RECORD DRAWINGS

FOR



PLAN SUBMITTAL/PROJECT TIMELINE

SPECIFIC USE PERMIT 10/01/2018 SITE PLAN APPROVAL 11/19/2018 FIRST ENGINEERING SUBMITTAL 11/21/2018 SECOND ENGINEERING SUBMITTAL 01/03/2018 THIRD ENGINEERING SUBMITTAL TO 02/04/2019 FOURTH ENGINEERING SUBMITTAL 02/25/2019 PROBABLE CONSTRUCTION 04/15/2019

CONTACT INFORMATION

REFERENCES

ALTA/NSPS LAND TITLE SURVEY 1902 S. GOLIAD STREET ROCKWALL, TX 75087

DATED: 08/16/2018 (REV. #1)

2000 S. GOLIAD STREE

ROCKWALL, TX 75087

GOVERNING AGENCIES

CITY OF ROCKWALL - ENGINEERING

ROCKWALL, TX 75087 PHONE: (972) 771-7746

CITY OF ROCKWALL - PLANNING & ZONING ROCKWALL, TX 75087

PHONE: (972) 771-7745

CITY OF ROCKWALL - BUILDING INSPECTIONS

ROCKWALL, TX 75087 PHONE: (972) 772-6748

CITY OF ROCKWALL - FIRE MARSHAL

305 E. BOYDSTUN

CITY OF ROCKWALL - WATER & SEWER RICK SHERER

1600 AIRPORT ROAD ROCKWALL, TX 75087 PHONE: (972) 771-7730

UTILITY CONTACTS

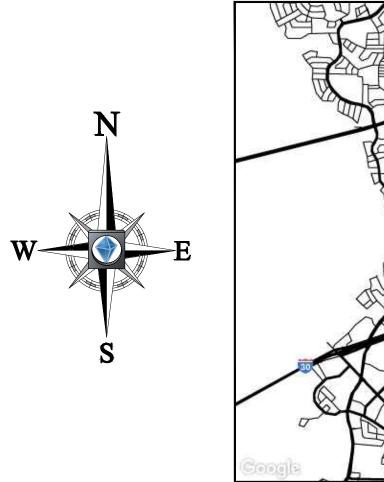
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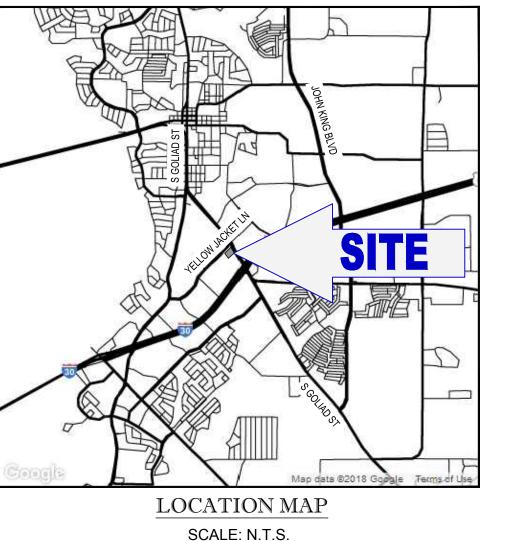
PHONE: (214) 426-7010

LOCATION OF SITE

1902 S. GOLIAD STREET, CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS

LOTS 1 & 2, BLOCK A, BILLY PEOPLE'S ADDITION





MAPSCO PAGE: 625

OWNER DYNAMIC DEVELOPMENT 1725 21ST STREET SANTA MONICA, CA 90404 (214) 662-5167 DEVELOPER BRAKES PLUS, LLC 1800 SOUTHPARK DRIVE BIRMINGHAM, AL 35244 (205) 397-1164

ENGINEERING

PREPARED BY

6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com

CONTACT: MATHIAS HAUBERT MHAUBERT@BOHLERENG.COM

SHEET INDEX					
SHEET TITLE	SHEET NUMBER				
COVER SHEET	C-101				
GENERAL NOTES	C-102				
ALTA SURVEY (BY OTHERS)	-				
PRELIMINARY REPLAT	-				
EXISTING CONDITIONS & DEMOLITION PLAN	C-201				
SITE & PAVING PLAN	C-301				
GRADING AND DRAINAGE PLAN	C-401				
EXISTING DRAINAGE AREA MAP	C-402				
PROPOSED DRAINAGE AREA MAP	C-403				
STORM SEWER PROFILES	C-404				
STORM SEWER CALCULATIONS	C-405				
UTILITY PLAN	C-501				
SANITARY SEWER PROFILE	C-502				
EROSION & SEDIMENT CONTROL PLAN	C-601				
EROSION & SEDIMENT CONTROL DETAILS	C-602				
LANDSCAPE PLAN	L-1.0				
LANDSCAPE SPECIFICATIONS AND DETAILS	L-1.1				
LANDSCAPE IRRIGATION PLAN	L-1.2				
IRRIGATION SPECIFICATIONS AND DETAILS	L-1.3				
IRRIGATION DETAILS	L-1.4				
LIGHTING PLAN	-				
CONSTRUCTION DETAILS SHEET	C-901 - C-903				
UTILITY DETAILS SHEET	C-904				
TxDOT DETAIL SHEETS	C-905 - C-908				

TO THE BEST OF OUR KNOWLEDGE BOHLER 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"

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO BOHLER ENGINEERING TX LLC AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS-BUILT", BUT IS BASED ON THE INFORMATION MADE AVAILABLE. DATE: 01/16/20

BY: DEAN CARDWELL

REVISIONS REVISION TAS REVIEW COMMENTS



ASBUILT RECORD DRAWING

02/25/2019

SCALE:

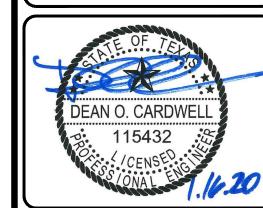
CONSTRUCTION DOCUMENTS

brakes plus

LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 **ROCKWALL COUNTY**

BOHLER

6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



COVER SHEET

C = 101

CASE NUMBER: SP2018-030

IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT IRK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE TANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AN

GENERAL NOTES:

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE

1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:

ALTA/NSPS LAND TITLE SURVEY BOHLER ENGINEERIN 1902 S. GOLIAD STREET

DATED: 08/16/2018 (REV. #1) GEOTECHNICAL INVESTIGATION REPORT

2000 S. GOLIAD STREET

ROCKWALL, TX 75087 DATED: 09/04/2018

ROCKWALL, TX 75087

PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE. THIS IS CONTRACTOR'S RESPONSIBILITY.

- 2. ALL ACCESSIBLE (A/K/A ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 et seq. AND 42 U.S.C. § 4151 et seq.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT IS TO BE CONSTRUCTED, AND ANY AND ALL AMENDMENTS TO BOTH WHICH ARE IN EFFECT WHEN THESE PLANS ARE COMPLETED.
- 3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
- 4. THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 5. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT.
- 6. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY. THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER. IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
- 7. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING. IN WRITING, IMMEDIATELY IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.
- 8. ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.
- 9. CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS "OF RECORD" FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY
- 10. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
- 11. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.
- 13. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT LITHLITIES BUILDINGS AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE
- 14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE, BUT NOT BE LIMITED TO REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR AND MUST REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES LAWS RULES REGULATIONS STATUTORY REQUIREMENTS AND STATUTES CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND TO NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF
- 15. ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM 6.5 SACK MIX UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
- 16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS. AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT
- 17. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES. AT ANY TIME.
- 18. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR ONE YEAR AFTER THE COMPLETION OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER ENGINEERING AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS. EMPLOYEES. AFFILIATES. SUBSIDIARIES. AND RELATED ENTITIES. AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS, ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE
- 19. BOHLER ENGINEERING WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. BOHLER ENGINEERING'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN
- 20. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, NOR THE PRESENCE OF BOHLER ENGINEERING AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOHLER ENGINEERING SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND MUST BE NAMED AN ADDITIONAL

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INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE IN NOTE 19 FOR JOB SITE SAFETY.

- 21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER AND THE CITY OF ROCKWALL FOR SUCH DEVIATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, IN ACCORDANCE WITH PARAGRAPH 19 HEREIN, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.
- 22. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S
- 23. ALL SIGNING AND PAVEMENT STRIPING MUST CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT.
- 24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER
- 25. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS. IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND, FURTHER ENGINEER IS NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE
- 26. ALL DIMENSIONS MUST BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE.
- 27. ALL CONSTRUCTION AND MATERIALS MUST COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL. STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.
- 28. CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- 29. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH EPA REQUIREMENTS FOR SITES WHERE ONE (1) ACRE OR MORE (UNLESS THE LOCAL JURISDICTION REQUIRES FEWER) IS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS
- 30. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER THE USE OF THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF "PROFESSIONAL OPINION" REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.
- 31. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO CITY OF ROCKWALL STANDARDS AND NCTCOG EDITION 4 WITH ALL CITY REVISIONS.

ADA INSTRUCTIONS TO CONTRACTOR

CONTRACTORS SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- PARKING SPACES AND PARKING AISLES SLOPE SHALL NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.
- CURB RAMPS SLOPE SHALL NOT EXCEED 1:12 (8.3%).
- LANDINGS SHALL BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.
- PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE MUST BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMP REQUIREMENTS MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET (30 INCHES), SHALL BE PROVIDED. THE RAMF MUST HAVE ADA HAND RAILS AND 60" W BY 60" L LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE
- DOORWAYS MUST HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCED INCORPORATED BY COD.)
- WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES. IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
- THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-CONFORMING CONCRETE.
- IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

ALTA/NSPS LAND TITLE SURVEY:

1902 S. GOLIAD STREET ROCKWALL, TX 75087 DATED: 08/16/2018 (REV. #1)

GEOTECHNICAL INVESTIGATION REPORT:

ECS SOUTHWEST, LLP 2000 S. GOLIAD STREET ROCKWALL, TX 75087

DATED: 09/04/2018

- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS
- 3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- 4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE
- 5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- 6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/TO:
- A.OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.

GENERAL GRADING & UTILITY NOTES

- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTL'S CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES MUST IMMEDIATELY BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION MUST COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF
- CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR MUST USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION.
- . IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD. IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
- . THE CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND
- THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, IS RESPONSIBLE FOR COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS. OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME.
- 8. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE MUST INCLUDE ALL FEES, COSTS AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR MUST CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING
- 9. ALL NEW UTILITIES/SERVICES. INCLUDING ELECTRIC. TELEPHONE. CABLE TV. ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- 10. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS MUST BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS. RULES STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING BUT NOT LIMITED TO EXCAVATION BACKELL AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO.
- 11. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND MUST BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION MUST, AT A MINIMUM, COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL, COMPACTION AND BACKFILL. FURTHER, CONTRACTOR IS FULLY RESPONSIBLE FOR EARTHWORK BALANCE. ALL FILL MUST BE COMPACTED TO 95% STANDARD DENSITY USING A SHEEP'S FOOT ROLLER.
- 12. THE CONTRACTOR MUST COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA. AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS RELATED FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.
- 13. PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED
- 14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, FIRE HYDRANTS, VALVES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED. AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
- 15. DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE SITE PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE
- 16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS. SOME OF WHICH MAY BE BUILT AT A LATER DATE. THE CONTRACTOR MUST EXTEND ALL LINES, INCLUDING BUT NOT LIMITED TO STORM SEWER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. CONTRACTOR MUST CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND MUST NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE SITE PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.
- 17. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. CONTRACTOR MUST CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS LIMIT GRADES), TO PREVENT PONDING. CONTRACTOR MUST IMMEDIATELY IDENTIFY, IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER NOTIFICATION, MUST BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME.
- 18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. IT IS CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO

19. REFER TO SITE PLAN FOR ADDITIONAL NOTES.

- 20. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE AND CONTROL. CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS.
- 21. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
- 22. WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSEE IN THE STATE WHERE THE CONSTRUCTION OCCURS. ALL PORTIONS OF THE WALL, INCLUDING THE FOOTING, ARE NOT ALLOWED OFF-SITE, IN EASEMENTS, OR IN RIGHT OF WAYS. ALL WALLS ARE TO BE STONE OR ROCK. NO SMOOTH CONCRETE WALLS ARE ALLOWED. ALL WALLS 3 FEET OR TALLER MUST BE DESIGNED BY A PROFESSIONAL ENGINEER.

23. STORM DRAINAGE PIPE:

UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M294 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT

TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATE!

- 24. SANITARY SEWER PIPE MUST BE POLYVINYL CHLORIDE (PVC) SDR 35 EXCEPT WHERE INDICATED OTHERWIS SANITARY LATERAL MUST BE PVC SCHEDULE 40 OR PVC SDR 26 UNLESS INDICATED, IN WRITING, OTHERWISE.
- 25. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OF MANHOLES STRUCTURE TO CENTER OF STRUCTURE.
- 26. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR I
- RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS. 27. SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SIT CONDITIONS SO INDICATE, MUST BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR OTHER
- SUITABLE MATERIAL 28. SEWERS CONVEYING SANITARY FLOW, COMBINED SANITARY AND STORMWATER FLOW, OR INDUSTRIAL FLOW MUST B SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE. THE PIPES MUST BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE
- WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED I CONCRETE USING MECHANICAL MEGALUGS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF TH CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAI FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURA
- SUPPORT FOR THE SEWER MUST BE PROVIDED. 29 WATER MAIN PIPING MUST BE C900 DR-14 AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER PURVEYOR. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUS
- 30. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDIN SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR STATE DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL (COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.

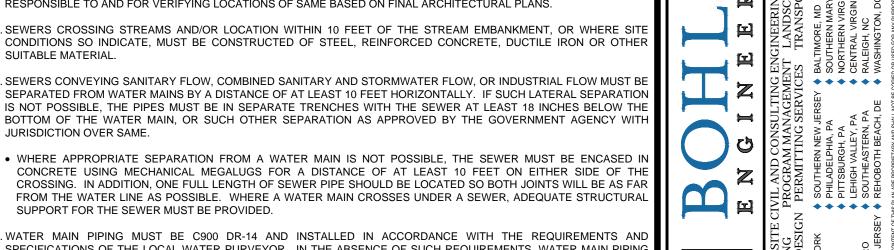
COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.

- 31. WHERE BASEMENTS ARE TO BE PROVIDED FOR PROPOSED DWELLING UNITS, THE DEVELOPER SHALL, BY BORING OI BY TEST PIT, DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED DWELLINGS. WHERE GROUNDWATER IS ENCOUNTERED IN THE BASEMENT AREA, BASEMENTS WILL NOT BE INSTALLED UNLESS SPECIAL CONSTRUCTION METHODS ARE UTILIZED. TO BE REVIEWED AND APPROVED BY THE MUNICIPAL CONSTRUCTION CODE OFFICIAL. IF AND WHERE SUMP PUMPS ARE INSTALLED. ALL DISCHARGES MUST BE CONNECTED TO THE STORM SEWER. A CLEANOUT MUST BE PROVIDED PRIOR TO THE CONNECTION TO THE STORM DRAIN IN ORDER THAT BLOCKAGES CAN BE ADDRESSED.
- 32. FOR SINGLE AND TWO-FAMILY RESIDENTIAL PROJECTS. WHERE THE PROPOSED DWELLING AND ADJACENT SPOT ELEVATION(S) ARE SCHEMATIC FOR GENERIC BUILDING FOOTPRINT, GRADES MUST BE ADJUSTED BASED ON FINAL ARCHITECTURAL PLANS TO PROVIDE A MINIMUM OF SIX (6) INCHES BELOW TOP OF BLOCK AND /OR SIX (6) INCHES BELOW SIDING, WHICHEVER IS LOWEST, AND MUST PROVIDE POSITIVE DRAINAGE (2% MIN.) AWAY FROM DWELLING. ALL CONSTRUCTION, INCLUDING GRADING, MUST COMPLY WITH THE LATEST LOCAL AND STATE BUILDING CODE AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
- 33. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY
- 34. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER
- SERVICE CONNECTION. 36. CONTRACTOR SHALL INSTALL BLUE EMS DISKS ON THE WATER LINE AT EVERY CHANGE IN DIRECTION, VALVE, SERVICE
- CONNECTION, AND SPACING OF 250 FEET.
- 37. ALL MANHOLES TO BE RAVEN LINED OR APPROVED EQUAL AND SEALED

LIGHTING NOTES

JURISDICTION OVER SAME.

- . THE LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 2. THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THE PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THE PLAN ARE IN FOOTCANDLES.
- 1. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINARIES, LAMPS AND LENSES TO FAIL OR PROPERLY
- 5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE FOLIPMENT TO FRANCES WEATHER CONDITIONS FTC. ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- . CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- 8. IT IS LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET
- 9. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- 10. THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES AS INDICATED IN THE HIGH VOLTAGE PROXIMITY REGULATIONS N.J.A.C. 12-186.
- 11. WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
- 12. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL





EVI DATE TAS REVIEW COMMENTS 35. CONTRACTOR SHALL INSTALL GREEN EMS DISKS ON THE PUBLIC SEWER SYSTEM AT EVERY MANHOLE, CLEANOUT, AND



ASBUILT

It's fast. It's free. It's the law.

RECORD DRAWING DRAWN BY: HECKED BY 02/25/2019

CONSTRUCTION

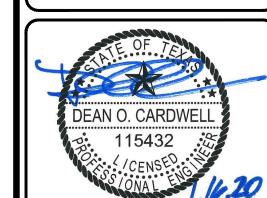
SCALE:

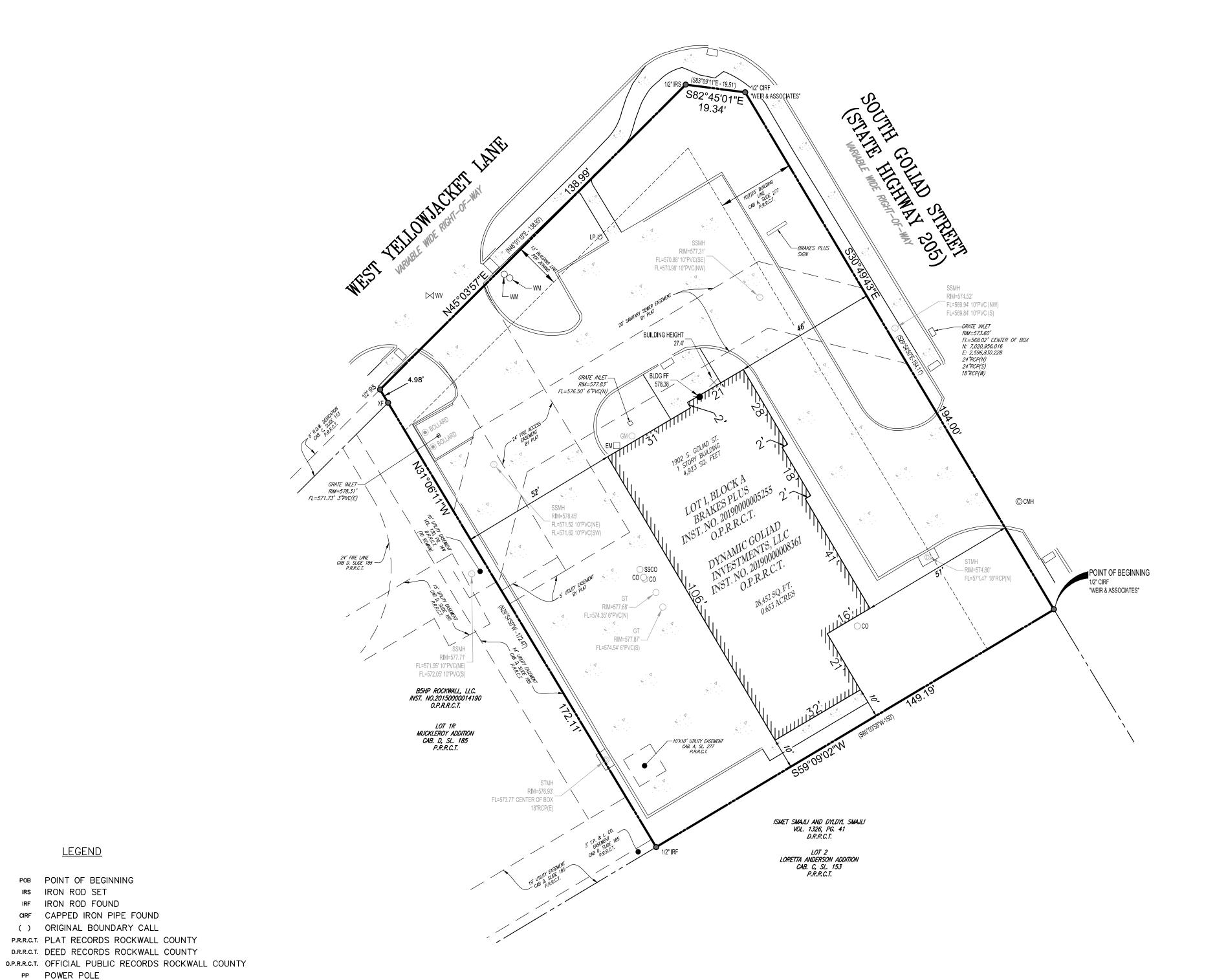
LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087

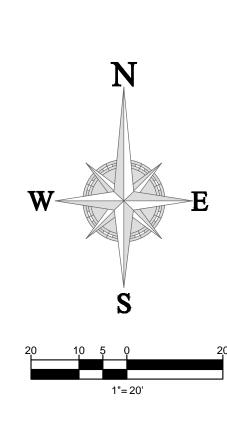
ROCKWALL COUNTY



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com









LOCATION MAP

SCALE: N.T.S.

LEGAL DESCRIPTION:

Lot 1, Block A of BRAKES PLUS, an addition to the City of Rockwall, Rockwall County, Texas, according to the map or plat thereof, recorded under Instrument No. 20190000005255 of the Official Public Records of Rockwall County, Texas.

EASEMENT NOTES:

Reference: Fidelity National Title Insurance Company, effective date November 20, 2019, and issued December 13, 2019, Commitment No. 9001181900648.

Schedule B:

10(f) The building lines and easements, on the map of said tract/plat recorded in Cabinet A, Slide 277, Plat Records, Rockwall County, Texas, affects the subject tract as shown hereon.

GENERAL NOTES:

- 1. Location of all underground utilities are approximate, source information from record documents listed in title commitment from Fidelity National Title Insurance Company, effective date November 20, 2019, and issued December 13, 2019, Commitment No. 9001181900648 has been combined with observed evidence of utilities at the time of this survey to develop a view of those underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may
- 2. The basis of bearing is derived from the Texas WDS RTK Cooperative Network - Texas State Plane Coordinate System, North Central Zone (4202), NAD83, and referenced to city of Rockwall Geodetic Monuments.
- 3. Zoning: GR (General Retail) building setbacks front (Yellow Jacket Lane) 15' front (Goliad Street) interior (S.E. side) interior (S.W. side) 30' maximum
- 4. All zoning information is per City of Rockwall zoning ordinance and must be verified prior to use or reliance upon same, to confirm the zoning information represents and depicts the then-current site specific information. Should there be any change in use, setback(s) and/or set back requirements, zoning classification and/or any other change or variation from the conditions recorded herein, the client must verify compliance with the use, set back, zoning classification and/or ordinance, regulation or legal requirement, prior to using or relying upor the findings recorded herein, or referencing same as related to the property, project and/or development.
- 5. Property has direct access to Yellowjacket Lane along it's northwestern boundary and direct access to Goliad Street (State Highway 205) along it's northeastern boundary.
- 6. This survey has been prepared for the sole purpose of the transaction described in the referenced title commitment and the parties listed thereon. This survey is not to be used for any subsequent transactions.
- 7. According to Community Panel No. 48397C0040L, dated September 26, 2008 of the Federal Emergency Management Agency, National Flood Insurance Program Map, this property is within Flood Zone "X", (areas determined to be outside 500-year floodplain), which is not a special flood hazard area. If this site is not within an identified special flood hazard area, this flood statement does not imply that the property and/or the structures thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. This statement shall not create liability on the part of the Surveyor.
- 8. The subject property has visible signs of recent earth work, building construction, or building additions at the time of the fieldwork being conducted.
- 9. The number and type of parking was unable to be determined at the time of the fieldwork being conducted due to striping not located on the
- 10. All plottable offsite easements are shown hereon on.

TO: SHAKEEL CHAUGHTAI, MIAN REAL ESTATE HOLDINGS LLC, FUND III SERIES, DYNAMIC GOLIAD INVESTMENTS, LLC, A TEXAS LIMITED LIABILITY COMPANY AND FIDELITY NATIONAL TITLE INSURANCE COMAPNY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(A), 7(A), 8, 9, 11, 13, 14, 16 & 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON DECEMBER 13, 2019.

BILLY M LOGSDON, JR.

MIAN REAL ESTATE 8660 THOMAS CHARLES LANE **HOLDINGS LLC** TS195043

ASA

INVERTS ADDED

DESCRIPTION OF REVISION

TBPE No. 18065 AND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE JSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

ALTA/NSPS LAND TITLE SURVEY

ASA 01-08-2020

BY: DATE

www.bohlerengineering.com

1" = 20'

HICKORY HILLS, IL 60457

708-728-1824

REGISTERED PROFESSIONAL LAND SURVEYOR NO. 6487 JANUARY 08, 2020 12/19/19 THIS CERTIFICATION IS MADE TO ONLY NAMED PARTIES FOR PURCHASE AND/OR MORTGAGE OF HEREIN DELINEATED PROPERTY BY THE NAMED PURCHASER. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY SURVEYOR FOR THE USE OF SURVEY FOR ANY OTHER PURPOSE INCLUDING, BUT NOT LIMITED TO, USE OF SURVEY AFFIDAVIT, RESALE OF PROPERTY, OR TO ANY OTHER PERSON NOT LISTED IN CERTIFICATION. EITHER DIRECTLY OR INDIRECTLY.

BILLY M. LOGSDON, JR.

ICV IRRIGATION CONTROL VALVE FH FIRE HYDRANT

WM WATER METER

wv WATER VALVE

co CLEAN OUT GT GREASE TRAP CURB INLET IG INLET GRATE

LEGEND

CIRF CAPPED IRON PIPE FOUND () ORIGINAL BOUNDARY CALL

P.R.R.C.T. PLAT RECORDS ROCKWALL COUNTY D.R.R.C.T. DEED RECORDS ROCKWALL COUNTY

POB POINT OF BEGINNING IRS IRON ROD SET

IRF IRON ROD FOUND

PP POWER POLE └P LIGHT POLE GUY GUY WIRE

EM ELECTRIC METER EB ELECTRIC BOX

A/C AIR CONDITIONER

TMH TELECOM MANHOLE

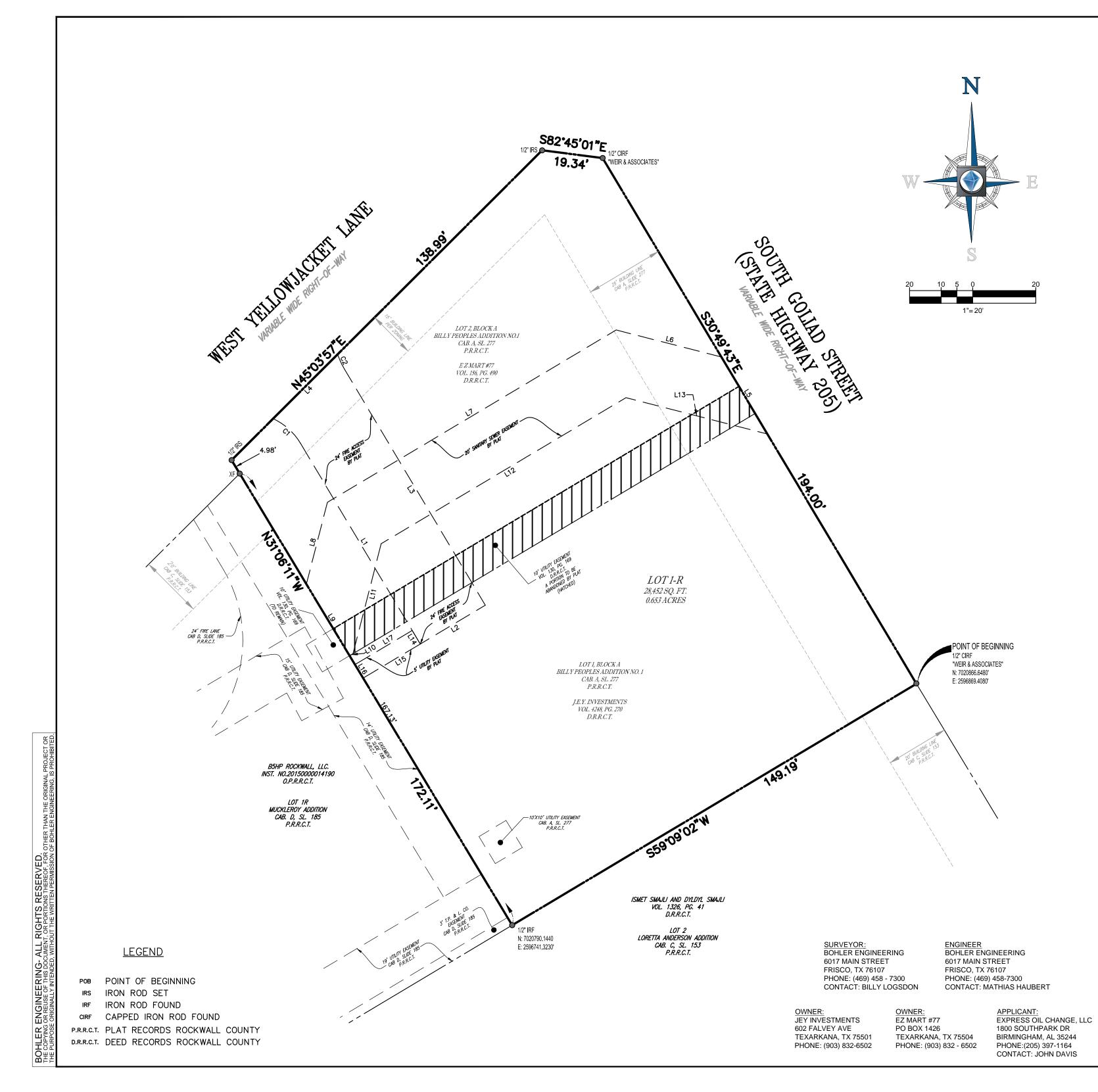
TPED TELECOM PEDESTAL

GLM GAS LINE MARKER

TSB TRAFFIC SIGNAL BOX

TSL TRAFFIC SIGNAL LIGHT POST

SSMH SANITARY SEWER MANHOLE





LOCATION MAP SCALE: N.T.S.

LINE TABLE						
NO.	BEARING	LENGTH				
L1	S30°49'43"E	68.49				
L2	N59°10'17"E	24.00'				
L3	N30°49'43"W	81.46				
L4	N45°03'57"E	28.87				
L5	N30°49'43"W	28.40'				
L6	N75°35'41"W	34.42'				
L7	S59°10'17"W	106.57				
L8	S14°24'19"W	26.74				
L9	S31°05'51"E	26.50'				

	LINE TABLE	
NO.	BEARING	LENGTH
L10	N59°09'19"E	1.25'
L11	N14°24'19"E	35.97'
L12	N59°10'17"E	90.31'
L13	S75°35'41"E	46.25
L14	S30°49'43"E	5.00'
L15	S59°10'17"W	21.10'
L16	N31°06'11"W	5.00'
L17	N59°10'17"E	21.12'

CURVE TABLE								
NO.	LENGTH	DELTA	RADIUS	TANGENT	CHORD BEARING	CHORD		
C1	11.90'	034°04'50"	20.00'	6.13'	S47°52'08"E	11.72'		
C2	5.31'	012°10'02"	25.00'	2.66'	N24°44'42"W	5.30'		

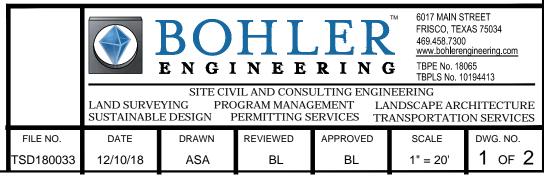
CITY PROJECT NO. FP ____ <u>AMENDING PLAT</u> BRAKES PLUS

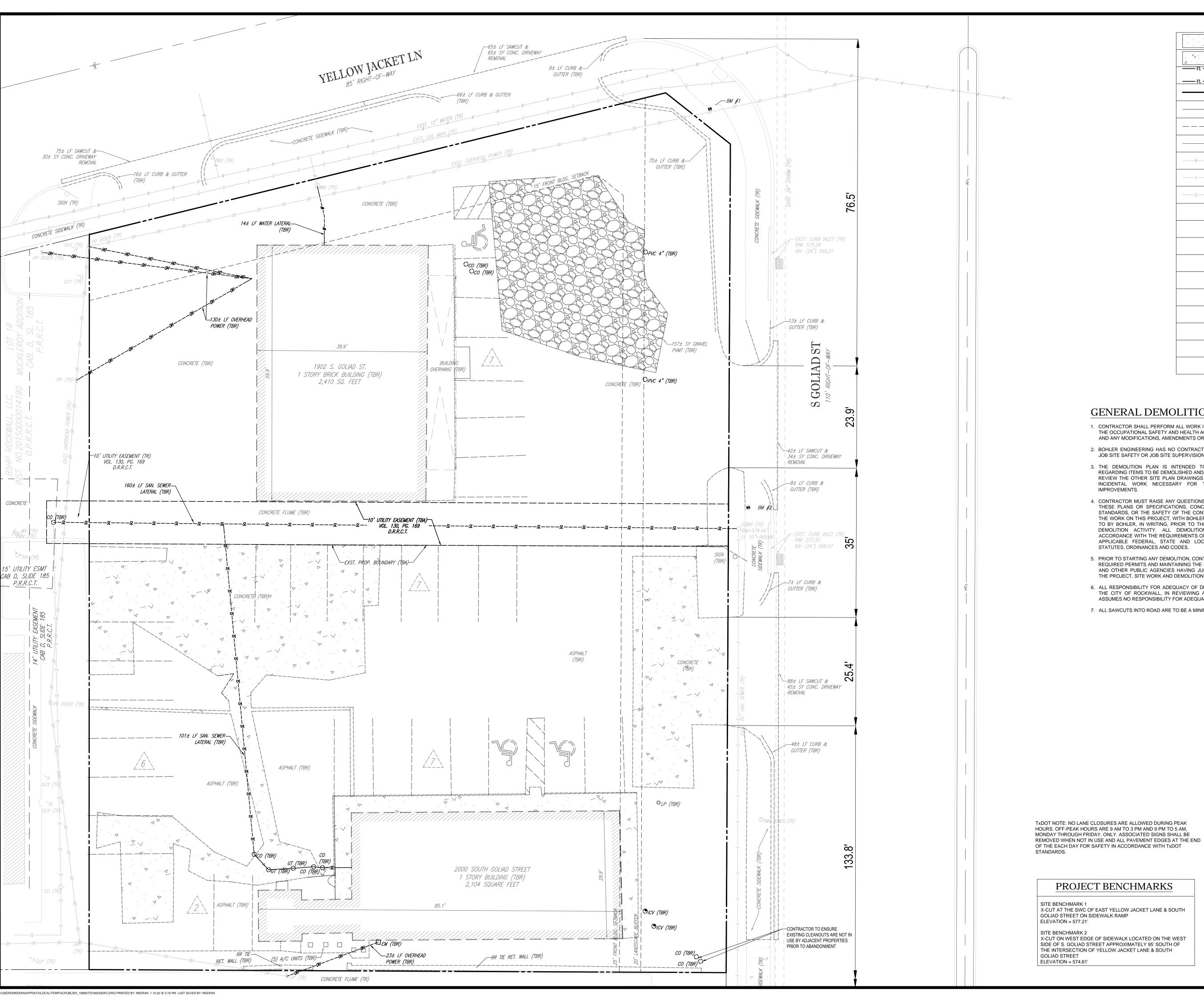
LOT 1R, BLOCK A

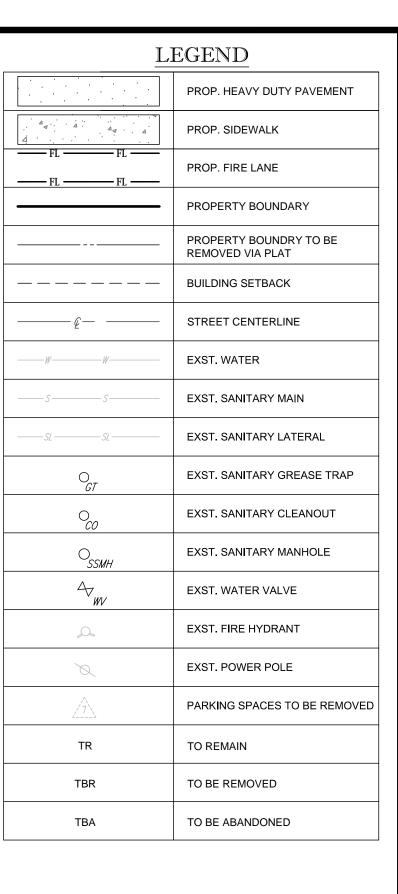
BEING ALL OF LOT 1 AND LOT 2, BLOCK A
BILLY PEOPLES ADDITION NO. 1
CAB A, PG 277.

0.653 ACRES OUT OF THE JAMES CADLE SURVEY, ABSTRACT NO. 65;

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS







GENERAL DEMOLITION NOTES:

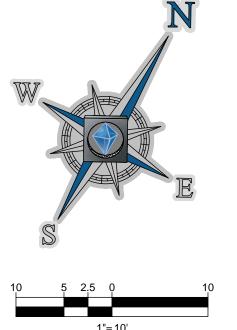
- 1. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- 2. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- 3. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- 4. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- 5. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.
- 6. 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.
- 7. ALL SAWCUTS INTO ROAD ARE TO BE A MINIMUM OF 2' IN LENGTH.

