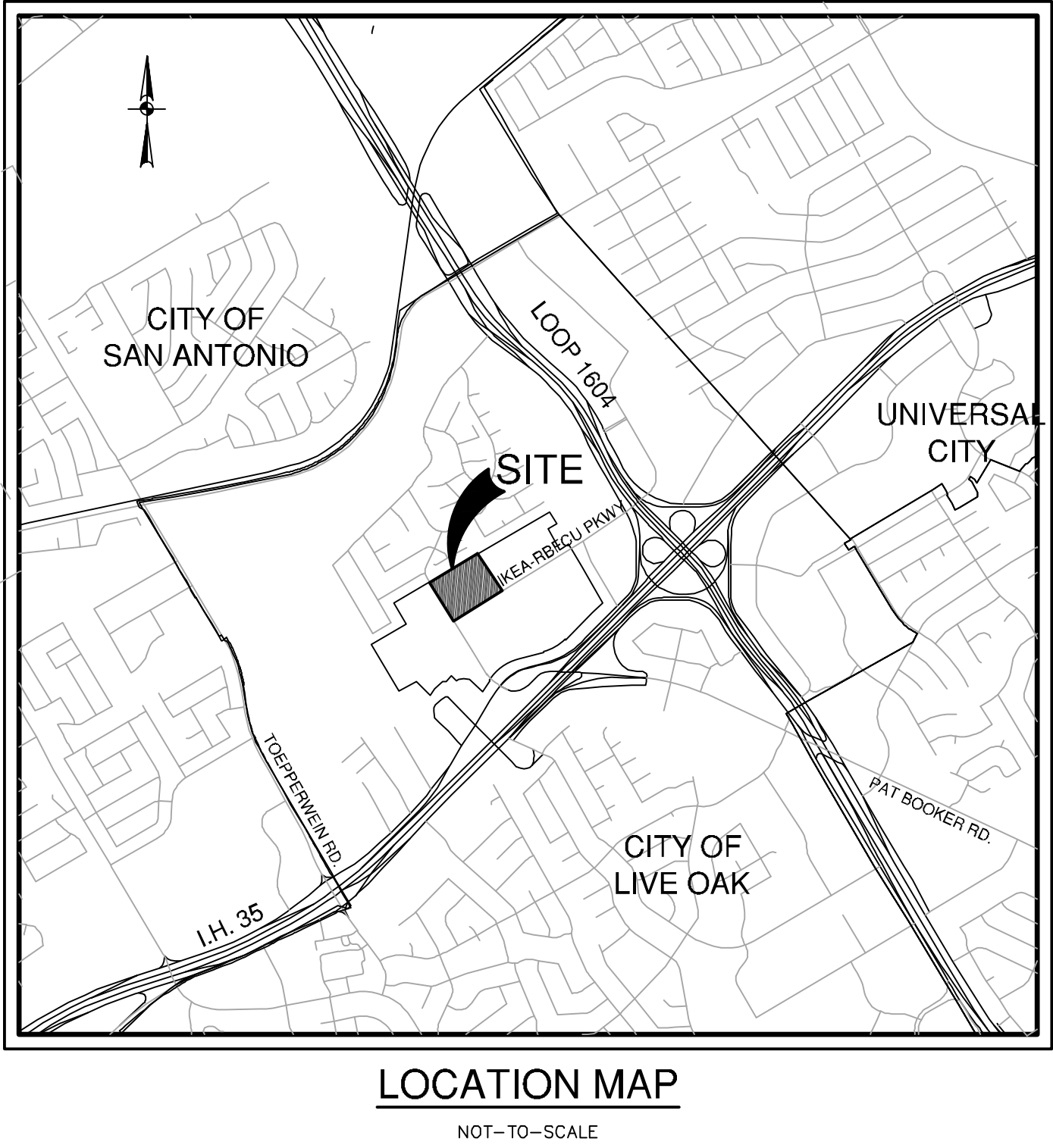


DICKS SPORTING GOODS
LIVE OAK TOWN CENTER
LIVE OAK, TEXAS

CIVIL CONSTRUCTION PLANS



PREPARED FOR:

FOX DESIGN GROUP, LLC
33730 BAINBRIDGE ROAD, 2ND FLOOR
SOLON, OHIO 44139

FEBUARY 2024

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2/19/24

THOMAS MATTHEW CARTER
19272
STATE OF TEXAS
EXPIRES 12/31/25

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LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER: 1359

NO.	ISSUE	DATE

COVER SHEET
SHEET NUMBER:
SHEET C0.00

1. FIRE LANES SHALL HAVE A MINIMUM 2-WAY TRAFFIC WIDTH OF 25 FT. WITH A MINIMUM OUTSIDE TURNING RADIUS OF 50 FT., UNLESS OTHERWISE NOTED.
2. FIRE LANES NEXT TO FIRE HYDRANTS OR DESIGNATED FOR AERIAL APPARATUS SHALL BE A MINIMUM OF 26 FT.
3. FIRE LANES SHALL BE DESIGNATED IN ACCORDANCE TO THE LATEST INTERNATIONAL FIRE CODE AND PER APPLICABLE LOCAL AMENDMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS/APPROVALS BEFORE BEGINNING DEMOLITION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL EXISTING UTILITIES UNLESS OTHERWISE INDICATED. ALL MATERIALS SHALL BE DEMOLISHED AND REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
4. ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE DEMOLISHED SHALL REMAIN ON SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES, POWER POLES TO BE REMOVED AND ALL OTHER UTILITIES TO BE REMOVED. THE CONTRACTOR SHALL TAKE ALL THAT ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO PROTECT ALL UTILITIES TO REMAIN.
6. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND UTILITIES MUST BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF UTILITIES SHOWN ON THE PLANS OR NOT, THROUGHOUT ALL PHASES OF CONSTRUCTION.

11. ALL NECESSARY EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY DEMOLITION OR CONSTRUCTION. EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND IN WORKING CONDITION AT ALL TIMES.
12. CONTRACTOR SHALL CONFORM WITH THE OWNER OR HIS DESIGNATED WHETHER TO SALVAGE AND MAKE ARRANGEMENTS TO STORE TRANSPORTABLE TREES PRIOR TO REMOVAL.
13. FOR TREES SHOWN TO REMAIN, THE CONTRACTOR SHALL INSTALL TREES PROTECTION IN ACCORDANCE WITH THE PROJECT PLANNED AND SPECIFICATIONS. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE ANY TREES WITHOUT A PERMIT TO DO SO.
14. NO PARKING AND/OR STORAGE SHALL BE ALLOWED WITHIN THE DRIVE LANE OF THE PROJECT.
15. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS AT NEW PAVEMENT, CURB AND SIDEWALK JUNCTURES, NOT JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED.
16. THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS, BENCH MARKS, AND EXISTING UTILITY MARKERS. IF ANY OF THE PROPERTY PINS, THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY SUCH POINTS AT THEIR OWN EXPENSE.
17. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR CLEARING THE SITE OF ALL EXISTING OBSTACLES, INCLUDING BUT NOT LIMITED TO THE STUMP OF ANY CONSTRUCTION OR DURING THE CONSTRUCTION SO AS TO NOT IMPED THE BUILDING CONSTRUCTION CONTRACTOR.
18. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO IDENTIFY ANY EXISTING UTILITIES, PIPES, OR CABLES. IF ANY UTILITIES ARE IDENTIFIED AND REUSED, CONTRACTOR SHALL REPLACE AT HIS EXPENSE ANY DESTROYED MATERIAL OR EQUIPMENT THAT WAS MARKED FOR SALVAGE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXISTING MATERIALS OFF-SITE FOLLOWING ALL APPLICABLE DISPOSAL REGULATIONS. ON SITE CONCRETE PROPOSED FOR DEMOLITION MAY BE REUSED FOR CONSTRUCTION OF NEW CONCRETE. REUSE OF REBAR, WIRE MESH AND DEBRIS CAN MEET GEOTECHNICAL SPECIFICATIONS.
20. CONTRACTOR SHALL REMOVE ALL EXISTING IRPPING ON SITE, UNLESS SHOWN OTHERWISE, CUT AND CAP LATERALS AT PROJECT LIMITS TO PROTECT PROPER FUNCTION OF ZONES INTENDED TO REMAIN OR EXTEND OFF-SITE.
21. CONTRACTOR SHALL NOT DEMOLISH ANY PUBLIC WATER OR SANITARY SEWER LINES WITHOUT APPROVAL. EXISTING WATER AND SANITARY SEWER LINES SHALL REMAIN UNTOUCHED. CONTRACTOR SHALL NOT REMOVE OR CUT AND CAP ANY ABANDONED SANITARY SEWER AND WATER SERVICES AT THE EXISTING MAN. NO ABANDONED SERVICES SHALL REMAIN IN PLACE.
22. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
23. ALL WASTE MATERIAL REMAINING AFTER DEMOLITION IS COMPLETE AND REMAINS FROM DEMOLITION OPERATIONS BECOMES THE PROPERTY OF THE CONTRACTOR. APPROPRIATE DISPOSAL OF WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS OWN EXPENSE. OWNER WILL PROVIDE LIST OF ITEMS TO BE SALVAGED.
24. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER.
25. CONTRACTOR SHALL MEET ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR DUST CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE OWN EXPENSE FOR ANY FUGITIVE DUST ADJOINING PROPERTIES.
26. THIS DEMOLITION PLAN HAS BEEN PREPARED TO THE BEST OF OUR ABILITY. THE DATA FOR THIS PLAN WAS OBTAINED FROM VISUAL INSPECTION OF THE DATA SHOWN ON THIS LAYOUT WAS OBTAINED FROM VISUAL FEATURES AT THE SITE AND PUBLIC RECORD MAPS OBTAINED FROM UTILITY COMPANIES.
27. IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED OF THE LOCATION AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION.

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CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR DEPTH OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE INFORMATION PROVIDED BY THE CITY OF CHICAGO AND THE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS A GUARANTEE OF THE LOCATION AND/OR DEPTH OF UTILITIES TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, TELEPHONE, CABLE, RAILROAD, HIGH VOLTAGE SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUTY BANKS, LANDSCAPE IRRIGATION SYSTEMS AND GAS LINES. THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO AND THE UTILITIES AGENCIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO OBTAIN THE LOCATION AND DEPTH OF ALL UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES THAT SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY UTILITIES DAMAGED BY THE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT THE CONTRACTORS SOLE EXPENSE. WHETHER THE UTILITIES SHOWN ON THESE

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK SHALL SPECIFICALLY MEET THE STANDARD SPECIFICATIONS FOR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY OR STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITY AND STORM DRAIN SYSTEMS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL CONDITION AND NOTIFY THE ENGINEER OF ALL EXISTING TREES, BUILT UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PA ITEMS).
4. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
5. ALL PAINT SHALL BE 4" WIDE REFLECTIVE PAINT: WHITE ON ASPHALT PAVING, YELLOW ON CONCRETE. ALL PAINTS SHALL BE APPLIED TO THE SURFACE OF ALL PAVEMENT MARKINGS SHALL RECEIVE TWO COATS OF PAINT.
6. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.
8. ALL SIGNS SHALL CONFORM TO MUTCD, LATEST EDITION.
9. THE CONTRACTOR SHALL SAW CUT EXISTING PAVING, CURB, AND SIDEWALK TO PROVIDE A SMOOTH TRANSITION. NO JAGGED OR IRREGULAR EDGES WILL BE ALLOWED.
10. ALL CURBS SHALL BE 6" HIGH UNLESS OTHERWISE NOTED.
11. ALL STANDARD PERPENDICULAR PARKING STALLS ARE 8' x 18'. AN COMPACT PARKING STALLS ARE 8' x 16' UNLESS DIMENSIONED OTHERWISE.

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR DIMENSIONS OF THE PROJECT.
2. THE CONTRACTOR SHALL PRESERVE ALL CONTROL POINTS, PROPERTY PINS, BENCH MARKS, HUBS OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY SUCH POINTS AT THEIR OWN EXPENSE IF THEY ARE LOST OR DAMAGED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL HORIZONTAL AND VERTICAL CONTROL PER THE CONSTRUCTION DRAWINGS.
5. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL USE THE PROPERTY PINS FOR HORIZONTAL CONTROL POINTS. BENCHMARKS ARE NOT TO BE USED FOR HORIZONTAL CONTROL.
6. ALL DIMENSIONAL CONTROL POINTS OR DIMENSIONS ARE TO THE FACE OF CURB, FACE OF RETAINING WALL, AND CENTER OF PAINT STRIPING. ALL DIMENSIONS ARE PERPENDICULAR TO THE POINT OF REFERENCE.
7. REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONAL CONTROL INFORMATION.
8. CURB RADIUS ARE 3' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.
10. ALL CURBS ARE 6" HIGH, UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING UTILITIES, FENCES, PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, OR SIGNS.
12. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS TO NEW PAVEMENT, CURB AND SIDEWALK JUNCTURES. NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED.
13. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, ALIGNMENT, PLACEMENT, OR DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
14. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS AND CONTRACT INFORMATION.
15. CONCRETE DRIVEWAY SHALL BE CONSTRUCTED TO PROPERTY LINES, UNLESS OTHERWISE NOTED.
16. ALL ISLANDS ARE CURBED UNLESS OTHERWISE NOTED.
17. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL COMPLY WITH THE LATEST EDITIONS OF ALL APPLICABLE CITY OF LVE OAK SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.
19. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES DAMAGED BY THE CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
20. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, ALIGNMENT, PLACEMENT, LIMITS, DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKES, MARKS, ETC.

- WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS & GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS AND TOPSOIL SHALL BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR DIMENSIONS OR GRASSES NECESSARY FOR CONSTRUCTION OF THE PROJECT.
6. ALL GRADES IN AREAS DESIGNATED AS DISABLED PARKING SHALL BE MAINTAINED NO MORE THAN 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
7. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AREAS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, AND APPROVALS NECESSARY TO COMPLETE THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OF THEM. THOSE MATERIALS NOT SUITABLE FOR EMBAKKMENT AND TOPSOIL, CLEAN STRIPPINGS AND TRESPASS MAY BE STOCKPOLED ON SITE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT AREAS.
10. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION AND DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TIDES/SWAPP/VEGETATION REQUIREMENTS. REFERENCE TO LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SLOPE PROTECTANTS, FENCING, ETC.) TO PREVENT WASHING OUT OF ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SLOPES/DRIVEWAYS OFFSITE OR INTO EXISTING STORM DRAINAGE SYSTEMS. SLOPES/DRIVEWAYS SHALL BE REVEGETATED.
12. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAID ITEMS).
14. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO ANY WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITIES AND UTILITIES COMPANIES AND ASSESS HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND DEPTED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITIES CONFLICTS ARE DISCOVERED.
15. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
16. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AT THE GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
17. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A REQUIRED PERMIT.







1. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 P.S.I. AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20" JOINT CENTERED AT WATER MAIN.
2. NO VERTICAL STACKS SHALL BE ALLOWED.
3. WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN LESS THAN 9' FT. OF SEPARATION, SEWER MAIN SHALL BE INSTALLED W/ 160 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH CITY OF LEEVING C&C CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS THE VICINITY OF WATER MAINS.
4. ALL SEWER PIPES SHALL BE PVC (SDR 26), UNLESS OTHERWISE NOTED.
5. PRIOR TO CONSTRUCTION CONTRACTOR IS TO VERIFY EXISTING INVERT AT EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY IF ANY DIFFERENCE FROM INVERT SHOWN ON PLANS.
6. CONTOURS SHOWN ARE FOR GRAPHICAL USE ONLY.
7. MANHOLE OPENINGS ARE 30" AS PER TCEO CHAPTER 217.55.
8. ALL 6" SEWER LATERALS WILL BE SET AT A MINIMUM 2% SLOPE.
9. BACKFILL MUST COMPLY WITH CITY OF LEEVING C&C SPECIFICATIONS.
10. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE 0.50 FEET ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS WITH WATER TIGHT LIDS.

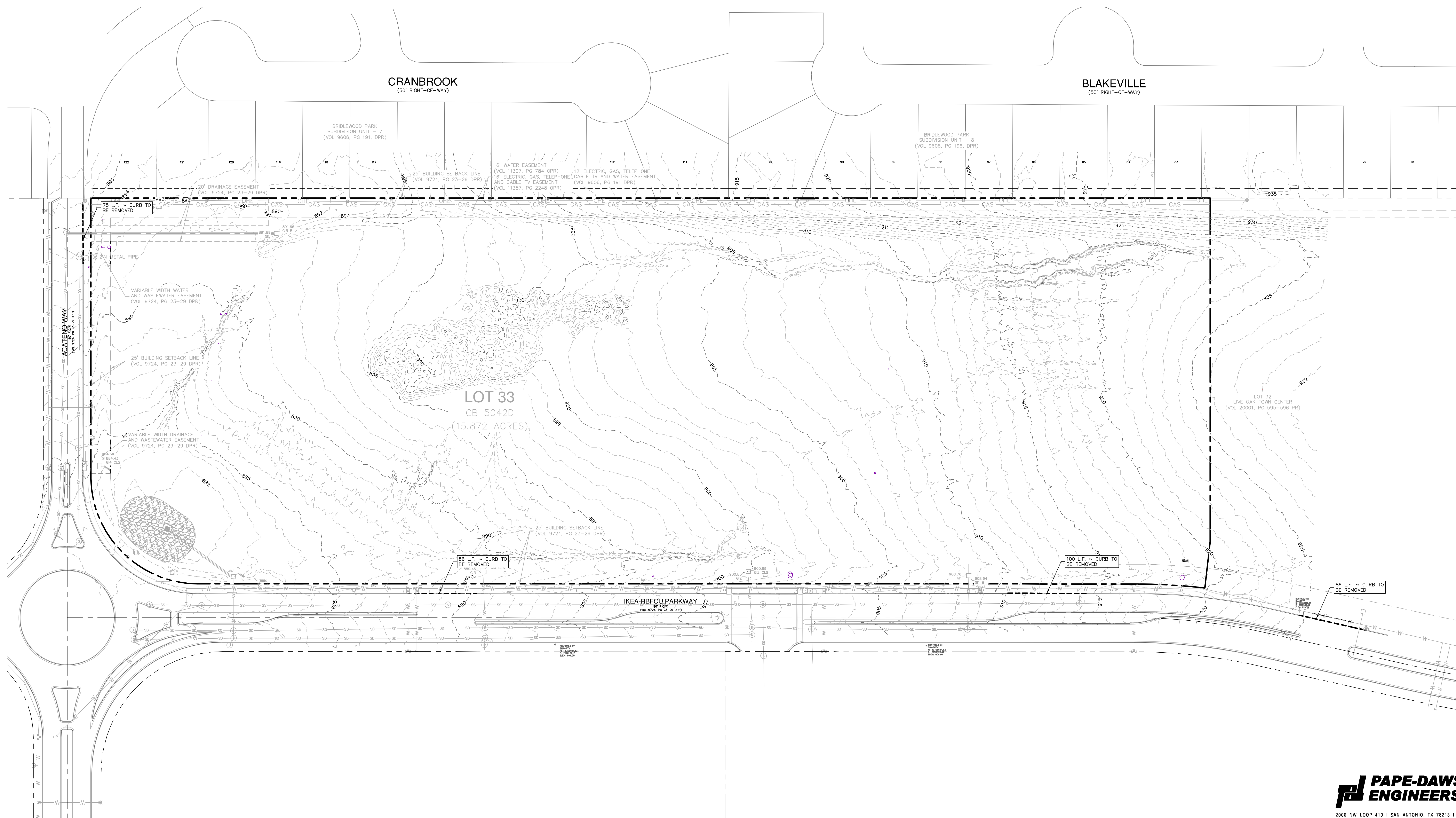
1. SYSTEM WITHIN THE SCOPE OF THIS CONTRACT SHALL CONFORM TO ALL APPLICABLE CITY OF LIVE OAK CONSTRUCTION SPECIFICATIONS.
2. MACHINE CONSTRUCTION SHALL BE BY THE CONTRACTOR ACCORDING TO THE SERVICE PROVIDER'S CONSTRUCTION SPECIFICATIONS.
3. ALL WATER LINES SHALL BE FOUR-FOOT (4') BURY UNLESS OTHERWISE NOTED.
4. ALL WATER LINES SHALL BE PVC PIPE UNLESS OTHERWISE INDICATED. ALL 4" - 8" I.D. PVC WATER LINES SHALL BE CLASS 150 (DR18), MEETING AWWA C900 STANDARDS. ALL SERVICES 4" INCH AND SMALLER SHALL BE SCHEDULE 80 PVC PIPE. ALL SERVICES 8" AND LARGER SHALL BE SCHEDULE 40 PIPE.
5. ALL WATER LINES MUST BE INSTALLED A MINIMUM DISTANCE OF 9'-0" HORIZONTALLY FROM SANITARY SEWER MAINS AND LATERALS. ALL VERTICAL CROSSINGS MUST CONFORM TO TCEC, 30 TAC, CHAPTER 290, SEPARATION OF SANITARY AND WATER LINES. ALL WATER LINES SHALL BE INSTALLED AT LEAST 18" ABOVE SANITARY SEWER LINES.
6. THE CONTRACTOR SHALL PERFORM A HYDROSTATIC TEST ON THE FIRE LINE. THE CONTRACTOR SHALL SUBMIT RECORDS OF THE HYDROSTATIC TEST SHALL FOLLOW THE PROCEDURE LISTED IN THE LOCAL FIRE CODE.
7. ALL OTHER LINES SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR PER LOCAL JURISDICTIONAL REQUIREMENTS.
8. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL FITTING-TO-FITTING DIMENSIONS, TYPES, AND MANUFACTURER OF MATERIALS USED AND LOCATIONS FOR ALL VALVES, BENDS, ETC.
9. THE SITE SHALL BE EXCAVATED OR FILLED TO SUBGRADE PRIOR TO THE CONSTRUCTION OF WATER AND FIRE LINES BY THE CONTRACTOR.
10. ALL SERVICES SHALL BE BROUGHT TO WITHIN 5 FEET OF THE BUILDING FOOTPRINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ALL SERVICES TO THE BUILDING.
11. REFER TO PLUMBING PLAN FOR LOCATION OF ALL WATER SERVICES TO BUILDING.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR THE PROJECT INDICATED ON THE PLANS IF AS NEEDED AT NO ADDITIONAL PAYMENT.
13. CONTRACTOR SHALL PROVIDE TEMPORARY BLOWOFFS AS REQUIRED TO FACILITATE FLUSHING THE LINES AFTER THE TESTING AND DISINFECTION PROCESS.
14. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE: 6" GATE VALVE, 6" GATE VALVE, 4" VALVE, ANCHOR BEND, 4" DUCTILE IRON PIPE, REQUIRED TO COMPLETE INSTALLATION, (DUCTILE IRON PIPE SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
15. ALL FITTINGS SHALL BE MECHANICAL JOINT.
16. CONTRACTOR MUST BE AN APPROVED CITY OF LIVE OAK AND APPROVED FIGHTING CONTRACTOR.
17. ALL PIPE DIMENSIONS ARE APPROXIMATE ONLY.
18. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COMPLETING AND COORDINATING ALL NECESSARY TESTS.
19. TRUNK BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND VALVES AS INDICATED ON THE ATTACHED WATER DISTRIBUTION SYSTEM DETAIL SHEET.
20. ALL FPC STANDPIPE SHALL HAVE A 4" LINE CONNECTING TO FIRE DISTRIBUTION SYSTEM OF EACH BUILDING. CONTRACTOR SHALL VERIFY SIZE OF STANDPIPE AND 4" LINE WITH THE CITY OF LIVE OAK FIRE DEPARTMENT AND CIVIL ENGINEER. PIPE SHALL BE NOTIFIED IMMEDIATELY. CONTRACTOR SHALL NOTIFY ALL MEP PLANS FOR DETAILS OF CONNECTION AND ALIGNMENT TO LINE.

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXIST LOCATIONS OF UTILITIES AND THE DEPTHS OF THE UTILITIES. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES NOT SHOWN ON THE PLANS OR NOT TO BE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
2. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD WHETHER SHOWN ON THIS PLAN OR NOT. ANY NEED FOR REPAIRS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES
4. CONTRACTOR SHALL CALL FOR THE LOCAL JURISDICTIONAL INSPECTIONS AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL JURISDICTIONAL AGENCIES REGARDING TO MATERIALS AND INSTALLATION OF THE UTILITIES AND STORM DRAINS.
6. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
7. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. CURRENT "CITY OF LIVE OAK STANDARD SPECIFICATION FOR CONSTRUCTION"
 - B. LOCAL "CITY OF LIVE OAK UTILITY SERVICE REGULATIONS"
 - C. CURRENT CITY OF LIVE OAK "STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION"
 - D. CURRENT "AASHTO STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRAINAGE"
 - E. CURRENT CITY OF LIVE OAK "RIGHT-OF-WAY ORDINANCE AND CONSTRUCTION MANUAL"
8. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
9. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
10. CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, PAVING, UTILITIES, AND OTHER STRUCTURES SCHEDULED TO REMAIN. ANY STRUCTURE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
11. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL FINAL UTILITY AS-BUILT MEASUREMENTS, TOPS AND LENGTH OF SERVICE CONNECTIONS OF THE PROJECT.
12. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR AT HIS SOLE EXPENSE.
13. GAS AND ELECTRIC INSTALLATIONS SHOWN ON THIS DRAWING ARE CONCEPTUAL. THE ACTUAL DESIGN AND LOCATION'S SHALL BE DETERMINED BY THE LOCAL SERVICE PROVIDER OR MEP ENGINEER.
14. CONTRACTOR SHALL COORDINATE ELECTRIC AND GAS LINE INSTALLATION WITH LOCAL SERVICE PROVIDERS. THE LOCAL SERVICE PROVIDER WILL BE RESPONSIBLE FOR INSTALLATION OF GAS LINE TO WITHIN 5' OF BUILDING.
15. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
16. SEE IRRIGATION AND ARCHITECTURAL PLANS FOR ADDITIONAL CONDUIT LOCATIONS. VERIFY ALL CONDUIT AND SLEEVE LOCATIONS PRIOR TO PLACING ANY CONCRETE.
17. CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A MINIMUM 4'-FOOT SWEEPING RADIUS. ALL CONDUITS SHALL HAVE A PULL STRING TO BE INSTALLED BY THE CONTRACTOR.
18. NO WORK SHALL BE ALLOWED WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT AN APPROVED PERMIT.
19. THE CONSTRUCTION OF UNDERGROUND PRIMARY ELECTRIC AND GAS DISTRIBUTION SYSTEMS SHALL BE GOVERNED BY THE ENGINEERING CONSTRUCTION PLANS PREPARED BY THE LOCAL SERVICE PROVIDER. THIS SHALL BE THE FINAL DESIGN AND CONSTRUCTION DOCUMENT TO COORDINATE THE LOCATION OF THE PROPOSED PRIMARY ELECTRIC AND GAS DISTRIBUTION SYSTEMS. THE LOCAL SERVICE PROVIDER'S CONSTRUCTION DRAWINGS AND CONSTRUCTION DETAILS SHALL GOVERN.

