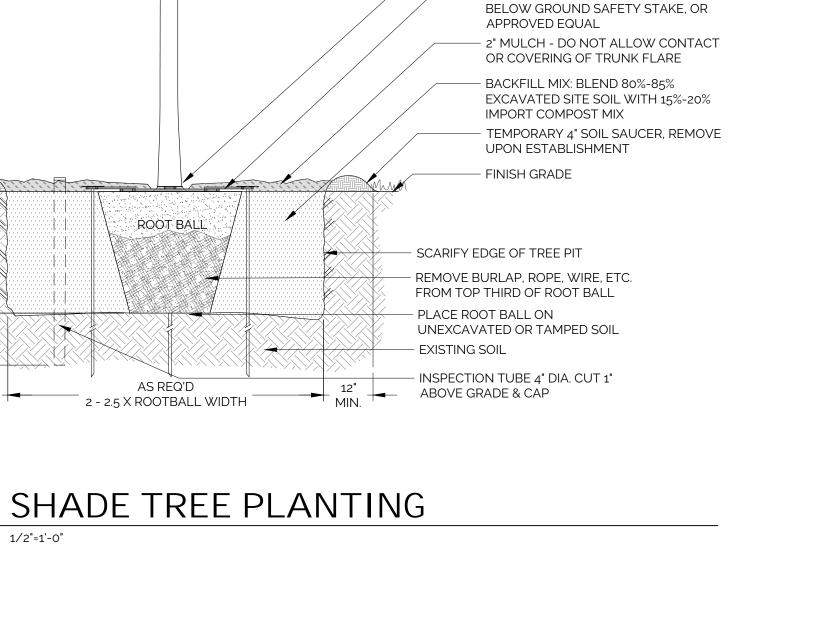
2 - 2.5 X ROOTBALL WIDTH

- SUB-GRADE

REF PLAN SCHEDULE FOR SPACING GROUNDCOVER PLANTING 2 1 1/2"=1'-0" - CENTER OF PLANT MASS  $\bigcirc$ ()/ ROOT BALL (TYP.)  $\bigcirc$ —  $\bigcirc$  $\circ$ SPACING ON CENTER PLANT SPACING, PER PLANT SCHEDULE - PAVEMENT, CURB OR BED EDGE — 6" FOR GROUNDCOVER
 12" FOR #GAL. CONTAINER PLANTS PLANT SPACING

3

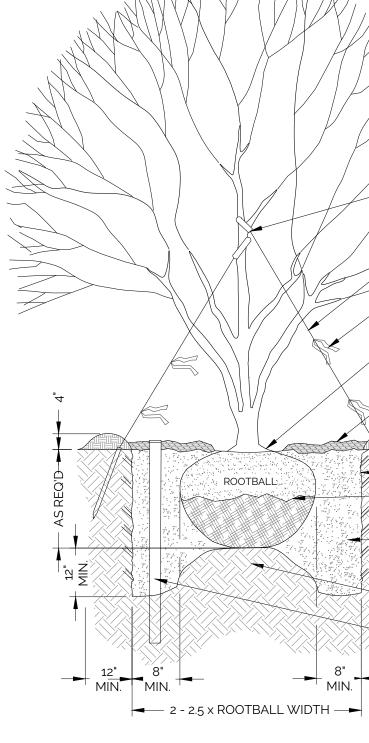
1/4"=1'-0"