TXDOT NOTE: NO LANE CLOSURES ARE ALLOWED DURING PEAK HOURS. OFF-PEAK HOURS ARE 9 AM TO 3 PM AND 9 PM TO 5 AM, MONDAY THROUGH FRIDAY, ONLY. ASSOCIATED SIGNS SHALL BE

PROJECT BENCHMARKS

SITE BENCHMARK 1 X-CUT AT THE SWC OF EAST YELLOW JACKET LANE & SOUTH GOLIAD STREET ON SIDEWALK RAMP ELEVATION = 577.21'

SITE BENCHMARK 2 X-CUT ON WEST EDGE OF SIDEWALK LOCATED ON THE WEST SIDE OF S. GOLIAD STREET APPROXIMATELY 95' SOUTH OF THE INTERSECTION OF YELLOW JACKET LANE & SOUTH GOLIAD STREET





REVISIONS REV DATE COMMENT DOMESTIC WATER 3/18/19 REVISION TAS REVIEW 4/19/19 COMMENTS



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CONSTRUCTION

DOCUMENTS

brakes plus

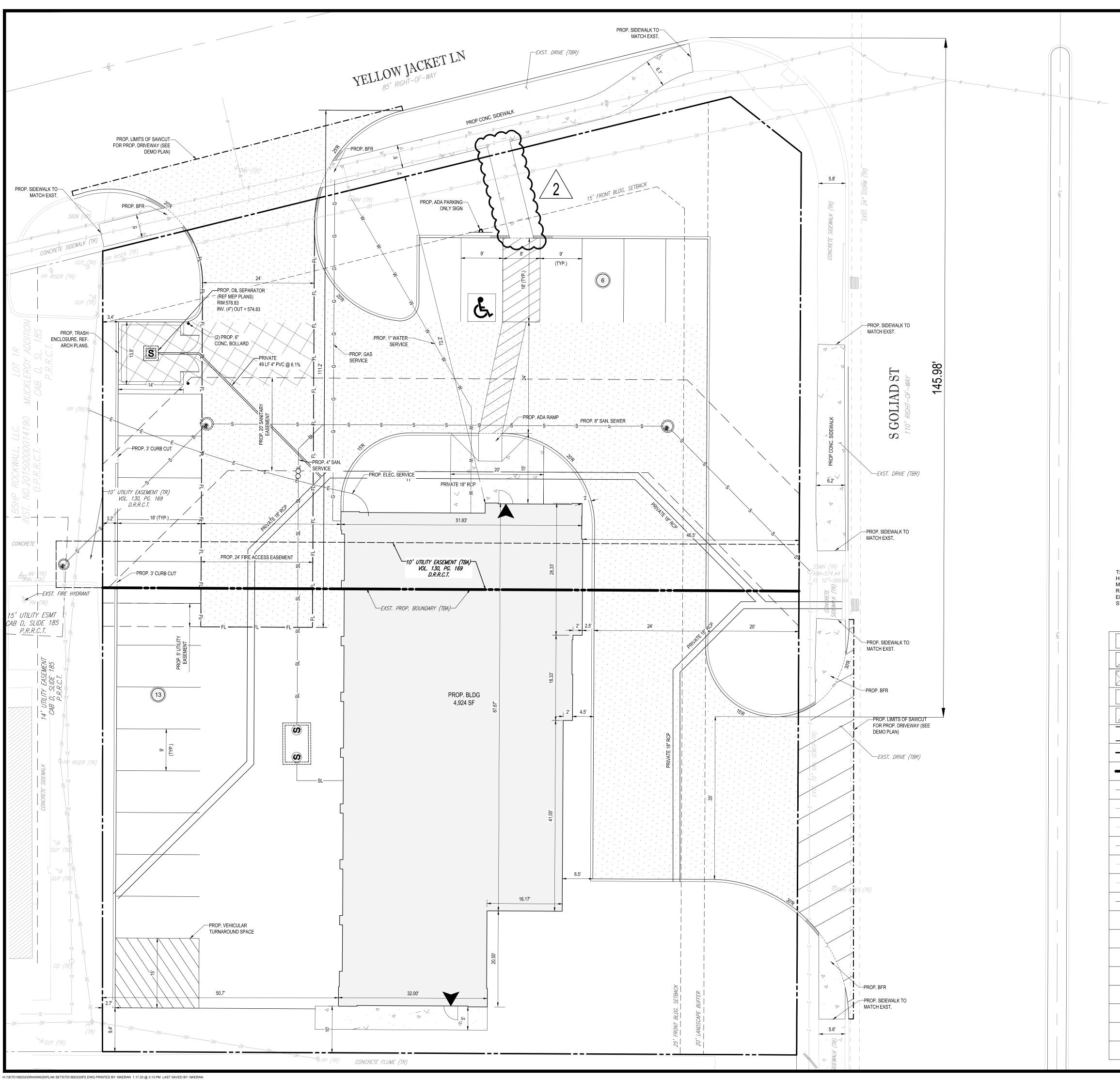
LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY



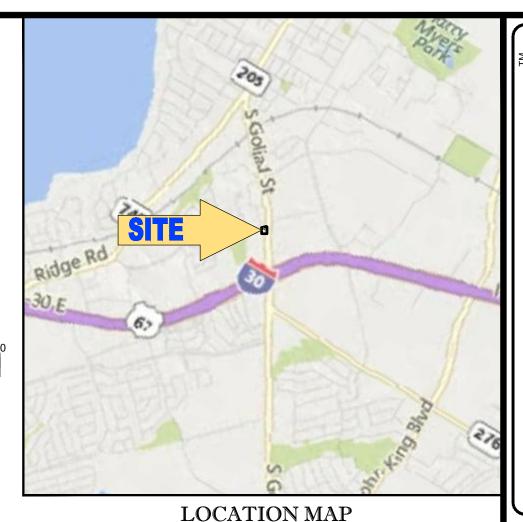
6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



EXISTING CONDITIONS & **DEMOLITION**







LOCATION MAP SCALE: N.T.S.

SITE DATA	A TABLE
TOTAL SITE AREA	0.653 AC (28,452 SF)
TOTAL BUILDING SIZE	4,924 SF
SITE ZONING DISTRICT	GR - GENERAL RETAIL
SITE OVERLAY DISTRICT	SH-205 OVERLAY DISTRICT
PROPOSED LAND USE	COMMERCIAL (AUTO REPAIR GARAGE, MINO
FRONT BUILDING SETBACK (S. GOLIAD)	25 FT
FRONT BUILDING SETBACK (YELLOW JACKET)	15 FT
SIDE BUILDING SETBACK	0 FT (PROVIDED BLDG IS FIRE RETARDANT)
TYPICAL PARKING SPACE	9' x 18'
CODE REQUIRED PARKING SPACES	2 SPACES PER SERVICE BAY = 16 SPACES
CODE REQUIRED ADA SPACES	1 SPACE
PROVIDED PARKING SPACES	20 SPACES
PROVIDED ADA SPACES	1 SPACE
EXISTING IMPERVIOUS AREA	26,234 SF (92.20%)
PROPOSED IMPERVIOUS AREA	19,933 SF (70.06%)
NET IMPERVIOUS AREA	- 6,301 SF (- 22.14%)

TXDOT NOTE: NO LANE CLOSURES ARE ALLOWED DURING PEAK HOURS. OFF-PEAK HOURS ARE 9 AM TO 3 PM AND 9 PM TO 5 AM, MONDAY THROUGH FRIDAY, ONLY. ASSOCIATED SIGNS SHALL BE REMOVED WHEN NOT IN USE AND ALL PAVEMENT EDGES AT THE END OF THE EACH DAY FOR SAFETY IN ACCORDANCE WITH TXDOT STANDARDS.

LEGEND

<u> </u>	
	PROP. HEAVY DUTY PAVEMENT
	PROP. 10", 3,600 PSI, MIN. 6.5 SACK MIX HEAVY DUTY PAVEMENT
	PROP. 7", 3,600 PSI, MIN. 6.5 SACK MIX HEAVY DUTY PAVEMENT
	PROP. STANDARD DUTY PAVEMENT
	PROP. SIDEWALK
	PROP. FIRE LANE
	PROPERTY BOUNDARY
	PROPERTY BOUNDRY TO BE REMOVED VIA PLAT
	BUILDING SETBACK
	STREET CENTERLINE
W	EXST. WATER
	PROP. WATER
SS	EXST. SANITARY MAIN
SL	EXST. SANITARY LATERAL
St	PROP. SANITARY LATERAL
	PROP. SANITARY SEWER MANHOLE
•	PROP. WATER METER
۵	EXST. FIRE HYDRANT
X	EXST. POWER POLE
'un _{un}	PROP. CURB TRANSITION
TR	TO REMAIN
TBR	TO BE REMOVED

TO BE ABANDONED

GENERAL NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS
 OTHERWISE NOTED.
- 2. ALL RADII ARE 4.0' UNLESS OTHERWISE NOTED.
- 3. ALL PROPOSED SIDEWALKS, LANDINGS, AND BARRIER-FREE RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ADA STANDARDS.
- 4. HANDICAP PARKING IS PROVIDED IN ACCORDANCE WITH ADA STANDARDS.
- CONTRACTOR SHALL ADJUST EXISTING VALVES,
- MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
- 6. FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES IMMEDIATELY PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN EXPENSE.
- 7. ON-SITE DETENTION IS NOT REQUIRED BASED PRE-DEVELOPMENT PERVIOUS/IMPERVIOUS COVER AREAS COMPARED TO POST-DEVELOPMENT COVER AREAS. PROPOSED IMPROVEMENTS INCREASE THE AMOUNT OF PERVIOUS AREA COVER.
- 8. ALL PAVED AREAS SHALL BE CONCRETE. HEAVY DUTY PAVED AREAS SHALL BE 6" CONCRETE WITH A MINIMUM STRENGTH OF 3,600 PSI AND A MINIMUM 6.5 SACK MIX OVER 6" LIME STABILIZED CLAY. ALL PAVED AREAS NOT INDICATED AS HEAVY DUTY SHALL BE STANDARD DUTY CONCRETE. STANDARD DUTY CONCRETE SHALL BE 5" CONCRETE OVER 6" LIME STABILIZED CLAY. SEE SHEET
- PROPOSED TRASH ENCLOSURE MUST BE SCREENED FROM SH 205 (S GOLIAD) AND SHALL BE 4-SIDED WITH AN OPAQUE SELF-LATCHING GATE.
- 10. ALL SAWCUTS INTO ROAD ARE TO BE A MINIMUM OF 2' IN
- 11. DRIVEWAYS CONNECTING TO YELLOW JACKET LANE AND S. GOLIAD STREET ARE TO CONNECT TO EXISTING
- PAVEMENT WITH A LONGITUDINAL BUTT JOINT.

 12. 8' MASONRY TRASH ENCLOSURE IS TO MATCH THE BUILDING AND IS TO BE INSTALLED WITH A
- 13. ALL BARRIER FREE RAMPS WITHIN ROW SHALL BE COLONIAL OR BRICK RED TRUNCATED DOME PLATES.

SURVEYOR:
BOHLER ENGINEERING
6017 MAIN STREET
FRISCO, TX 76107

APPLICANT:
BRAKES PLUS, LLC
1800 SOUTHPARK DR
BIRMINGHAM, AL 35244

SELF-LATCHING, OPAQUE GATE.

PHONE: (469) 458 - 7300 CONTACT: BILLY LOGSDON DATE: JULY 2018 OWNER: DYNAMIC DEVELOPMENT 1725 21ST ST

SANTA MONICA, CA 90404

CONTACT: DANIEL J. PORTER

PHONE: (214) 662-5167

ENGINEER:
BOHLER ENGINEERING
6017 MAIN STREET
FRISCO, TX 75034
PHONE:(469) 458-7300
CONTACT: MATHIAS HAUBERT

PHONE: (205) 397-1164

CONTACT: JÓHN DAVIS

BOHILERING BY CONSTRUCTION OF THE PRINCE BY CONSTRUCTION OF THE PR

E N C
SITE CIVIL AND C
VEXING PROGRAM

REVISIONS

REV DATE COMMENT BY

1 3/18/19 DOMESTIC WATER REVISION MJH

2 4/19/19 TAS REVIEW COMMENTS MJH



ASBUILT RECORD DRAWING

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PROJECT No.: TD1
DRAWN BY:
CHECKED BY:

SCALE:

PROJECT:

CONSTRUCTION

FOR —

DOCUMENTS

brakes plus

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

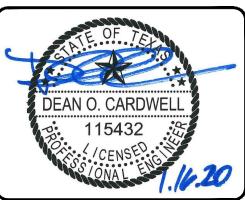
PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



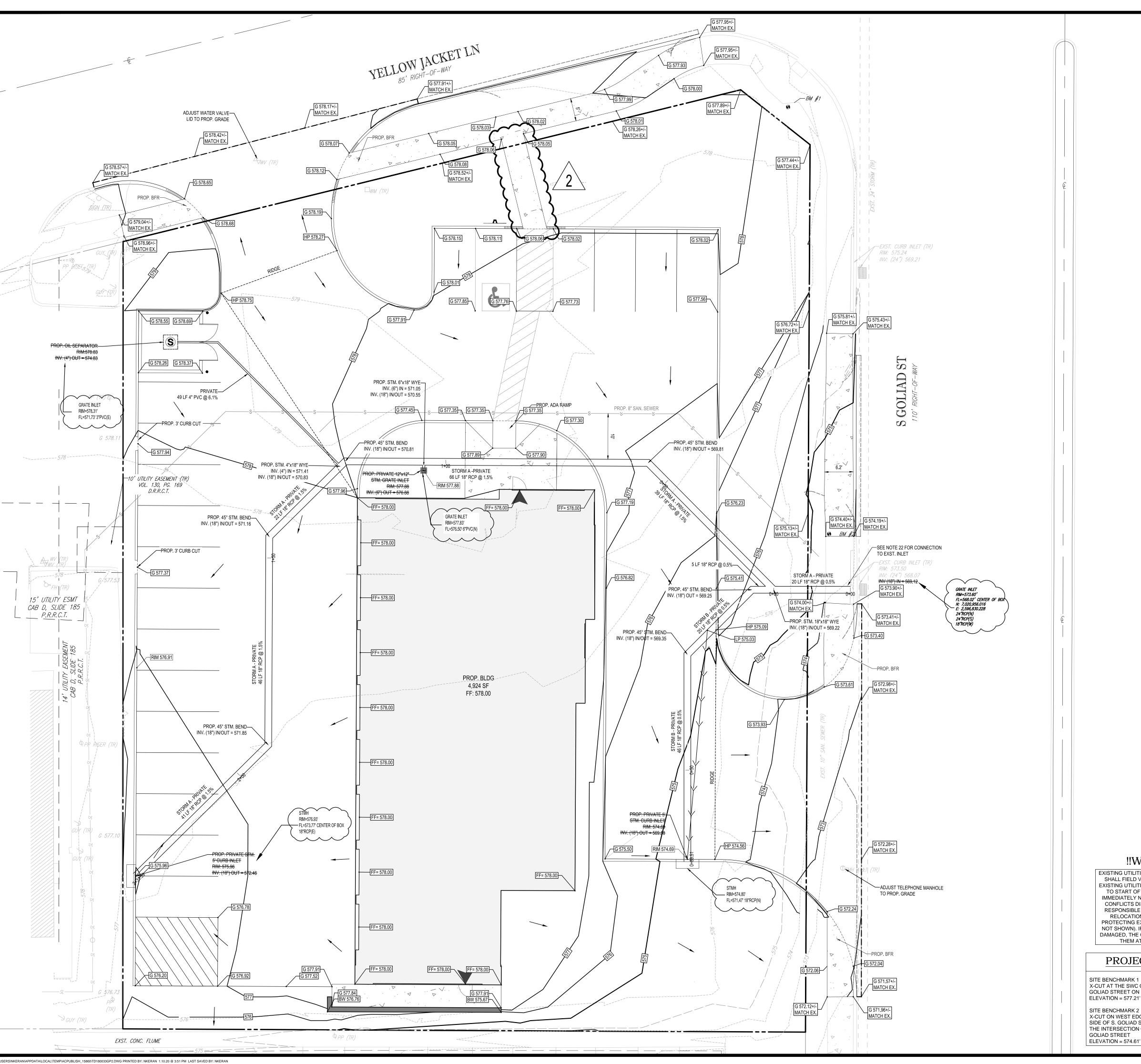
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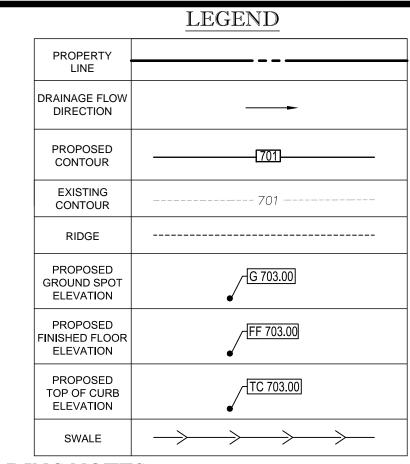


SHEET TITLE:

SITE & PAVING PLAN

EET NUMBER:





GRADING NOTES:

- 1. WORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY ECS SOUTHWEST, LLP., DATED SEPTEMBER 4, 2018.
- 2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF ROCKWALL STANDARDS AND SPECIFICATIONS, AND NCTCOG 4TH EDITION WITH CITY REVISIONS.
- 3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 4. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
- 5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 6. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- 7. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- 8. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 9. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 10. TOPOGRAPHIC INFORMATION IS TAKEN FROM BOUNDARY/TOPOGRAPHIC SURVEY BY BOHLER ENGINEERING. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- 11. ALL SUBSURFACE AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- 12. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 13. ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS NOTED OTHERWISE. TO GET TOP OF CURB ELEVATIONS ADD 6" TO THE ELEVATION SHOWN.
- 14. GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTS INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO ADA STANDARDS. SLOPES SHALL NOTE EXCEED 5% LONGITUDINAL SLOPE OR 2% CROSS SLOPE. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
- 15. ANY PROPOSED CONTOURS SHOWN ARE APPROXIMATE PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- 16. REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
- 17. ALL VEGETATION SHALL BE CLEARED AND GRUBBED FOR ALL AREAS TO BE
- DISTURBED. 18. ALL FILL TO BE PLACED SHALL BE A MINIMUM OF 95% OF STANDARD DENSITY USING A SHEEP'S FOOT ROLLER AND SHALL BE IN ACCORDANCE
- 19. 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.

WITH THE CURRENTLY APPLICABLE GEOTECHNICAL REPORT

20. ALL RIGHT OF WAYS TO BE SODDED.

RECOMMENDATIONS.

- 21. 75-80% OF ALL DISTURBED AREA TO HAVE A MINIMUM 1" STAND OF GRASS (NOT WEEDS OR WINTER RYE) PRIOR TO CITY ACCEPTANCE OR CERTIFICATE OF OCCUPANCY.
- 22. CONTRACTOR TO CORE DRILL EXISTING INLET BOX FOR PROPOSED STORM PIPE CONNECTION AND SLURRY SEAL FOR WATER-TIGHT SEAL. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING INLET STRUCTURE DURING CONSTRUCTION.

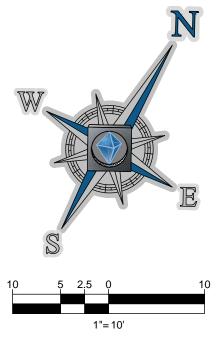
!!WARNING!!

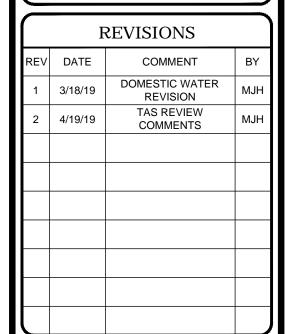
EXISTING UTILITIES IN THE AREA. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL **EXISTING UTILITIES WITH THE PROVIDER PRIOR** TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN EXPENSE.

PROJECT BENCHMARKS

X-CUT AT THE SWC OF EAST YELLOW JACKET LANE & SOUTH GOLIAD STREET ON SIDEWALK RAMP ELEVATION = 577.21'

X-CUT ON WEST EDGE OF SIDEWALK LOCATED ON THE WEST SIDE OF S. GOLIAD STREET APPROXIMATELY 95' SOUTH OF THE INTERSECTION OF YELLOW JACKET LANE & SOUTH **GOLIAD STREET**







ASBUILT **RECORD DRAWING**

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DRAWN BY: SCALE:

CONSTRUCTION

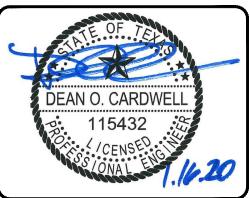
DOCUMENTS

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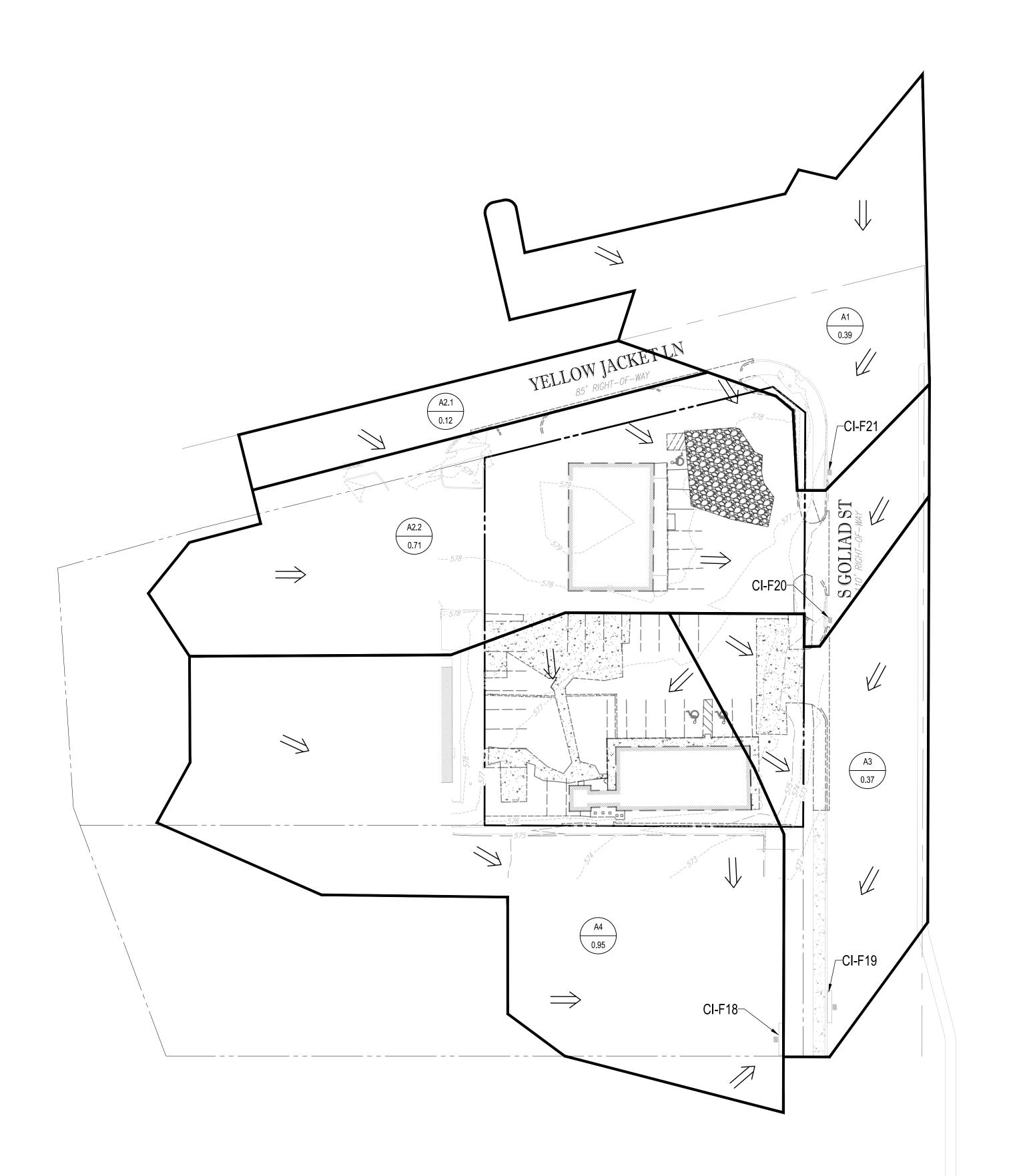
LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



GRADING & DRAINAGE



C:\USERS\NKERAN\APPDATA\LOCAL\TEMP\ACPUBLISH_15860\TD180033GP2.DWG PRINTED BY: NKERAN 1.10.20 @ 3:20 PM LAST SAVED BY: NKERAN

LEGEND

DIRECTION OF DRAINAGE	\leftarrow
EX. AREA BOUNDARY	
EXISTING CONTOUR	601
PROPERTY LINE	
TROTERTIE	
DRAINAGE AREA NUMBE AREA (ACR	AT

DRAINAGE GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE GRADING SHEET C-401 FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- 3. 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.
- 4. CI-F18 AND CI-F19 ARE 15', TY II CURB INLETS. SEE NOTE 5 BELOW FOR THE REFERENCE PLAN SET.
- 5. REFER TO TXDOT PLANS TITLED "SH 205 0451-01-032 AS-BUILT INDEX VOL II" PREPARED BY PARSONS BRINKERHAFF QUADE & DOUGLAS, INC. DATED 6/9/06.

FLOOD NOTE:

ACCORDING TO FLOOD INSURANCE RATE MAP (FIRM) NO. 48397C0040L, EFFECTIVE SEPTEMBER 26, 2008, ROCKWALL COUNTY, TEXAS, THIS PROPERTY IS WITHIN ZONE X. NO 100-YEAR FLOODPLAIN EXISTS ON THE SITE.

C VALUE CALCULATIONS

DRAINAGE AREA	AREA (AC)	PAVEMENT C=0.90	INDUSTRIAL C=0.85	WEIGHTED COEFFICIENT
A1	0.39	0.25	0.14	0.883
A2.1	0.12	0.12	0.00	0.900
A2.2	0.71	0.12	0.59	0.858
А3	0.37	0.22	0.15	0.879
A4	0.95	0.00	0.95	0.850

*COEFFICIENT VALUES BASED ON TXDOT DESIGN PLANS.

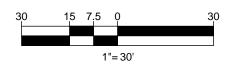
5-YR DRAINAGE AREA TABLE

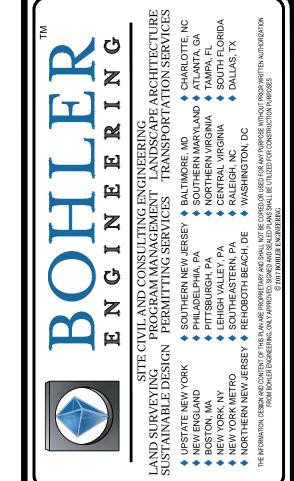
1	AINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₅ " (IN/HR)	TOTAL FLOW Q ₅ (CFS)	COLLECTION POINT
	A1	0.39	0.883	0.341	10	6.93	2.36	CI-F21
	A2.1	0.12	0.900	0.108	10	6.93	0.75	CI-F21
,	A2.2	0.71	0.858	0.609	10	6.93	4.22	CI-F20
	А3	0.37	0.879	0.322	10	6.93	2.23	CI-F19
	A4	0.95	0.850	0.803	10	6.93	5.57	CI-F18

100-YR DRAINAGE AREA TABLE

DRAINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₁₀₀ " (IN/HR)	TOTAL FLOW Q ₁₀₀ (CFS)	COLLECTION POINT
A1	0.39	0.883	0.341	10	9.80	3.34	CI-F21
A2.1	0.12	0.900	0.108	10	9.80	1.06	CI-F21
A2.2	0.71	0.858	0.609	10	9.80	5.97	CI-F20
А3	0.37	0.879	0.322	10	9.80	3.16	CI-F19
A4	0.95	0.850	0.803	10	9.80	7 87	CI-F18







	REVISIONS						
REV	DATE	COMMENT	BY				
1	3/18/19	DOMESTIC WATER REVISION	MJH				
2	4/19/19	TAS REVIEW COMMENTS	MJH				



ASBUILT RECORD DRAWING

It's fast. It's free. It's the law.

PROJECT No.: TD1800
DRAWN BY: M.
CHECKED BY: DOTE: 02/25/20
SCALE: 1"=5

PROJECT:

CONSTRUCTION

DOCUMENTS

brakes plus 🙈

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



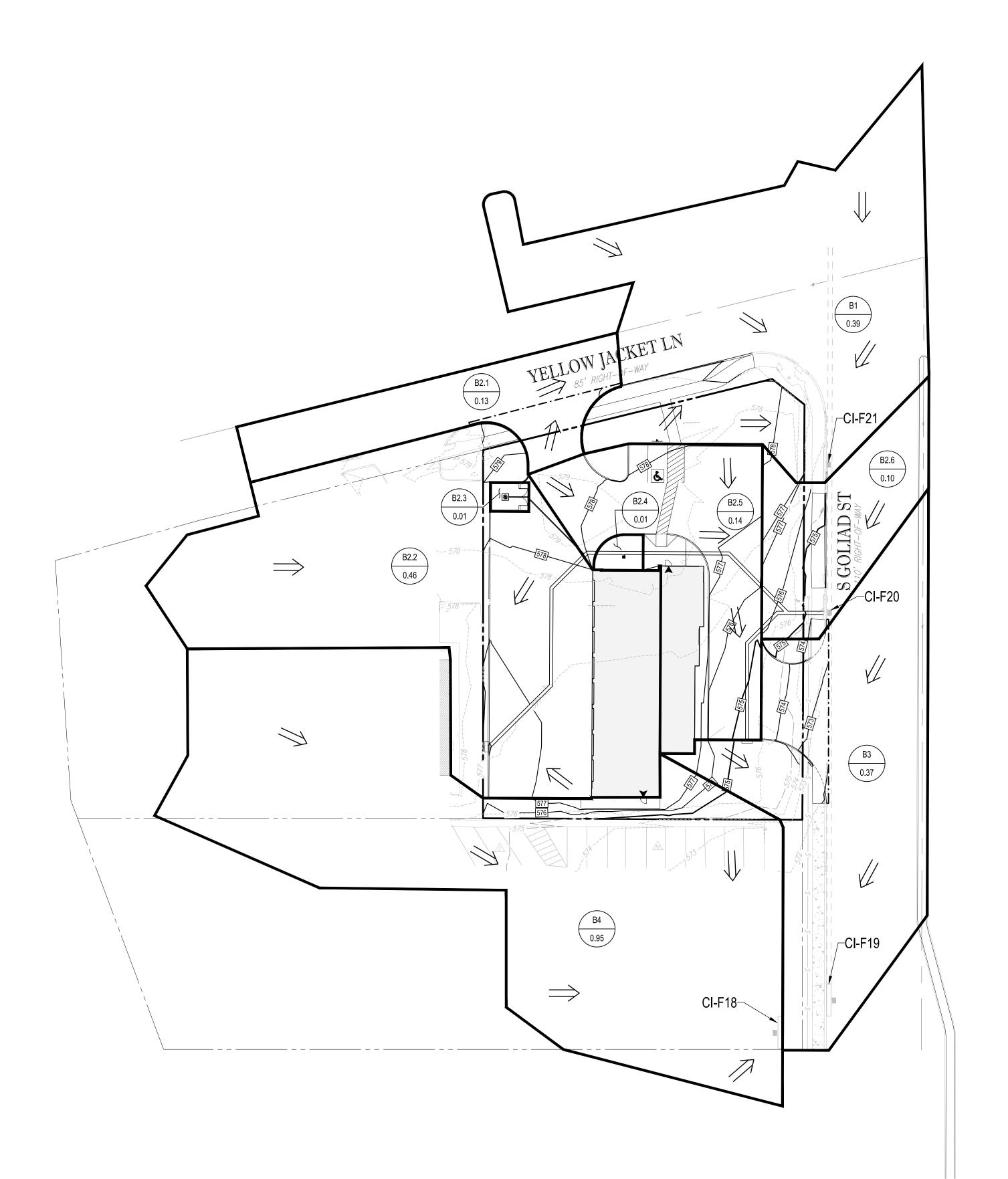
6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX @BohlerEng.com



SHEET TITLE:

EXISTING DRAINAGE AREA MAP

C-402



C:\USERS\NKERAN\APPDATA\LOCAL\TEMP'ACPUBLISH_15860\TD180033GP2.DWG PRINTED BY: NKERAN 1.10.20 @ 3:20 PM LAST SAVED BY: NKERAN

C VALUE CALCULATIONS

DRAINAGE AREA	AREA (AC)	PAVEMENT C=0.90	INDUSTRIAL C=0.85	WEIGHTED COEFFICIENT
B1	0.39	0.26	0.13	0.883
B2.1	0.13	0.13	0.00	0.900
B2.2	0.46	0.00	0.46	0.850
B2.3	0.01	0.00	0.01	0.850
B2.4	0.01	0.00	0.01	0.850
B2.5	0.14	0.00	0.14	0.850
B2.6	0.10	0.06	0.04	0.880
В3	0.32	0.22	0.10	0.884
B4	0.73	0.00	0.73	0.850

*COEFFICIENT VALUES BASED ON TXDOT DESIGN PLANS.

LEGEND

SWALE	$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$
RIDGE	
DIRECTION OF DRAINAGE	
PROP. AREA BOUNDARY	
EXISTING CONTOUR	601
PROPOSED CONTOUR	701
PROPERTY LINE	
DRAINAGE AREA NUMBE	ER B3
ADEA (ACD	

DRAINAGE GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 2. SEE GRADING SHEET C-401 FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- 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.

- 4. CI-F18 AND CI-F19 ARE 15', TY II CURB INLETS. SEE NOTE 5 BELOW FOR THE REFERENCE PLAN SET.
- REFER TO TXDOT PLANS TITLED "SH 205 0451-01-032 AS-BUILT INDEX VOL II" PREPARED BY PARSONS BRINKERHAFF QUADE & DOUGLAS, INC. DATED 6/9/06.

FLOOD NOTE:

ACCORDING TO FLOOD INSURANCE RATE MAP (FIRM) NO. 48397C0040L, EFFECTIVE SEPTEMBER 26, 2008, ROCKWALL COUNTY, TEXAS, THIS PROPERTY IS WITHIN ZONE X. NO 100-YEAR FLOODPLAIN EXISTS ON THE SITE.

5-YR DRAINAGE AREA TABLE

	_						
DRAINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₅ " (IN/HR)	PROPOSED FLOW Q ₅ (CFS)	COLLECTION POINT
B1	0.39	0.883	0.341	10	6.93	2.38	CI-F21
B2.1	0.13	0.900	0.117	10	6.93	0.81	CI-F21
B2.2	0.68	0.850	0.578	10	6.93	4.01	CI-F20
B2.3	0.01	0.850	0.009	10	6.93	0.06	CI-F20
B2.4	0.01	0.850	0.009	10	6.93	0.06	CI-F20
B2.5	0.14	0.850	0.119	10	6.93	0.82	CI-F20
B2.6	0.10	0.880	0.088	10	6.93	0.61	CI-F20
В3	0.32	0.884	0.282	10	6.93	1.96	CI-F19
B4	0.95	0.850	0.621	10	6.93	4.30	CI-F18
			TOTAL E	EXISTING Q _{5 YR} TO	TXDOT SYSTEM	15.13 CFS	
			TOTAL PR	OPOSED Q _{5 YR} TO	TXDOT SYSTEM	15.01 CFS	

100-YR DRAINAGE AREA TABLE

DELTA Q_{5 YR} TO TXDOT SYSTEM - 0.12 CFS

				,	,		
DRAINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₁₀₀ " (IN/HR)	PROPOSED FLOW Q ₁₀₀ (CFS)	COLLECTION POINT
B1	0.39	0.883	0.341	10	9.80	3.38	CI-F21
B2.1	0.13	0.900	0.117	10	9.80	1.15	CI-F21
B2.2	0.68	0.850	0.578	10	9.80	5.66	CI-F20
B2.3	0.01	0.850	0.009	10	9.80	0.09	CI-F20
B2.4	0.01	0.850	0.009	10	9.80	0.09	CI-F20
B2.5	0.14	0.850	0.119	10	9.80	1.17	CI-F20
B2.6	0.10	0.880	0.088	10	9.80	0.86	CI-F20
В3	0.32	0.884	0.282	10	9.80	2.76	CI-F19
B4	0.95	0.850	0.621	10	9.80	6.09	CI-F18
			TOTAL EX	VICTING O TO	TYDOT CYCTEM	24 40 CES	

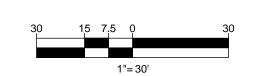
TOTAL EXISTING $Q_{100 \text{ YR}}$ TO TXDOT SYSTEM 21.40 CFS

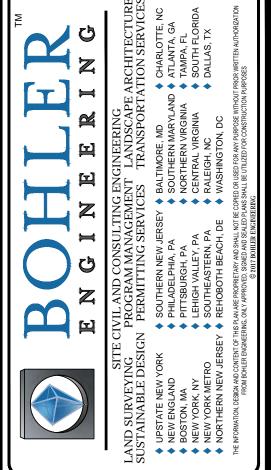
TOTAL PROPOSED $Q_{100 \text{ YR}}$ TO TXDOT SYSTEM 21.25 CFS

DELTA $Q_{100 \text{ YR}}$ TO TXDOT SYSTEM -0.15 CFS

*TXDOT PLANS UTILIZE A RUNOFF COEFFICIENT OF 0.9 FOR PAVEMENT AREAS WITHIN THE TXDOT RIGHT-OF-WAY. ALL PRIVATE DEVELOPMENT IS CALCULATED USING A COEFFICIENT BY USE - AN INDUSTRIAL USE WITH A COEFFICIENT VALUE OF 0.85. BECAUSE THE PAVEMENT VALUES WITHIN THE TXDOT ROW ARE NEGLIGIBLY IMPACTED AND THE COEFFICIENT BY USE REMAINING, THE FLOW VALUES WERE MINIMALLY IMPACTED. A DECREASE IN DISCHARGE WILL BE INCURRED WITH THE RUNOFF CALCULATIONS. HENCE, THE EXISTING STORM SYSTEM WILL HAVE ADEQUATE CAPACITY FOR THE PROPOSED DEVELOPMENT IMPROVEMENTS INCLUDED IN THIS PLANSET.