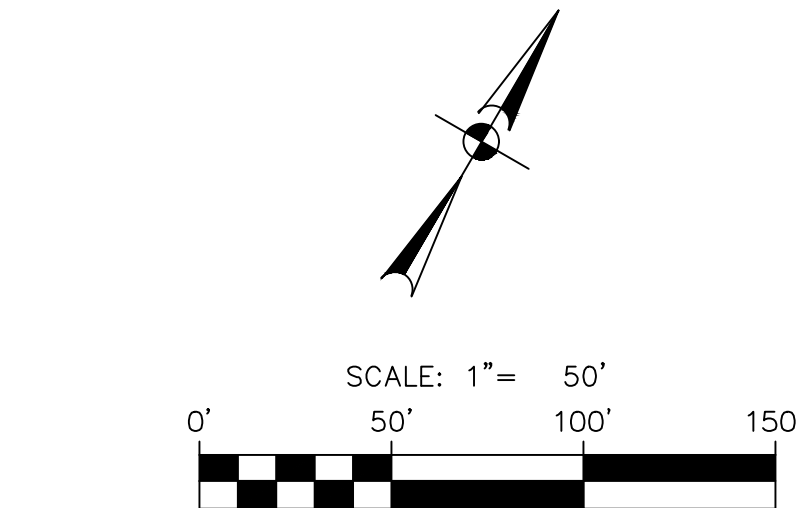
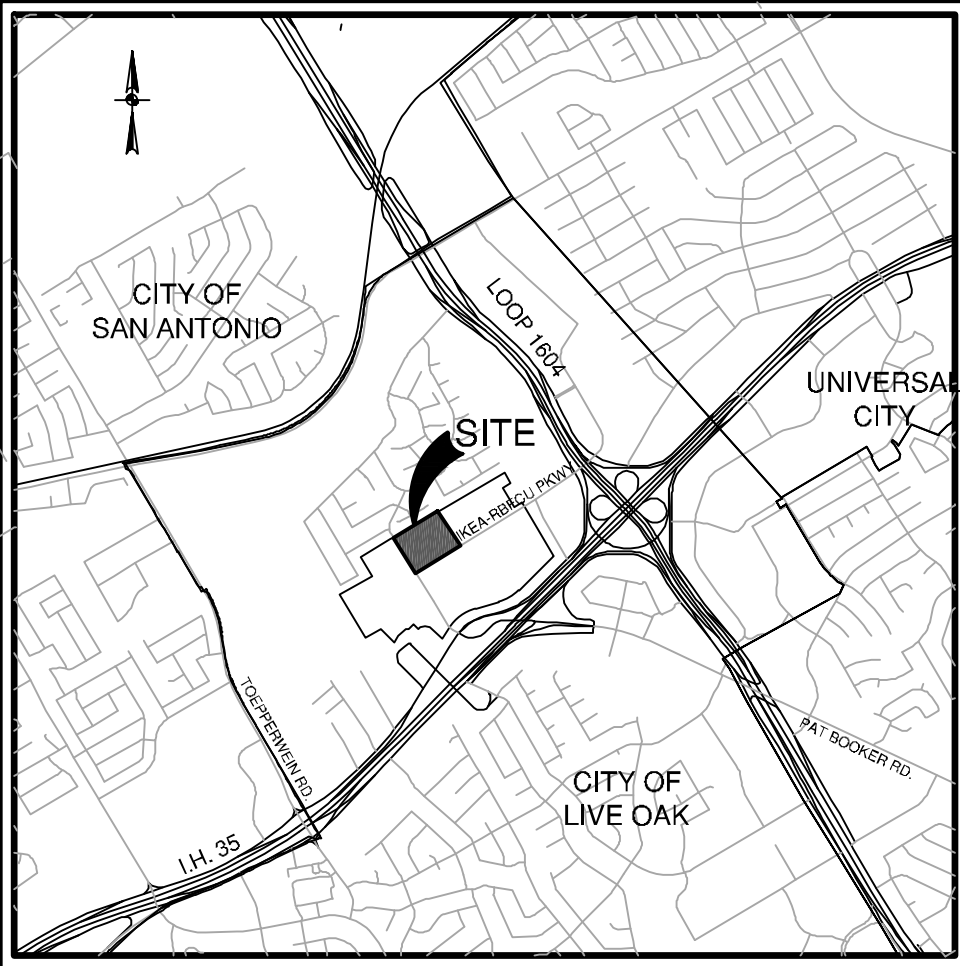
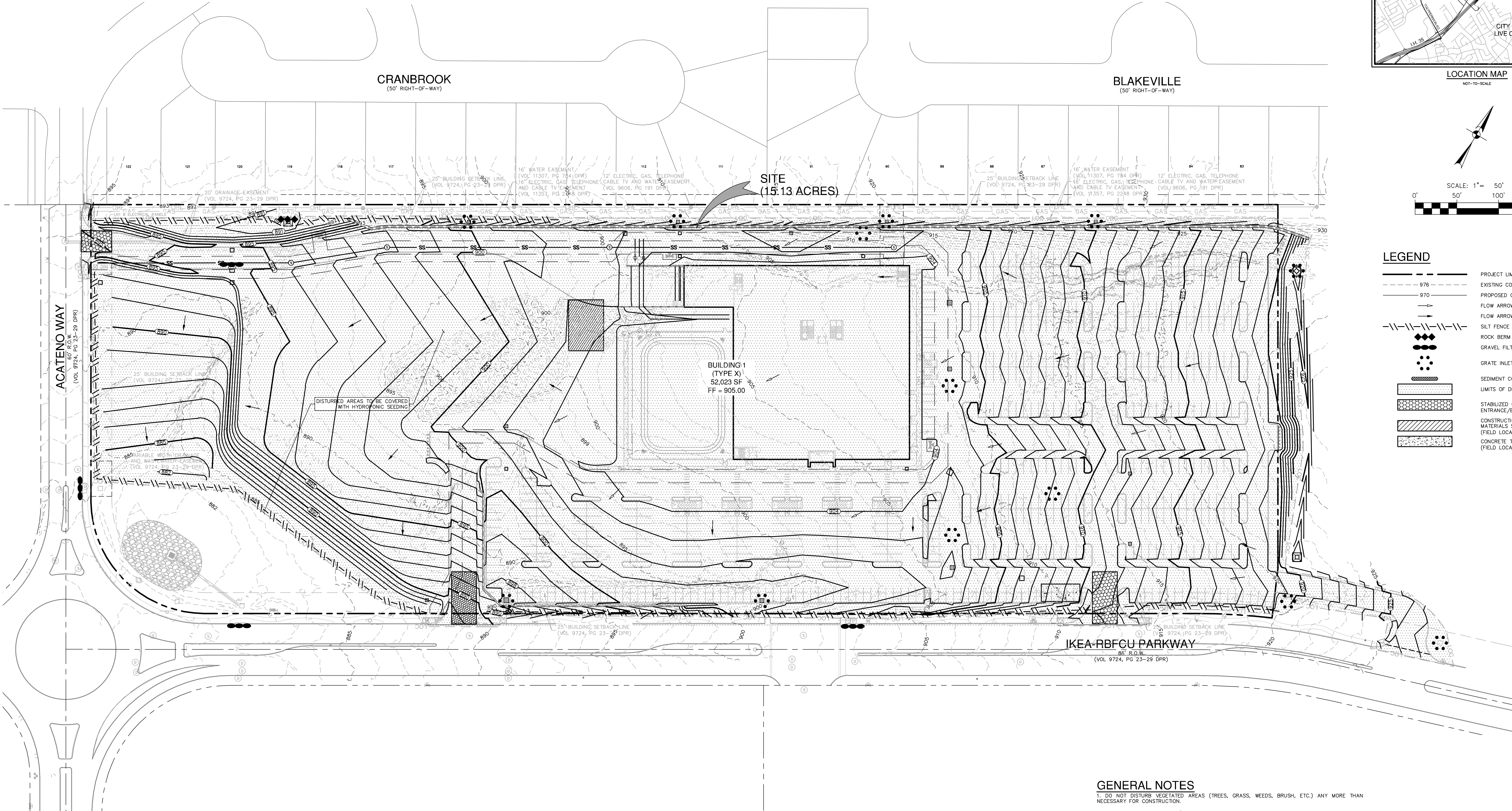
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRENCH EXCAVATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE SPECIFICATIONS. CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM THE REQUIREMENTS OF THE OSHA 1926 SUBPART P. CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF THE OSHA 1926 SUBPART P. ACTIVITIES OF ALL INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



PROPERTY BOUNDARY	
— GAS —	EXISTING GAS LINE
— SS —	EXISTING SANITARY SEWER LINE
— SD —	EXISTING STORM DRAIN
— CHE —	EXISTING OVERHEAD ELECTRIC LINE
— W —	EXISTING WATER LINE
— COMM —	EXISTING COMMUNICATIONS LINE
— UFO —	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING SIGN
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM DRAIN MANHOLE
	EXISTING UTILITY POLE
	EXISTING WATER METER



SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION



LEGEND	
	PROJECT LIMITS
	EXISTING CONTOUR
	PROPOSED CONTOUR
	FLOW ARROW (EXISTING)
	FLOW ARROW (PROPOSED)
	SILT FENCE
	ROCK BERM
	GRAVEL FILTER BAGS
	GRATE INLET PROTECTION
	SEDIMENT CONTROL ROLLS
	LIMITS OF DISTURBED AREA
	STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)
	CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)
	CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

- GENERAL NOTES**
- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
 - CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
 - STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
 - RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
 - ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
 - FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
 - STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
 - AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
 - BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
 - BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
 - UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
 - WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
 - SHADE AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

EXHIBIT 2

PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

2/19/24

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FOX DESIGN GROUP

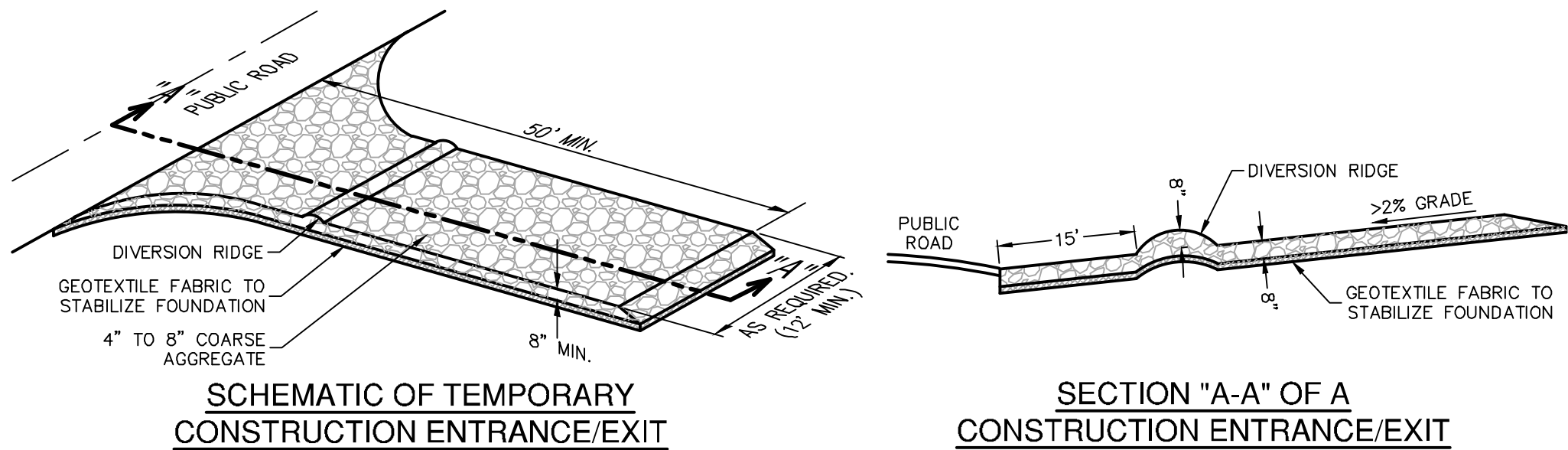
FOX DESIGN GROUP, LLC
5070 BALDWIN ROAD, SUITE 200
SAN ANTONIO, TEXAS 78238
www.foxdesigngroup.net