- SET TREE AT ORIGINAL DEPTH, TRUNK FLARE SHALL NOT BE COVERED

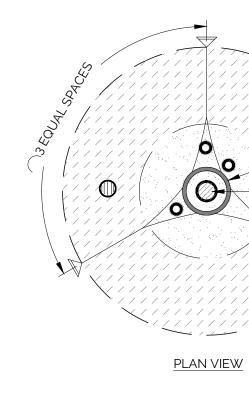
SYSTEM - TREE STAKE SOLUTIONS, LLC

- INSTALL ROOTBALL STABILIZATION



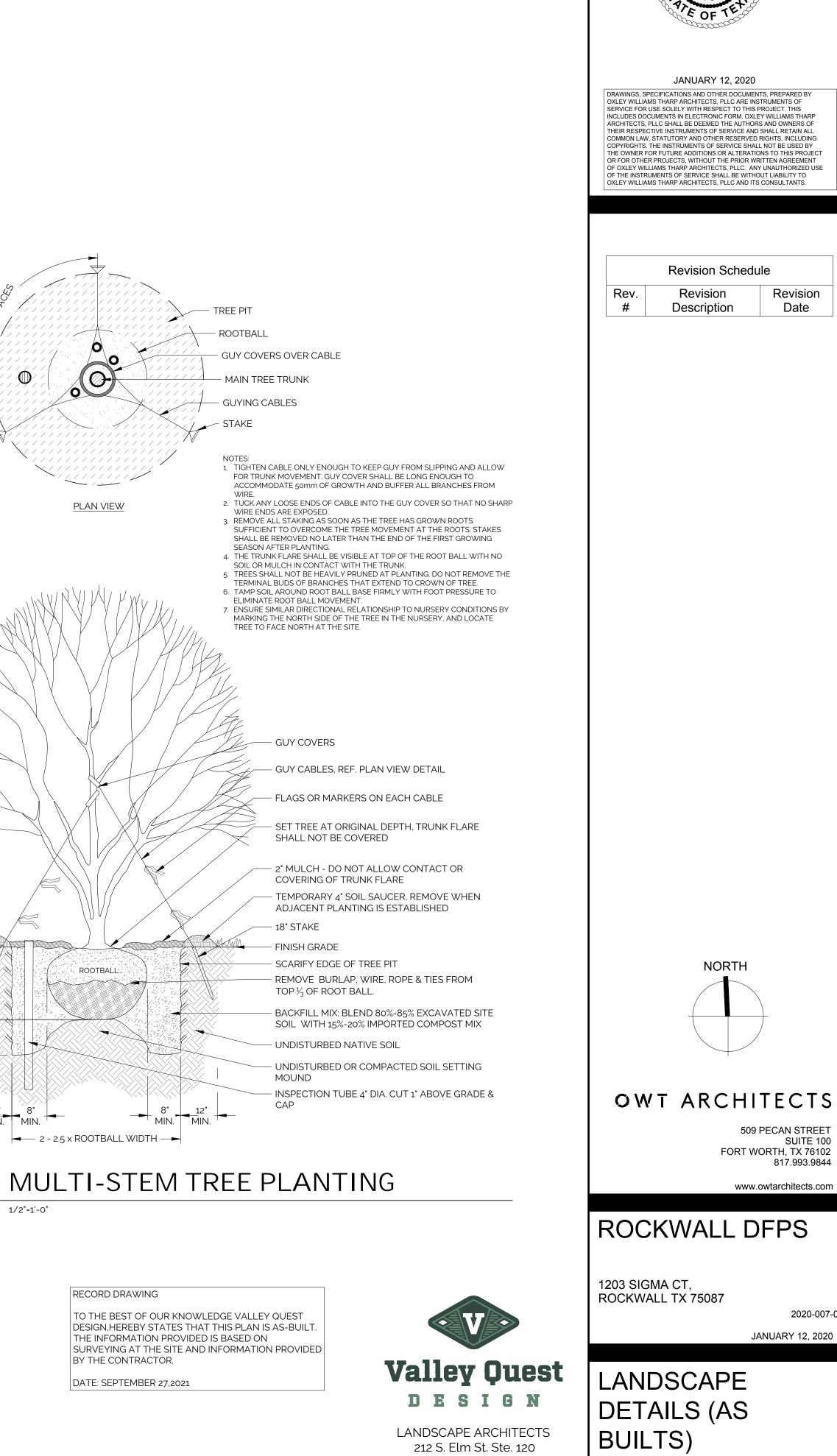
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1/2"=1'-0"



RECORD DRAWING

BY THE CONTRACTOR.



L5.00

2020-007-00

Denton, Texas 76201 ph: 214.783.1715