	F	REVISIONS	
REV	DATE	COMMENT	BY
1	3/18/19	DOMESTIC WATER REVISION	MJH
2	4/19/19	TAS REVIEW COMMENTS	MJH



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ASBUILT RECORD DRAWING

 PROJECT No.:
 TD1800

 DRAWN BY:
 M

 CHECKED BY:
 D

 DATE:
 02/25/20

 SCALE:
 1"=

 CAD I.D.:
 H

PROJECT:

CONSTRUCTION

DOCUMENTS

JOCUMEN 13

brakes plus (Auto Service)

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



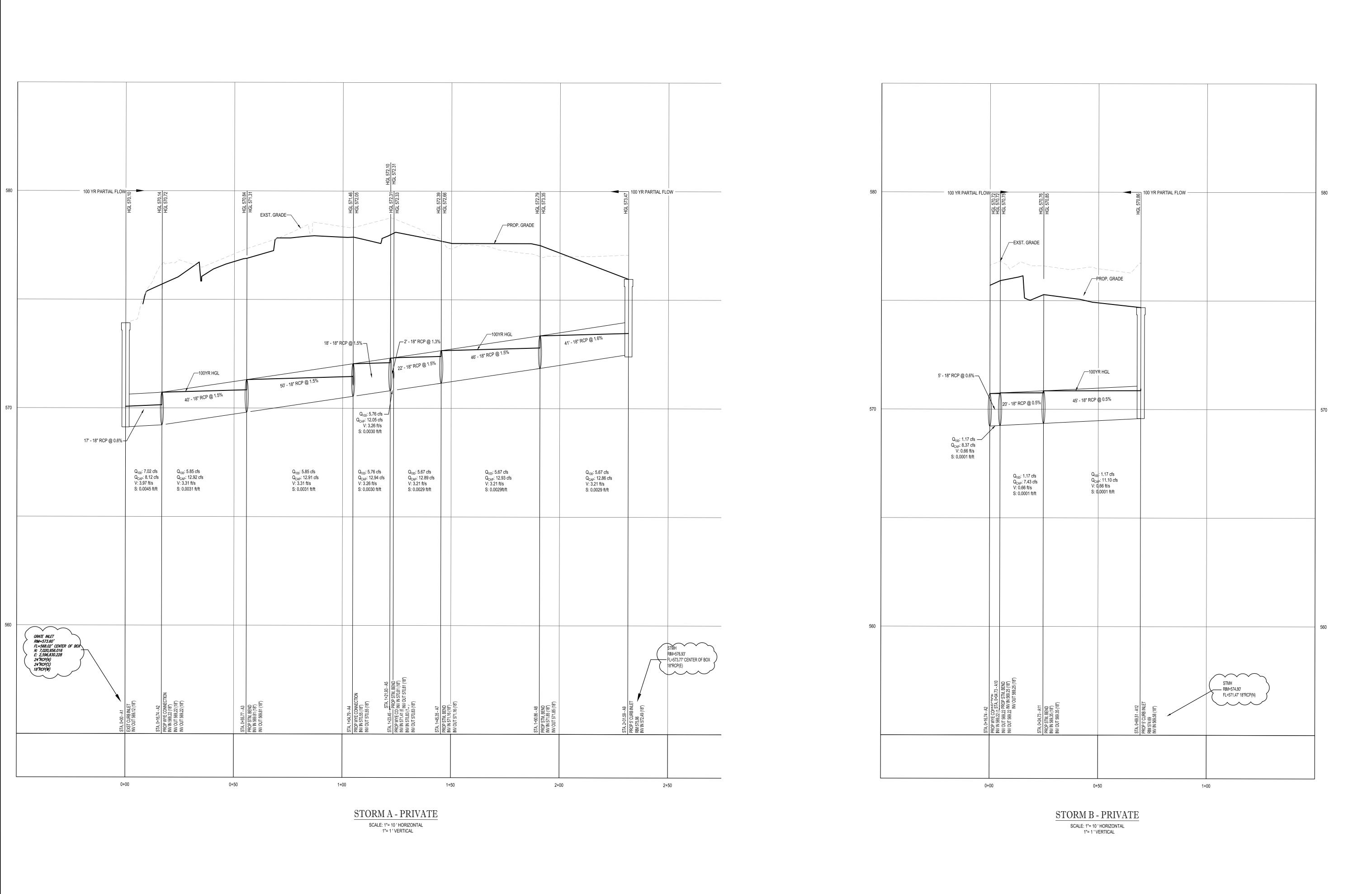
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SHEET TITLE:

PROPOSED DRAINAGE AREA MAP

C-403



C:\USERS\NKERAN\APPDATA\LOCAL\TEMP\ACPUBLISH_15860\TD180033GP2.DWG PRINTED BY: NKERAN 1.10.20 @ 3:51 PM LAST SAVED BY: NKERAN

TITLE TOTALLA ND CONSULTING ENGINEERING

SITTE CIVIL AND CONSULTING ENGINEERING

AND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE

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REVISIONS

REV DATE COMMENT BY

1 3/18/19 DOMESTIC WATER REVISION MJH

2 4/19/19 TAS REVIEW COMMENTS MJH



ASBUILT RECORD DRAWING

PROJECT No.:
DRAWN BY:
CHECKED BY:
DATE:
SCALE:
CAD I.D.:

PROJECT:

CONSTRUCTION

DOCUMENTS

DOCUMENTS

FOR

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

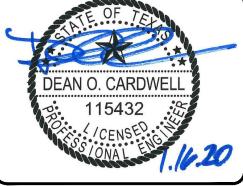
PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



FRISCO, TX 75034
Phone: (469) 458-7300
TX @BohlerEng.com



SHEET TITLE:

STORM SEWER PROFILES

SHEET NUMBER:

C-404

STORM LINE A 100-YR HYDRAULIC CALCULATIONS

torm Drainag	e Calculation	S _.																																								
								Cor	nduit Pro	perties									Increm	ental Drainage	Area													⊣GL		Head	lloss Calcul	ations				
	Çol	lection Point					Вох								Flowlin	Elevation											Conduit		14.1	+ E	riction Slope	mutanta.								Decision .	T/C or HGL	
System ID	From (UpS Juncti	To on) (DnS Jun) Le	1 1	No. of Pipe Barrels Diar		ipan R	Rise	Туре	Area	Wetted Perimeter P	Hydrau W Radiu	ı	/anning's "n"	Upstream	Downstrea	n Slope	Inlet ID	Area	Runoff Coeff. C	Incrementa C*A	Accumulated CA	Upstream T _c	Design Storm Frequency	Storm Intensity	Runoff Q	Capacity Q	Partial Flow	Velocity V	Time in Fr	S _f	Head Loss	Upstream	Downstream	V ₁ ² /2g	V ₂ ² /2g	Junction Type	Coeff. K _j	Headloss H _t	HGL	Ground Depti below T/C	Comment
	Sta	Sta		ft	j	n	ft	ft		ft ²	ft	ft						į	Ac				min.	yr	in/hr	cfs	cfs		ft/s	min.	ft/ft	ft			ft	ft			ft			
1	2	3		4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40 41	42
torm Line A																																										•
A9	2+31.59	1+90.	.86 4	40.73	1	8 1	N/A N	N/A	RCP	1.77	4.712	0.38		0.013	572.46	571.85	0.0150	A9	0.68	0.85	0.58	0.58	10.0	100	9.80	5.67	12.86	Yes	3.21	0.0	0.0029	0.12	573.47	573.35	N/A	3.21	Inlet	1.25	0.10	573.47	575.96 2.49	
A8	1+90.86	1+45.	,35	45.51	1	.8 i	N/A N	N/A	RCP	1.77	4.712	0,38		0.013	571.85	571.16	0.0152	N/A	0	0	0.00	0.58	10.0	100	9.80	5.67	12.93	Yes	3.21	0.2	0.0029	0.13	572. 7 9	572.66	3.21	3.21	45 BEND	0.37	1.19	573.35	577.51 4.16	Design HGL = top of pipe
A7	1+45.35	1+23.	.45	21.9	1	.8 i	N/A N	N/A	RCP	1.77	4.712	0.38	1	0.013	571.16	570.83	0.0151	N/A	0	0	0.00	0.58	10.2	100	9.77	5.67	12.89	Yes	3.21	0.1	0.0029	0.06	572.39	572.33	3.21	3.21	45 BEND	0.37	1.19	572.66	577.70 5.04	Design HGL = top of pipe
A6	1+23.45	1+21.	.93	1.52	1	.8 i	N/A N	N/A	RCP	1.77	4.712	0.38	;	0.013	570.83	570.81	0.0132	N/A	0.01	0.85	0.01	0.59	10.3	100	9.75	5.76	12.05	Yes	3.26	0.0	0.0030	0.00	572.31	572.31	3.21	3.26	45 WYE	0.50	1.63	572.33	578.07 5.74	Design HGL = top of pipe
A5	1+21.93	1+04	.79 1	17.14	1	.8	N/A N	N/A	RCP	1.77	4.712	0.38	;	0.013	570.81	570.55	0.0152	N/A	0	0	0.00	0.59	10.3	100	9.75	5.76	12.94	Yes	3.26	0.1	0.0030	0.05	572.10	572.05	3.26	3.26	45 BEND	0.37	1.21	572.31	577.99 5.68	Design HGL = top of pipe
A4	1+04.79	0+55.	.77	49.02	1	.8 1	N/A N	I/A	RCP	1.77	4.712	0.38	;	0.013	570.55	569.81	0.0151	N/A	0.01	0.85	0.01	0.60	10.4	100	9.74	5.85	12.91	Yes	3.31	0.2	0.0031	0.15	571.46	571.31	3.26	3.31	45 WYE	0.50	1.66	572.05	577.88 5.83	
A3	0+55.77	0+16.	.74 3	39.03	1	.8	N/A N	N/A	RCP	1.77	4.712	0,38		0.013	569.81	569.22	0.0151	N/A	O	0	0.00	0,60	10.6	100	9.70	5,85	12.92	Yes	3,31	0.2	0.0031	0.12	570.84	570.72	3.31	3.31	45 BEND	0.37	1.22	571.31	577.03 5.72	Design HGL = top of pipe
A2	0+16.74	0+00.	.00 1	16.74	1	8	N/A N	N/A	RCP	1.77	4.712	0.38		0.013	569.22	569.12	0.0060	N/A	0	0	0.00	0.60	10.8	100	9.67	7.02	8.12	Yes	3.97	0.1	0.0045	0.07	570.14	570.07	3.31	3.97	45 WYE	0.50	1.99	570.72	<i>5</i> 75.49 4.77	Design HGL = top of pipe

STORM LINE B 100-YR HYDRAULIC CALCULATIONS

Storm Drainag	e Calculations																																								
							Con	duit Propert	ies								Incren	nental Drainage A	rea													HGL		Hea	dloss Calcula	ations					
	Collect	ion Point				Вох							Flowlin	e Elevation						Accumulated		Design	Storm		Condu	i+	Volocity	Time in	Friction	Eriction					ļ	1	J	Design T/C o	or HGL		
System ID	From	To	Pipe No	o. of Pip	e Size		1 7	ype Ar	ea i	Wetted		Manning's				Inlet ID	Area	Runoff	Incremental		Upstream	T _c Storm	Storn	Runoff (Capacity	Partial Floy	Velocity V	Conduit		Head Loss	Upstream	Downstrean	n V ₁ ² /2g	V2 ² /2g	Junction	Coeff.	Headloss	HGI Grou	i below i	Comment	
.,	(UpS Junction)	(DnS Junction)	Length Ba	arrels Dia	meter 5	pan Ri		/F- ·	Pei	rimeter P _w	Radius	"n"						Coeff. C	C*A			Frequen	су	' 	-,,				,				- 17,-8	127-6	Туре	K _i	HL	Elev	v. T/C		
													Upstream	Downstream	Slope	<u> </u>																									
	Sta	Sta	ft		in	ft f	ft	f	t ²	ft	ft						Ac				min.	yr	in/hr	cfs	cfs		ft/s	min.	ft/ft	ft			ft	ft			ft				
1	2	3	4	5	6	7	8	9 1	0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39 40	, 41	42	
Storm Line B																																									
A10	0+69.51	0+24.73	44.78	1	18	V/A N,	/A I	RCP 1.	77	4.712	0.38	0.013	569.85	569.35	0.0112	A10	0.14	0.85	0.12	0.12	10.0	100	9.80	1.17	11.10	Yes	0.66	0.0	0.0001	0.01	570.86	570.85	N/A	0.66	Inlet	1.25	0.10	570.95 574.	.69 3.74		
A9	0+24.73	0+04.73	20	1	18	V/A N	/A 1	RCP 1.	77	4.712	0.38	0.013	569.35	569.25	0.0050	N/A	0	0	0.00	0.12	10.0	100	9.80	1.17	7.43	Yes	0.66	0.5	0.0001	0.00	570.75	570.75	0.66	0.66	45 Bend	0.37	0.24	570.85 576.	00 5.15	HGL = top of pipe	***************************************
A8	0+04.73	0+00.00	4.73	1	18	V/A N	/A 1	RCP 1.	77	4.712	0.38	0.013	569.25	569.22	0.0063	N/A	0	0	0.00	0.12	10.5	100	9.72	1.17	8.37	Yes	0.66	0.1	0.0001	0.00	570.72	570.72	0.66	0.66	45 Bend	0.37	0.24	570.75 575.	.74 4.99	HGL = top of pipe	

INLET SIZING CALCULAITONS

Equation 3.18

where:

Q = total flow reaching inlet (cfs)

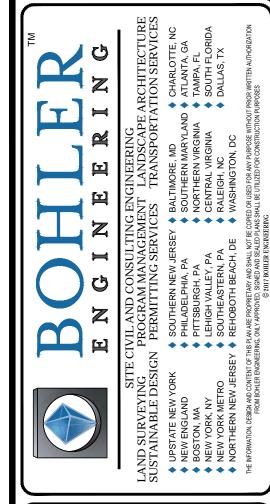
y = depth of flow (ft)

L = length of curb inlet opening (ft)

W = gutter depression width (ft)

standard inlets W = 2.0 ft, recessed inlets W = 3.0 ft

nlet Sizing Ca	Q (flow reching inlet)	y (depth of flow)	W (gutter depression)	L (curb inlet opening)	
					Remakrs
	cfs	ft	ft	ft	
1	2	3	4	5	6
A9	5.67	0.5	2	3.37	5' inlet selected
A12	1.17	0.5	2	-2.16	5' inlet selected



	F	REVISIONS	
REV	DATE	COMMENT	BY
1	3/18/19	DOMESTIC WATER REVISION	MJH
2	4/19/19	TAS REVIEW COMMENTS	MJH



ASBUILT RECORD DRAWING

DATE: SCALE: CAD I.D.:

CONSTRUCTION

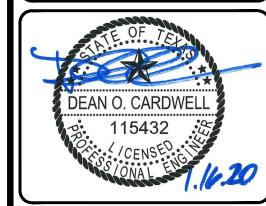
DOCUMENTS

brakes plus (1).

LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY

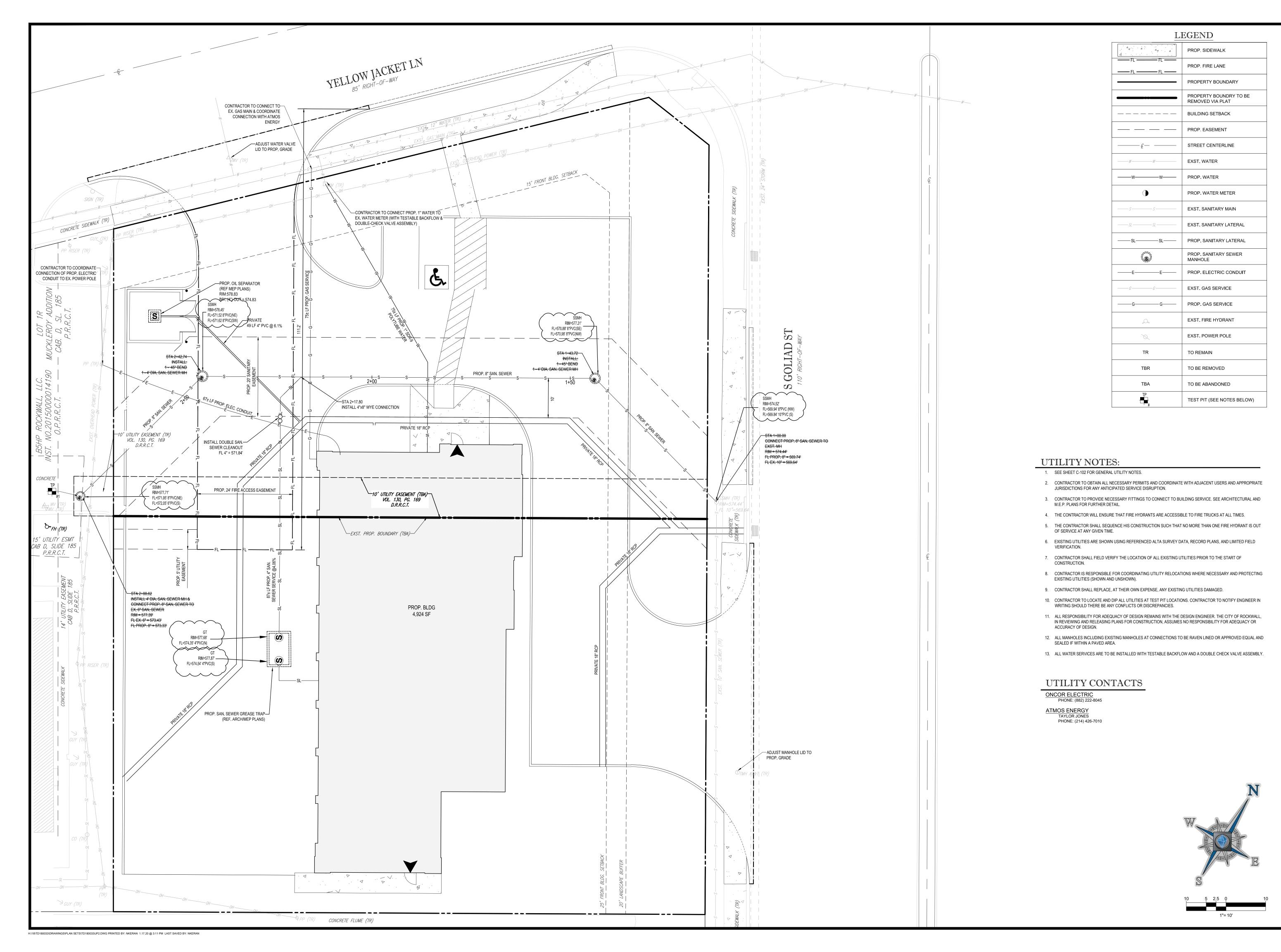


6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



STORM SEWER CALCULATIONS

C-405



SITE CIVIL AND CONSULTING ENGINEERING

LAND SURVEYING

PROGRAM MANAGEMENT

LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN

PERMITTING SERVICES

+ UPSTATE NEW YORK

+ NEW ENGLAND

+ NEW ENGLAND

+ OPSTATE NEW YORK

+ SOUTHERN NEW JERSEY + BALTIMORE, MD

+ CHARLOTTE, NC

+ NEW FORLOR + PHILADELPHIA, PA

+ SOUTHERN MARYLAND

+ ORTHERN MARYLAND

+ SOUTHERN WEGINIA

+ NEW YORK, NY

+ LEHIGH VALLEY, PA

+ CENTRAL VIRGINIA

+ SOUTH FROM SALLINGTON, DC

+ NASHINGTON, DC

+ NASHINGTON, DC

- NORTHERN NEW JERSEY + REHOBERTEN, PA

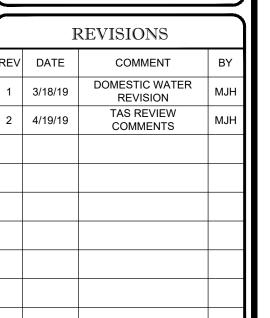
+ REHOBERTEN MOS SELLO DE

+ WASHINGTON, DROW, RETEN ALLES TOR CONSTRUCTION PROFE WRITTEN MITHORIZATION

FROM BOMLER ENGINEERING. ONLY MERONEERING.

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ASBUILT RECORD DRAWING

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CONSTRUCTION DOCUMENTS

1010

brakes plus 🙉

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

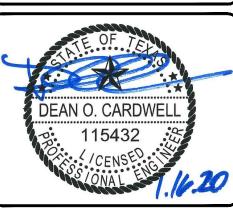
PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



SHEET TITLE

UTILITY PLAN

EET NUMBER:

C=501

SSTA +1-00.00 CONNECT TROP. 9' SAN. SEWER THE PROP. 4'-DIA, SAN. SEWER RESTANDALS SAN. S

8" SAN PVC SDR-35 @ 0.55%

2+00

PROP. GRADE— @ PIPE CENTERLINE

—EXST. SAN. SEWER MANHOLE

1+00

STA 2+29.18 PROP. 4" STM.

STA 2+17.80 PROP. 4"x8" WYE CONI FL PROP. 4" = 571.30' FL PROP. 8" = 571.13' 580

565

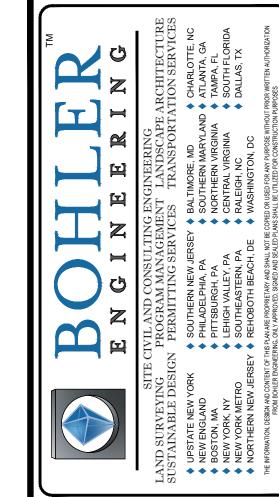
SANITARY SEWER PROFILE

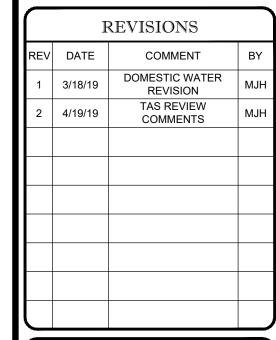
RIM=574.52' FL=569.94' 8"PVC (NW) FL=569.84' 10"PVC (S)

575

570

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ASBUILT RECORD DRAWING

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PROJECT:

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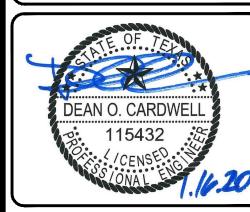
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LOCATION OF SITE

1902 S. GOLIAD ST
LOTS 1 & 2, BLOCK A, BILLY
PEOPLES ADDITION NO. 1
ROCKWALL, TX 75087
ROCKWALL COUNTY



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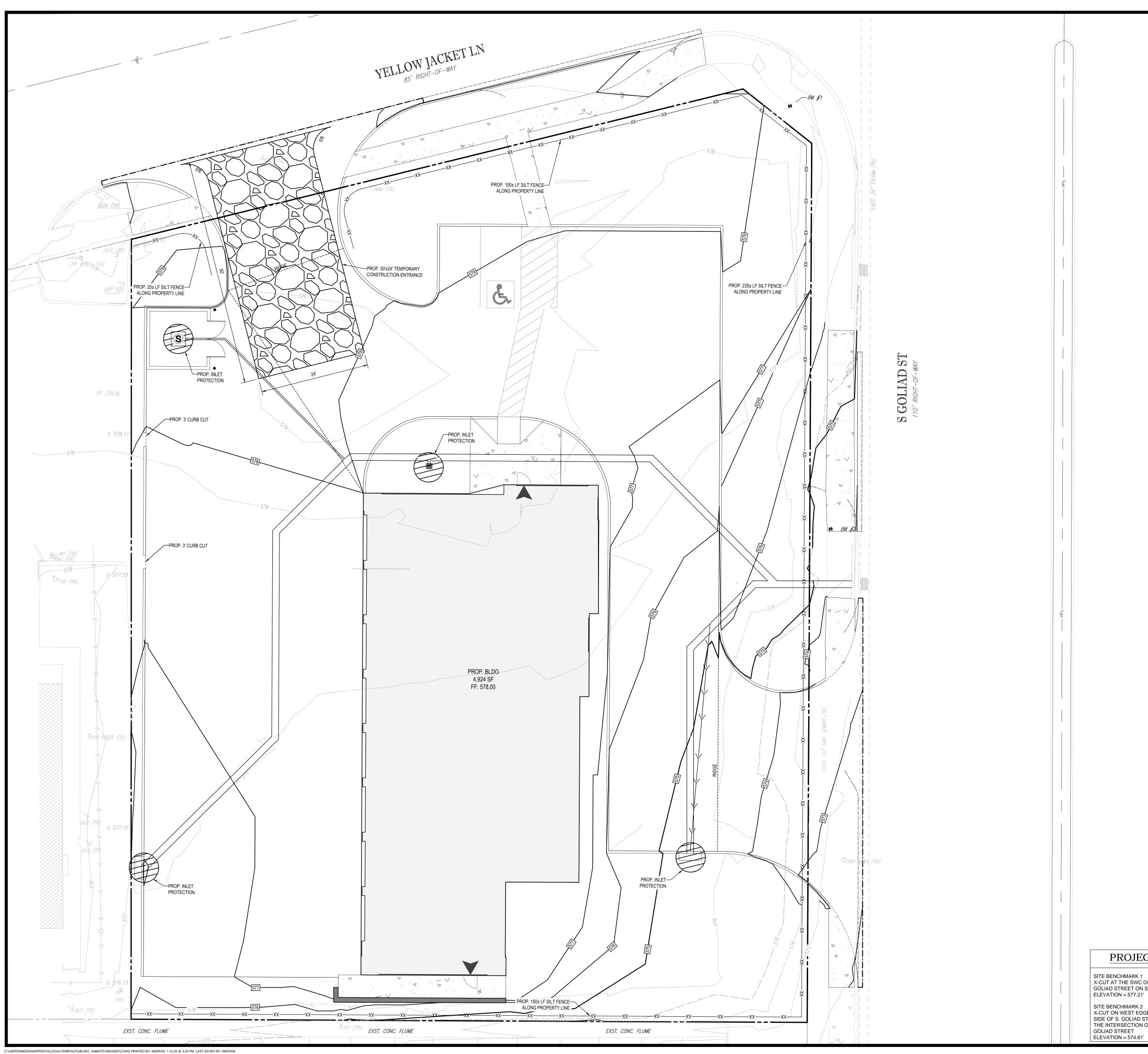


SHEET TITLE:

SANITARY SEWER PROFILE

SHEET NUMBER:

C-502



LEGEND

PROPERTY LINE	
PROPOSED CONTOUR	
EXISTING CONTOUR	701 ·
RIDGE	
PROP. INLET PROTECTION	
PROP. SILT FENCE	xxxxxx
TEMPORARY CONSTRUCTION ENTRANCE	

EROSION CONTROL NOTES:

- 1. EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE CITY.
- 2. WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL.
- 3. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE. 4. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.
- 5. NO EQUIPMENT SHALL BE CLEANED ON-SITE, OR OTHER LIQUIDS DEPOSITED AND ALLOWED TO FLOW OVERLAND OR SUBTERRANEAN WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF TREES THAT REMAIN ON SITE. THIS INCLUDES PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE,
- CONCRETE EQUIPMENT WASH WATER, MORTAR OF SIMILAR MATERIALS. 6. SEE GENERAL NOTES ON SHEET C-102 FOR MORE DETAILS.
- 7. 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.

BMP MAINTENANCE SCHEDULE:

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIST:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED ON OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES 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.

FILTER SOCK:

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

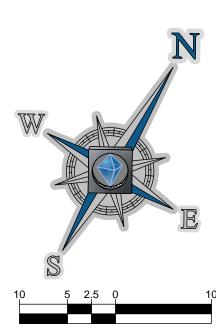
EROSION CONTROL SCHEDULE AND PHASING:

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING

- 1. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE AND FILTER SOCK ACCORDING TO THE APPROXIMATE LOCATION AND SHOWN ON GRADING AND EROSION CONTROL PLAN NOTES AND DETAIL SHEET.
- BEGIN CLEARING AND GRADING OF SITE.

- 1. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. INSTALL STORM DRAINS, SANITARY SEWER, AND WATER AS SPECIFIED ON PLAN SHEETS.
- 1. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS
- NEEDED TO PAVE. 2. STABILIZE SUBGRADE.
- 3. PAVE STREETS AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS. 4. RE-INSTALL ANY STORM WATER POLLUTION PREVENTION MEASURED REMOVED FOR
- PHASE D LANDSCAPING AND SOIL STABILIZATION REVEGETATE LOT AND PARKWAYS.
- 2. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE
- 3. REMOVE EROSION CONTROL DEVICES WHEN MINIMUM 70% GROUND COVER IS ESTABLISHED. VEGETATION MUST BE ESTABLISHED BEFORE STRUCTURAL CONTROLS

EROSION CONTRO	L DATA TABLE
TOTAL SITE AREA	0.653 AC (28,452 SF)
TOTAL DISTURBED AREA	0.653 AC (28,452 SF)



PROJECT BENCHMARKS

SITE BENCHMARK 1 X-CUT AT THE SWC OF EAST YELLOW JACKET LANE & SOUTH GOLIAD STREET ON SIDEWALK RAMP

X-CUT ON WEST EDGE OF SIDEWALK LOCATED ON THE WEST SIDE OF S. GOLIAD STREET APPROXIMATELY 95' SOUTH OF THE INTERSECTION OF YELLOW JACKET LANE & SOUTH GOLIAD STREET

SURVEYOR: BOHLER ENGINEERING 6017 MAIN STREET FRISCO, TX 76107 PHONE: (469) 458 - 7300 CONTACT: BILLY LOGSDON DATE: JULY 2018

SANTA MONICA, CA 90404

PHONE: (214) 662-5167

DYNAMIC DEVELOPMENT 1725 21ST ST

BOHLER ENGINEERING 6017 MAIN STREET FRISCO, TX 75034 PHONE:(469) 458-7300 CONTACT: DANIEL J. PORTER CONTACT: MATHIAS HAUBERT

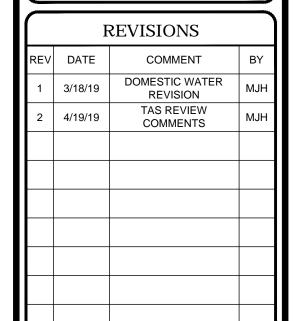
APPLICANT: BRAKES PLUS, LLC

1800 SOUTHPARK DR

BIRMINGHAM, AL 35244

PHONE: (205) 397-1164

CONTACT: JOHN DAVIS





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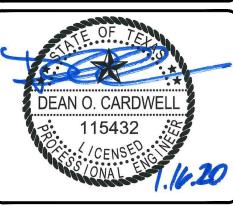
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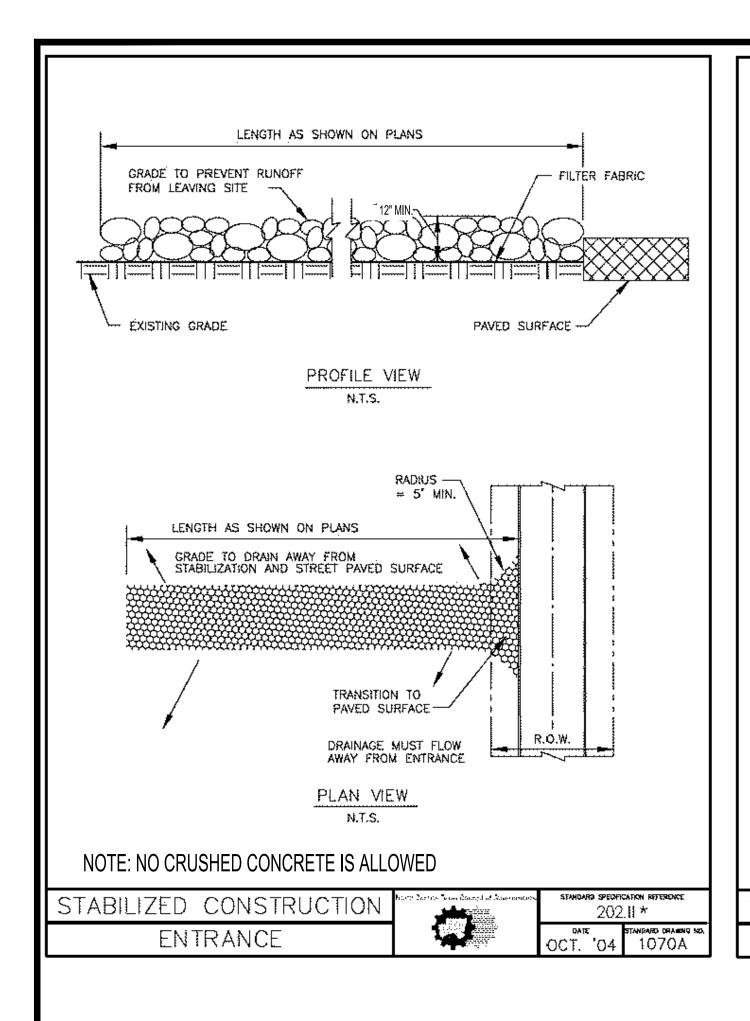
LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY



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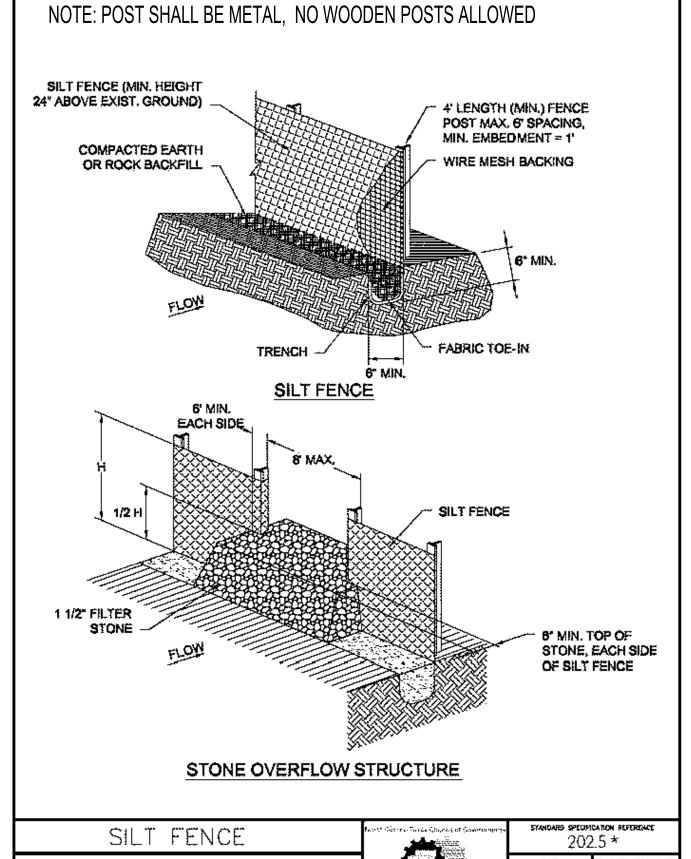
EROSION & SEDIMENT CONTROL PLAN

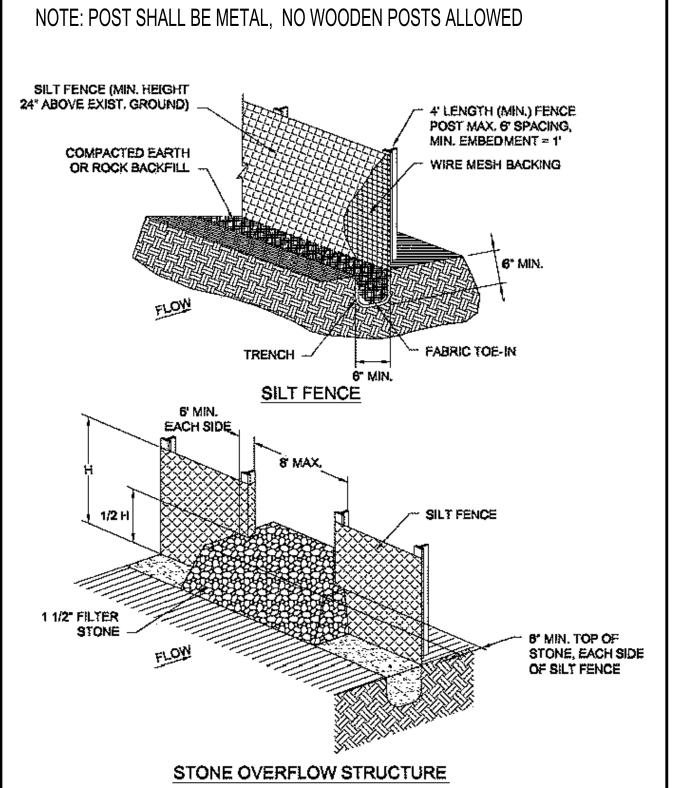


STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- 1. STONE SHALL BE 4 TO 6 INCH DIAMETER COARSE AGGREGATE. NO CRUSHED CONCRETE IS ALLOWED
- 2. MINIMUM LENGTH SHALL BE FIFTY (50) FEET, AND MINIMUM WIDTH SHALL BE TWENTY (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 CONCRETE IS ALLOWED.