DICK'S SPORTING GOODS

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER: 1359
NO. ISSUE DATE

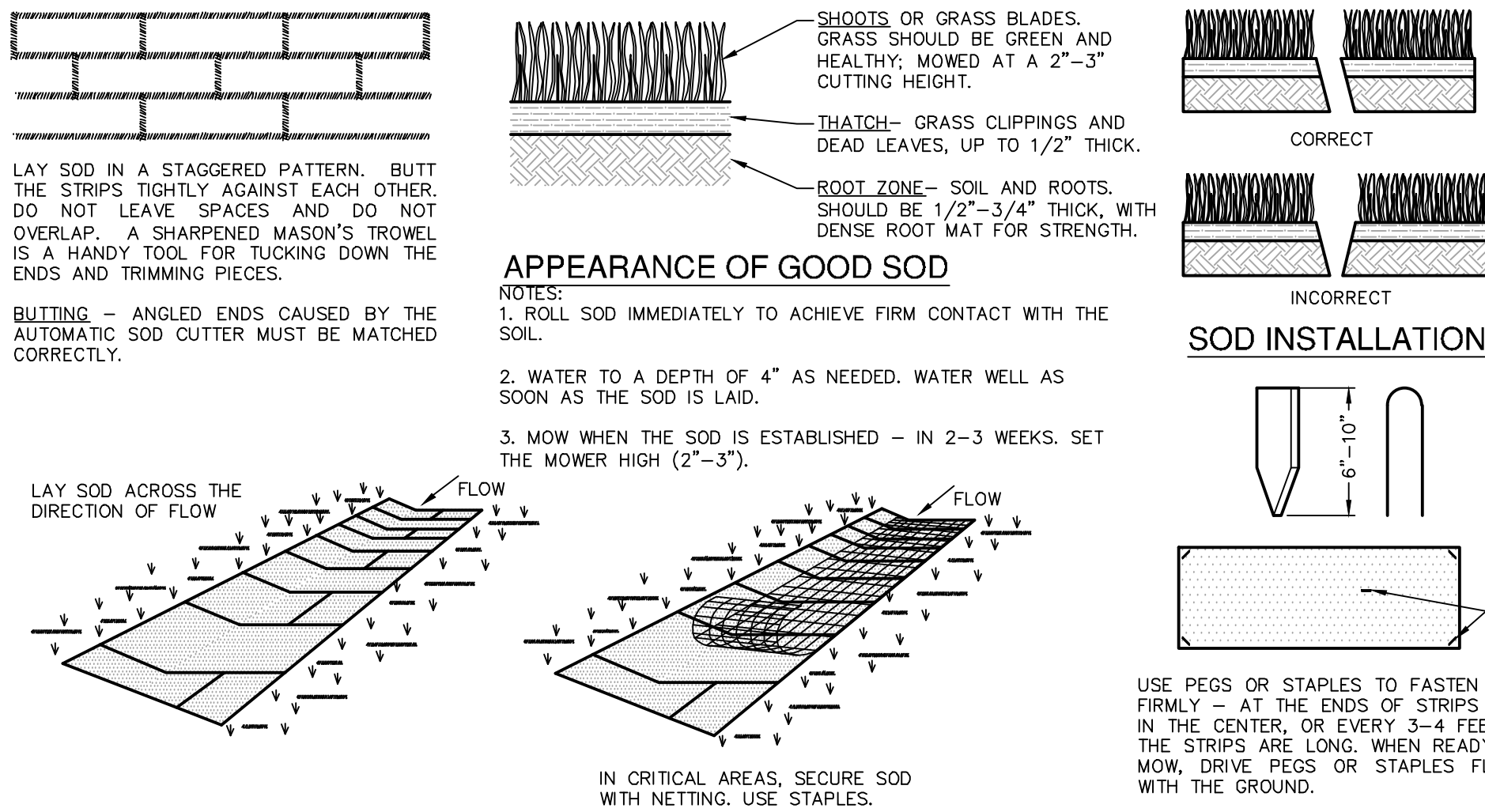
STORM WATER POLLUTION PREVENTION PLAN
SHEET NUMBER:
C0.20



- MATERIALS**
1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.
 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD², A MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
 4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.
- INSTALLATION**
1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
 2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
 6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
 8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE



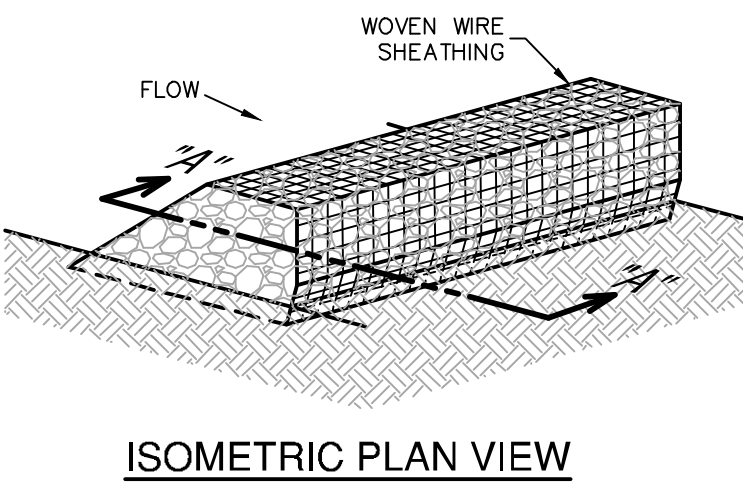
- MATERIALS**
1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND TRATCH.
 2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5% TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.
 3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
- SITE PREPARATION**
1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
 2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
 3. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).
2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. WIRE MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

SOD INSTALLATION DETAIL

NOT-TO-SCALE



ISOMETRIC PLAN VIEW

ROCK BERMS

THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE. AS SUCH, ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING BED LOAD IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

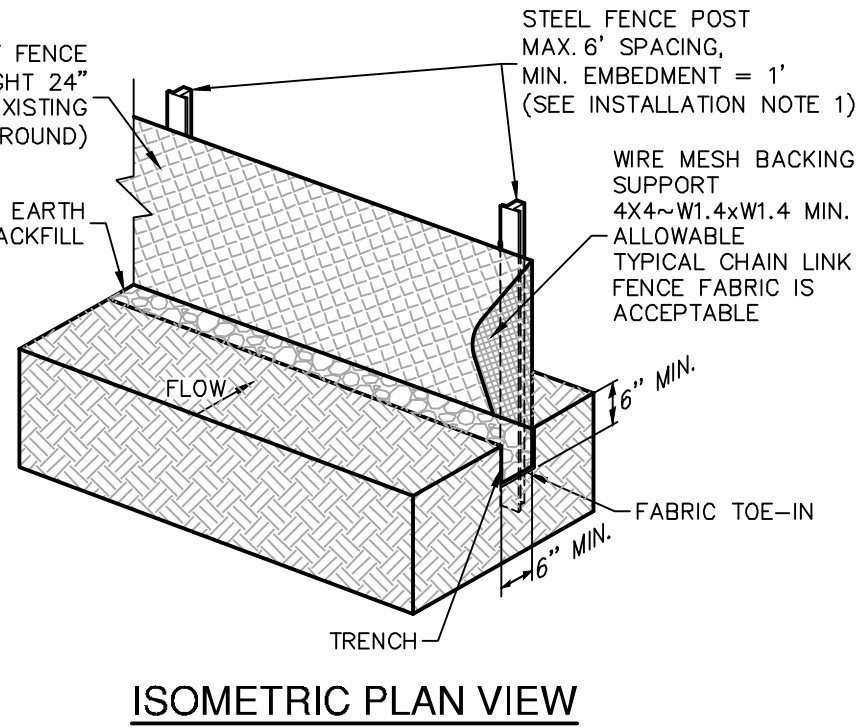
1. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.
2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.
3. REPAIR ANY LOOSE WIRE SHEATHING.
4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
5. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

MATERIALS

1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF .20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOOT RINGS.
2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 3-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED.

ROCK BERM DETAIL

NOT-TO-SCALE



ISOMETRIC PLAN VIEW

SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCES SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL AND DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGEWAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

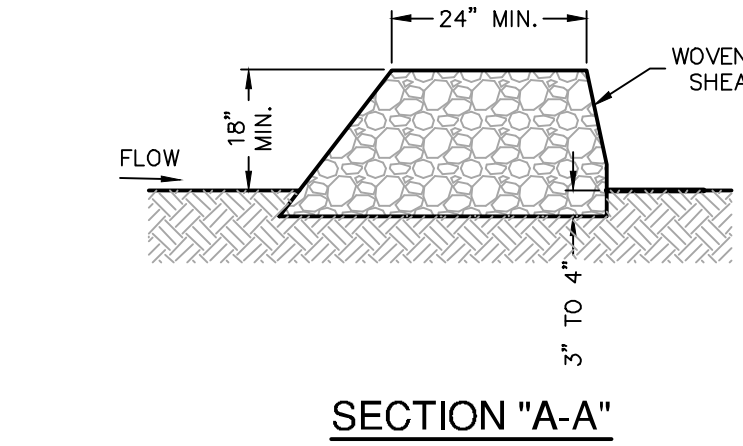
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD², MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF COURSE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER, WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.
3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (ON PAVEMENT OR ROCK OUTCROPS), HEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

SILT FENCE DETAIL

NOT-TO-SCALE



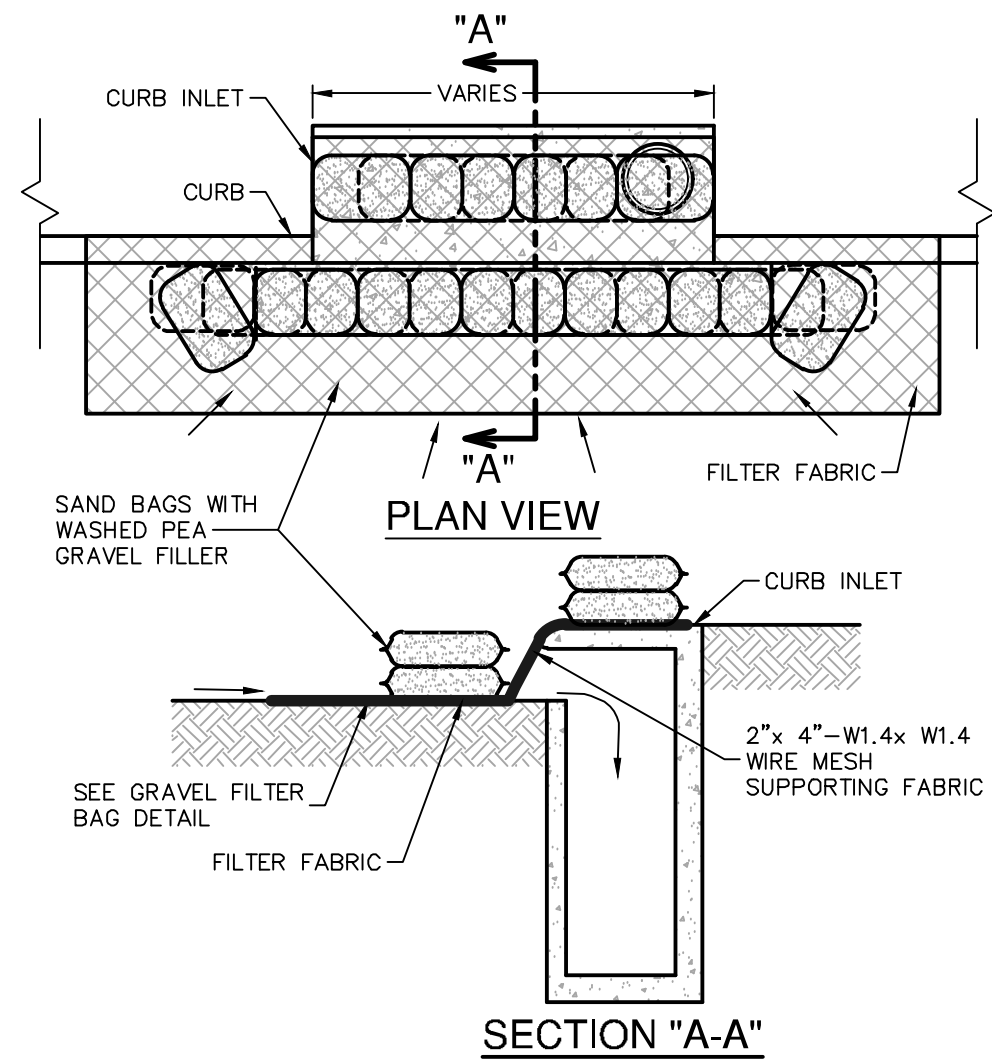
SECTION "A-A"

INSTALLATION

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.
2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".
4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WASHED UPON.
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTOUR.

COMMON TROUBLE POINTS

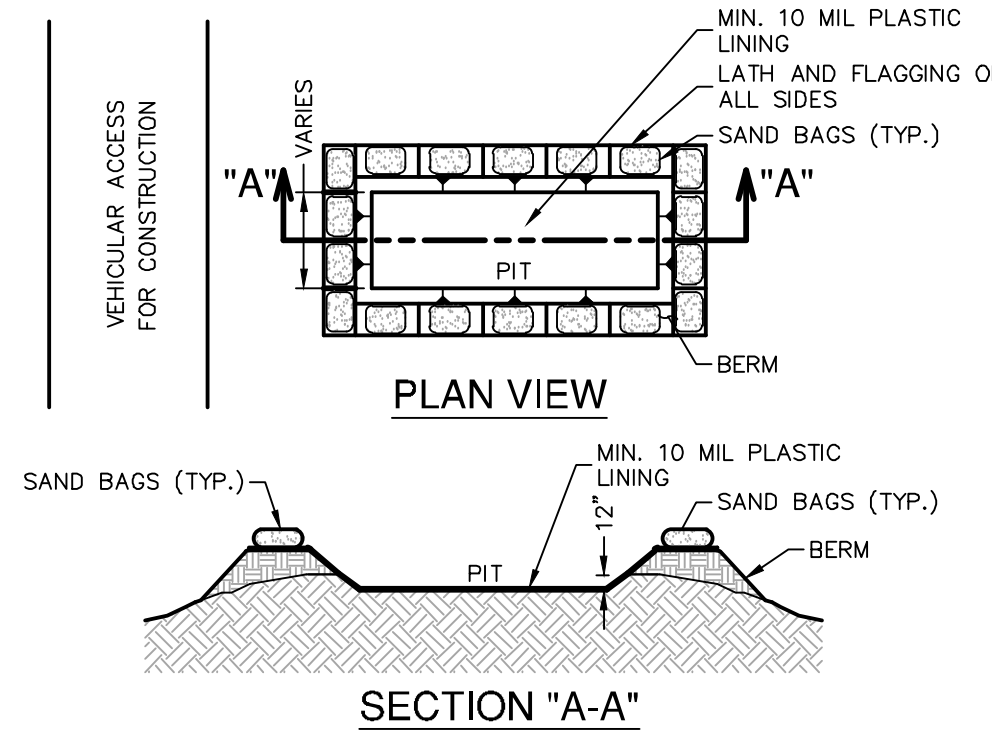
1. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).
2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).



- GENERAL NOTES**
1. CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS.
 2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
 3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
 4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.
 5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



- GENERAL NOTES**
1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
 2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
 3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.
 4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.
 5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

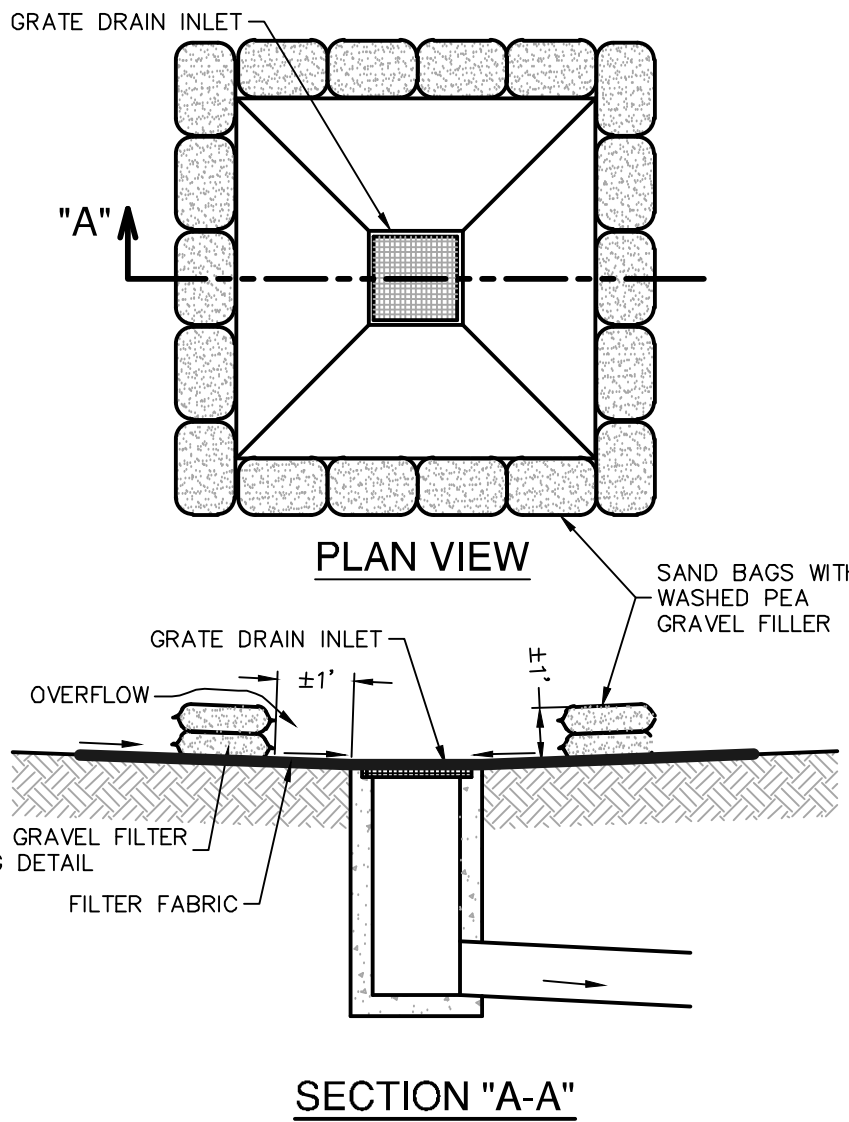
PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

MAINTENANCE

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.
2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

CONCRETE TRUCK WASHOUT PIT DETAIL

NOT-TO-SCALE



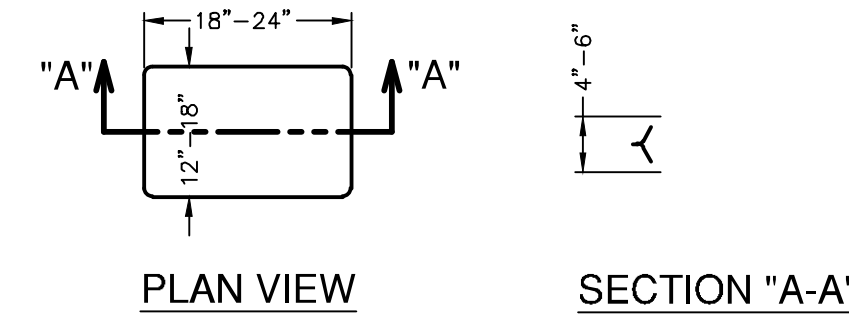
SECTION "A-A"

GENERAL NOTES

1. THE SANDBAGS SHOULD BE FILLED WITH WASHED PEA GRAVEL AND STACKED TO FORM A CONTINUOUS BARRIER ABOUT 1 FOOT HIGH AROUND INLETS.
2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.
5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL GRATE INLET PROTECTION DETAIL

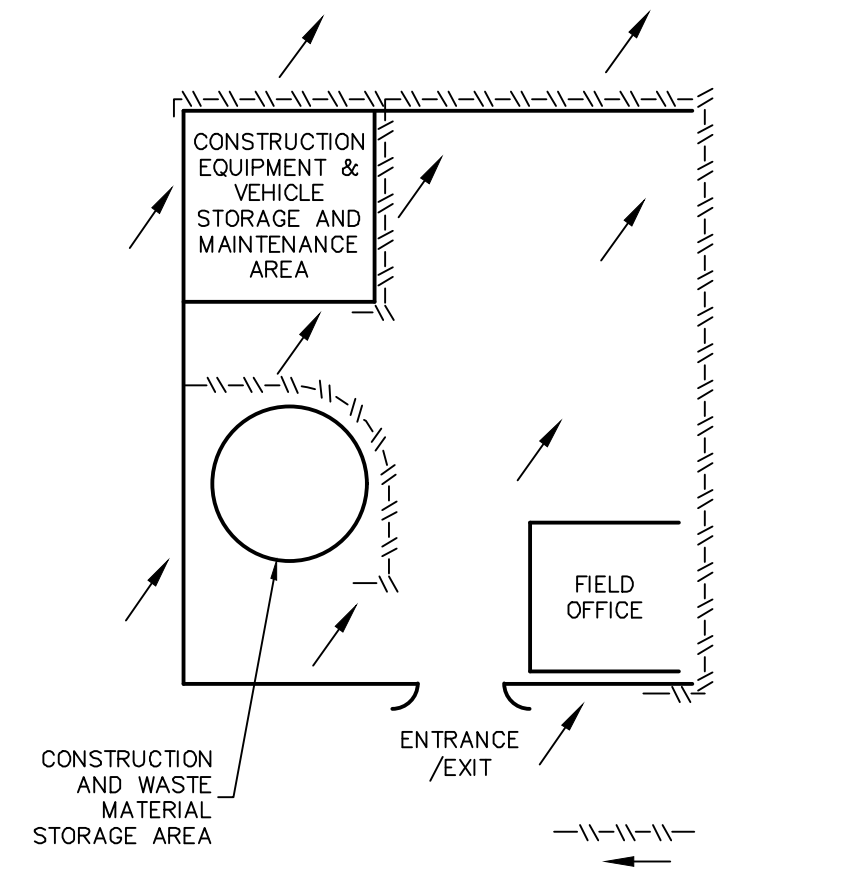
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- NOTES:**
1. THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
 2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).
 3. SAND SHALL NQI BE USED TO FILL THE FILTER BAGS.

GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



CONSTRUCTION STAGING AREA

NOT-TO-SCALE

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING CONFORMANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR THE PURPOSE OF DEMONSTRATING CONFORMANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

EXHIBIT 3



STORM WATER POLLUTION PREVENTION DETAILS
SHEET NUMBER:

C0.25

PERMIT SET

2/19/24

THOMAS MATTHEW CARTER
19272

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DESIGN GROUP, LLC
5075 BARBAROS
SUITE 200
SAN ANTONIO, TX 78201
www.foxdesigngroup.net

DICK'S
SPORTING GOODS








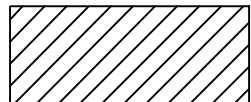
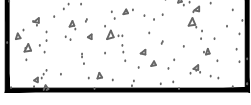
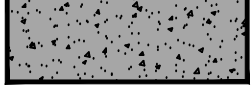
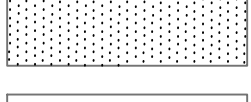

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

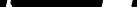
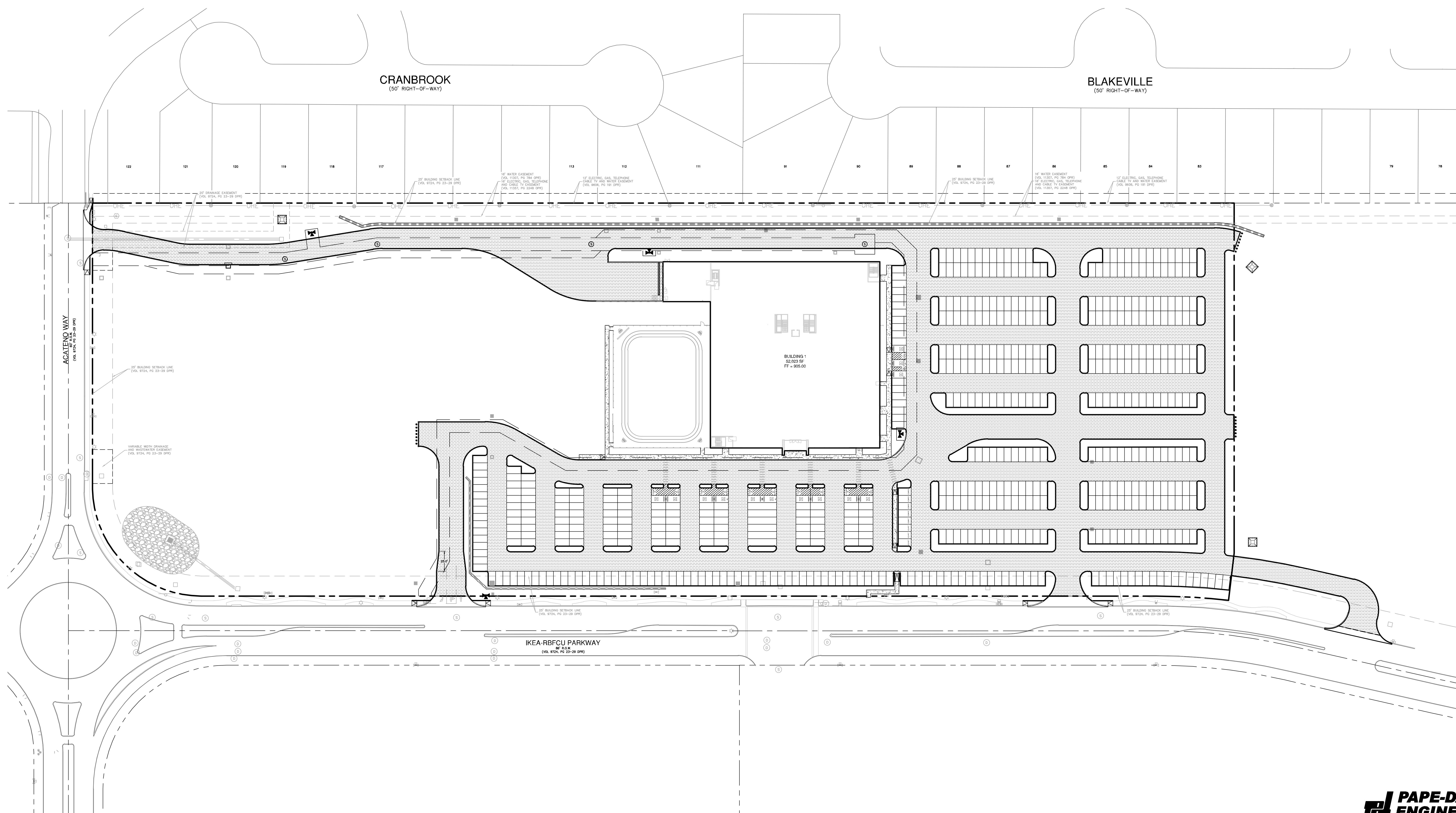
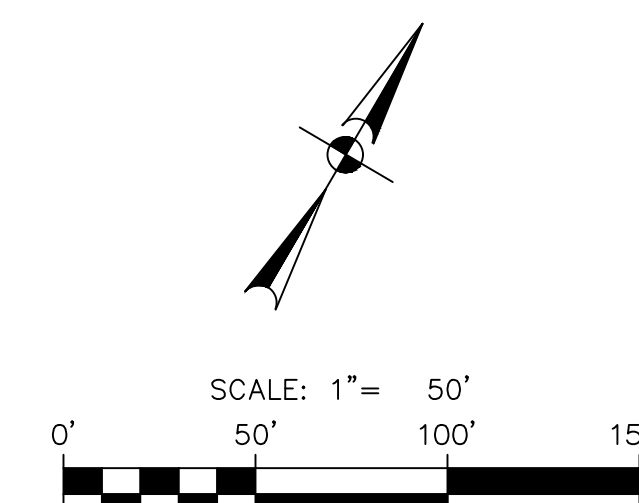
The Dick's Sporting Goods logo is located in the bottom right corner. It features the word "DICK'S" in large, bold, black capital letters, with a basketball player silhouette integrated into the letter "I". To the right of "DICK'S" is the phrase "SPORTING GOODS" in smaller, bold, black capital letters.