STABILIZED CONSTRUCTION	Karaya Tura iyo Tagaa Bayaraa ee Gaasaa garagaasa Marayaa	STANDARD SPECIFICATION REFERENCE 202.11 *
ENTRANCE		OCT. '04 1070B

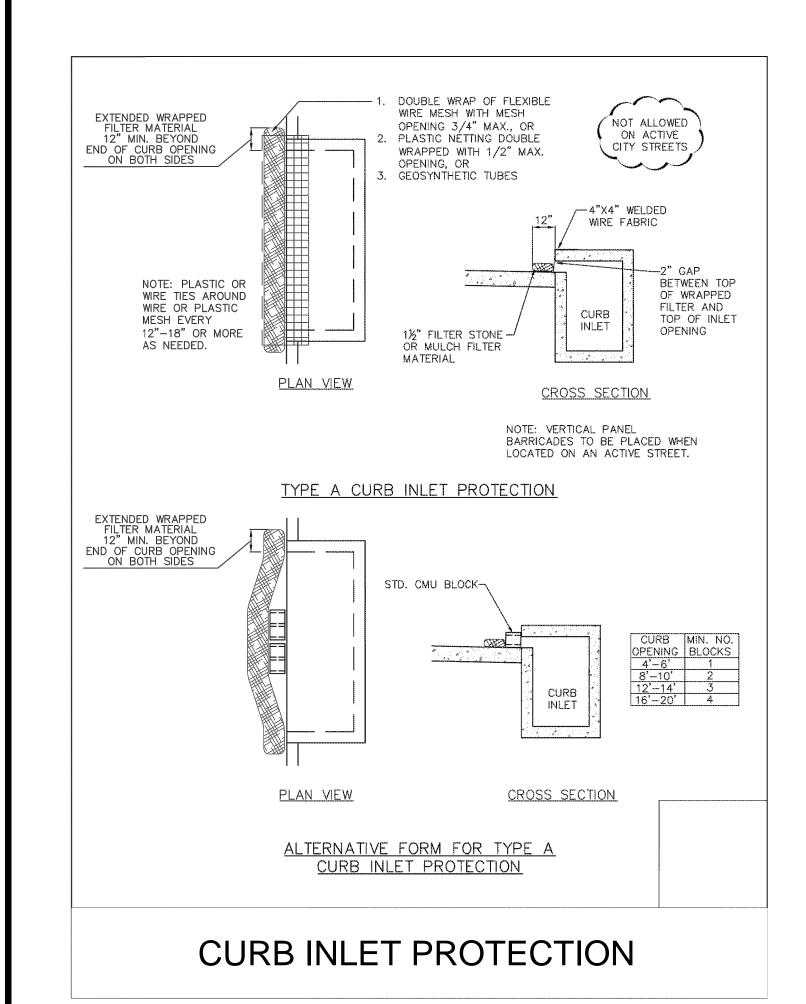


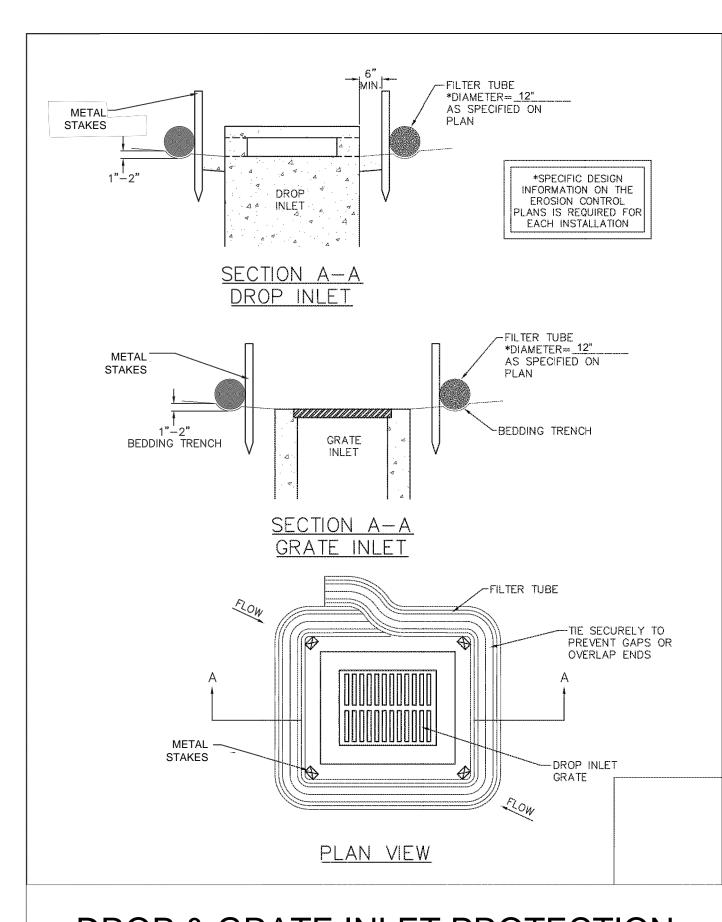


SILT FENCE GENERAL NOTES:

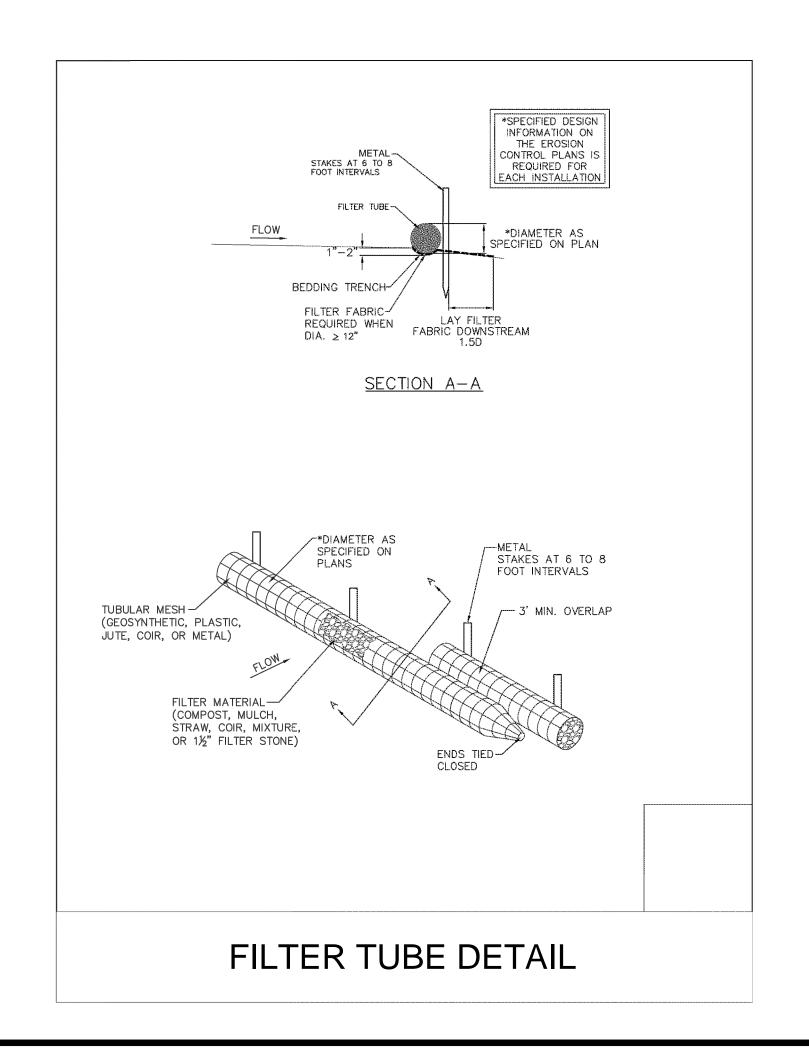
- 1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT). WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- 3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- 5. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- 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.
- 8. FILTER STONE SHALL BE WRAPPED IN FILTER FABRIC AND BURIED MINIMUM OF SIX (6) INCHES

SILT FENCE	North Ceange Cours Coursed of Americanius <u> </u>		CATION REFERENCE
		OCT. '04	STANDARD DRAMMO ME 1020B



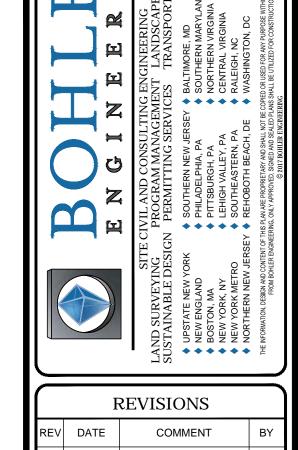


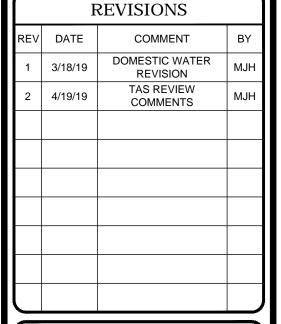




OCT. 104

1020A







ASBUILT **RECORD DRAWING**

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CONSTRUCTION **DOCUMENTS**

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LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY

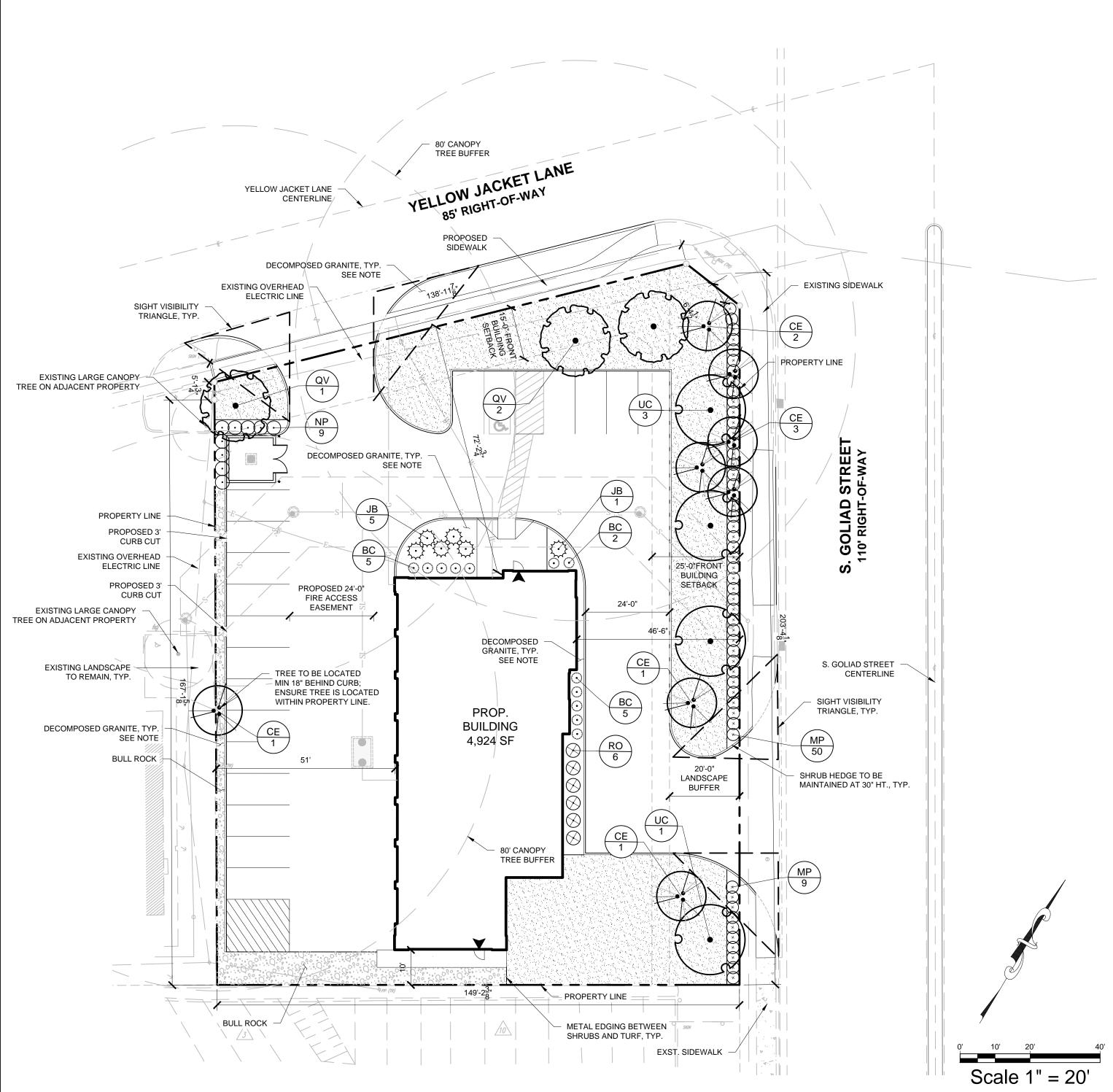


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EROSION & SEDIMENT CONTROL **DETAILS**

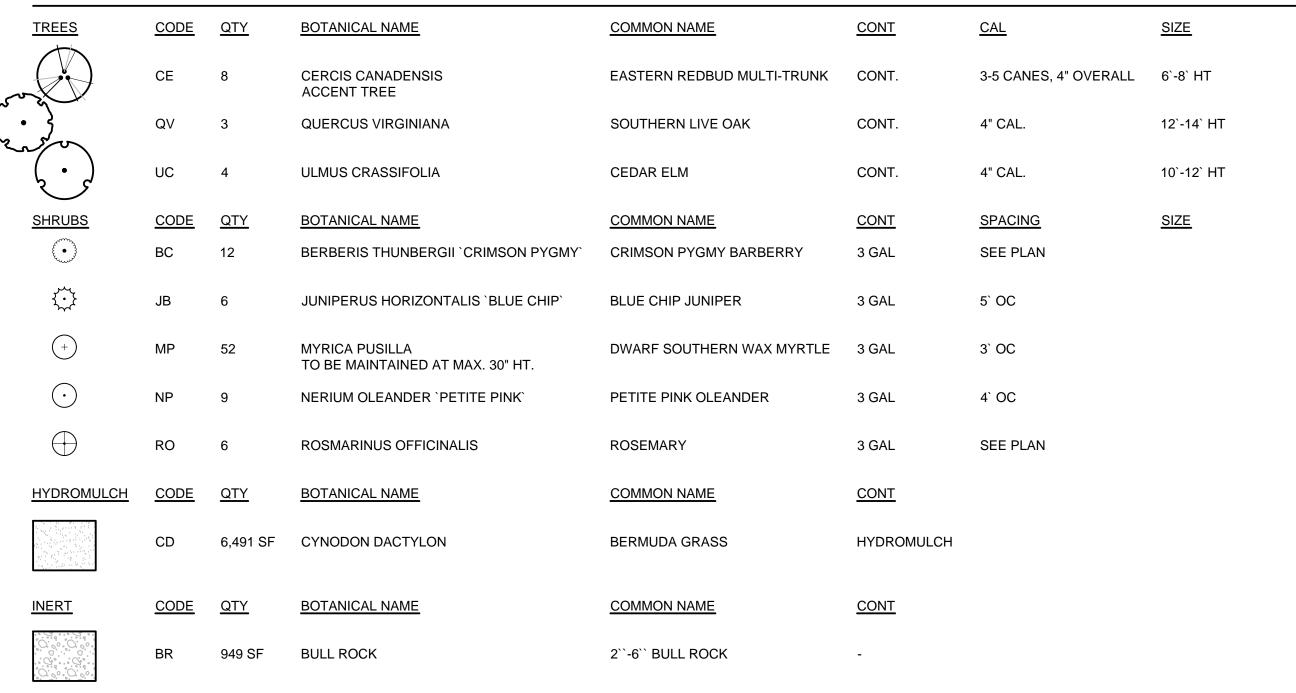
C-602



GENERAL PLANTING NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN). BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
- CONSTRUCT AND MAINTAIN FINISH GRADES IN LANDSCAPE AREAS AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- 3. ENSURE THAT THE GRADE IN SHRUB AREAS SHALL BE 2" BELOW FINISH GRADE AFTER INSTALLING SOIL AMENDMENTS, AND 1" BELOW FINISH GRADE IN TURF AREAS AFTER INSTALLING SOIL AMENDMENTS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL
- INSTALL 5 OUNCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC (DeWITT "PRO-5" OR EQUAL) UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS.
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING BEDS AND TREE RINGS. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE.
- INSTALL 14G, GREEN STEEL EDGING BETWEEN ALL PLANTING BEDS AND TURF AREAS, AND BETWEEN GROUNDCOVERS AND OTHER PLANTS (WHERE INDICATED ON THE PLAN). HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE
- 10. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
- 11. PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOBSITE BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
- 13. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND
- OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER. 14. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
- A. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
- ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED. 15. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

PLANT SCHEDULE



7 (154 LF / 100 * 4 = 7)

N/A (LESS THAN 20,000 SF / 2 ROWS)

7 (4" CAL.)

LANDSCAPE CALCULATIONS	
CURRENT ZONING:	GR (GENERAL RETAIL)
TOTAL SITE AREA: LANDSCAPE AREA REQUIRED: LANDSCAPE AREA PROVIDED: TOTAL IMPERVIOUS AREA (EXCLUDING BUILDING): BUILDING AREA:	28,452 SF 4,268 SF (15% OF SITE AREA) 8,808 SF (31% OF SITE AREA) 14,720 SF 4,924 SF
LANDSCAPE BUFFER STRIP LANDSCAPE BUFFER STRIP REQUIRED @ GOLIAD ST.: LANDSCAPE BUFFER STRIP PROVIDED @ GOLIAD ST.:	20' 20'
STREET LANDSCAPING YELLOW JACKET LN. TREES REQUIRED (1 PER 50 LF): YELLOW JACKET LN. TREES PROVIDED:	3 (109 LF / 50 = 3) 3 (4" CAL.)
SH205 OVERLAY REQUIREMENTS: GOLIAD ST. CANOPY TREES REQUIRED (2 PER 100 LF): GOLIAD ST. CANOPY TREES PROVIDED:	4 (154 LF / 100 * 2 = 4) 4 (4" CAL.)

SHRUBBERY ROW ALONG GOLIAD ST.	PROVIDED (30" HT.)
RIGHT-OF-WAY LANDSCAPING	
R/W LANDSCAPE REQUIRED (GRASS OR GROUNDCOVER)	PROVIDED

PARKING LOT LANDSCAPING 16 SPACES TOTAL PARKING SPACES REQUIRED TOTAL PARKING SPACES PROVIDED: 20 SPACES

NO PARKING SPACE FURTHER THAN 80' FROM CANOPY TREE PROVIDED * **IRRIGATION** PROPOSED IRRIGATION DESIGN WILL MEET THE REQUIREMENTS OF THE UDC.

* UNDERSTORY TREES PROVIDED ADJACENT TO EXISTING OVERHEAD UTILITIES.

ROOT BARRIERS

PARKING LOT LANDSCAPING REQUIRED:

GOLIAD ST. ACCENT TREES REQUIRED (4 PER 100 LF):

GOLIAD ST. ACCENT TREES PROVIDED:

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

DECOMPOSED GRANITE MULCH

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF DECOMPOSED GRANITE MULCH (3/4" SCREENED, TAN COLOR TO MATCH BUILDING TONES) OVER LANDSCAPE FABRIC IN ALL PLANTING AND LANDSCAPE AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.

TREE PLANTING NEAR UTILITIES

NO TREE SHALL BE PLANTED WITHIN 5' OF PUBLIC UTILITIES.

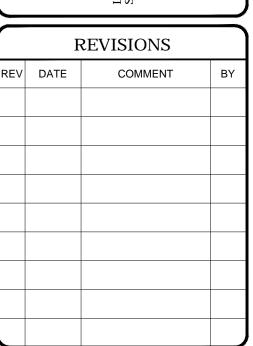
SITE DATA TABLE 0.653 AC (28,452 SF) TOTAL SITE AREA TOTAL BUILDING SIZE 4,924 SF SITE ZONING DISTRICT GR - GENERAL RETAIL SH-205 OVERLAY SITE OVERLAY DISTRICT DISTRICT COMMERCIAL (AUTO PROPOSED LAND USE FRONT BUILDING SETBACK (S FRONT BUILDING SETBACK (YELLOW JACKET) SIDE BUILDING SETBACK FIRE RETARDANT) TYPICAL PARKING SPACE 9' x 18' CODE REQUIRED PARKING BAY = 16 SPACES SPACES CODE REQUIRED ADA SPACES 1 SPACE PROVIDED PARKING SPACES 20 SPACES PROVIDED ADA SPACES 1 SPACE EXISTING IMPERVIOUS AREA 26,234 SF (92.20%) PROPOSED IMPERVIOUS AREA 19,933 SF (70.06%)

REPAIR GARAGE, MINOR) 0 FT (PROVIDED BLDG IS 2 SPACES PER SERVICE NET IMPERVIOUS AREA - 6,301 SF (- 22.14%)

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE DESIGNER DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES, AS SUCH THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED IMPROVEMENTS AND UTILITY CONNECTION POINTS PRIOR TO THE START OF CONSTRUCTION TO ASCERTAIN EXACT MATERIALS, LOCATIONS, ELEVATIONS, ETC. AND THEIR POTENTIAL CONFLICT WITH PROPOSED IMPROVEMENTS. GC SHALL CONSULT WITH CONSTRUCTION MANAGER AND ENGINEER AS APPROPRIATE BEFORE PROCEEDING WITH WORK.









NOT APPROVED FOR CONSTRUCTION

It's fast. It's free. It's the law

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CAD I.D.

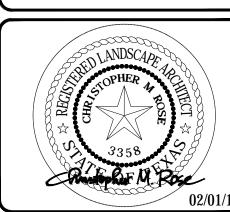
PROP. SITE PLAN **DOCUMENTS**

BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



SHEET TITLE:

LANDSCAPE PLANTING

SHEET NUMBER:

L-1.0

CASE NUMBER:

PLANTING SPECIFICATIONS

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM
- SPECIALIZING IN LANDSCAPE PLANTING. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE
- REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.
- B. SCOPE OF WORK WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN
- ON THE LANDSCAPE PLANS, NOTES, AND DETAILS, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY,
- TRANSPORTATION AND INSTALLATION OF MATERIALS. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF

PRODUCTS

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS: FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR
- ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS
- ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE
- ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS
- CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
- MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL.
- ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED. C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM
- HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE
- COMPOSITION OF THE SEED. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS. F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8;
- MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE
- FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW
- H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS. WEED FABRIC: 5 OUNCE, WOVEN, NEEDLE-PUNCHED FABRIC, SUCH AS DEWITT PRO5 LANDSCAPE FABRIC
- J. TREE STAKING AND GUYING STAKES: 6' LONG GREEN METAL T-POSTS.
- GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH
- STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- M. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL. N. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

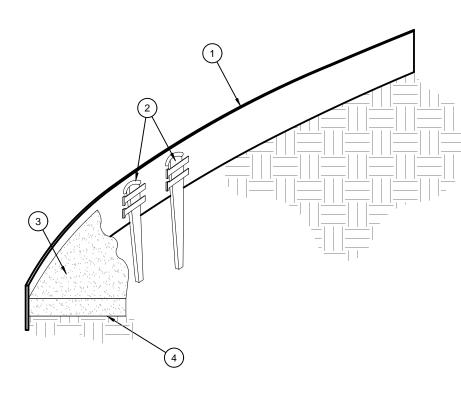
METHODS

A. SOIL PREPARATION

SOIL TESTING:

- BEFORE STARTING WORK. THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST
- a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, ph. ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT. EACH SAMPLE SUBMITTED SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL.
- CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
- THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES, PRE-PLANT FERTILIZER APPLICATIONS, AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR
- LONG-TERM MAINTENANCE THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER
- INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
- TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
- NITROGEN STABILIZED ORGANIC AMENDMENT 4 CU. YDS. PER 1,000 S.F.
- AMMONIUM PHOSPHATE 16-20-0 15 LBS PER 1,000 S.F. AGRICULTURAL GYPSUM - 100 LBS PER 1,000 S.F.
- TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
- NITROGEN STABILIZED ORGANIC AMENDMENT 4 CU. YDS. PER 1,000 S.F. 12-12-12 FERTILIZER - 10 LBS. PER CU. YD.
- AGRICULTURAL GYPSUM 10 LBS, PER CU, YD, IRON SULPHATE - 2 LBS, PER CU, YD.
- CONTRACTOR SHALL ENSURE THAT THE GRADE IN SOD AREAS SHALL BE 1" BELOW FINISH GRADE BEFORE INSTALLING SOIL AMENDMENTS. AND 2" BELOW FINISH GRADE IN SHRUB AREAS BEFORE INSTALLING SOIL AMENDMENTS, MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12 OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL
- ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

- REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 - EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 - TRENCHING NEAR EXISTING TREES: a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE
 - b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST.
 - CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS. d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- C. TREE PLANTING TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
- SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS
- OUT FROM THE ROOTBALL. 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
- BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
- THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES: TWO STAKES PER TREE
- b. 2-1/2"-4" TREES THREE STAKES PER TREE TREES OVER 4" CALIPER GUY AS NEEDED
- MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE.
- COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS). SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING 1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL
- THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS. 2. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP
- THE WEED BARRIER CLOTH IN PLACE. 3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- HYDROMULCHING 1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. WINTER MIX (OCTOBER 1 MARCH 31) 50# CELLULOSE FIBER MULCH
 - 2# UNHULLED BERMUDA SEED
 - 2# ANNUAL RYE SEED 15# 15-15-15 WATER SOLUBLE FERTILIZER b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
- 50# CELLULOSE FIBER MULCH 2# HULLED BERMUDA SEED
- 15# 15-15-15 WATER SOLUBLE FERTILIZER
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- INSPECTION AND ACCEPTANCE UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
- WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS. 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS
- BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- H. LANDSCAPE MAINTENANCE THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER LIANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THA HAVE SETTLED. MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
- SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.
- TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
- ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE
- NEATLY MOWED. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE
- IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY 2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
- PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



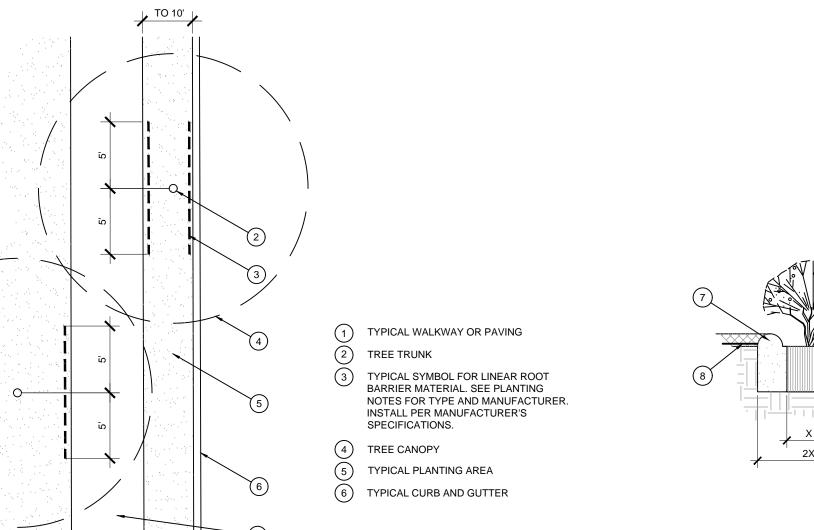
- (1) ROLLED-TOP STEEL EDGING PER PLANS.
- (2) TAPERED STEEL STAKES. (3) MULCH, TYPE AND DEPTH PER PLANS.
- 4) FINISH GRADE.
- 1) INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED. BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE

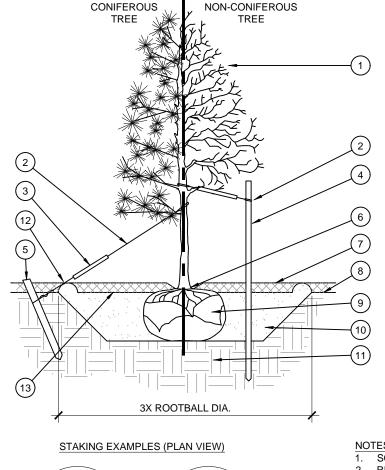
3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

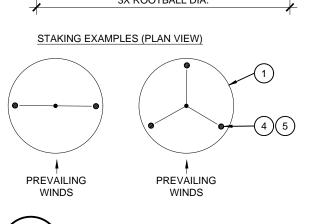


ROOT BARRIER - PLAN VIEW

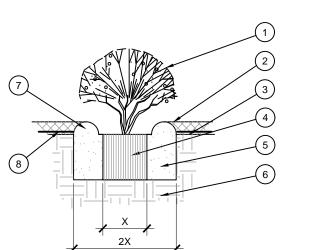
OPEN LANDSCAPE







- (1) TREE CANOPY.
- 2) CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES
- (4) GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
- (5) PRESSURE-TREATED WOOD DEADMAN, TWO PER 18" MIN. INTO UNDISTURBED SOIL.
- (6) TRUNK FLARE.
- (7) MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
- (8) FINISH GRADE
- 9) ROOT BALL. 10) BACKFILL. AMEND AND FERTILIZE ONLY AS
- (11) UNDISTURBED NATIVE SOIL.
- (12) 4" HIGH EARTHEN WATERING BASIN.
- ROOT FLARE IS 2"-4" ABOVE FINISH GRADE. 3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE, REMOVE ALL NYLON TIES,
- 4. REMOVE ALL NURSERY STAKES AFTER PLANTING. 5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR
- DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE. 6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM



(1) SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.) MULCH, TYPE AND DEPTH PER PLANS. PLACE NO

MORE THAN 1" OF MULCH WITHIN 6" OF PLANT

- (3) FINISH GRADE.
- (4) ROOT BALL.
- 5) BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
- (6) UNDISTURBED NATIVE SOIL.
- (7) 3" HIGH EARTHEN WATERING BASIN
- (8) WEED FABRIC UNDER MULCH.

SHRUB AND PERENNIAL PLANTING





AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.

(3) 24" X 3/4" P.V.C. MARKERS OVER WIRES.

TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND

RECOMMENDED IN SOIL FERTILITY ANALYSIS.

(13) FINISH GRADE.

SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE. 2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.

BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT

NOT APPROVED FOR CONSTRUCTION DRAWN BY:

KNOW WHAT'S BELOW

ALWAYS CALL 811

BEFORE YOU DIG

It's fast. It's free. It's the law.

REVISIONS

COMMENT

EV DATE

SCALE:

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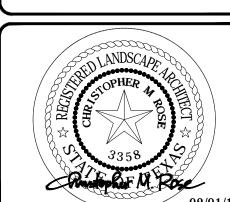
PROP. SITE PLAN

BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



SHEET TITLE:

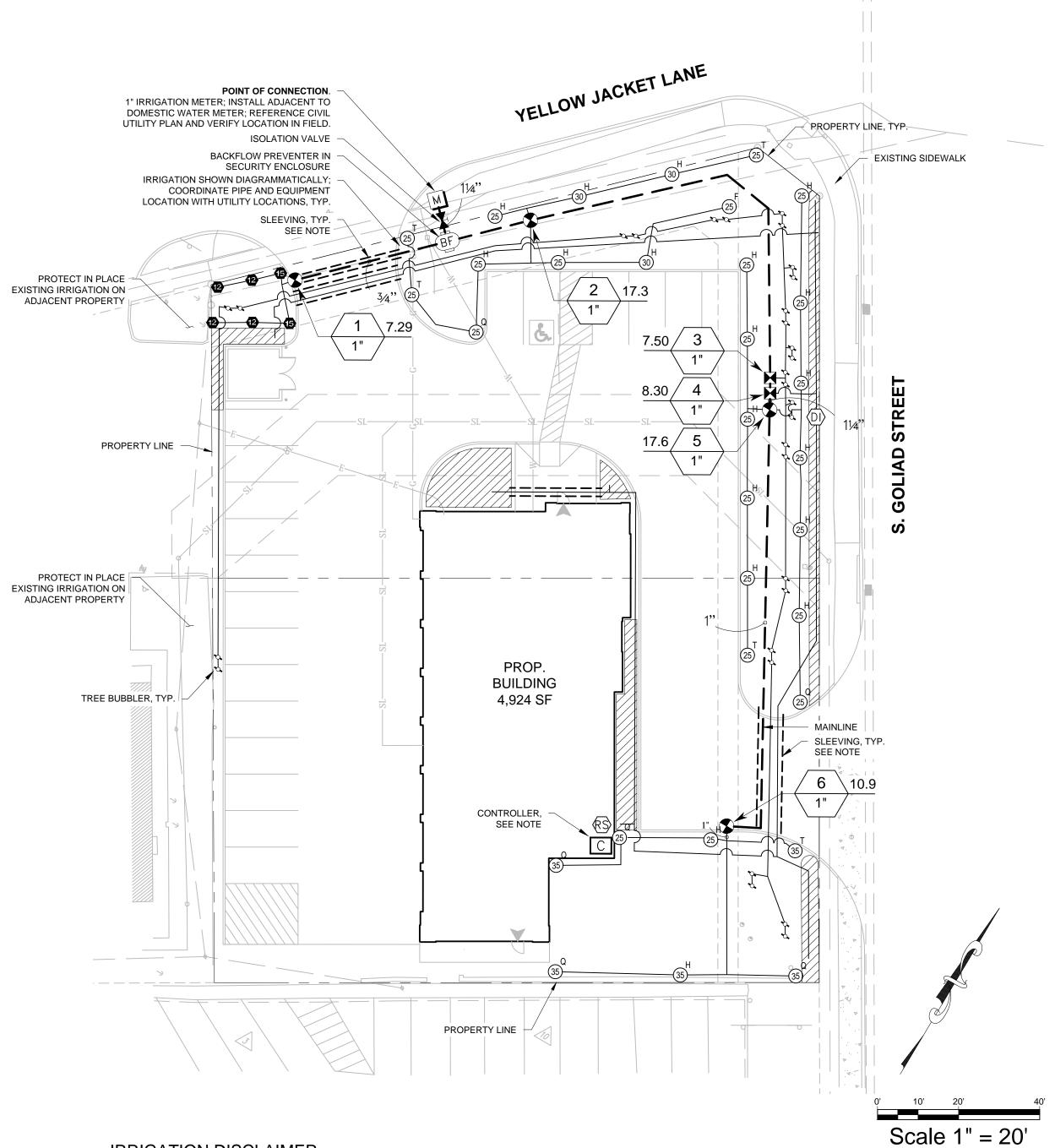
LANDSCAPE AND DETAILS

SHEET NUMBER:

L-I.I

CASE NUMBER:

OROPBOX (RODNEY) EDG - SHARED 2018 BRAKES PLUS - ROCKWALL TX BRAKES PLUS ROCKWALL PLTG. DWG PRINTED BY: CMROS 2.01.19 @ 9:50 AM LAST SAVED BY: CMROS



IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE

CONTROLLER NOTE

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PS
8 08HE-VAN 12 12HE-VAN 10 10HE-VAN 15 15HE-VAN	RAIN BIRD 1806-U ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET.	30
-0- IOI -0- XX 1401 1402 1404 1408	RAIN BIRD 1806-1400 FLOOD FLOOD BUBBLER 6.0" POPUP	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>PSI</u>
ARC (25)	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
ARC 30	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
ARC (35)	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
SYMBOL_	MANUFACTURER/MODEL/DESCRIPTION	

RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.

RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.

RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE,

> RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.

THUS PREVENTING WATER HAMMER OR BLOCKAGE.

AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-09-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.9 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV

<u>SYMBOL</u> MANUFACTURER/MODEL/DESCRIPTION

> RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.

RESISTANT. SPECIFY XF INSERT FITTINGS.

NIBCO BALL VALVE BRASS, TWO-PIECE, FULL PORT, NPT X NPT, T-FP-600A

> FEBCO 765 1" PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" (305MM) ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE DOWNSTREAM PIPING. WITH GUARDSHACK (OR EQUAL) ENCLOSURE, POWDER-COATED BLACK.

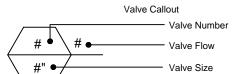
RAIN BIRD ESP-12LX BASIC 12 STATION COMMERCIAL CONTROLLER WITH LXMM METAL WALL-MOUNT CASE.

RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.

> IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.

--- --- IRRIGATION MAINLINE: PVC SCHEDULE 40

TITE PIPE SLEEVE: PVC SCHEDULE 40



VALVE SCHEDULE

	NUMBER	MODEL	SIZE	TYPE	GPM	PSI @ POC	PRECIP
-	1	RAIN BIRD PEB	1"	TURF SPRAY	7.29	37.78	1.18 in/h
;	2	RAIN BIRD PEB	1"	TURF ROTOR	17.29	34.96	0.72 in/h
;	3	RAIN BIRD XCZ-100-PRB-COM	1"	BUBBLER	7.50	40.57	1.06 in/h
	4	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	8.30	43.16	0.64 in/h
	5	RAIN BIRD PEB	1"	TURF ROTOR	17.58	37.12	0.74 in/h
(6	RAIN BIRD PEB	1"	TURF ROTOR	10.90	37.01	0.62 in/h

CRITICAL ANALYSIS

2019-01-31 14:04

37.50 gpm

61.00 psi

P.O.C. NUMBER: 01 Water Source Information:

FLOW AVAILABLE Water Meter Size: Flow Available:

Pressure Available:

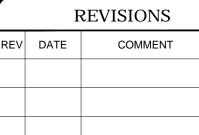
Pressure Available:

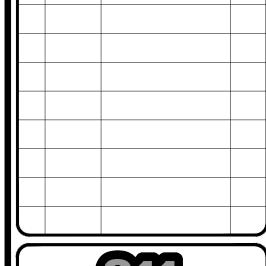
Residual Pressure Available:

PRESSURE AVAILABLE Static Pressure at POC: 65.00 psi Elevation Change: 5.00 ft 1 1/2" Service Line Size: Length of Service Line:

DESIGN ANALYSIS Maximum Station Flow: 17.58 gpm 37.50 gpm 19.92 gpm Flow Available at POC Residual Flow Available:

Critical Station: Design Pressure: 30.00 psi 2.06 psi Friction Loss: Fittings Loss: 0.21 psi Elevation Loss: 0.00 psi Loss through Valve: 6.18 psi Pressure Req. at Critical Station: 38.44 psi Loss for Fittings: 0.07 psi Loss for Main Line: 0.66 psi Loss for POC to Valve Elevation: 0.00 psi Loss for Backflow: 3.46 psi Loss for Water Meter: 0.53 psi Critical Station Pressure at POC: 43.16 psi 61.<u>00 psi</u>







NOT APPROVED FOR CONSTRUCTION

BEFORE YOU DIG

It's fast. It's free. It's the law.

DRAWN BY: CHECKED BY: SCALE:

PROP. SITE PLAN **DOCUMENTS**

BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY



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SHEET TITLE:

LANDSCAPE **IRRIGATION**

SHEET NUMBER:

EVERGREEN

(800) 680-6630

15305 Dallas Pkwy., Ste 300

Addison, TX 75001

www.EvergreenDesignGroup.com

CASE NUMBER:



IRRIGATION SPECIFICATIONS

GENERAL

- A. QUALIFICATIONS OF IRRIGATION CONTRACTOR
- ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE IRRIGATION CONTRACTING FIRM SPECIALIZING IN IRRIGATION SYSTEMS. SEE THE IRRIGATION PLAN FOR SPECIFIC EQUIPMENT AND SYSTEM LAYOUT. THE IRRIGATION CONTRACTOR MUST HAVE ON ITS STAFF A TEXAS LICENSED IRRIGATOR, AS
- REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. A LICENSED IRRIGATOR OR LICENSED IRRIGATION INSTALLER SHALL BE PRESENT AT THE PROJECT SITE AT ALL TIMES AS WORK IS IN PROGRESS. THE OWNER MAY DEMAND THAT WORK STOP UNTIL THE CONTRACTOR PROVIDES FOR A LICENSED IRRIGATOR OR LICENSED IRRIGATION INSTALLER TO BE PRESENT AT THE PROJECT SITE AND SUPERVISING ALL IRRIGATION WORK. 3. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- B. SCOPE OF WORK WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, FEES, AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE IRRIGATION PLANS, NOTES, AND DETAILS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL
- CONFLICT BETWEEN THESE PLANS AND LOCAL AND/OR STATE CODES, CODES SHALL THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS. THE IRRIGATION PLAN IS GENERALLY DIAGRAMMATIC; COORDINATE IRRIGATION

AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. IN CASE OF

BACKFLOW DEVICE, PIPING, VALVES, SPRAY HEADS, DRIP IRRIGATION, AND RELATED EQUIPMENT MAY NEED TO BE ADJUSTED BASED ON ACTUAL SITE CONDITIONS. FOR CLARITY PURPOSES. SOME IRRIGATION LINES AND EQUIPMENT ARE SHOWN IN HARDSCAPE AREAS WITHOUT ACCESS SLEEVES: THESE LINES SHALL BE INSTALLED IN A COMMON TRENCH OR AT THE BACK OF CURB IN LANDSCAPE AREAS. MINOR FIELD

ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

INSTALLATION WITH UTILITY INSTALLATIONS. ACTUAL LOCATION OF CONTROLLER,

PRODUCTS

- A. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF ANY TYPE AND SHALL BE THE BEST OF THEIR CLASS AND KIND. ALL MATERIALS SHALL HAVE A MINIMUM GUARANTEE OF ONE YEAR AGAINST MATERIAL DEFECTS OR DEFECTIVE WORKMANSHIP, ALL MATERIALS SHALL BE OF THE BRANDS AND TYPES NOTED ON THE DRAWINGS OR AS SPECIFIED HEREIN, OR APPROVED. FOUAL. THE CONTRACTOR MUST FIRST OBTAIN APPROVAL FROM THE IRRIGATION DESIGNER FOR AN 'APPROVED EQUAL' BEFORE INSTALLING SUCH MATERIALS IN THE FIELD, OR THE CONTRACTOR MAY BE REQUIRED TO REPLACE SUCH MATERIALS AT HIS OWN COST
- B. BACKFLOW PREVENTION DEVICES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS. INSTALL BACKFLOW PREVENTION UNITS IN ACCORDANCE WITH IRRIGATION CONSTRUCTION DETAILS AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
- PRESSURE SUPPLY LINES, DOWNSTREAM OF THE POINT-OF-CONNECTION: SCHEDULE 40 PVC FOR ALL PIPE 1-1/2" OR LESS
- CLASS 315 PVC FOR ALL PIPE 2" TO 2-1/2" CLASS 200 PVC, GASKETED, FOR ALL PIPE 3" AND LARGER
- SLEEVING AND NON-PRESSURE LATERAL LINES (DOWNSTREAM FROM VALVES): SCHEDULE
- 3. FITTINGS: SCH. 40 PVC, EXCEPT AS NOTED OTHERWISE. D. VALVES AND DRIP VALVE ASSEMBLIES: TYPE AND SIZE AS NOTED ON PLANS. EACH VALVE SHALL BEAR A PRE-MANUFACTURED, NUMBERED WATERPROOF TAG BEARING A NUMBER
- CORRESPONDING TO ITS VALVE SEQUENCE OF OPERATION ON THE CONTROLLER. THE OPERATION SEQUENCE SHALL MATCH THAT AS SHOWN ON THE PLANS. QUICK COUPLERS, BALL VALVES, AND GATE VALVES: TYPE AND SIZE PER PLANS.
- VALVE BOXES: TYPE AND SIZE AS NOTED ON DETAILS. ALL VALVES BOXES SHALL BE LOCKING BOLT-DOWN TYPE, FURNISHED WITH LIDS AND BOLTS. BOXES SHALL BE OF A SIZE TO CONTAIN THE ENTIRE VALVE AND/OR VALVE ASSEMBLY. THE VALVE BOX LID SHALL HAVE THE VALVE STATION NUMBER HEAT-BRANDED INTO THE LID WITH 2" HIGH LETTERS.
- G. FIXED SPRAY HEADS AND ROTORS: PLASTIC BODY POP-UP, WITH A REMOVABLE PLASTIC SPRAY NOZZLE. EXACT TYPE, MODEL, AND NOZZLE SHALL BE AS INDICATED ON PLANS.
- H. INTEGRAL EMITTER DRIP TUBING: TUBING MODEL AND FLOW RATE AS NOTED ON PLANS. WITH INTEGRAL EMITTERS WELDED TO THE INSIDE WALL OF THE TUBING AS AN INTEGRAL PART OF THE TUBING ASSEMBLY.
- I. AUTOMATIC CONTROLLER: TYPE AND MODEL PER PLANS. PROVIDE VANDAL-PROOF ENCLOSURE FOR ALL EXTERIOR INSTALLATIONS. PROVIDE LINE-VOLTAGE DISCONNECT SWITCH WITH GROUND J. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL.
- SINGLE CONDUCTOR IRRIGATION WIRE. EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR STATION AND COMMON WIRE. STATION WIRE - RED COMMON WIRE - WHITE
- EXTRA COMMON WIRES BLUE K. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. ALL FIELD SPLICES SHALL BE LOCATED IN A 6 INCH ROUND VALVE BOX.
- L. RAIN SENSOR: TYPE AND MODEL PER PLANS.

METHODS

- A. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQURED TO MOVE SUCH ITEMS AT HIS OWN COST. ENSURE FIELD COORDINATION IS MADE EARLY ON IN THE CONSTRUCTION PHASE SO PLACEMENT LOCATION IS CORRECT.
- B. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- C. THE IRRIGATION CONTRACTOR SHALL NOT WILFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND NECESSARY COSTS
- D. SEE UTILITY PLANS FOR IRRIGATION POINTS OF CONNECTION (TAP) AND DOMESTIC WATER
- E. THE IRRIGATION CONTRACTOR SHALL PAY ANY AND ALL FEES AND PERMITS ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.
- F. AT LEAST SEVEN DAYS BEFORE BEGINNING WORK, CONFIRM THE STATIC WATER PRESSURE IS AT LEAST 55 PSI AND LESS THAN 75 PSI. IF STATIC WATER PRESSURE IS OUTSIDE OF THE STATED RANGE, DO NOT PROCEED WITHOUT FIRST NOTIFYING THE IRRIGATION DESIGNER AND OWNER IN WRITING, AND OBTAINING SUBSEQUENT DIRECTION FOR CORRECTIONAL MEASURES. SHOULD THE IRRIGATION CONTRACTOR CHOOSE TO BEGIN THE INSTALLATION WITHOUT SUCH NOTIFICATION, THE IRRIGATION CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR ALL COSTS INCURRED TO ENSURE THE SYSTEM IS WORKING PROPERLY. NO CHANGE ORDERS WILL BE AUTHORIZED IN SUCH CIRCUMSTANCES.
- G. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES.
- H. COORDINATE WITH THE OWNER THE PROPOSED LOCATIONS OF THE AUTOMATIC CONTROLLER
- AND ANY REQUIRED SLEEVES THROUGH THE BUILDING FOR CONTROL WIRES. TRENCHING NEAR EXISTING TREES
- CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE
- AVERAGE GRADE AT THE TRUNK). ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
- ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL LINDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST, CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS. 4. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO
- AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

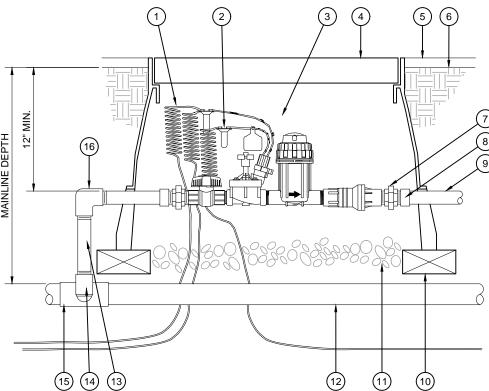
- ALL BACKFILL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER. BACKFILL MATERIAL SHALL BE FREE FROM RUBBISH, ROCK LARGER THAN 1", LARGE STONES, BRUSH, SOD. FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILLING OPERATIONS. SEPARATE OUT ROCKS LARGER THAN 1 INCH IN ANY DIRECTION FROM EXCAVATED MATERIAL. AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING. COVER FOR BOTH TOP AND SIDES OF PIPE SHALL BE A MINIMUM OF 2 INCHES OF ROCK-FREE SOIL, SAND, OR OTHER APPROVED MATERIAL.
- 2. IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCHING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, IT SHALL BE REMOVED FROM THE SITE AND PROPERLY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN PURCHASE AND AND FURNISH SUITABLE BACKFILL MATERIAL CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE
- BACKFLOW PREVENTER INSTALLATION: CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER SOURCES AT LOCATION SHOWN ON PLANS AND AS APPROVED BY THE OWNER, AND SHALL MAKE ANY MINOR CHANGES IN LOCATION AS MAY BE NECESSARY DUE TO ACTUAL SITE CONDITIONS. BACKFLOW PREVENTER HEIGHT SHALL BE AS PER LOCAL CODES AND IRRIGATION DETAILS. INSTALL A BRASS BALL VALVE IMMEDIATELY UPSTREAM OF THE BACKFLOW DEVICE TO SERVE AS AN ISOLATION VALVE. TO EVERY EXTENT POSSIBLE, INSTALL BACKFLOW PREVENTER ION A LOCATION SCREENED FROM PUBLIC VIEW (SUCH AS BEHIND A SHRUB ROW).
- 1. PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE 2. MAINLINE PIPE AND WIRES SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES.
- LATERAL PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 12 INCHES. ASSEMBLE ALL THREADED FITTINGS WITH TEFLON TAPE, WHICH SHALL BE APPLIED TO MALE THREADS ONLY
- 4. ALL SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH APPROVED SOLVENT-WELD PRIMER AND GLUE. PIPE SHALL BE INSTALLED WITH A MINIMUM OF 4" HORIZONTAL CLEARANCE FROM ANY
- OTHER PIPE AND 2" VERTICAL CLEARANCE FROM ANY PIPES THAT CROSS OVER OR UNDER. VALVES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION
- DETAILS. 2. VALVE BOXES SHALL BE INSTALLED FLUSH WITH THE GRADE. WITH CLEAN PEA GRAVEL LOCATED BELOW THE VALVE AS NOTED ON THE DETAILS. LOCATE BOXES WITHIN 12 TO 24' OF SIDEWALKS OR LANDSCAPE EDGES. WITH TOPS OF BOXES 1" ABOVE FINISH GRADE IN TURF, AND 3" ABOVE FINISH GRADE IN SHRUB AREAS (TO AVOID BEING COVERED BY MULCH). 3. EACH VALVE BOX COVER SHALL BE HEAT-BRANDED WITH THE CONTROLLER STATION
- 4. DO NOT INSTALL MORE THAN TWO VALVES IN A JUMBO BOX. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
- SUBSURFACE DRIP LINES SHALL BE BURIED NO MORE THAN 2" BELOW FINISH GRADE. DRIP LINES MOUNTED ON GRADE SHALL BE LOCATED BENEATH LANDSCAPE FABRIC, AND SECURED IN PLACE WITH WIRE STAPLES AT A MAXIMUM OF 48" ON CENTER.
- SPRAY, ROTOR, AND BUBBLER HEADS: ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEAD STAKING SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
- ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12 INCH MINIMUM LENGTH OF $\frac{1}{2}$ INCH FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. ALL ROTORS SHALL BE CONNECTED TO
- LATERAL LINES WITH PRE-MANUFACTURED SWING JOINTS. ALL ROTOR, SPRAY AND BUBBLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF FOUR INCHES (MINIMUM) FROM THE EDGE OF ANY BUILDINGS, WALLS, BOULDERS, AND HARDSCAPE, UNLESS OTHERWISE SPECIFIED.
- 4. ALL ROTOR, SPRRAY AND BUBBLER HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON WALKS, STREETS, WALLS, ETC. AUTOMATIC CONTROLLER:
- INSTALL THE CONTROLLER AT THE LOCATION INDICATED BY THE OWNER. INSTALL CONTROLLER WITH A BACKUP BATTERY AS RECOMMENDED BY THE MANUFACTURER. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLERS AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.
- ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3M'S "DBY-DIRECT BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH
- PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES. CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3M'S "DBY-D KIT" (UNLESS OTHERWISE SPECIFIED).
- PROVIDE THREE ADDITIONAL IRRIGATION CONTROL WIRES ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING - SEE SLEEVING NOTES. INSTALL THE RAIN SENSOR IN THE VICINITY OF THE CONTROLLER, AND COORDINATE LOCATION WITH THE OWNER. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THE RAIN SENSOR IS PLACED IN A LOCATION WHERE IT CAN RECEIVE ADEQUATE RAINFALL WITHOUT OBSTRUCTIONS. IF IT IS PLACED IN AN INADEQUATE LOCATION, THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO RELOCATE IT AT NO ADDITIONAL COST TO THE OWNER.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. QUALITY CONTROL PERFORM COVERAGE TESTS AFTER SPRINKLER SYSTEM IS COMPLETED, BUT PRIOR TO ANY
- PLANTING AND PERFORM TESTING IN THE PRESENCE OF THE IRRIGATION DESIGNER AND THE CONSTRUCTION MANAGER TEST SYSTEM TO ASSURE THAT ALL LAWN AND PLANTING AREAS ARE WATERED COMPLETELY AND UNIFORMLY.
- MAKE ALL NECESSARY ADJUSTMENTS TO PROVIDE COMPLETE COVERAGE, INCLUDING REALIGNMENT OF HEADS AND REPLACEMENT OF NOZZLES.
- 1. DURING IRRIGATION EXCAVATION AND INSTALLATION, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- UPON COMPLETION OF THE WORK, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE IRRIGATION CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.

2. WHEN THE INSPECTED WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE

- CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS. THE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE WORK HAS BEEN RE-INSPECTED
- BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE. 4. CONTROLLER CHART: THE IRRIGATION CONTRACTOR SHALL PROVIDE A 11" X 17"
- COLOR-CODED. LAMINATED COPY OF THE IRRIGATION LAYOUT AND PLACE IT IN THE CONTROLLER'S COVER. THE CONTROLLER CHART SHALL CLEARLY DELINEATE THE AREAS COVERED BY EACH VALVE. USING A SEPARATE COLOR FOR EACH ZONE. TURN THE FOLLOWING ITEMS IN TO THE OWNER UPON COMPLETION OF THE INSTALLATION:
- QUICK COUPLER KEYS (2) CONTROLLER MANUAL (1) CONTROLLER KEYS (2)

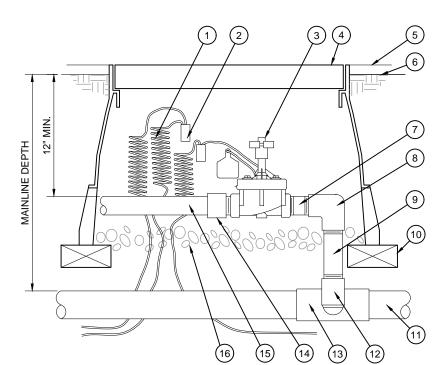
A MINIMUM OF (2) COPIES OF RECORD DRAWINGS. A RECORD DRAWING IS A RECORD

- OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS. W. REFER TO THE PLANTING SPECIFICATIONS FOR ADDITIONAL CONDITIONS OF FINAL ACCEPTANCE
- AND START OF THE MAINTENANCE PERIOD. WARRANTY
- THE IRRIGATION SYSTEM SUPPLIED AND INSTALLED SHALL BE WARRANTED (LABOR AND MATERIALS) TO REMAIN OPERATIONAL FOR A PERIOD OF 12 MONTHS AFTER THE DATE OF FINAL ACCEPTANCE. DURING THIS PERIOD, THE CONTRACTOR SHALL ALSO REPAIR ANY SETTLEMENT OF THE IRRIGATION TRENCHES. BY THE END OF THE WARRANTY PERIOD, ANY IRRIGATION PART THAT IS EITHER
- NON-OPERATIONAL OR THAT IS OPERATING BELOW STANDARDS AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED. REPLACEMENTS SHALL BE OF THE SAME KIND AS SPECIFIED IN THE IRRIGATION LEGEND, AND SHALL BE INSTALLED AS ORIGINALLY SPECIFIED. IRRIGATION PARTS DAMAGED OR IMPAIRED DUE TO ACTS OF GOD, VANDALISM, AND/OR THE
- OWNER'S IMPROPER MAINTENANCE SHALL NOT BE COVERED BY THIS WARRANTY. SHOULD THE PERMITTING JURISDICTION REQUIRE AN IRRIGATION AUDIT, THE IRRIGATION CONTRACTOR SHALL RETAIN THE SERVICES OF A THIRD-PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AT NO ADDITIONAL COST TO THE OWNER.



(4) JUMBO PLASTIC VALVE BOX BY CARSON (OR EQUAL) (5) TOP OF MULCH (6) FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS, 2" IN SHRUB AREAS 7 PVC UNION (2) (8) PVC SCH 40 MALE ADAPTER (2) (9) PVC LATERAL PIPE (10) BRICK (1 OF 4) (11) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL (12) PVC MAINLINE PIPE (13) PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) (14) SCH. 40 PVC ELL (15) SCH. 40 PVC TEE OR ELL

DRIP CONTROL ZONE KIT



- (1) 30-INCH LINEAR LENGTH OF WIRE, COILED (3) REMOTE CONTROL VALVE
- (4) JUMBO PLASTIC VALVE BOX BY CARSON (OR

(1) 30-INCH LINEAR LENGTH OF WIRE, COILED

(2) WATERPROOF CONNECTION (ANY APPROVED)

(3) REMOTE CONTROL VALVE

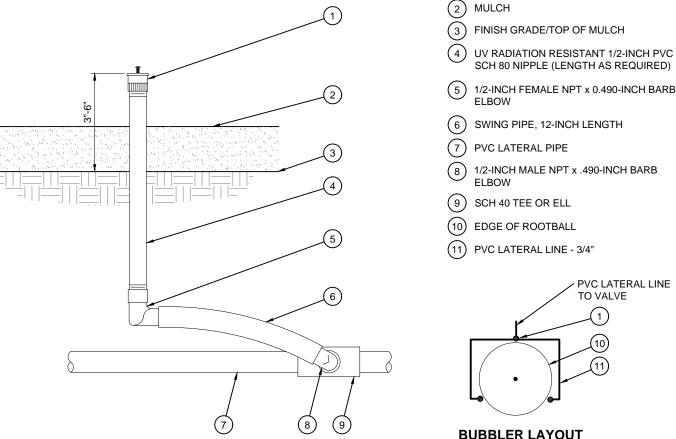
ASSEMBLY

- (7) PVC SCH 80 NIPPLE (CLOSE)
- (10) BRICK (1 OF 4)
- (11) PVC MAINLINE PIPE
- (12) SCH. 40 PVC ELL
- (15) PVC LATERAL PIPE

(1) BUBBLER PER LEGEND - 3 PER TREE

SCH 80 NIPPLE (LENGTH AS REQUIRED)





(6) SWING PIPE, 12-INCH LENGTH (7) PVC LATERAL PIPE (8) 1/2-INCH MALE NPT x .490-INCH BARB (9) SCH 40 TEE OR ELL (10) EDGE OF ROOTBALL (11) PVC LATERAL LINE - 3/4" VC LATERAL LINE BUBBLER LAYOUT **PLAN VIEW**



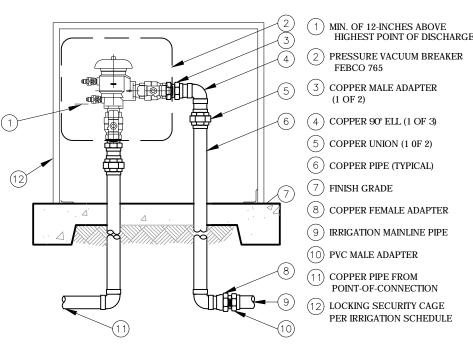
(2) WATERPROOF CONNECTION (ANY APPROVED)

(16) SCH. 40 PVC THREADED ELL

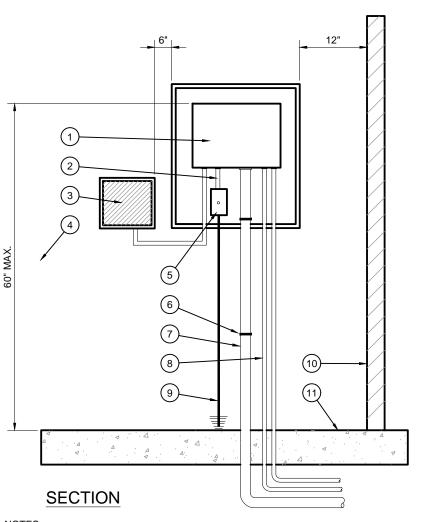
- (5) TOP OF MULCH
- (6) FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS, 2" IN SHRUB AREAS
- (8) PVC SCH 40 ELL
- (9) PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

- (13) PVC SCH 40 TEE OR EL (14) PVC SCH 40 MALE ADAPTER
- (16) 3-INCH MINIMUM DEPTH OF $\frac{3}{4}$ -INCH WASHED





BACKFLOW PREVENTER (PVB)



- (1) CONTROLLER PER LEGEND 2) 1/2" ELECTRICAL CONDUIT BETWEEN
- CONTROLLER AND ELECT. BOX CLAMP TO WALL
- (3) SENSOR MONITOR PANEL OR RECEIVER (WHERE OCCURS)
- (5) 120 VOLT SERVICE IN WATERPROOF JUNCTION BOX WITH DISCONNECT SWITCH, INSTALL INSIDE STAINLESS ENCLOSURE
- (6) C-CLAMPS (TYP.)
- (7) CONDUIT(S) FOR 24 VOLT CONTROL WIRES. CLAMP TO WALL. USE 1 CONDUIT FOR 0-24 STATIONS. USE 2 CONDUITS FOR 25-48 STATIONS
- (8) SENSOR CABLES IN CONDUITS WHERE OCCURS)
- (9) GROUNDING PER MANUFACTURER
- (10) WALL
- (11) FINISH FLOOR SURFACE
- MOUNT CONTROLLER AND CABINET PER MANUFACTURER'S DIRECTIONS. 2) 120 V.A.C. POWER PROVIDED BY OTHERS. LANDSCAPE CONTRACTOR SHALL MAKE FINAL CONNECTION AT CONTROLLER, CONNECT TO ELECTRICAL SUPPLY PER NATIONAL ELECTRIC CODE AND LOCAL CODE.

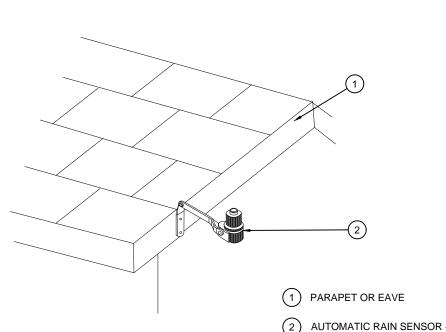
INSTALL PER MANUFACTURER'S

INSTRUCTIONS

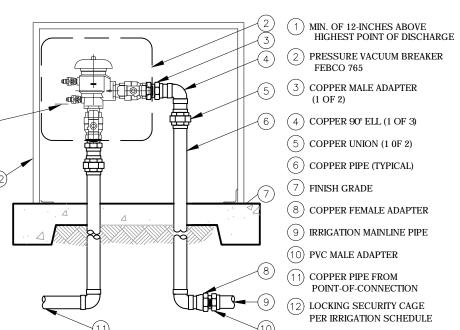
3) LOCATE GROUND ROD 8' MIN. FROM CONTROLLER. VERIFY LOCATION OF GROUND ROD, CONTROLLER AND SOURCE

OF FLECTRICITY WITH MANUFACTURER'S REPRESENTATIVE AND OWNER AS PART OF PRE CONSTRUCTION MEETING.

CONTROLLER - WALL MOUNT, INDOOR



RAIN SENSOR, ROOF MOUNT



1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.



REVISIONS EV DATE COMMENT



NOT APPROVED FOR CONSTRUCTION

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DRAWN BY: CHECKED BY: SCALE:

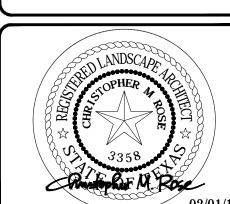
PROP. SITE PLAN

BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087

ROCKWALL COUNTY

6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com

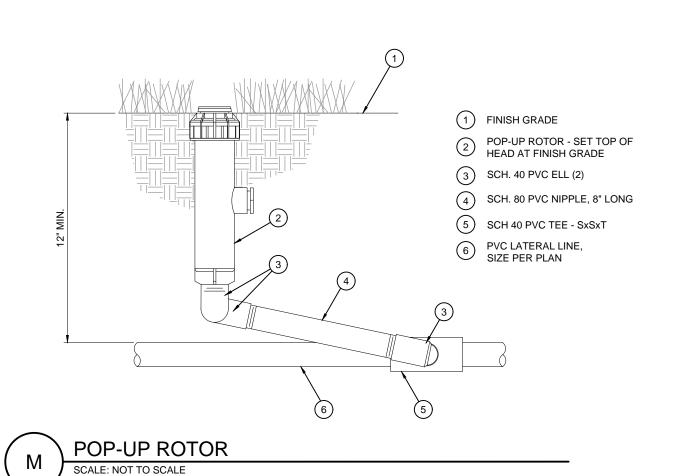


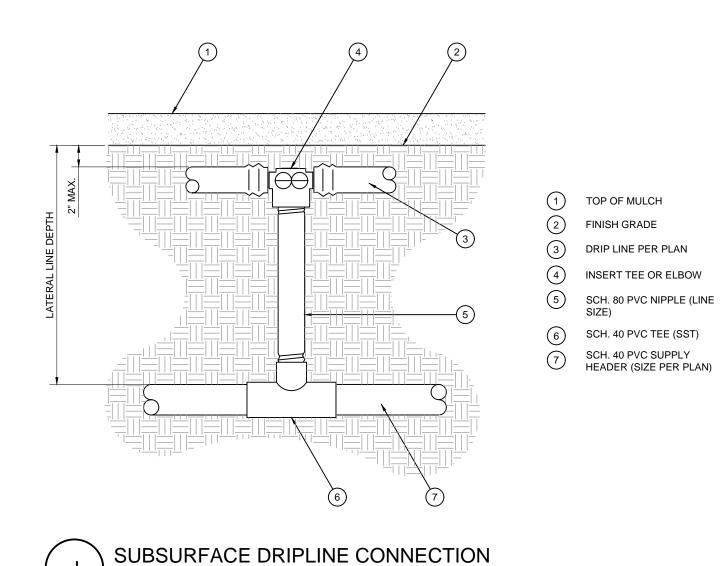
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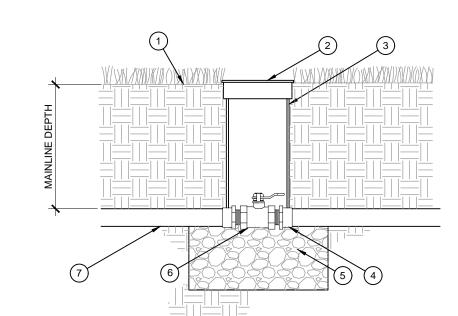
IRRIGATION AND DETAILS

SHEET NUMBER:

CASE NUMBER:

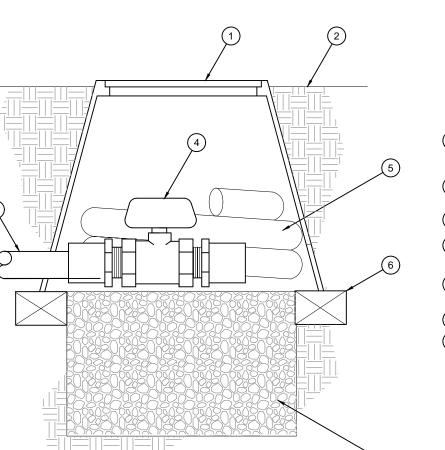






- 1) FINISH GRADE AT 1" BELOW TOP OF BOX IN TURF AREAS: 2" BELOW TOP OF BOX IN SHRUB/GROUNDCOVER
- 9" ROUND VALVE BOX
- WITH LOCKABLE LID 3 EXTENSION SECTION AS NECESSARY TO MEET GRADE
- 4 PVC MALE ADAPTER (5) 3-INCH MINIMUM DEPTH OF
- $\frac{3}{4}$ -INCH WASHED GRAVEL
- (6) BRASS BALL VALVE (SIZED PER MAINLINE)
- (7) IRRIGATION MAINLINE

BRASS BALL VALVE

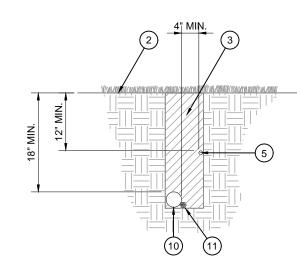


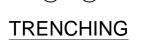
10" ROUND PLASTIC VALVE BOX
WITH LOCKABLE LID, "CARSON" OR APPROVED EQUAL

INSERT TEE OR ELBOW

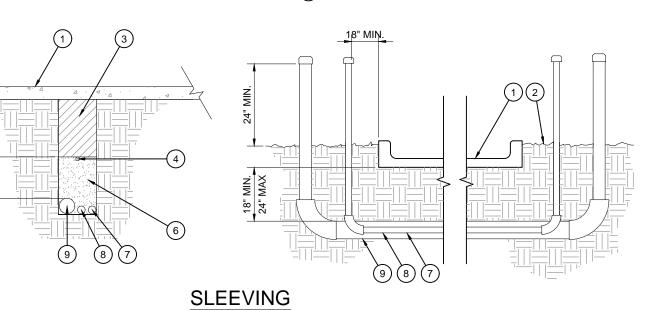
SCH. 40 PVC SUPPLY HEADER (SIZE PER PLAN)

- FINISH GRADE TOP OF VALVE BOX TO
 BE 2" ABOVE FINISH GRADE IN PLANTER AREAS
- 3 DRIP EXHAUST HEADER
- 4 BALL VALVE, LINE SIZE 3' COILED LENGTH OF LINE
 SIZE FLEX HOSE. SOLVENT
- WELD TO VALVE
- (6) RED BRICK TYPICAL, 3 REQUIRED (7) 6" DEEP LAYER OF PEA GRAVEL

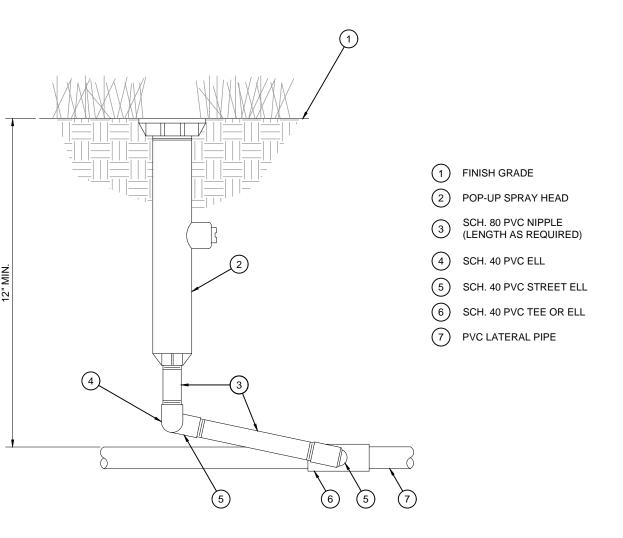




- PAVEMENT SURFACE (2) FINISH GRADE (3) TRENCH BACKFILL 4) LOCATOR WIRE W/BURIED CAUTION TAPE (5) PVC IRRIGATION LATERAL (6) SAND BACKFILL
 - (7) SCH. 40 PVC LATERAL SLEEVE SEE PLANS FOR SIZE
 - 8) SCH. 40 PVC WIRE SLEEVE FOR CONTROL WIRES, MIN. 2" DIA.
 - (9) SCH. 40 PVC MAINLINE SLEEVE SEE PLANS FOR SIZE
 - (10) PVC IRRIGATION MAINLINE
 - (11) CONTROL WIRES TAPE TO MAINLINE AT 10' INTERVALS (12) PVC CAP, SOLVENT WELDED

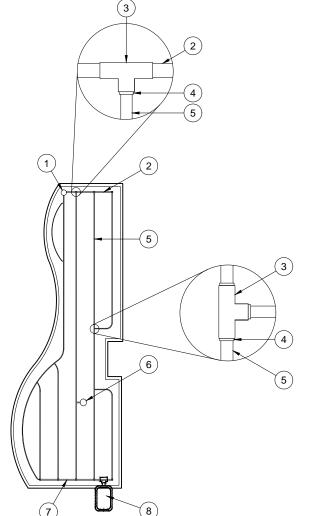


PIPE AND SLEEVE INSTALLATION SCALE: NTS



POP-UP SPRAY HEAD

FLUSH VALVE
SCALE: NTS



1 FLUSH VALVE (2) SCH. 40 PVC EXHAUST HEADER SCH. 40 PVC TEE OR ELL

COMPRESSION ADAPTER DRIP LINE

AIR RELIEF VALVE AT HIGH POINT OF SYSTEM (WHERE INDICATED ON PLANS)

SCH. 40 PVC SUPPLY HEADER

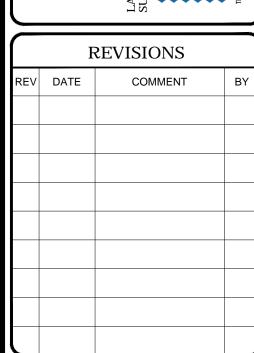
CONTROL VALVE NOTE: SET DRIP LINES 3"-6" AWAY FROM

SUBSURFACE DRIP LINE LAYOUT

SCALE: NOT TO SCALE









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CONSTRUCTION DRAWN BY: CHECKED BY: DATE: SCALE: CAD I.D.:

PROP. SITE PLAN **DOCUMENTS**

BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 ROCKWALL COUNTY



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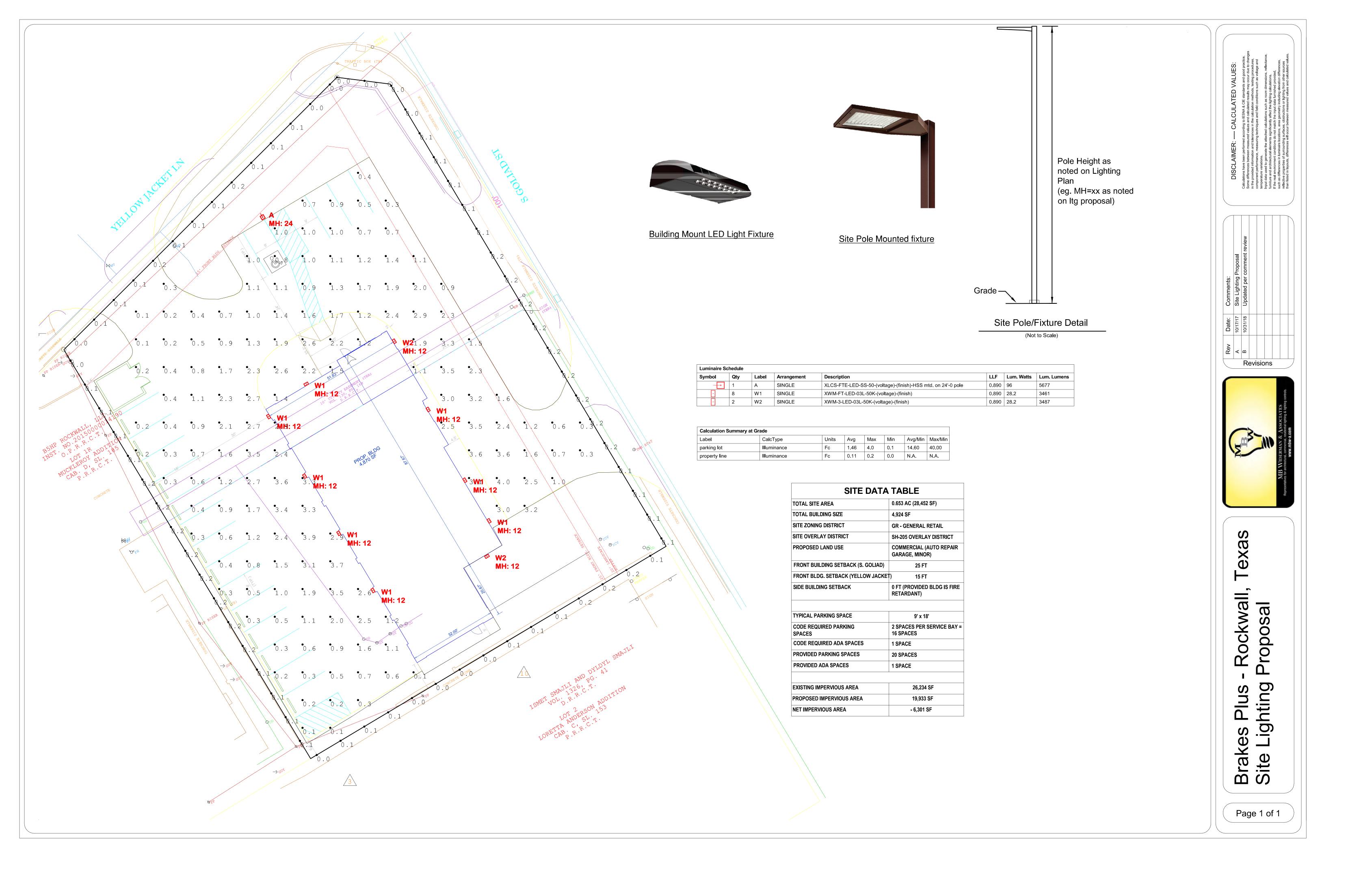
IRRIGATION DETAILS

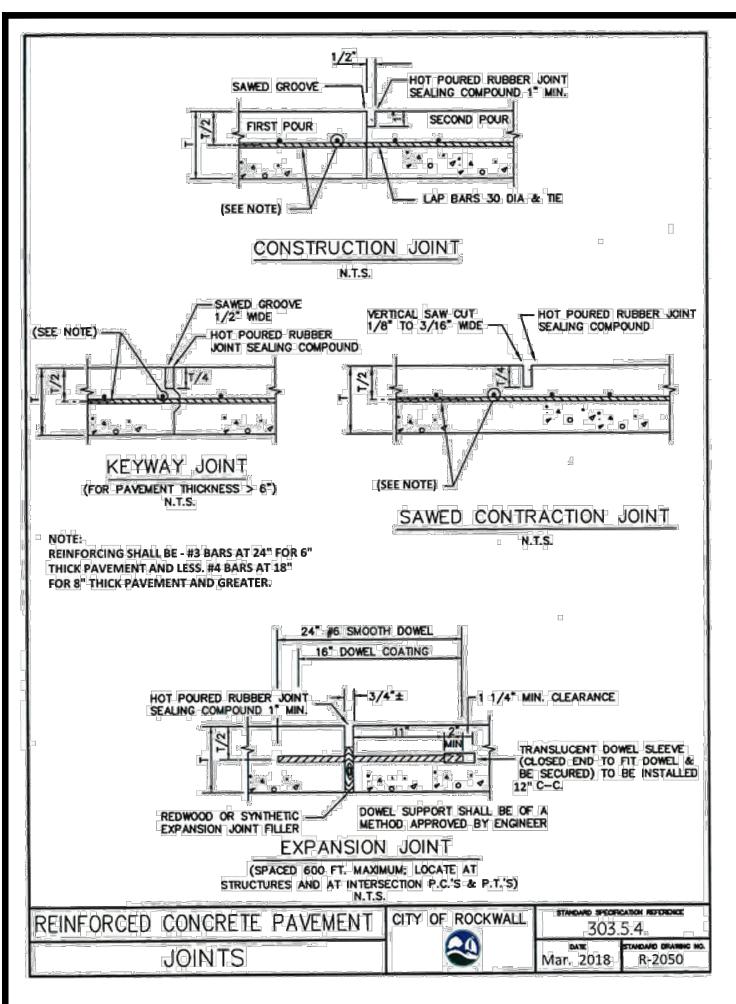
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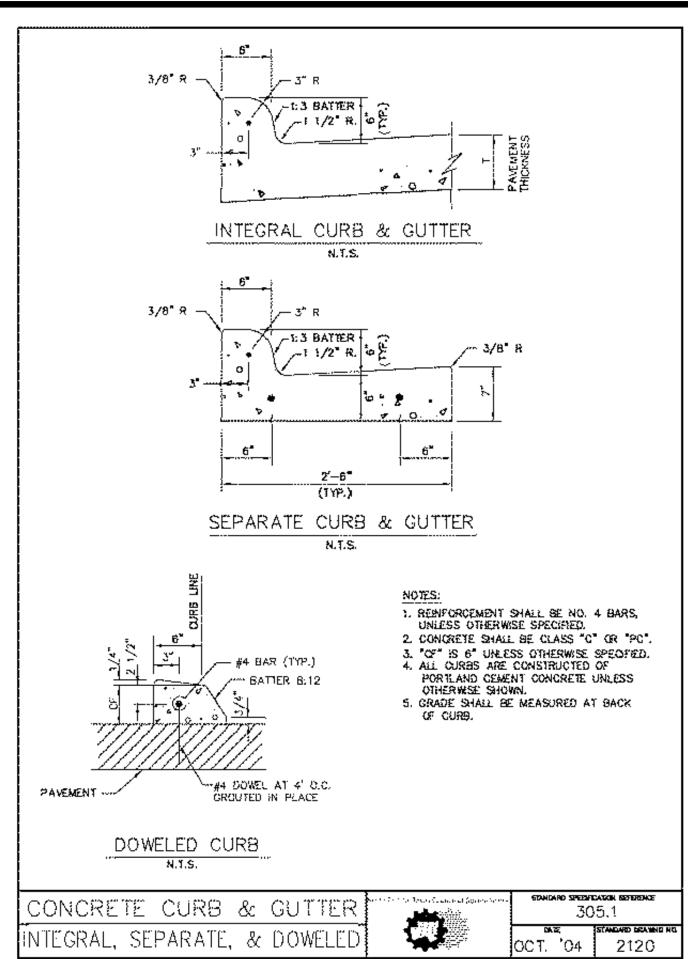
L-1.4

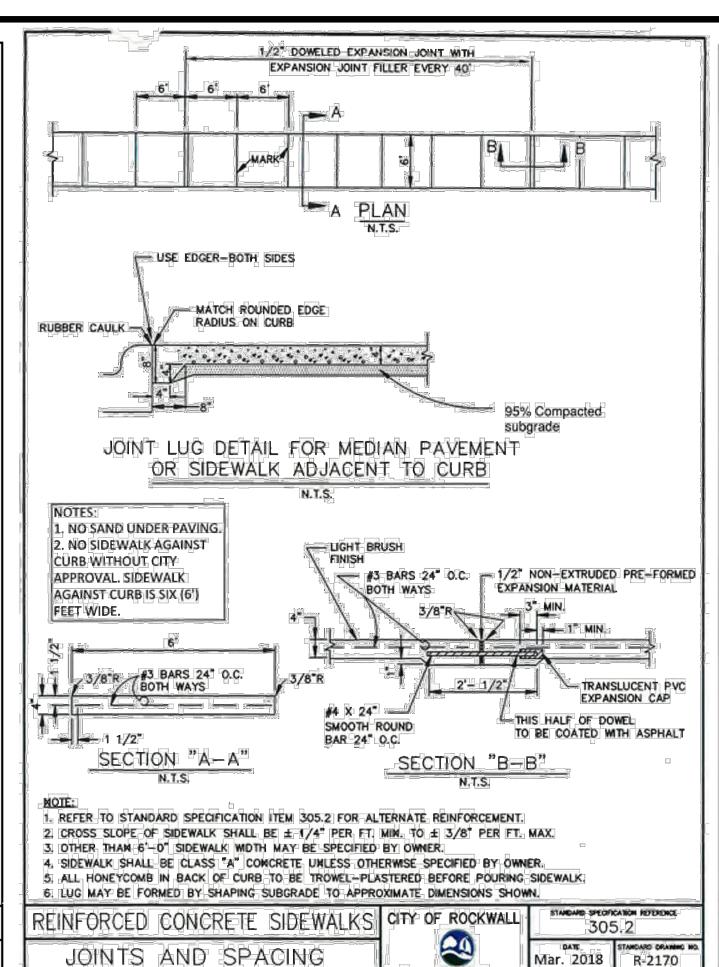
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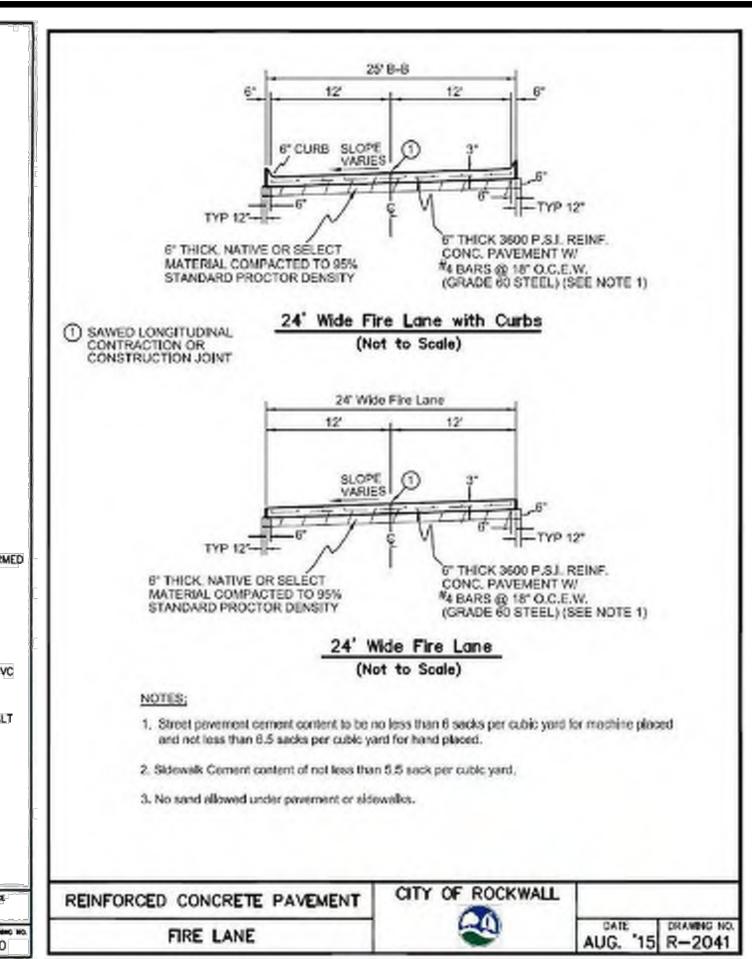
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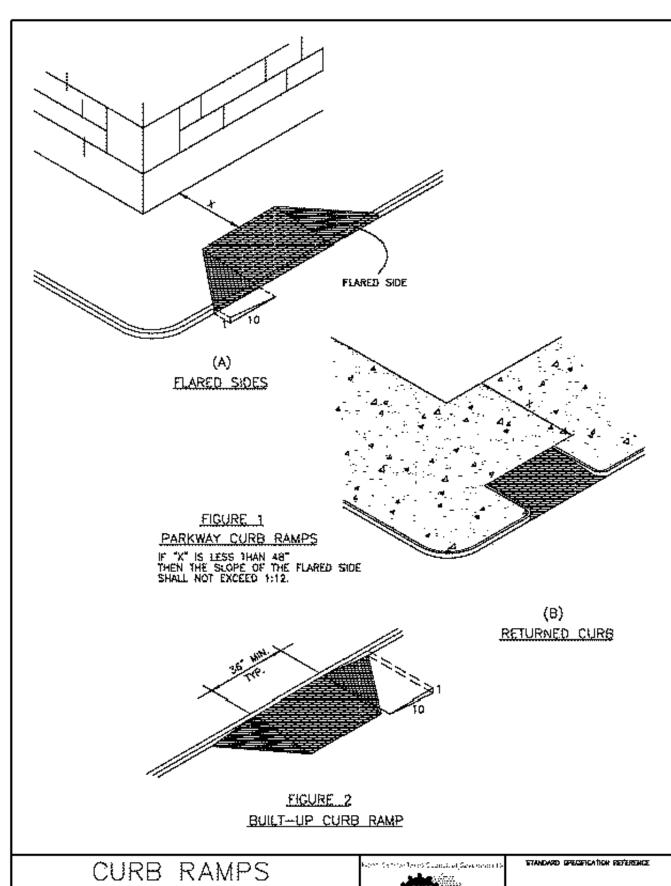




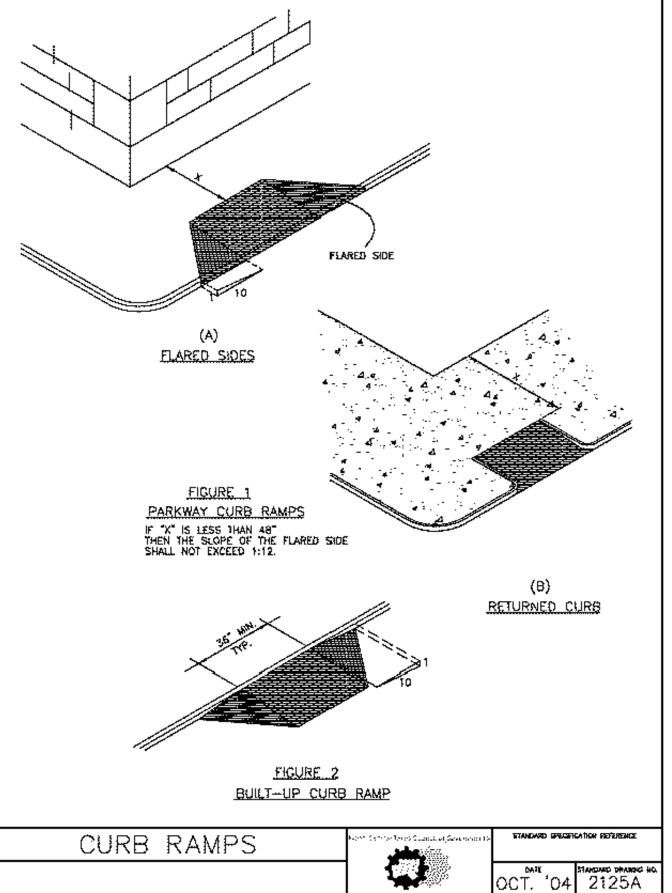


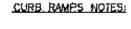






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GENERAL REQUIREMENTS CURB RAMPS SHALL BE CONSTRUCTED AS PER THE REQUIREMENTS AND SPECIFICATIONS OF THE TEXAS ACCESSIBILITY STANDARDS AND THE ADA & ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES. (FEDERAL REGISTER/ VOL. 69, NO. 141, FRIDAY, JULY 23, 2004)

CURB RAMPS UNDER THESE PROVISIONS, SHALL BE WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.

SLOPES ON CURB RAMPS SHALL SE MEASURED AS FOLLOWS: (Y:X = VERTICAL:HORIZONTAL)) TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATLEY ADJACENT TO THE CURB OR ACCESSIBLE

1) THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP, THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30" (760 MM). CURB RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISES IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLDPE OR LESS, AS FOLLOWS:

1. A SLOPE BETWEEN 1:10 AND 1:12 IS ALLOWED FOR A MAXIMUM RISE OF 5", 2. A SLOPE BETWEEN 1:8 AND 1:10 IS ALLOWED FOR A MAXIMUM OF 3" A SLOPE STEEPER THAN 1:8 IS NOT ALLOWED.

RAME WIDTH: THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES.

SURFACES OF CURB RAMPS, SHALL BE STABLE FIRM, AND SLIP RESISTANT. SURFACE TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES. EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, EYCHED, OR CROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. FOR PURPOSES OF WARNING. THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.

IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (SEE FIG. 1 (A)) CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT WALK ACROSS THE RAMP. (SEE FIG. 1 (B))

BUILT-UP CURB RAMPS SHALL BE LOCATED SO THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES

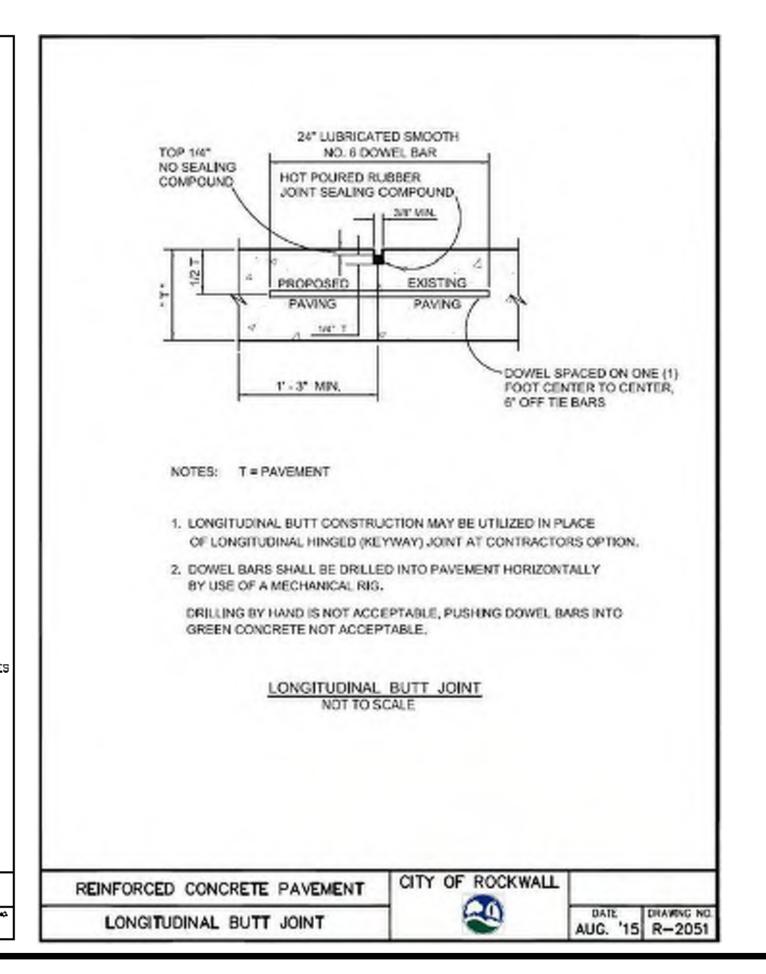
CURB RAMPS SHALL BE LOCATED OR PROJECTED TO PREVENT THEIR DESTRUCTION BY PARKED VEHICLES. LOCATION AT MARKED CROSSINGS:

CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES, <u>DIAGONAL CURB RAMPS:</u>
IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE (1220 MM) MINIMUM. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48" (1220 MM) clear space shall be within the markings. If diagonal curb ramps have flared sides, they shall also HAVE AT LEAST A 24" (610 MM) LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP

CURB RAMPS IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. (A.) THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OFF-SITE THE REQUIRED EXISTING CONCRETE SIDEWALK, CURB AND GUTTER, TO CONSTRUCT THE PROPOSED RAMPS. (B.) CONCRETE SIDEWALKS AND RAMPS SHALL BE MINIMUM 4" THICK, 4000 PSI, 5 SACK CONCRETE, REINFORCED WITH #3 BARS AT 14" CENTERS BOTH WAYS, PLACED OVER: A 2" THICK SAND CUSHION EMBEDMENT. (C.) THE CONTRACTOR SHALL USE 1" PREMOLDED EXPANSION JOINT MATERIAL BETWEEN THE PROPOSED SIDEWALKS AND RAMPS AT THE BACK OF CURBS, AND AT JOINTS AT NO EXTRA PAY.

AND WITHIN THE MARKED CROSSING. ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" (1220 MM) LONG BETWEEN THE

(D.) DUMMY JOINT REQUIRED EVERY 4' IN 4' WIDE SIDEWALKS AND EVERY 5' IN 6' WIDE SIDEWALK. CURB RAMPS and Committee Country Server STANDARD DRAWING N OCT. '04 21258

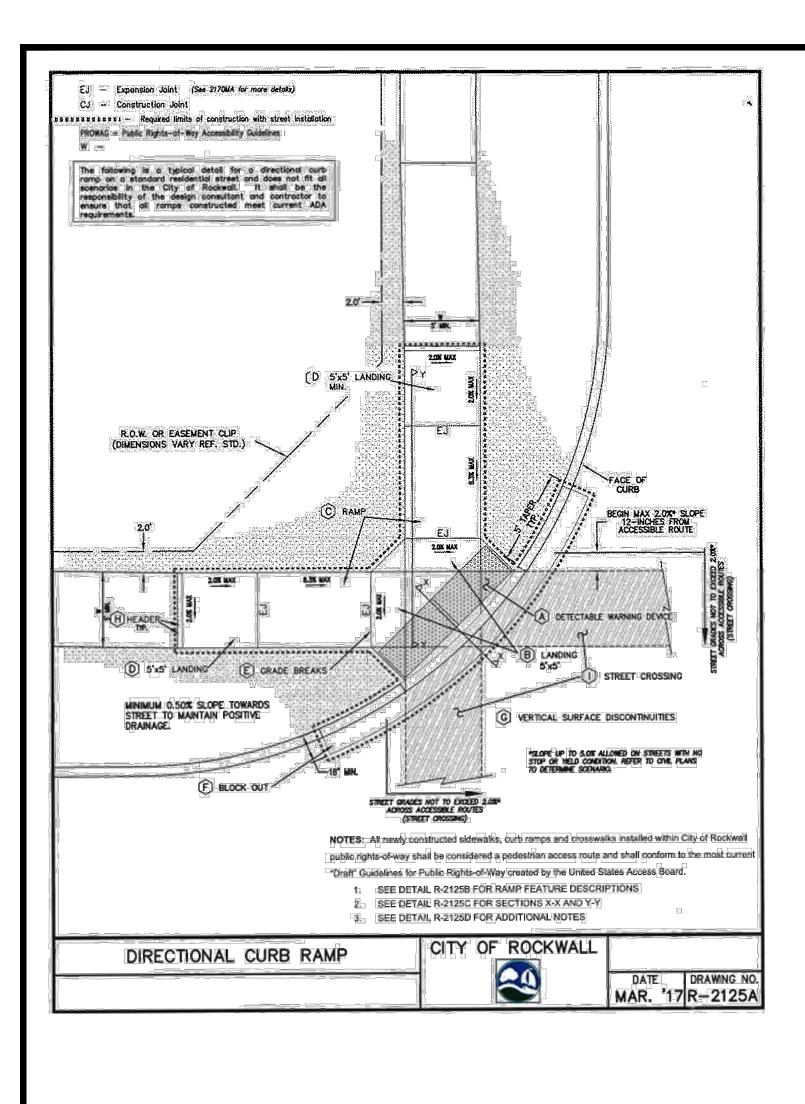




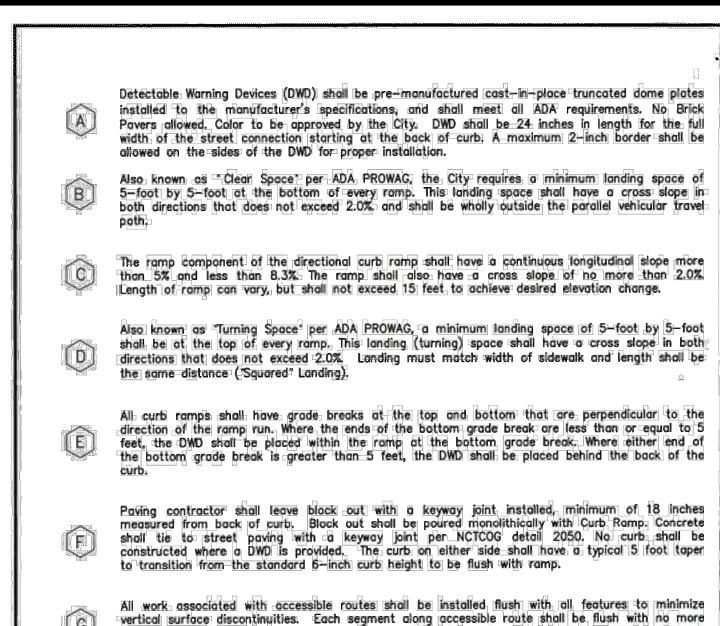
02/25/2019

CONSTRUCTION

DETAILS



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(zero tolerance) than a 12-inch grade separation (elevation difference), or 12-inch grade separation

Street crossings shall adhere to same guidelines as other accessible routes within public

not exceed 2%*. New street construction shall incorporate all ADA design requirements. It shall

be the responsibility of the Design Professional and Contractor to ensure all street crossings meet the requirements of PROWAG. Street alterations on existing streets to bring to compliance shall

* See PROWAG special design considerations when street crossing has no stop or yield condition.

CITY OF ROCKWALL

DATE DRAWING NO

MAR. 17 R-2125

right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall

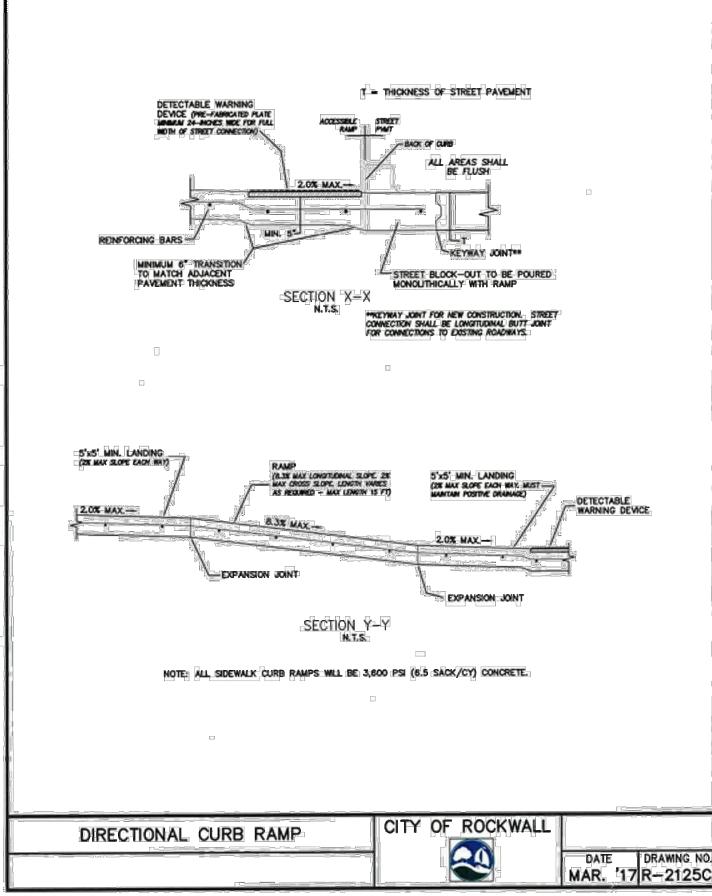
if beveled (bevel slope shall not be steeper than 50%).

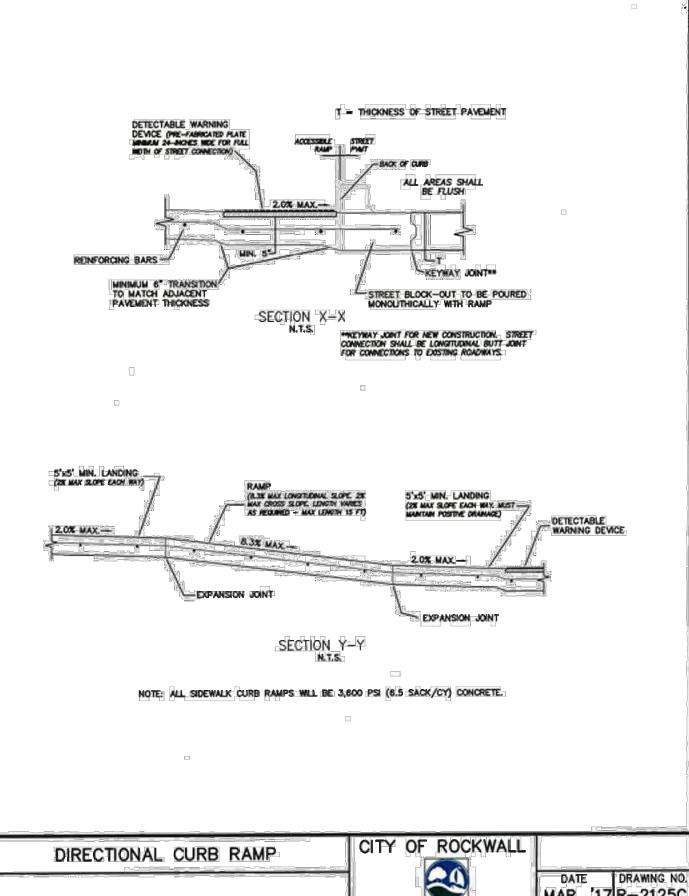
be at the City Engineer's discretion.

DIRECTIONAL CURB RAMP

A sidewalk header shall be constructed at ends of all work performed.

All curbs constructed as part of an ADA Ramp shall match City curb standards.





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

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

t. All slopes shown are MAXIMUM ALLOWABLE. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed. 2. Landings shall be 5'x 5' minimum with a maximum 2% slope in the transverse and

longitudinal directions... 3. Clear space at the bottom of curb ramps shall be a minimum of 5'x 5' wholly contained

within the crosswalk and wholly outside the parallel vehicular travel path. 4. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.

5. Additional information on curb ramp location, design, light reflective value and texture may be found in the most current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102 Federal guidelines shall supersede any conflicts. 6. Crosswelk dimensions, crosswelk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps and

accessible routes shall align with theoretical crosswalks unless otherwise directed. 7. Handrails are not required on curb ramps. 8. Provide a flush transition where the curb ramps connect to the street.

9. Accessible routes are considered "ramps" when longitudinal slopes are between 5% and 8.3% (maximum allowable). Sidewalks under 5% longitudinal slope are deemed accessible routes and must follow all applicable guidelines.

DETECTABLE WARNING DEVICE 10. Curb ramps must contain a detectable warning surface that consists of raised truncated domes camplying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces. Furnish and install an approved cast—in—place dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the

11. Detectable Warning Materials shall be truncated dome plates in the color approved by the City. Install products in accordance with manufacturer's specifications.

12 Detectable warning surfaces must be slip resistant and not allow water to accumulate. 13. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian

occess route enters the street. 14. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. When placed on the ramp, align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Where detectable warning surfaces are provided on a surface with a slope that is less than 5 percent, dome orientation is less

critical. Detectable warning surfaces may be curved along the corner radius.

15. Provide clear ground space at operable parts, including pedestrion push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.

16. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground

17. Street grades and cross slopes shall be as shown elsewhere in the plans.

18. Changes in level greater than 1/4 inch are not permitted (1/2 inch with bevel). 19. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from

potentially hazardous conditions. If provided, handrails shall comply with TAS 505. 20 Handrall extensions shall not protrude into the usable landing area or into intersecting





REVISIONS REV DATE COMMENT DOMESTIC WATER 3/18/19 REVISION TAS REVIEW 4/19/19 COMMENTS

3 *****



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02/25/2019

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CONSTRUCTION

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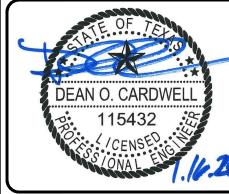
DOCUMENTS

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LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087 **ROCKWALL COUNTY**

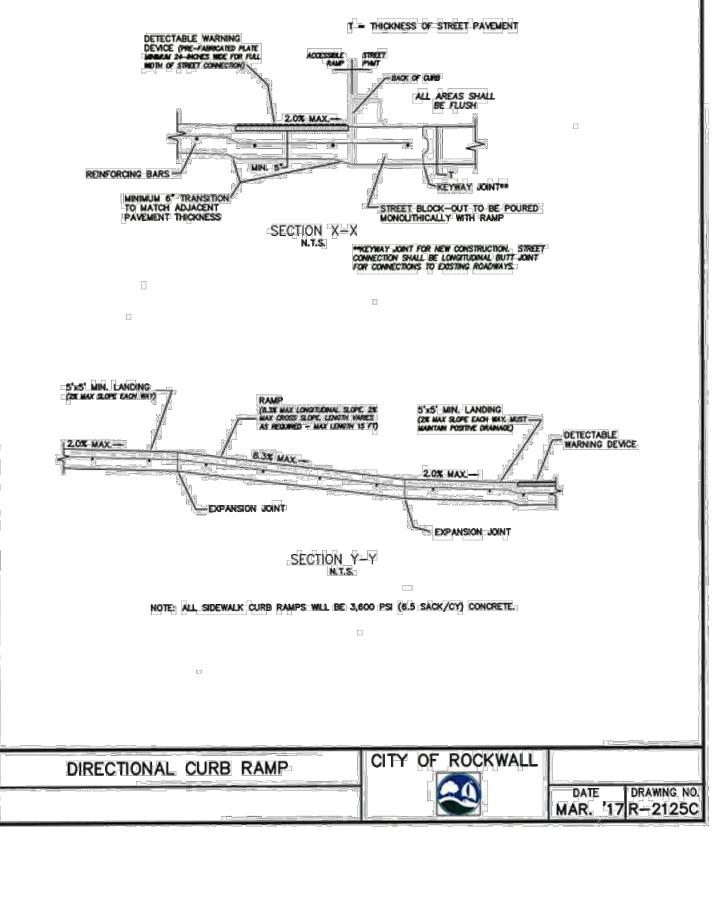


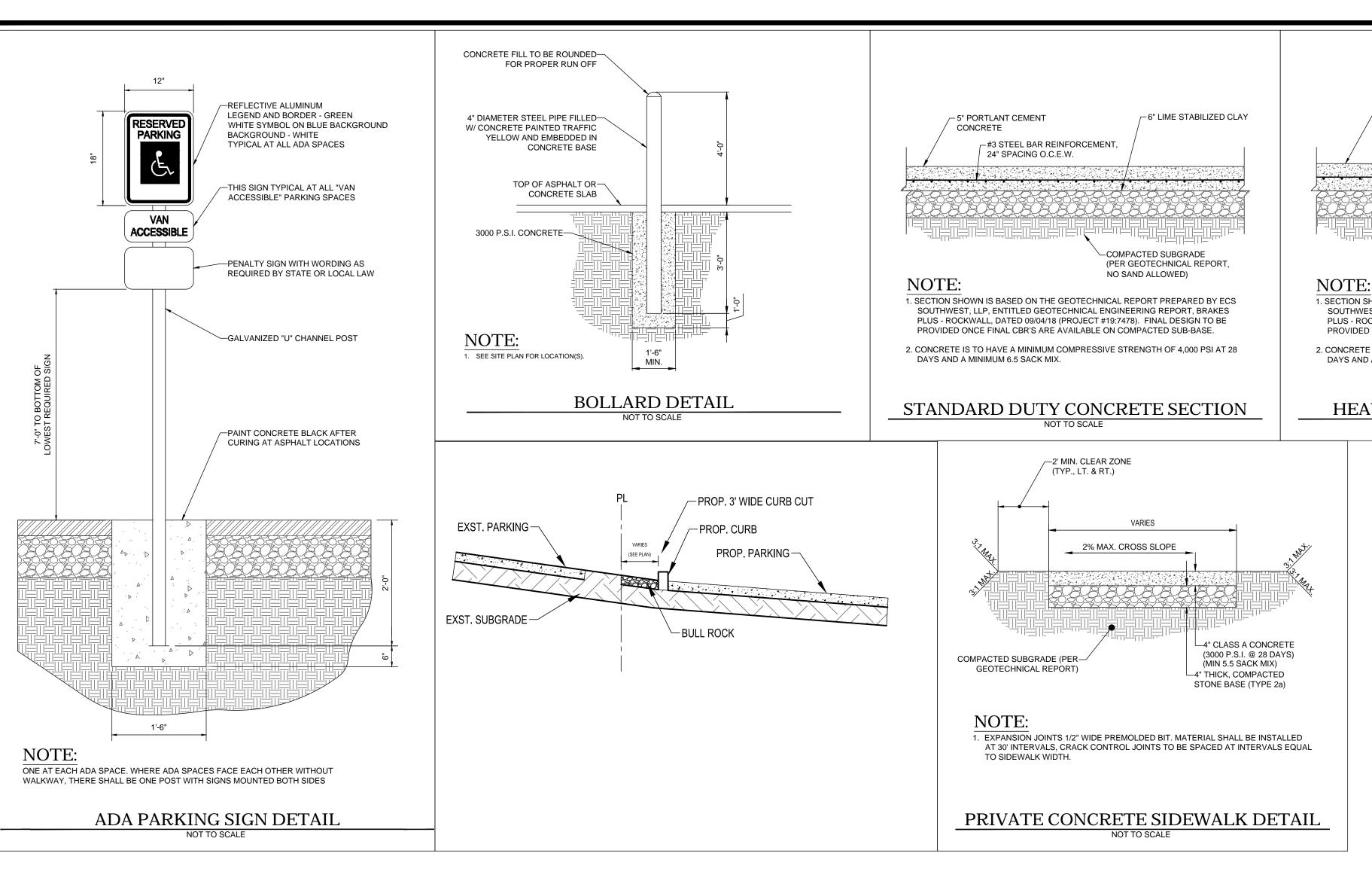
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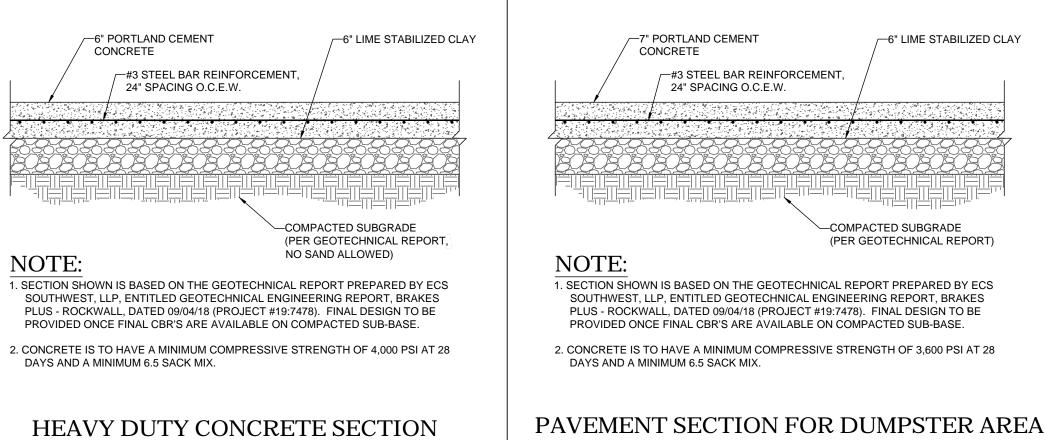
CONSTRUCTION **DETAILS**