DICK'S HOUSE OF SPORT
LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78039

OVERALL DIMENSION
CONTROL AND PAVING
PLAN

C0.30

	LIMITS OF CONSTRUCTION
	PROPERTY BOUNDARY
	EASEMENT LINE
	PROPOSED RETAINING WALL (SUBMIT SHOP DRAWINGS - CONTRACTOR TO PROVIDE SCAFFOLD PER LANDSCAPE PLANS, WHERE HEIGHT OF WALL EXCEEDS 30 INCHES)
	PROPOSED ADA CURB RAMP
	PROPOSED FIRE HYDRANT
	ACCESSIBLE PARKING SYMBOL
	PROPOSED ADA LOADING AREA/CROSSWALK
	PROPOSED CONCRETE SIDEWALK
	PROPOSED CONCRETE DRIVEWAY (SEE SHEET C1.20)
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT (SEE SHEET C1.21)
	PROPOSED LIGHT DUTY ASPHALT PAVEMENT (SEE SHEET C1.21)



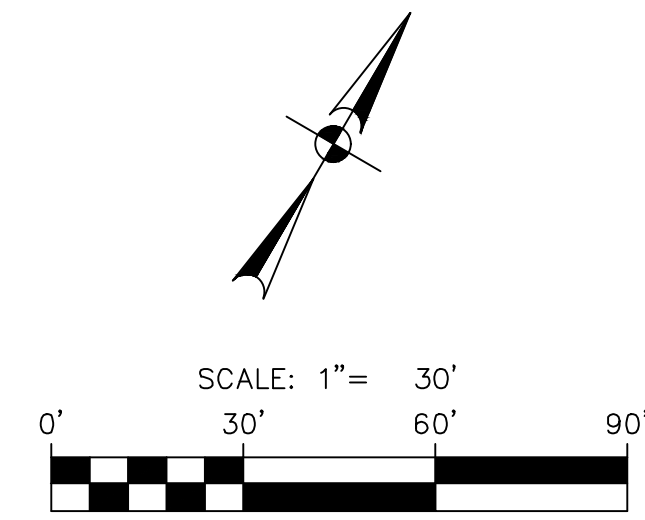
**PAPE-DAWSON
ENGINEERS**







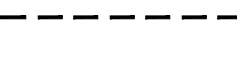







2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #100288

PERMIT SET







- # LEGEND
- | | |
|---|--|
|  | PROPERTY LINE |
|  | PROPOSED WATERLINE |
|  | EXISTING WATERLINE |
|  | FIRE LANE STRIPING |
|  | HOSE PULL (550' MAX BY TRUCK FOR SPRINKLED BUILDING) |
|  | HOSE LAY (200' MAX BY HAND FOR SPRINKLED BUILDING) |
|  | PROPOSED FIRE LANE |
|  | EXISTING WATER METER |
|  | EXISTING WATER METER |
|  | PROPOSED WATER METER |
|  | PROPOSED BACKFLOW PREVENTOR |
|  | PROPOSED REDUCED PRESSURE DETECTOR ASSEMBLY |
|  | PROPOSED FIRE HYDRANT |
|  | PROPOSED IRRIGATION METER |

CAUTION!!

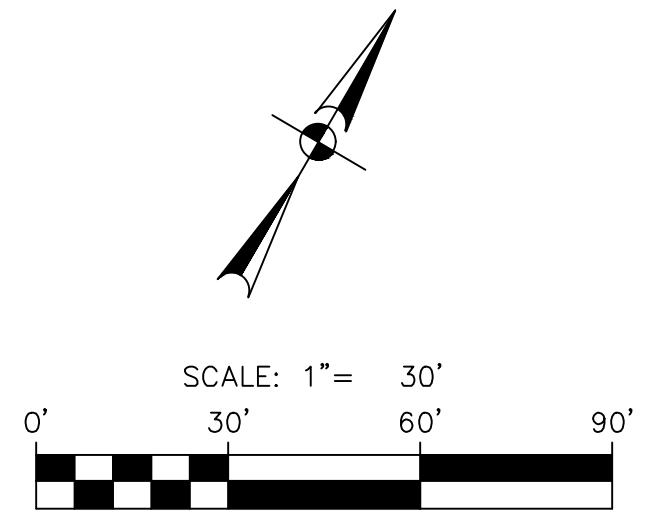
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, LIVE WIRING, LIGHTING, SECURITY, GAS, CABLE, PRIMARY ELECTRICAL, DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CUTOFFS OR TRIMMING SHALL BE IMMEDIATELY COMMUNICATED TO THE OWNER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-GO-DEEP MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.















TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRENCH EXCAVATION, INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION. CONTRACTOR SHALL COMPLY WITH ALL STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

PAPE-DAWSON
ES

2000 NW LOOPING F401 | SAN ANTONIO, TX 78213 | 212 375 3080
TEXAS PAPER ENGINEERING F401 | TEXAS SUPPLY SERVICE P1-002680

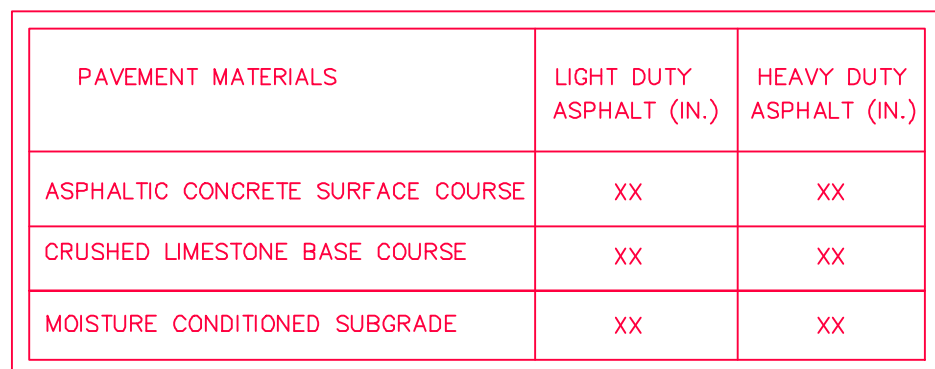


- | | |
|---|--|
|  | PROPERTY LINE |
|  | PROPOSED WATERLINE |
|  | EXISTING WATERLINE |
|  | FIRE LANE STRIPING |
|  | HOSE PULL (550' MAX BY TRUCK FOR SPRINKLED BUILDING) |
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|  | EXISTING WATER METER |
|  | EXISTING WATER METER |
|  | PROPOSED WATER METER |
|  | PROPOSED BACKFLOW PREVENTOR |
|  | PROPOSED REDUCED PRESSURE DETECTOR ASSEMBLY |
|  | PROPOSED FIRE HYDRANT |
|  | PROPOSED IRRIGATION METER |

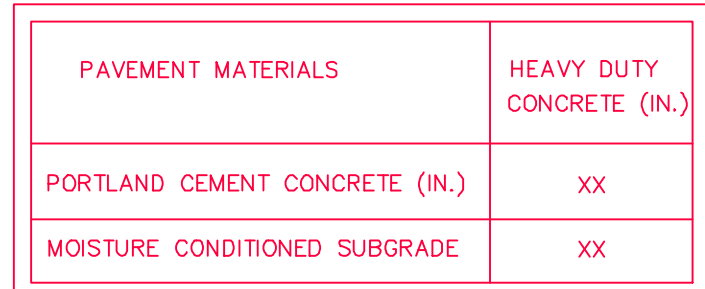
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CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN, GEOTECHNICAL / SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND SPECIFICATIONS AND ADVISE THE CONTRACTOR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

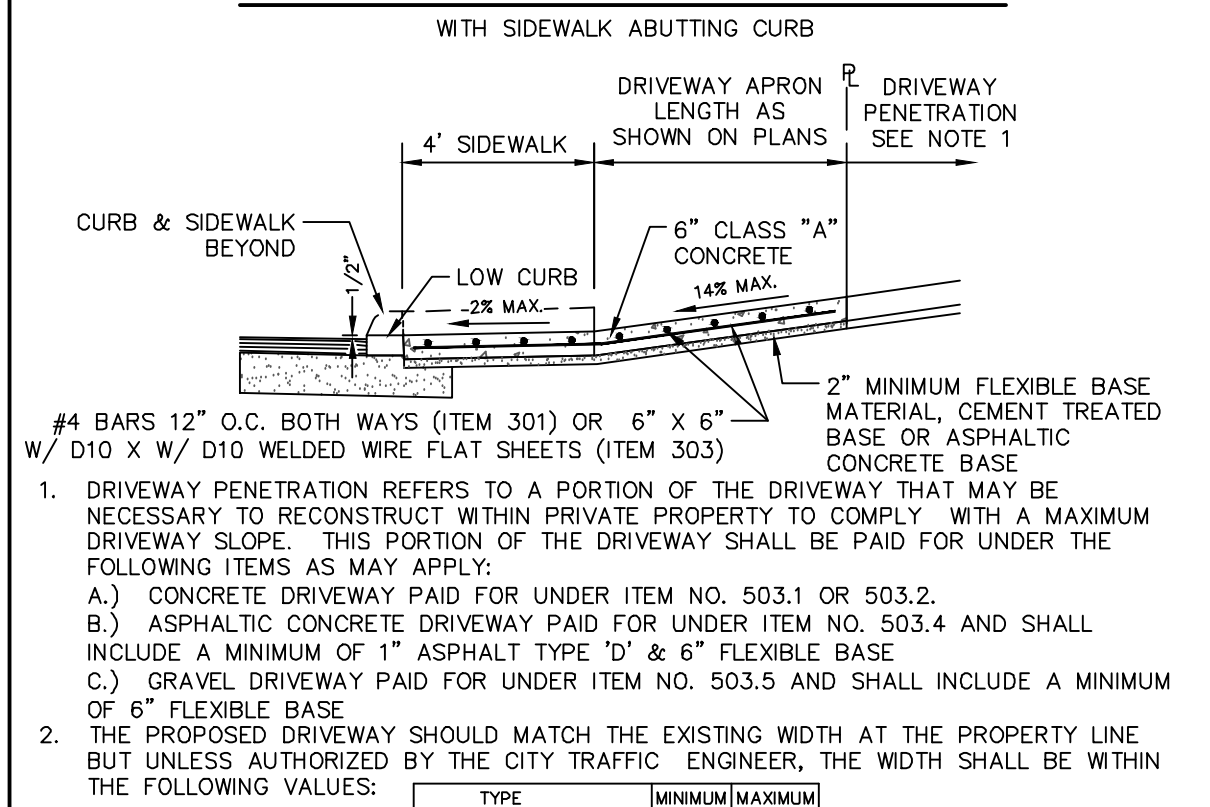




REFERENCE GEOTECHNICAL ENGINEERING REPORT PREPARED BY RABA
KISTNER, FILE No. ASA-21-023-00, DATED 05/06/2021 FOR PAVEMENT
MATERIALS AND CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL MEET
OR EXCEED ALL PAVING RECOMMENDATIONS.