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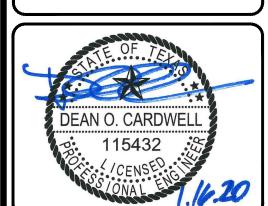
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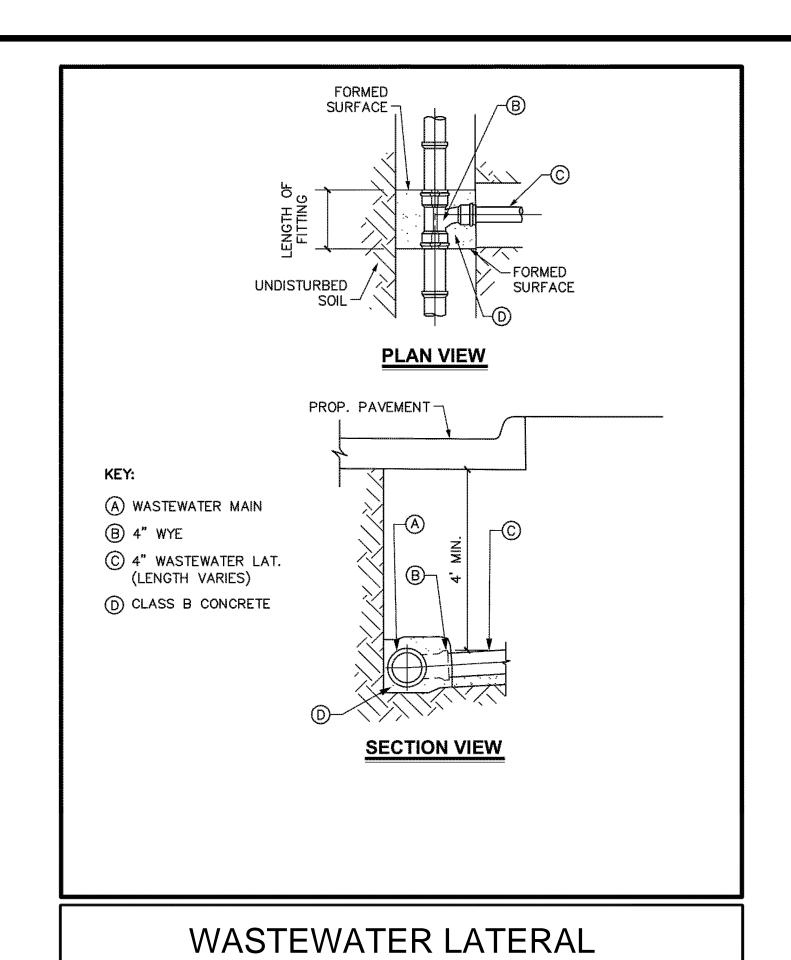
ROCKWALL COUNTY

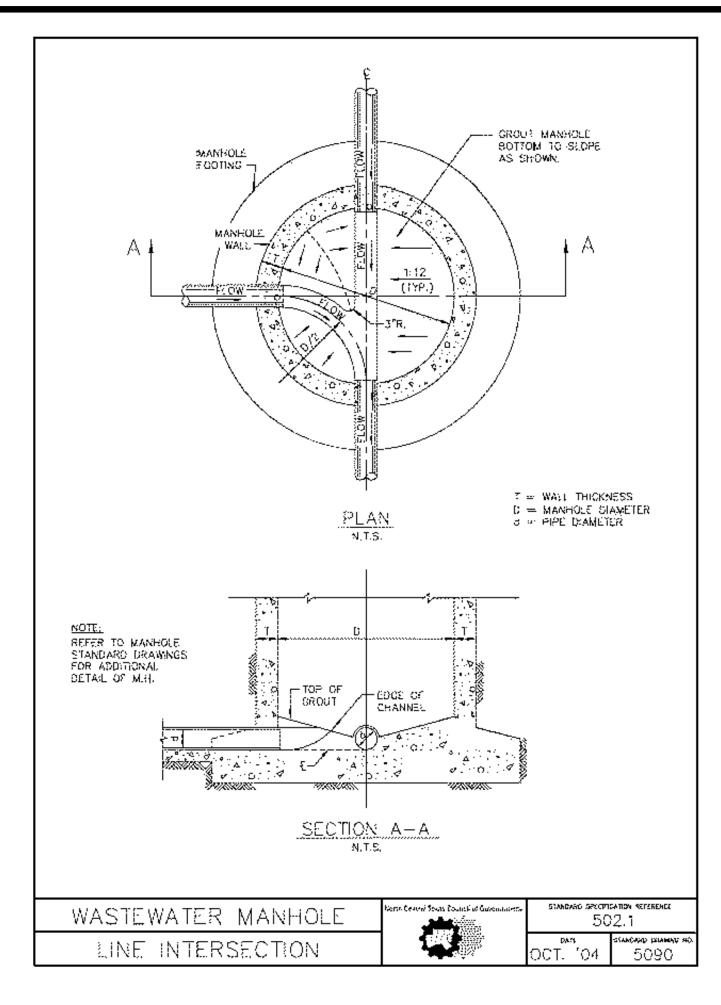


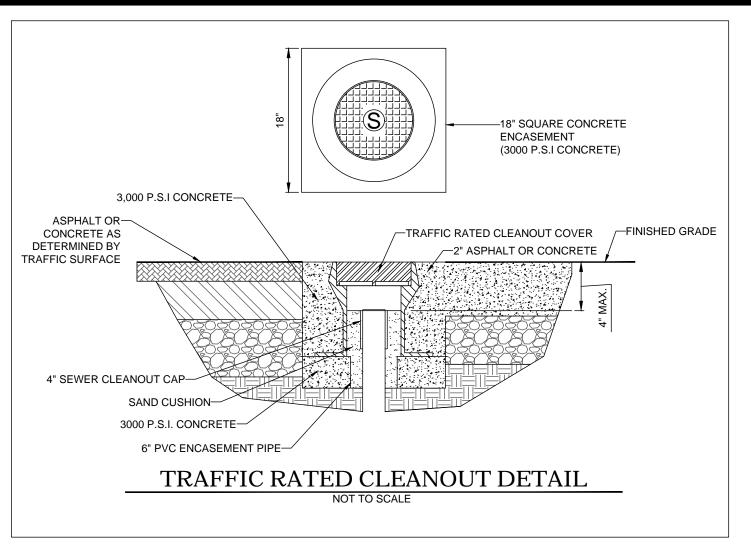
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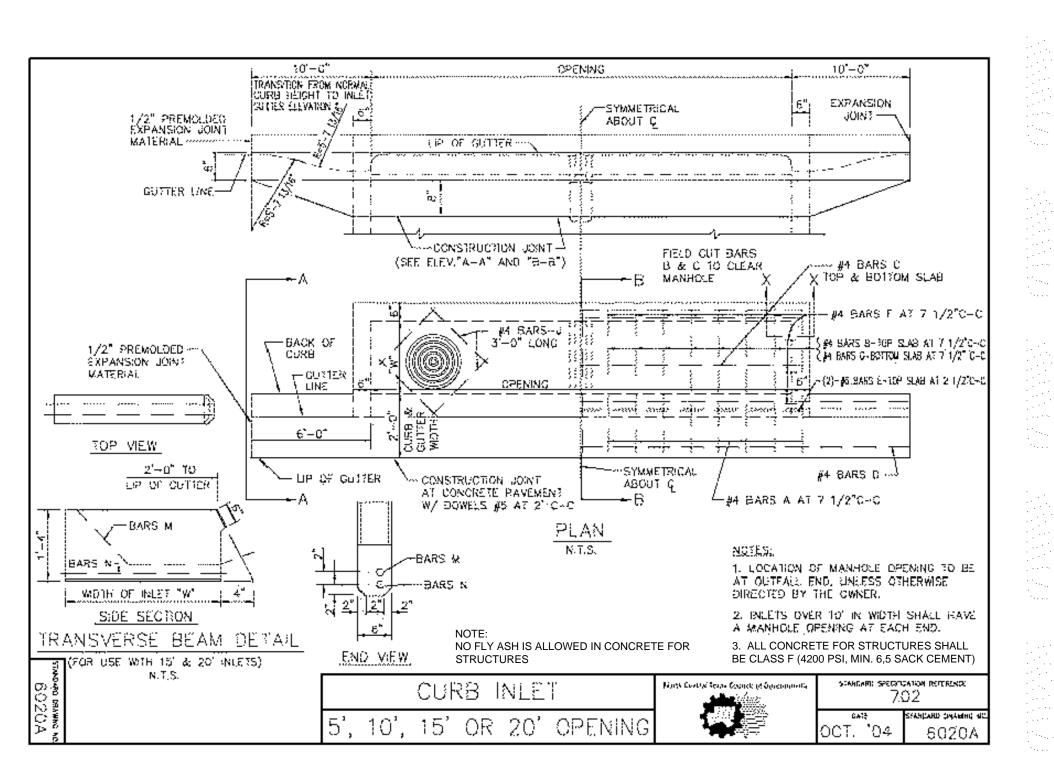
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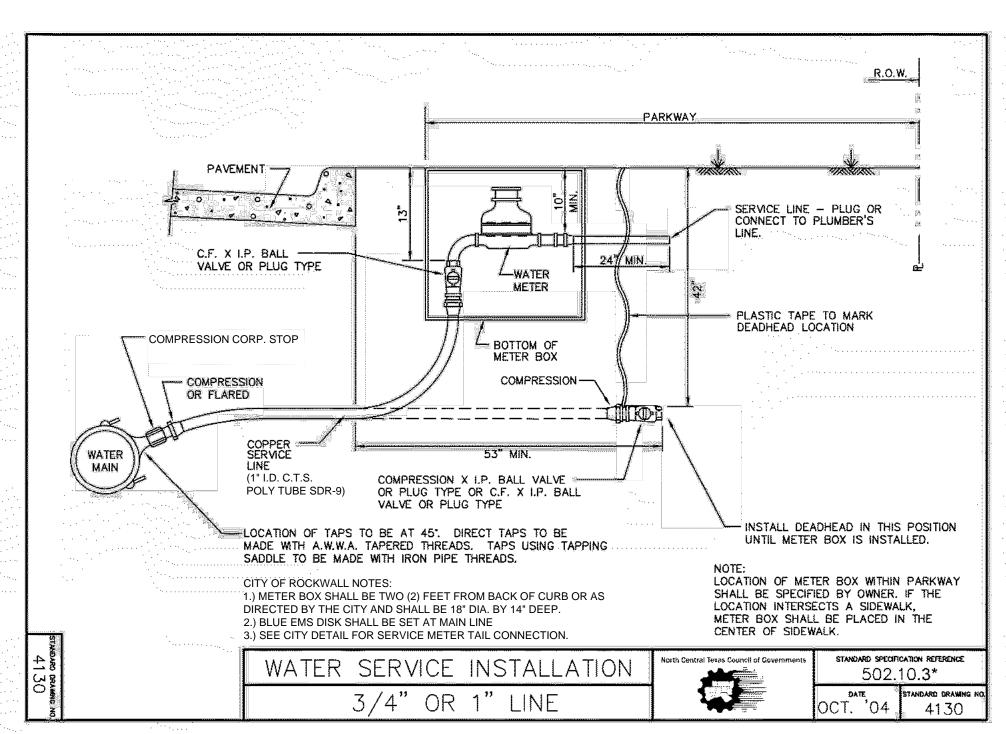


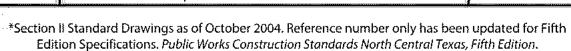


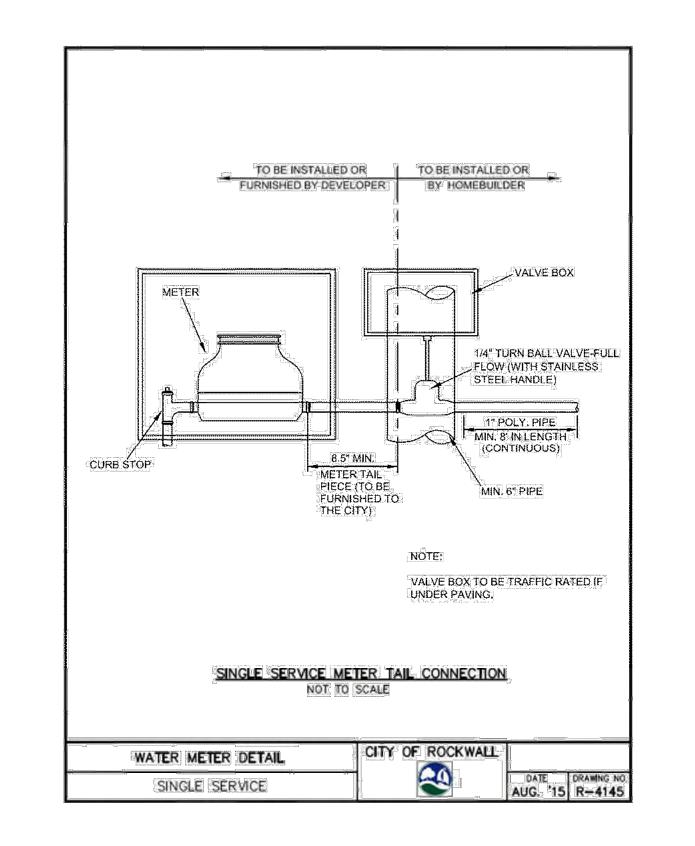


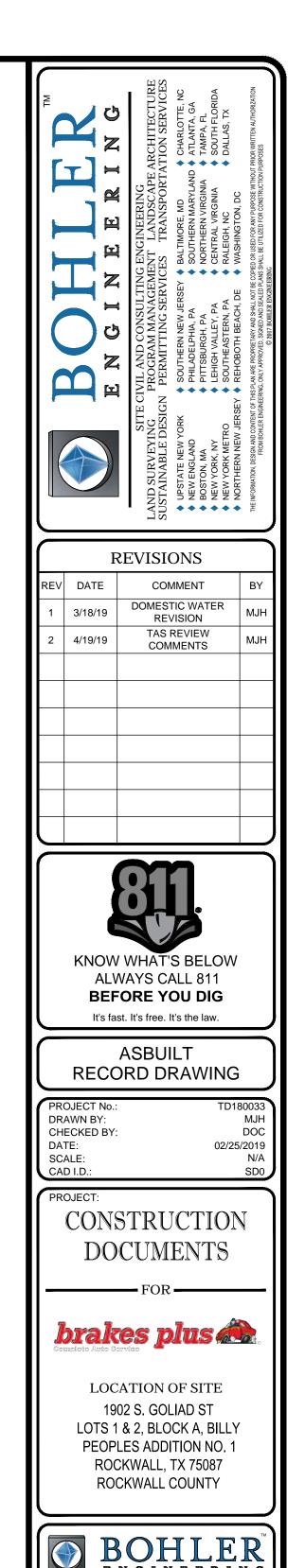


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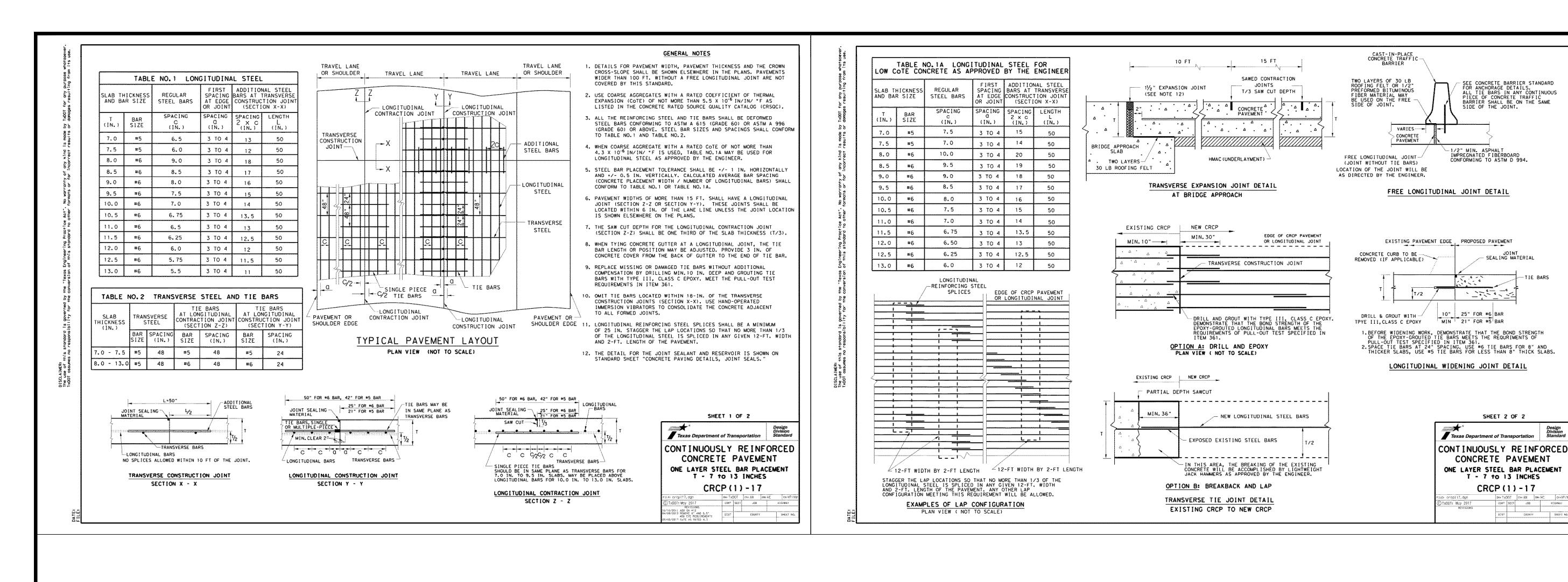
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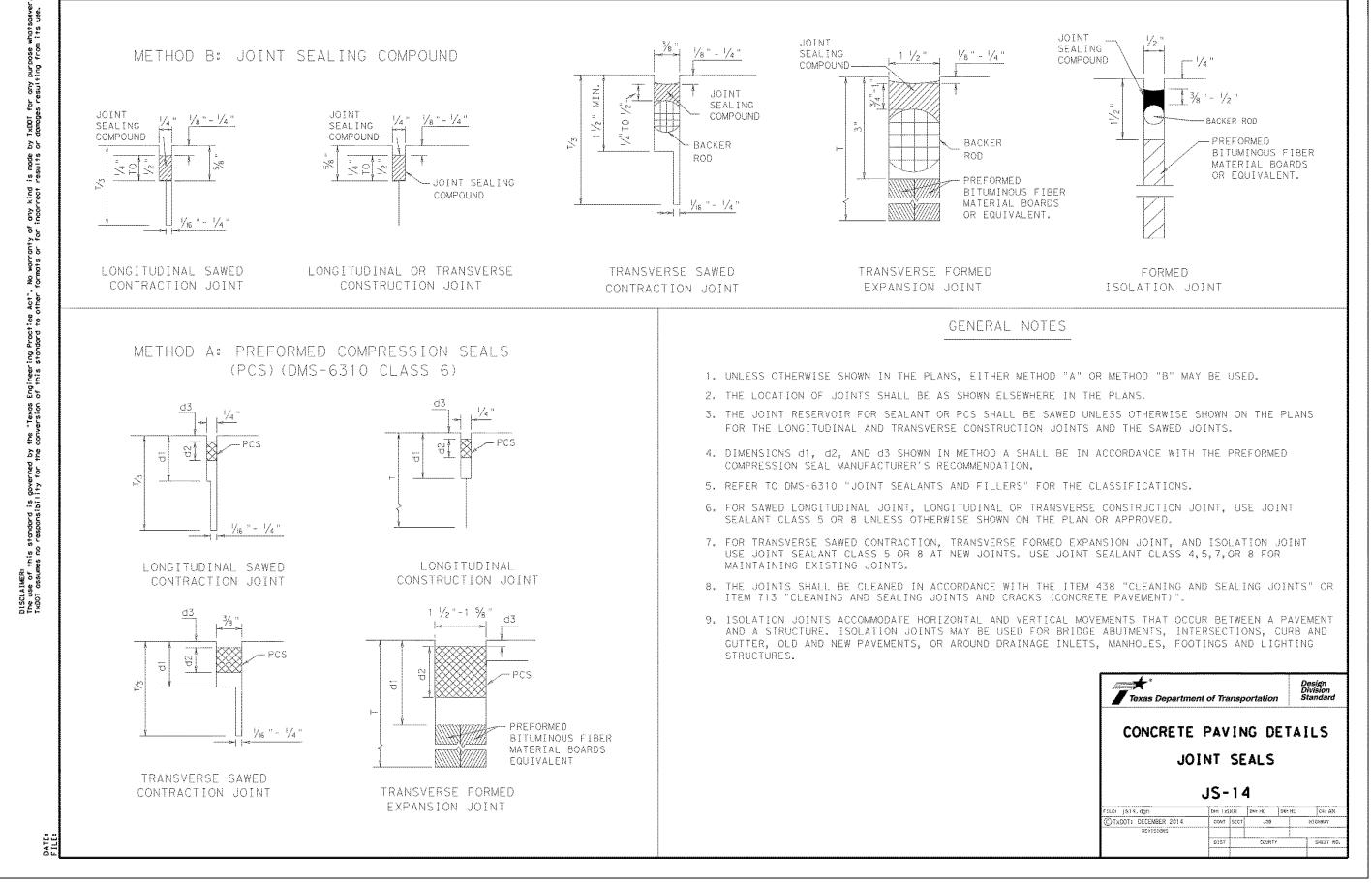
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UTILITY

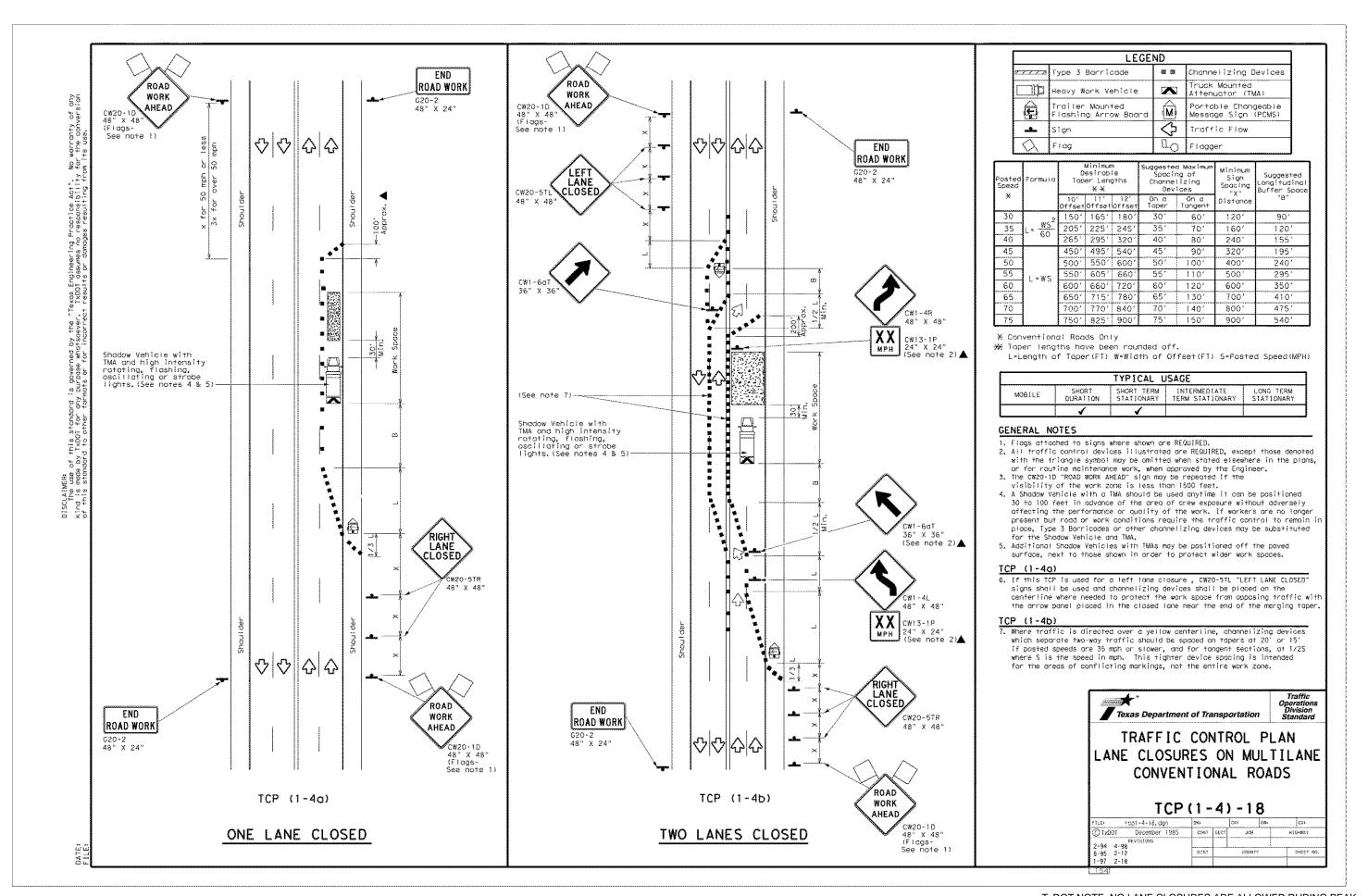
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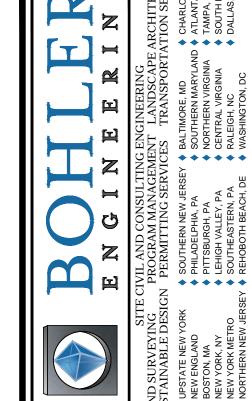


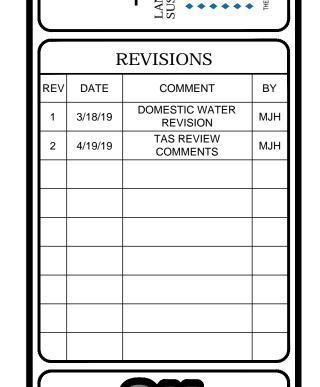


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TXDOT NOTE: NO LANE CLOSURES ARE ALLOWED DURING PEAK HOURS. OFF-PEAK HOURS ARE 9 AM TO 3 PM AND 9 PM TO 5 AM, MONDAY THROUGH FRIDAY, ONLY. ASSOCIATED SIGNS SHALL BE REMOVED WHEN NOT IN USE AND ALL PAVEMENT EDGES AT THE END OF THE EACH DAY FOR SAFETY IN ACCORDANCE WITH TXDOT STANDARDS.







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LOCATION OF SITE 1902 S. GOLIAD ST LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY

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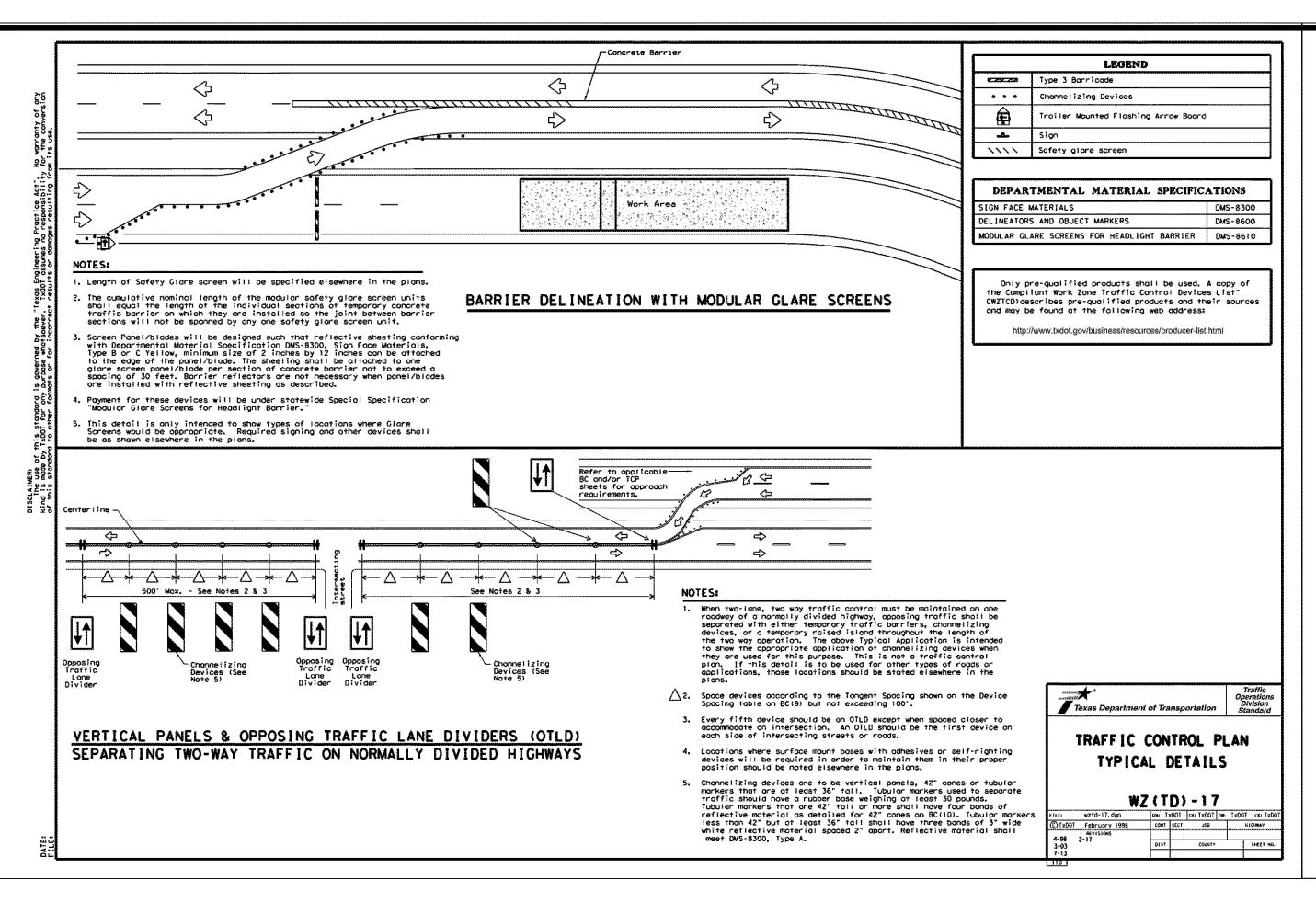
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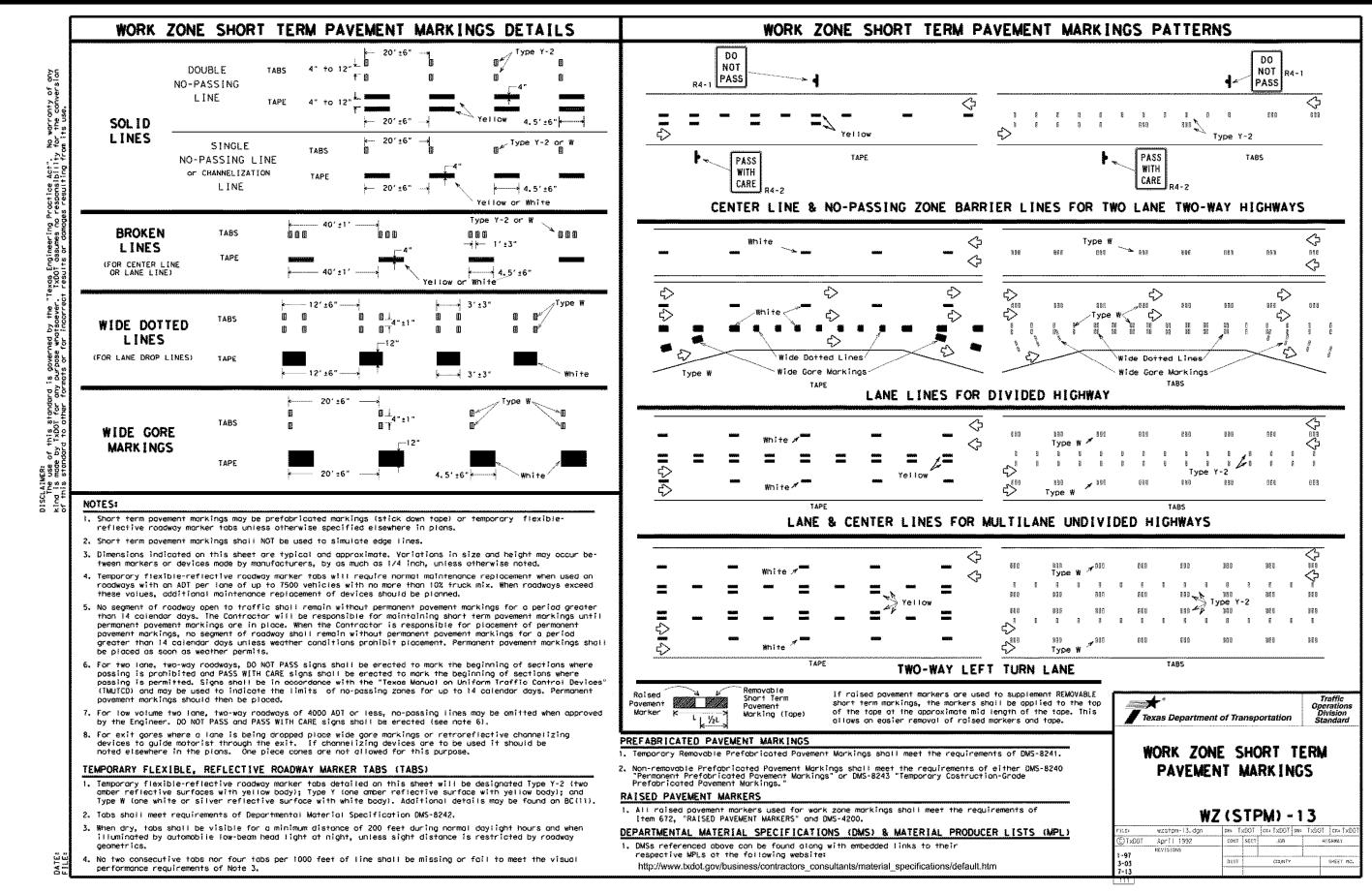


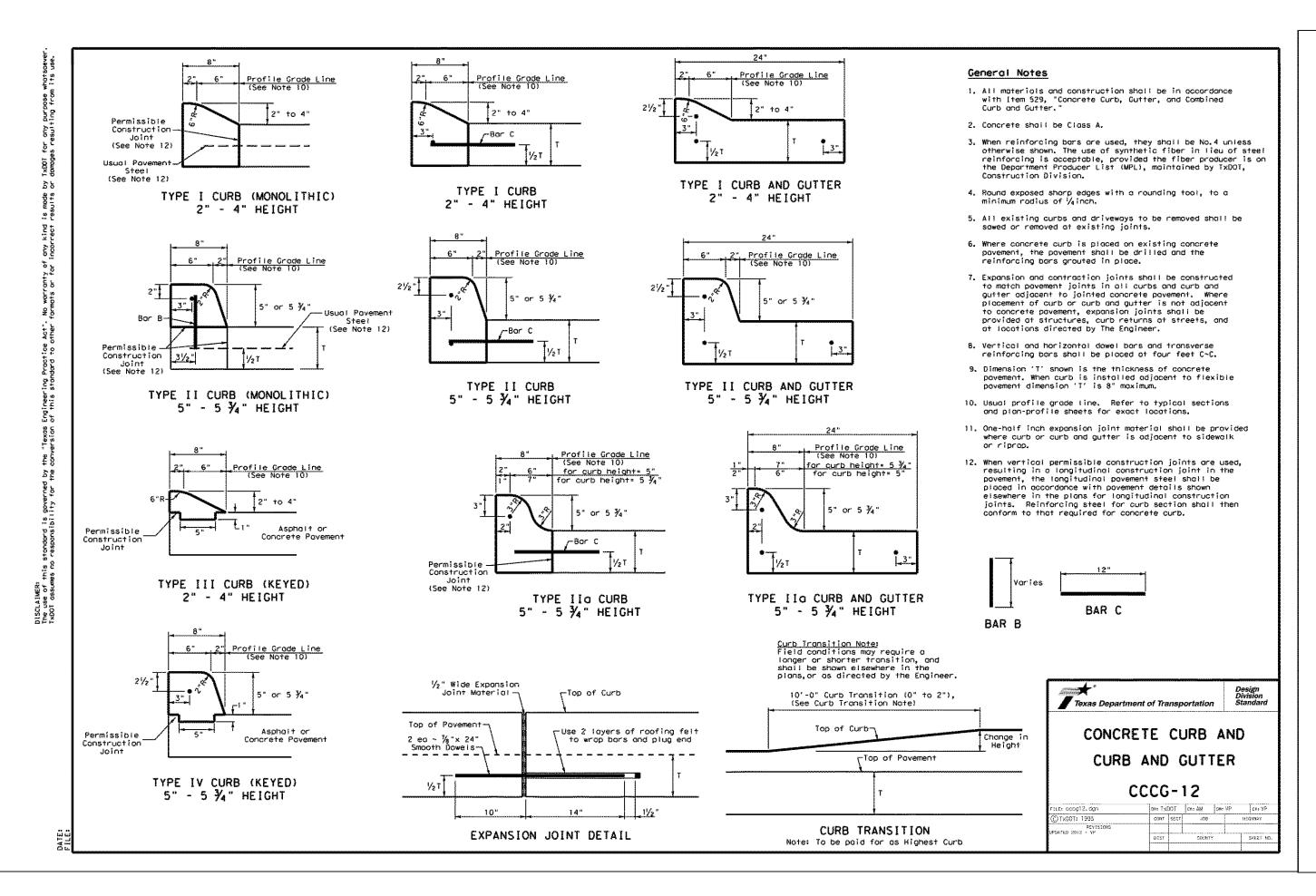
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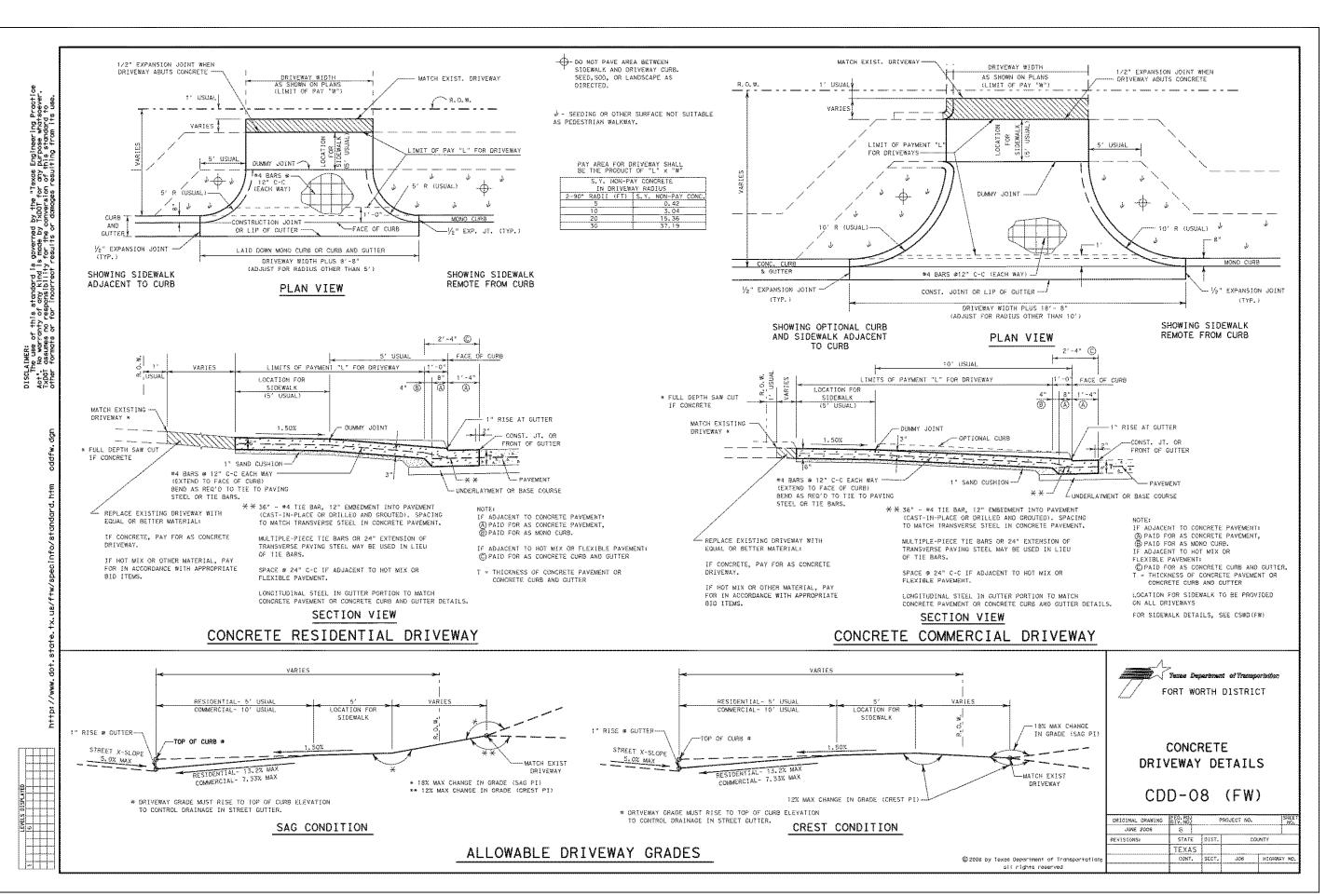
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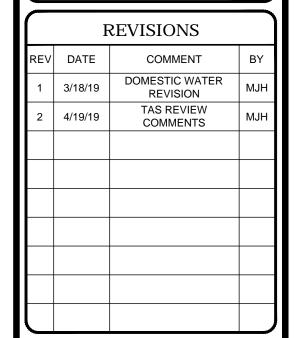




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LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

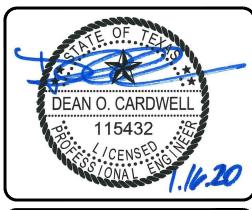
PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY

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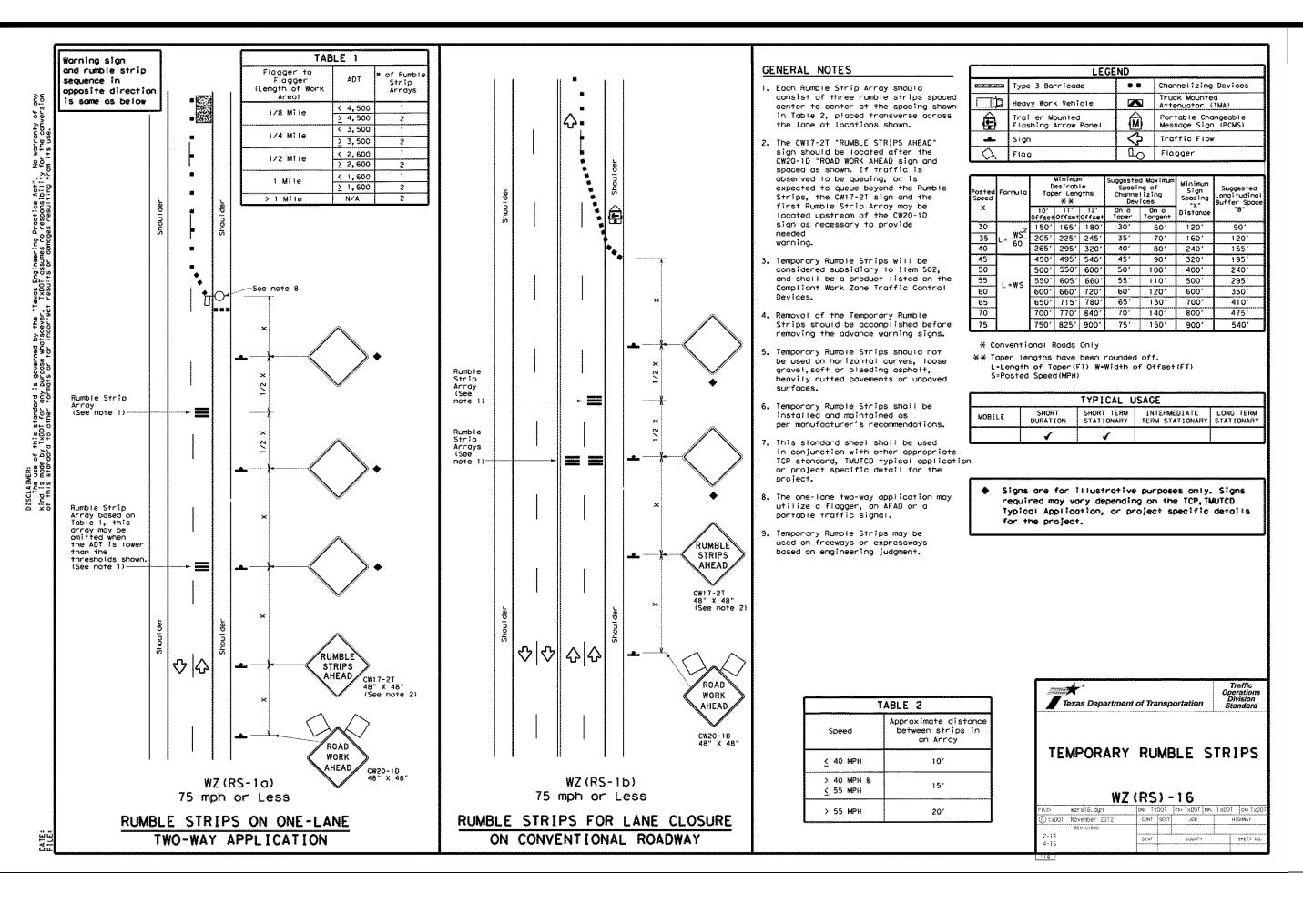
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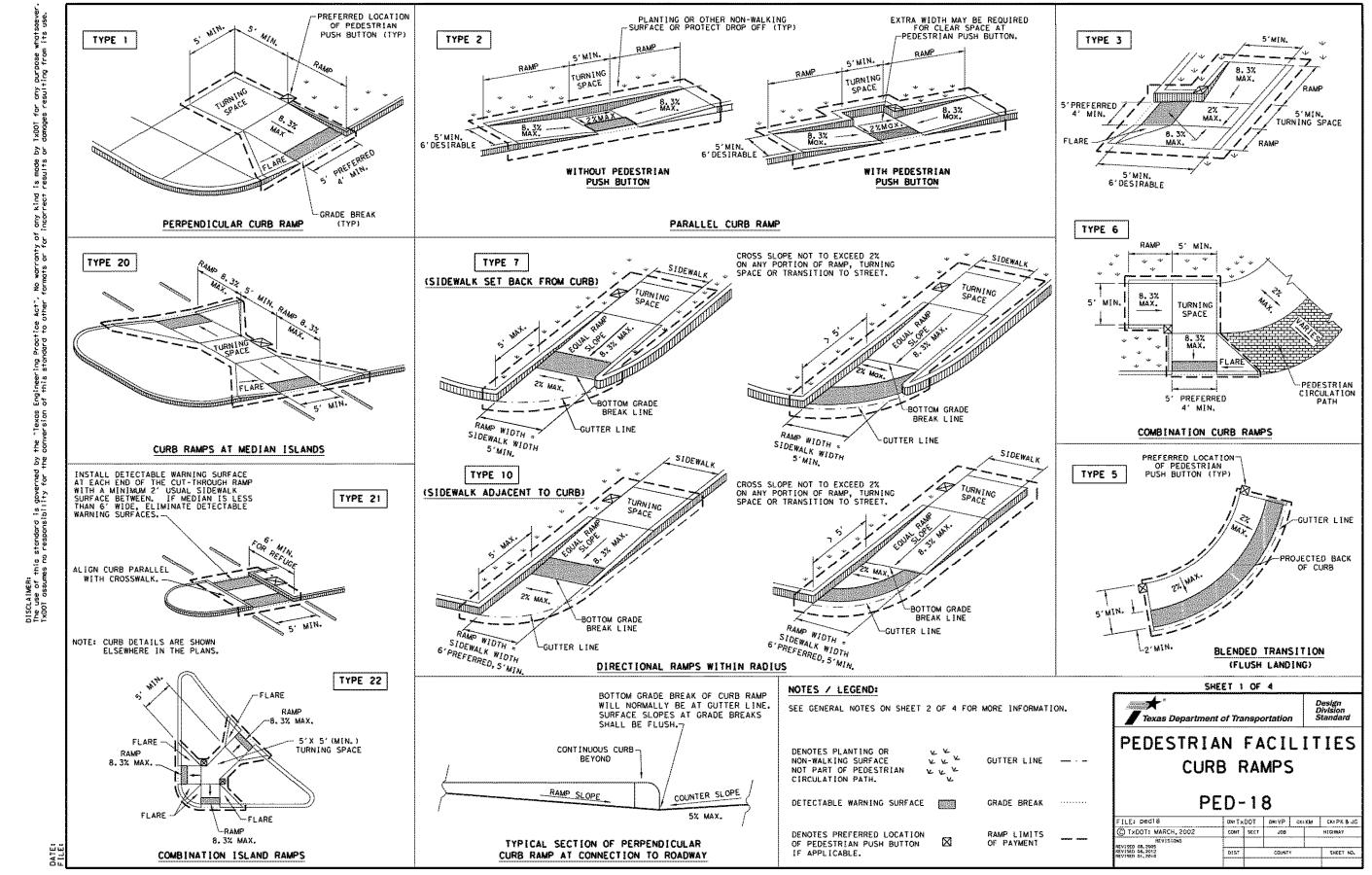


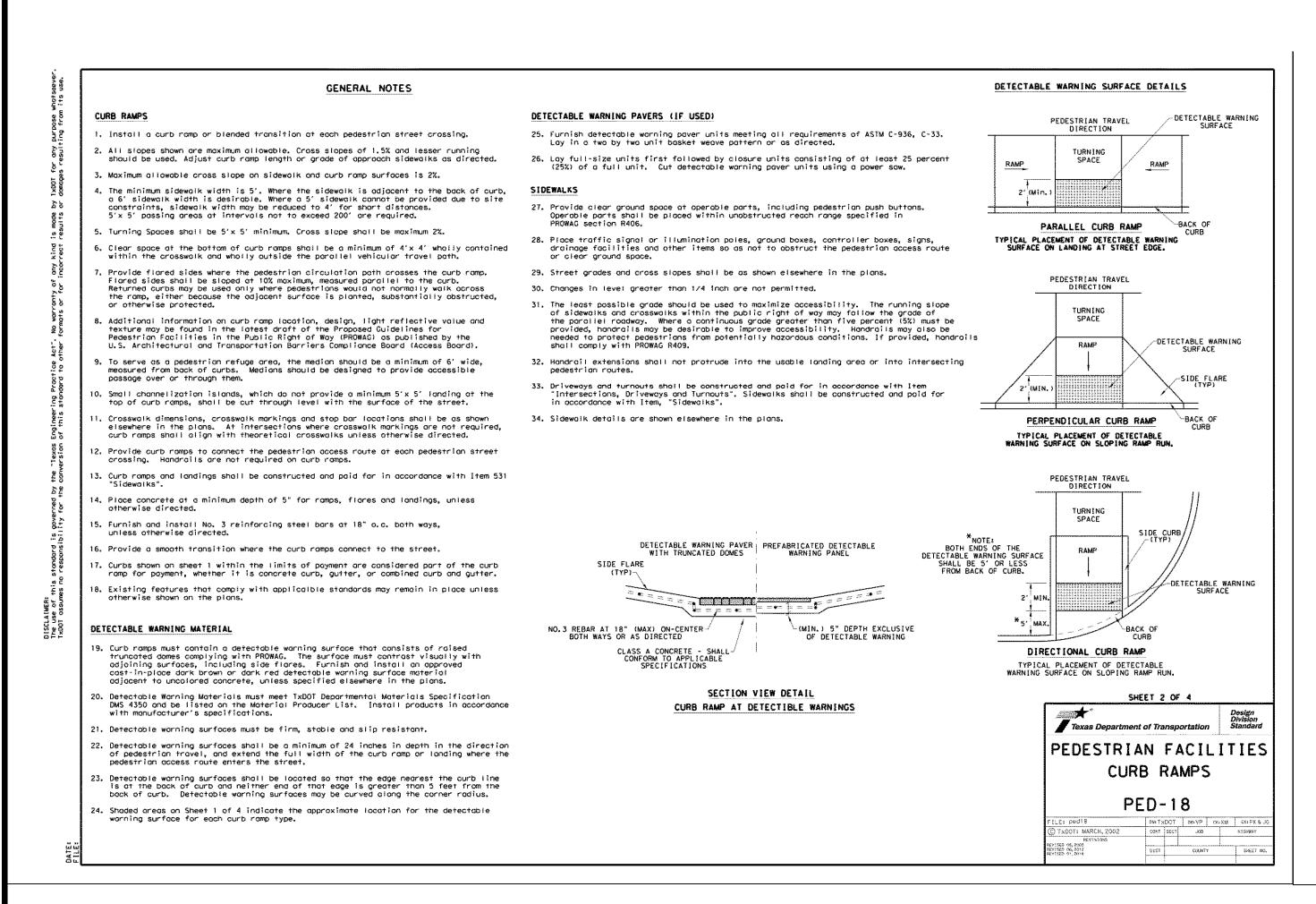
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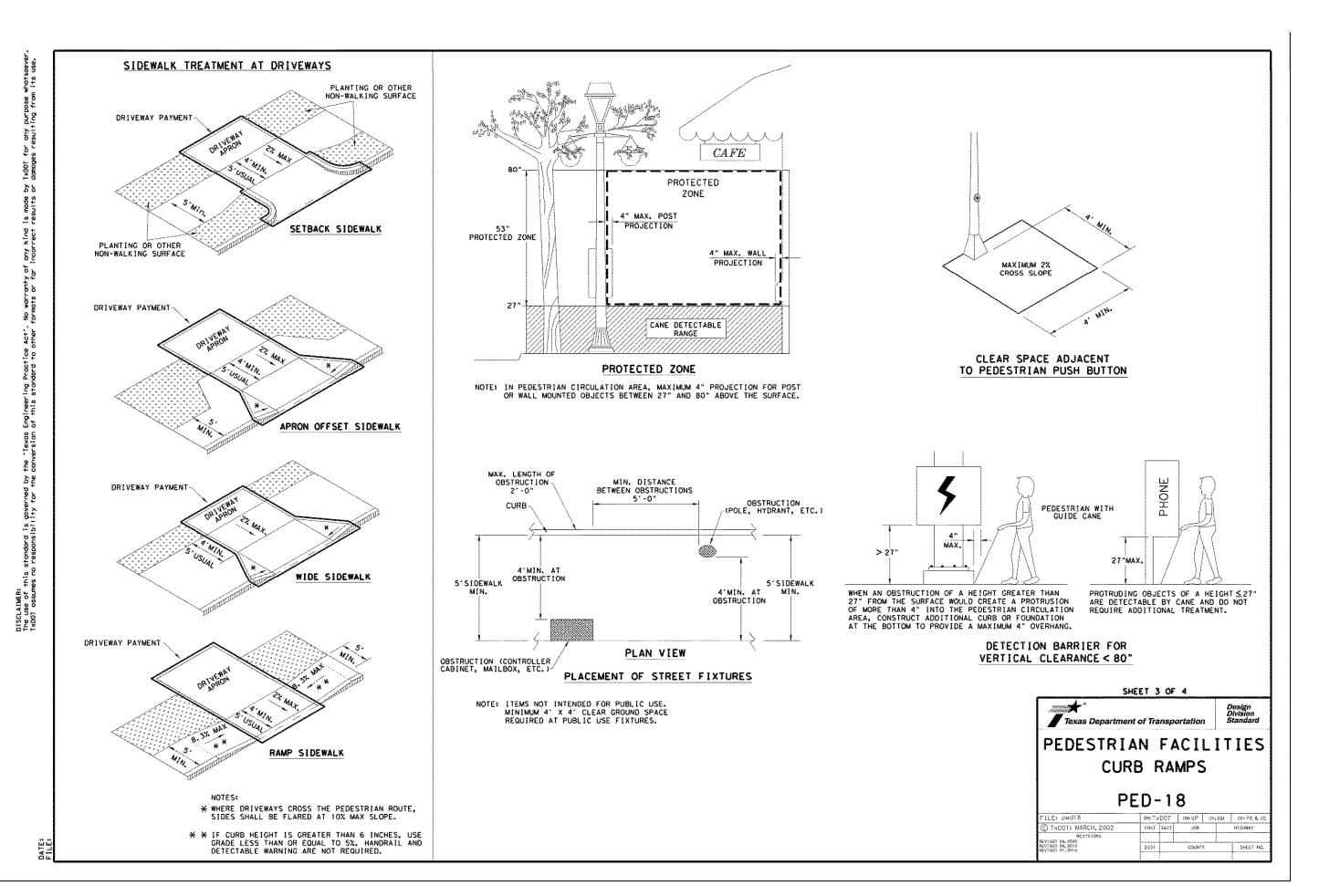
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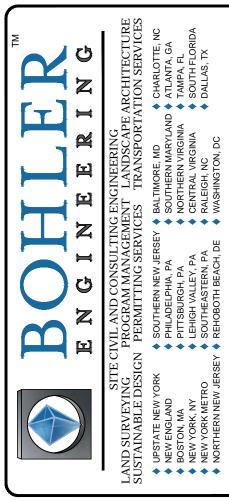


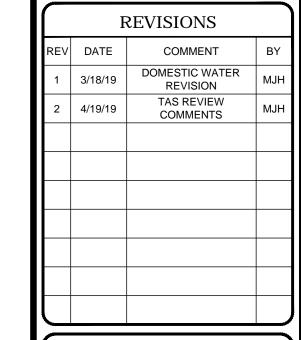




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LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

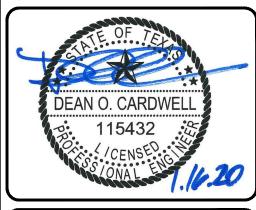
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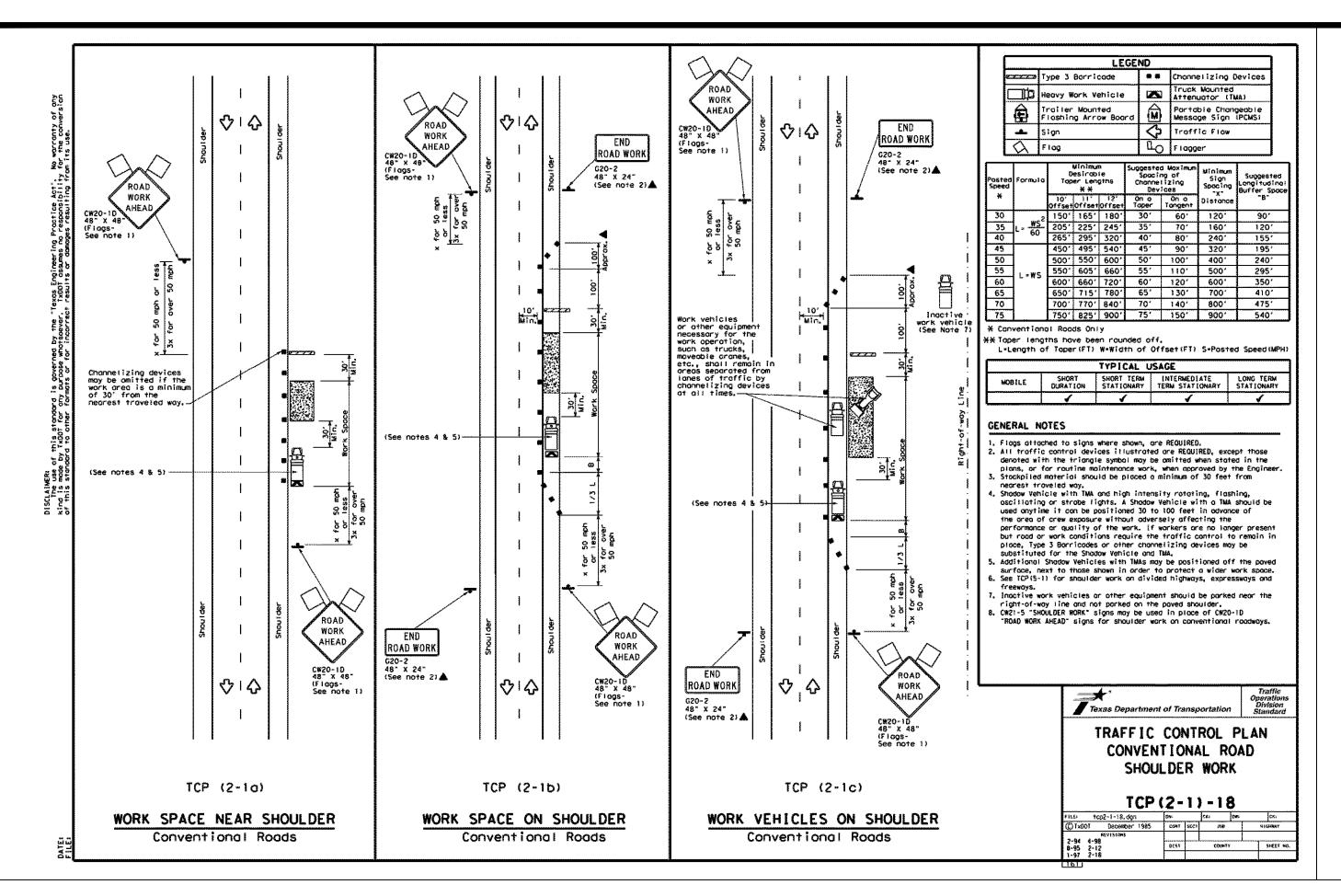
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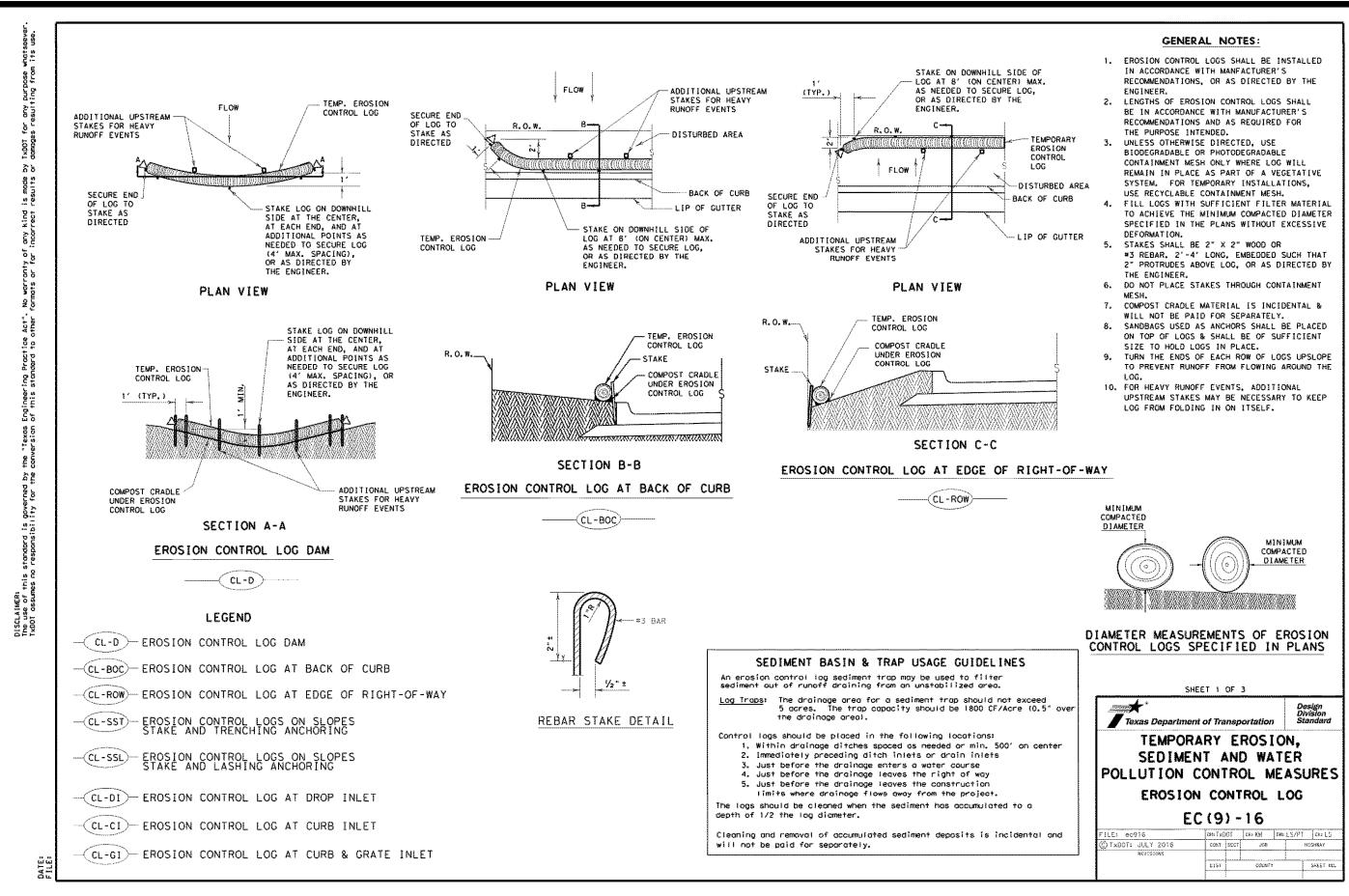


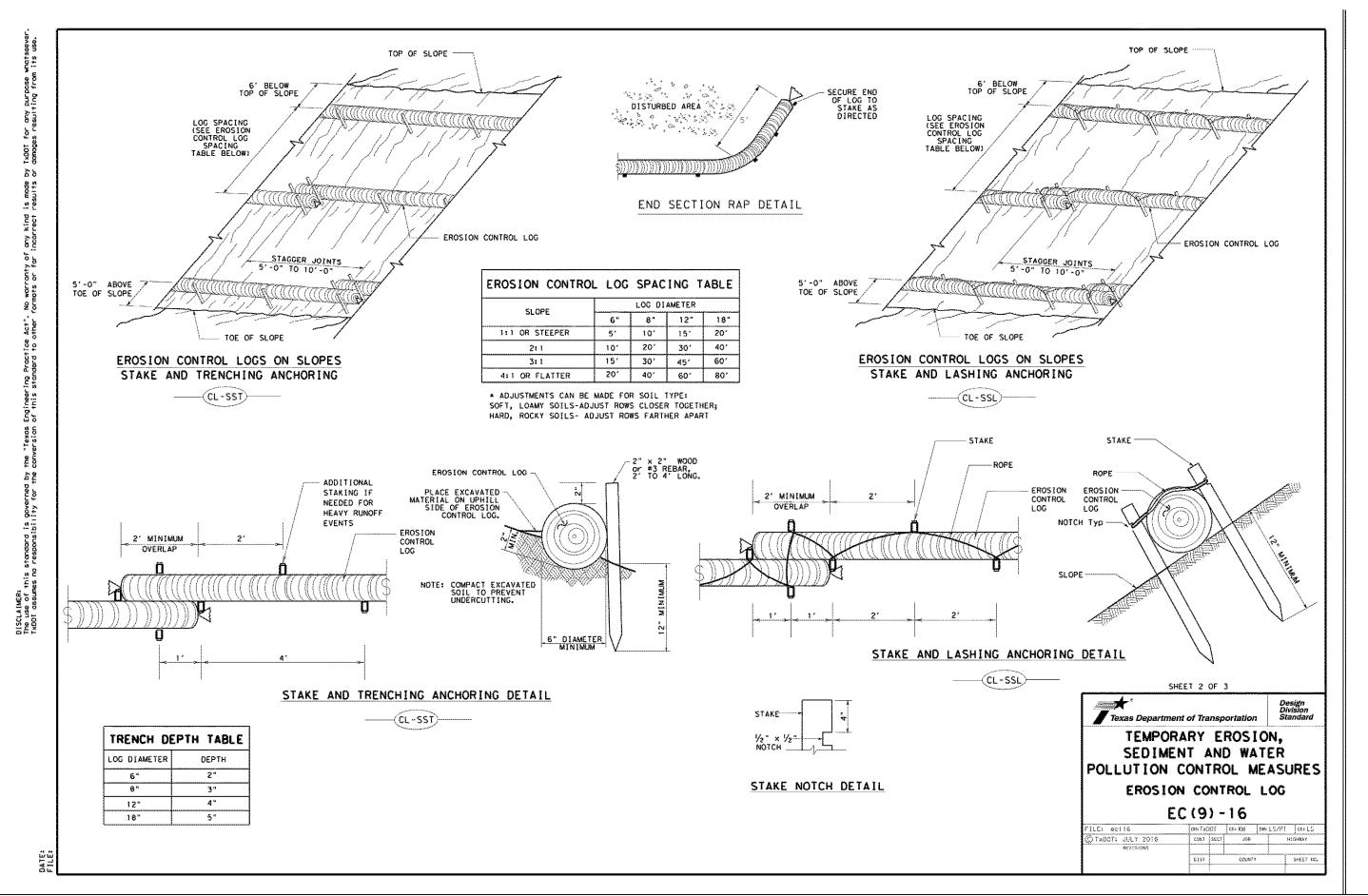
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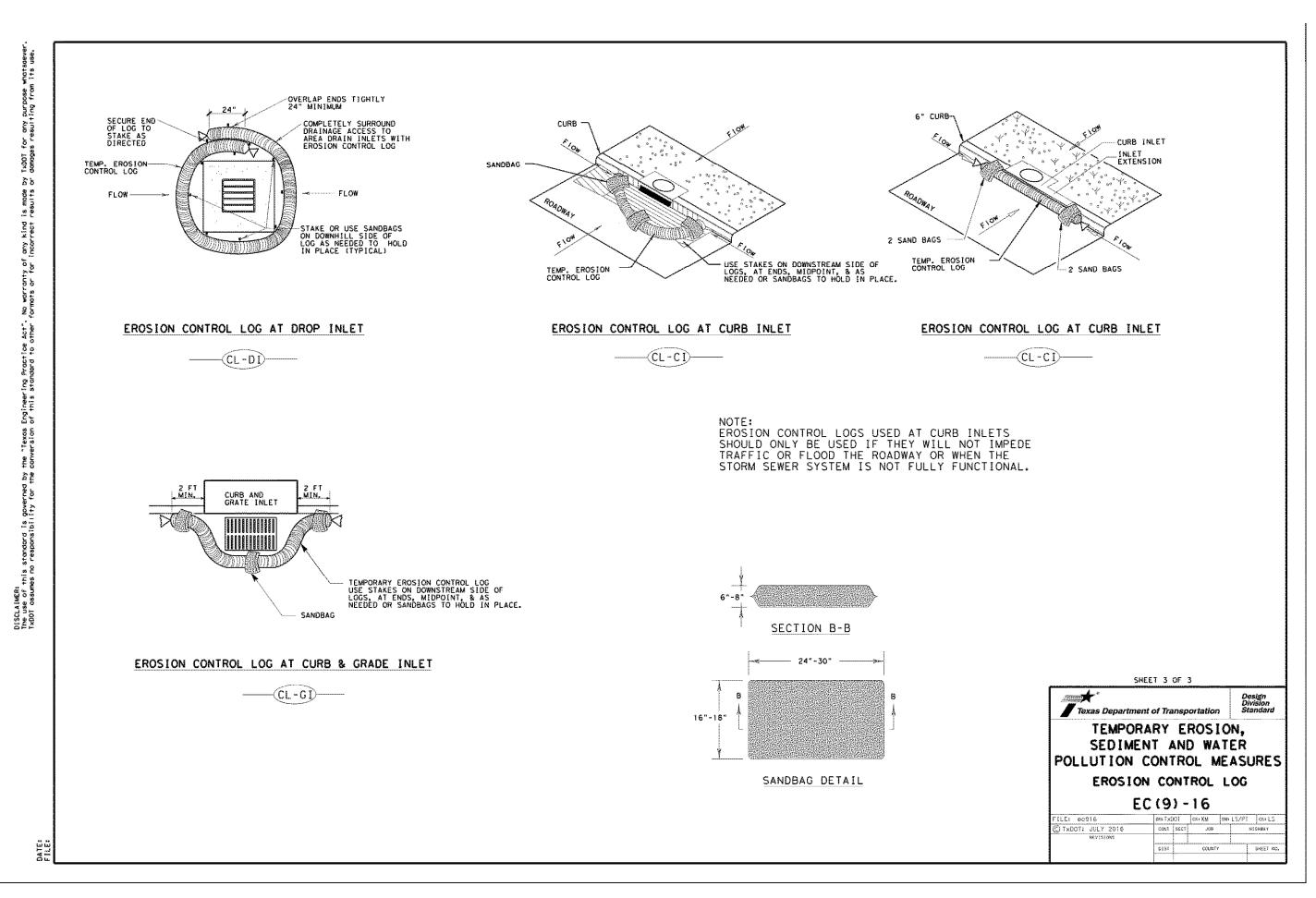
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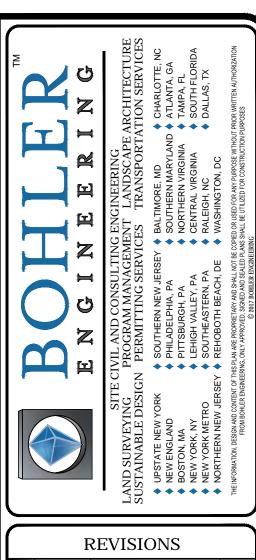


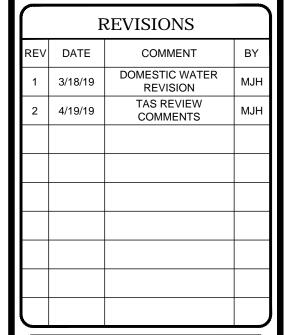




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LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

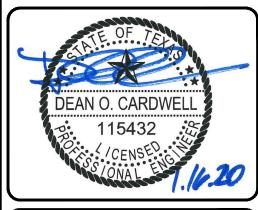
PEOPLES ADDITION NO. 1

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