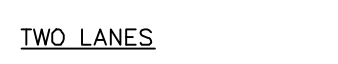
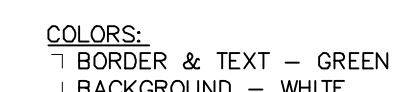
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MATERIALS AND CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL MEET
OR EXCEED ALL PAVING RECOMMENDATIONS.



WITH SIDEWALK ABUTMENT



NOT-TO-SCALE



LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

[illegible]

CIVIL DETAILS

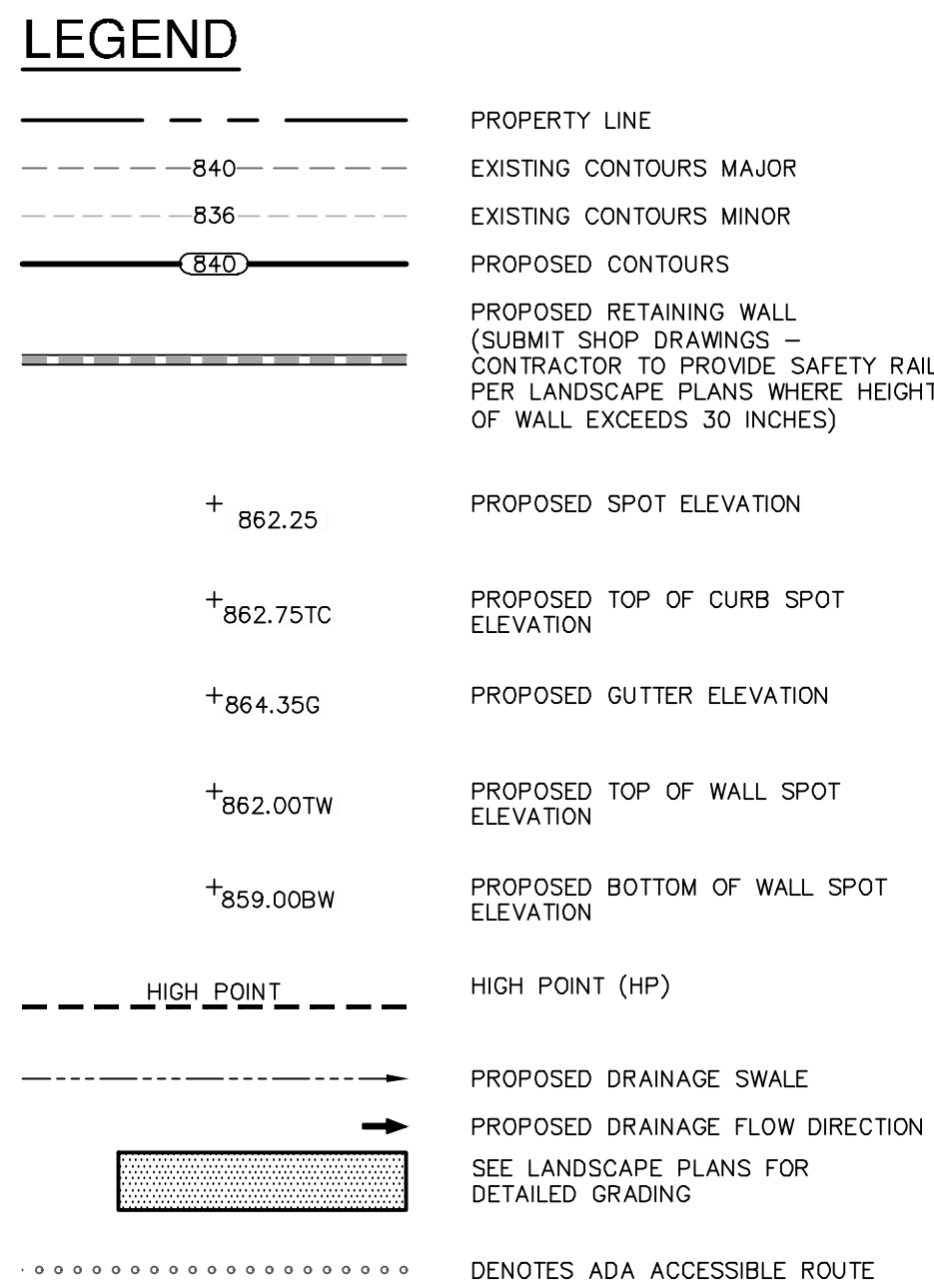
SHEET NUMBER:

SHEET C1.30



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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002880

PERMIT SET



SITE KEYED NOTES

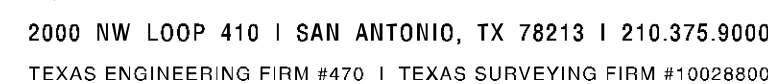
- 1 TRANSITION FROM FLUSH CURB TO
STANDARD CURB IN 18'

CAUTION!!

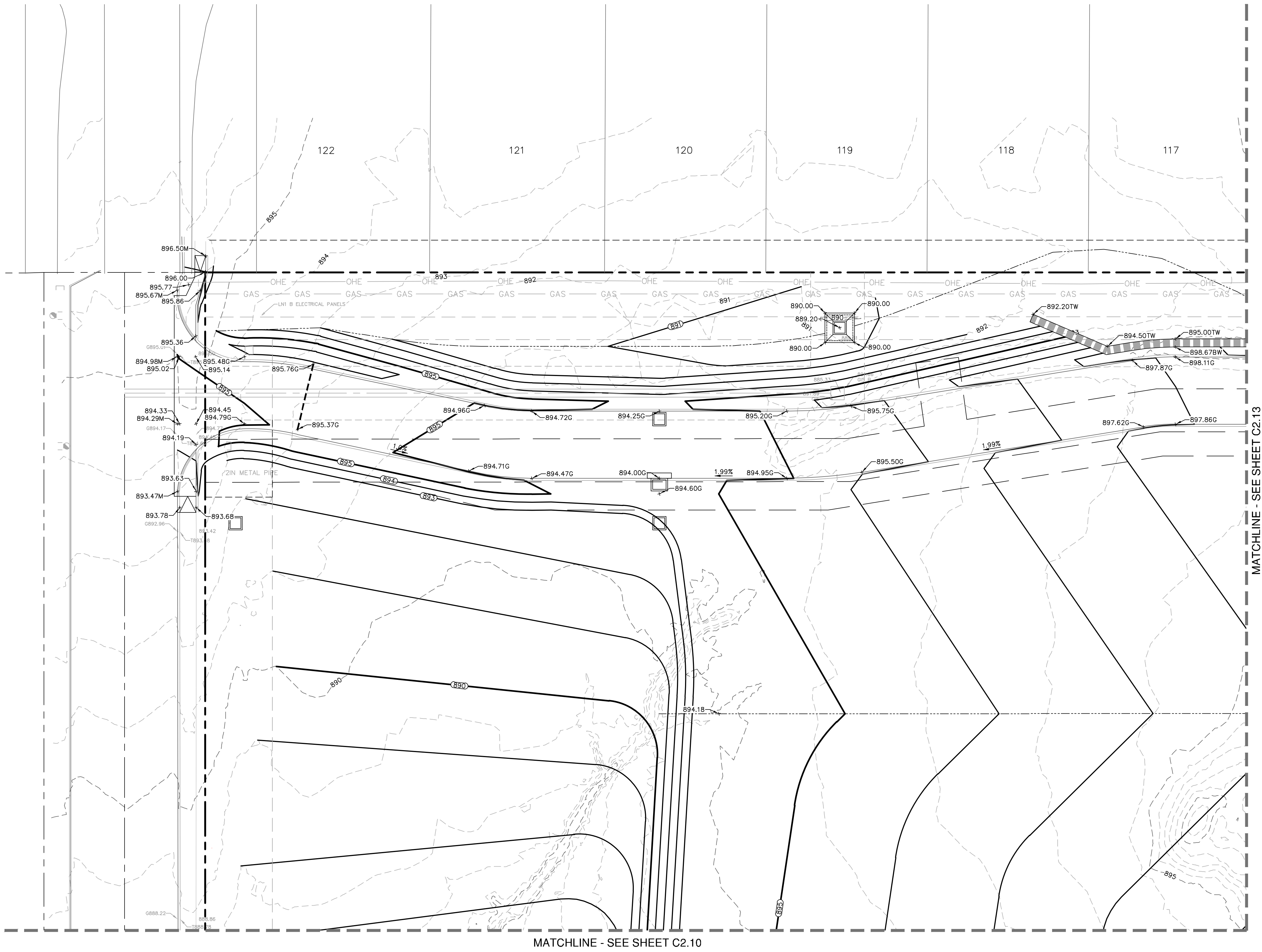
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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEES AND/OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT AREA AND PREPARE AND SUBMIT TO THE OWNER A WRITTEN EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE FRENCH EXCAVATION SAFETY PROTECTION EMPLOYEES TO BE TRAINED AND LICENSED FOR FRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A FRENCH SAFETY PROGRAM IN ACCORDANCE WITH EACH AGENCY'S STANDARD OPERATING PROCEDURES. THE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION,



Date: November 6, 2023, 9:19 AM - User ID: sfifers
File: P:\14\97\06 Design\DWG\DWG-1497-06.dwg



LEGEND

- PROPERTY LINE
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- PROPOSED CONTOURS
- PROPOSED RETAINING WALL (SUBMIT SHOP DRAWINGS - CONTRACTOR TO PROVIDE SAFETY RAIL PER LANDSCAPE PLANS WHERE HEIGHT OF WALL EXCEEDS 30 INCHES)
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GUTTER ELEVATION
- PROPOSED TOP OF WALL SPOT ELEVATION
- PROPOSED BOTTOM OF WALL SPOT ELEVATION
- HIGH POINT (HP)
- PROPOSED DRAINAGE SWALE
- PROPOSED DRAINAGE FLOW DIRECTION
- SEE LANDSCAPE PLANS FOR DETAILED GRADING
- DENOTES ADA ACCESSIBLE ROUTE

SITE KEYED NOTES

- TRANSITION FROM FLUSH CURB TO STANDARD CURB IN 18'

CAUTION!!

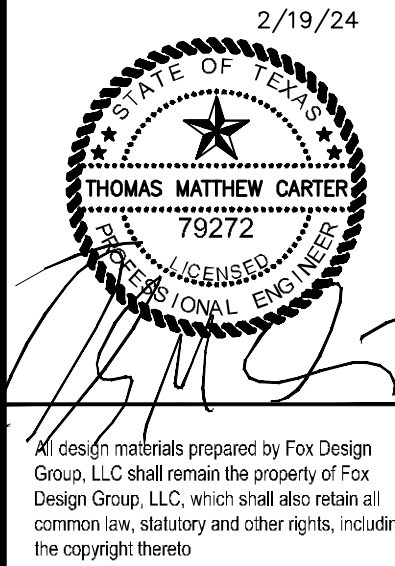
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TRENCH EXCAVATION SAFETY PROTECTION

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2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER:		1359
NO.	ISSUE	DATE

GRADING PLAN
SHEET 2 OF 6

SHEET NUMBER:

C2.11

PERMIT SET

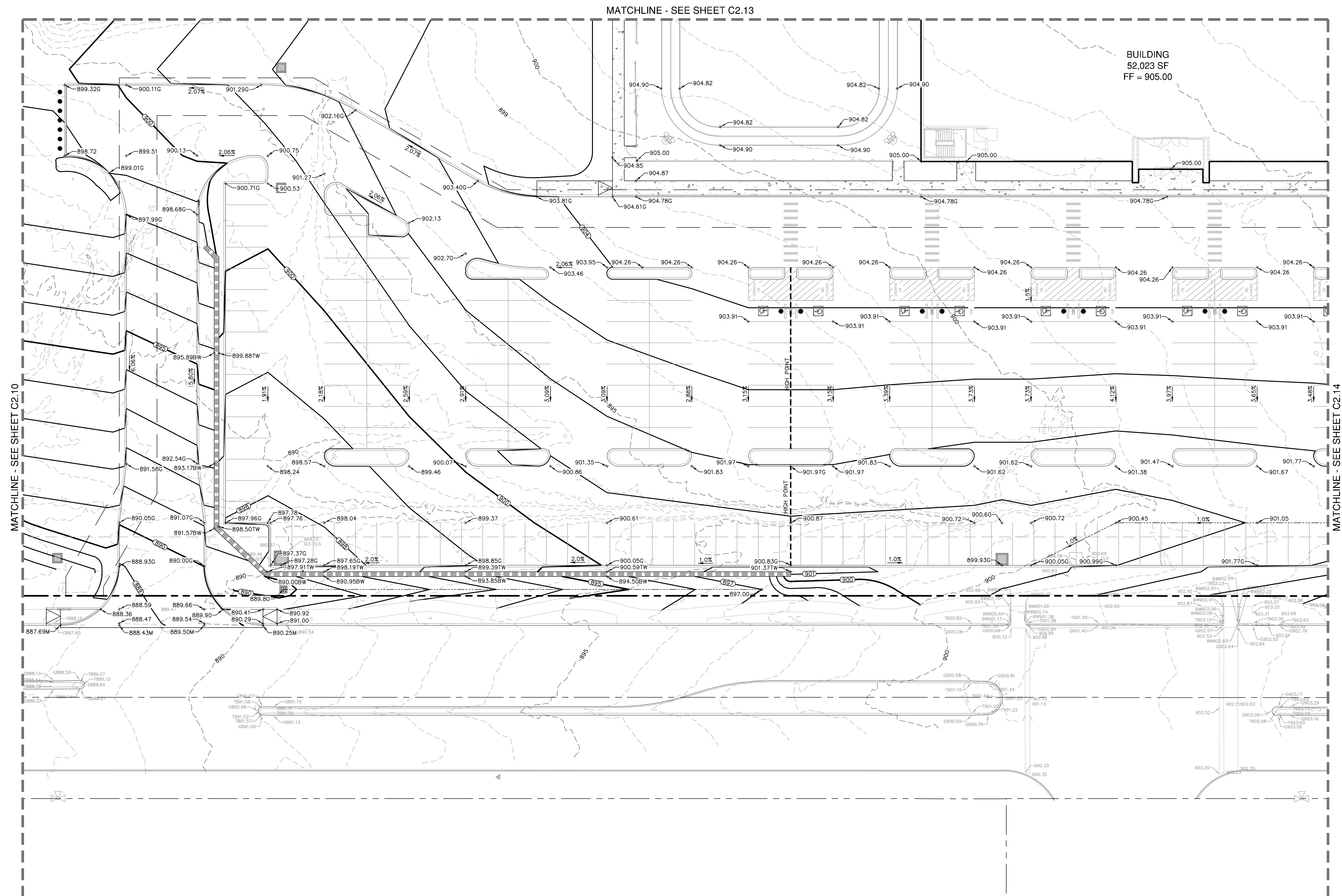


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FOX
DESIGN GROUP
FOX DESIGN GROUP, LLC
33730 BAINBRIDGE ROAD, 2ND FLOOR
SOLON, OH 44139



LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS TX 78022



LEGEND

- | | |
|---|--|
| ----- | PROPERTY LINE |
| -----840----- | EXISTING CONTOURS MAJOR |
| -----836----- | EXISTING CONTOURS MINOR |
| <u>840</u> ----- | PROPOSED CONTOURS |
| | PROPOSED RETAINING WALL
(SUBMIT SHOP DRAWINGS TO
CONTRACTOR TO PROVIDE SAFETY RAIL
PER LANDSCAPE PLANS WHERE HEIGHT
OF WALL EXCEEDS 30 INCHES) |
| + 862.25 | PROPOSED SPOT ELEVATION |
| + 862.75TC | PROPOSED TOP OF CURB SPOT
ELEVATION |
| + 864.35G | PROPOSED GUTTER ELEVATION |
| + 862.00TW | PROPOSED TOP OF WALL SPOT
ELEVATION |
| + 859.00BW | PROPOSED BOTTOM OF WALL SPOT
ELEVATION |
| -----HIGH POINT----- | HIGH POINT (HP) |
| ----- | PROPOSED DRAINAGE SWALE |
| → | PROPOSED DRAINAGE FLOW DIRECTION |
|  | SEE LANDSCAPE PLANS FOR
DETAILED GRADING |
| | DENOTES A ACCESSIBLE ROUTE |

SITE KEYED NOTES

- 1 TRANSITION FROM FLUSH CURB TO
STANDARD CURB IN 18'

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO DIG TO A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT. IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL DATA AND/OR INFORMATION, AND ADAPTED INVESTIGATION WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE TRENCH SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH PROTECTION AND PROTECTION TO COMPLY WITH ALL APPLICABLE STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IF ANY, THAT WILL BE AWARENESS REGARDING THE SAFETY OF ALL ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



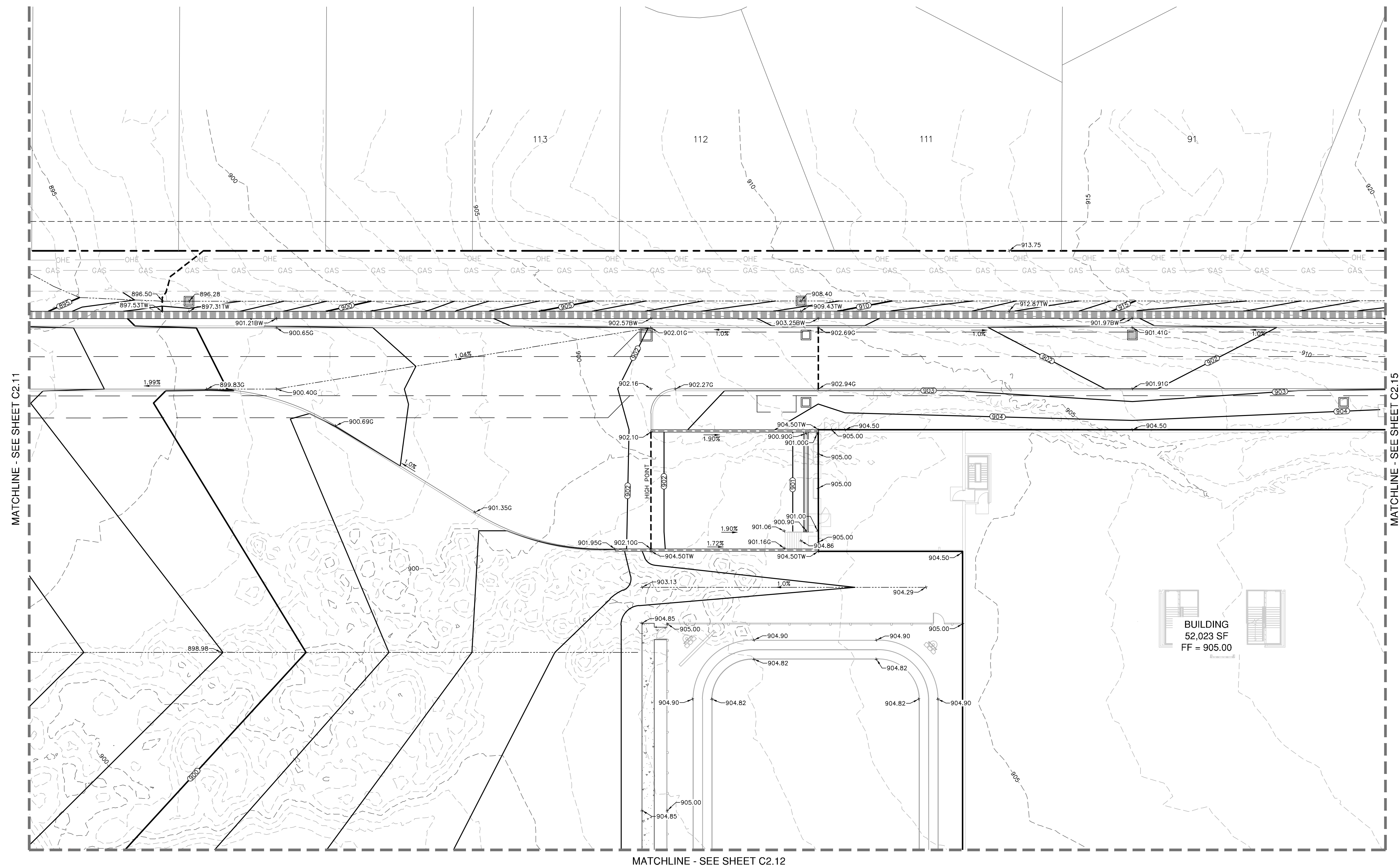
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

GRADING PLAN
SHEET 3 OF 6

SHEET NUMBER

C2.12

PERMIT SET



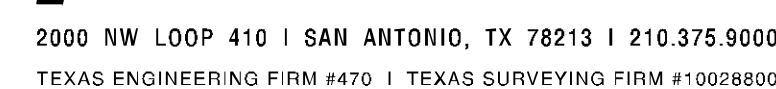
MATCHLINE - SEE SHEET C2.12

	PROPERTY LINE
-840-	EXISTING CONTOURS MAJOR
-836-	EXISTING CONTOURS MINOR
-840-	PROPOSED CONTOURS
	PROPOSED RETAINING WALL (SUBMIT SHOP DRAWINGS TO CONTRACTOR TO PROVIDE SAFETY RAIL PER LANDSCAPE PLANS WHERE HEIGHT OF WALL EXCEEDS 30 INCHES)
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB SPOT ELEVATION
	PROPOSED GUTTER ELEVATION
	PROPOSED TOP OF WALL SPOT ELEVATION
	PROPOSED BOTTOM OF WALL SPOT ELEVATION
HIGH POINT	HIGH POINT (HP)
	PROPOSED DRAINAGE SWALE
	PROPOSED DRAINAGE FLOW DIRECTION
	SEE LANDSCAPE PLANS FOR DETAILED GRADING
	DENOTES ADA ACCESSIBLE ROUTE

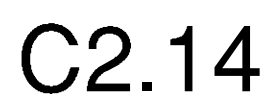
1 TRANSITION FROM FLUSH CURB TO STANDARD CURB IN 18'

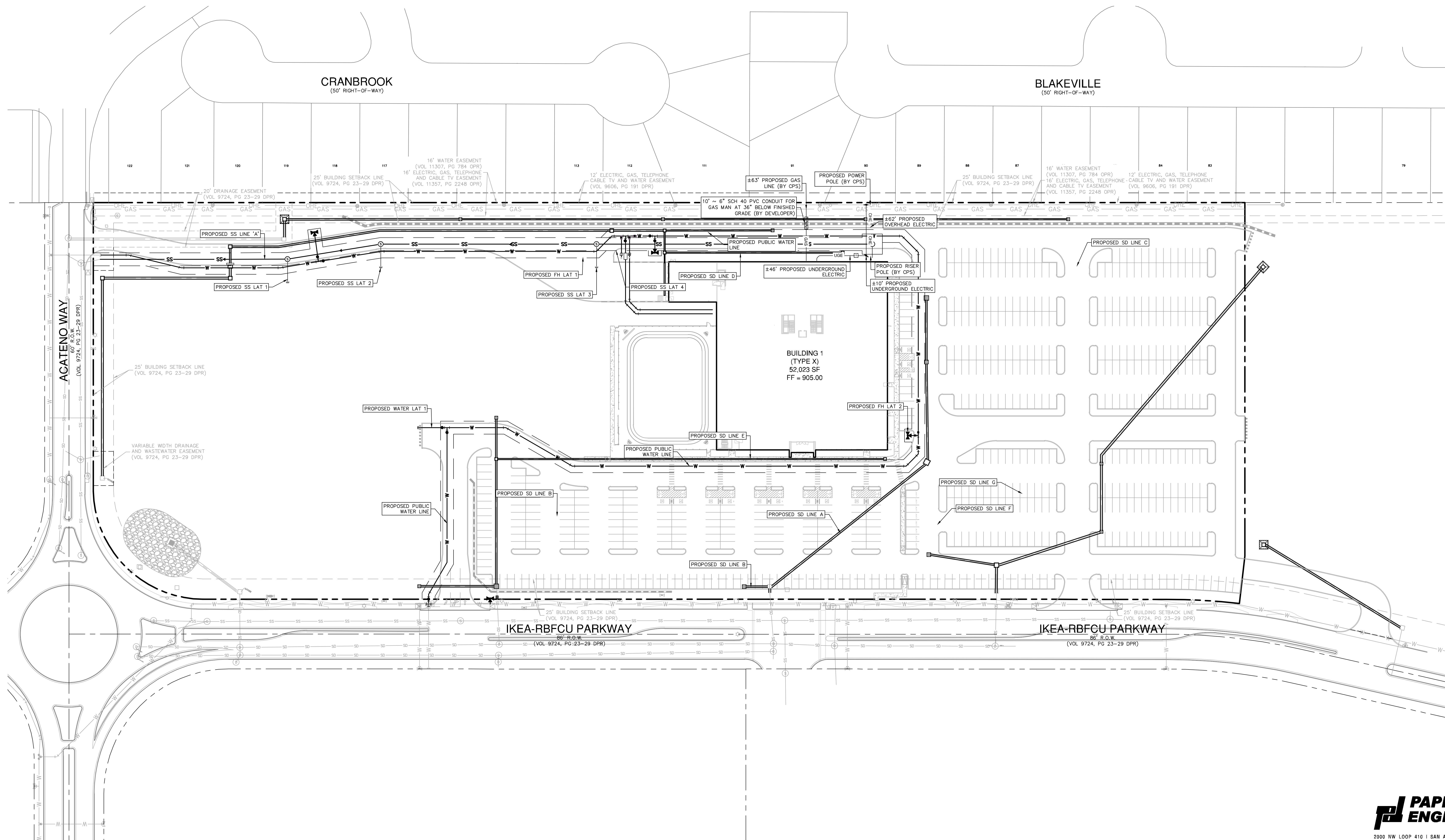
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRIC DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

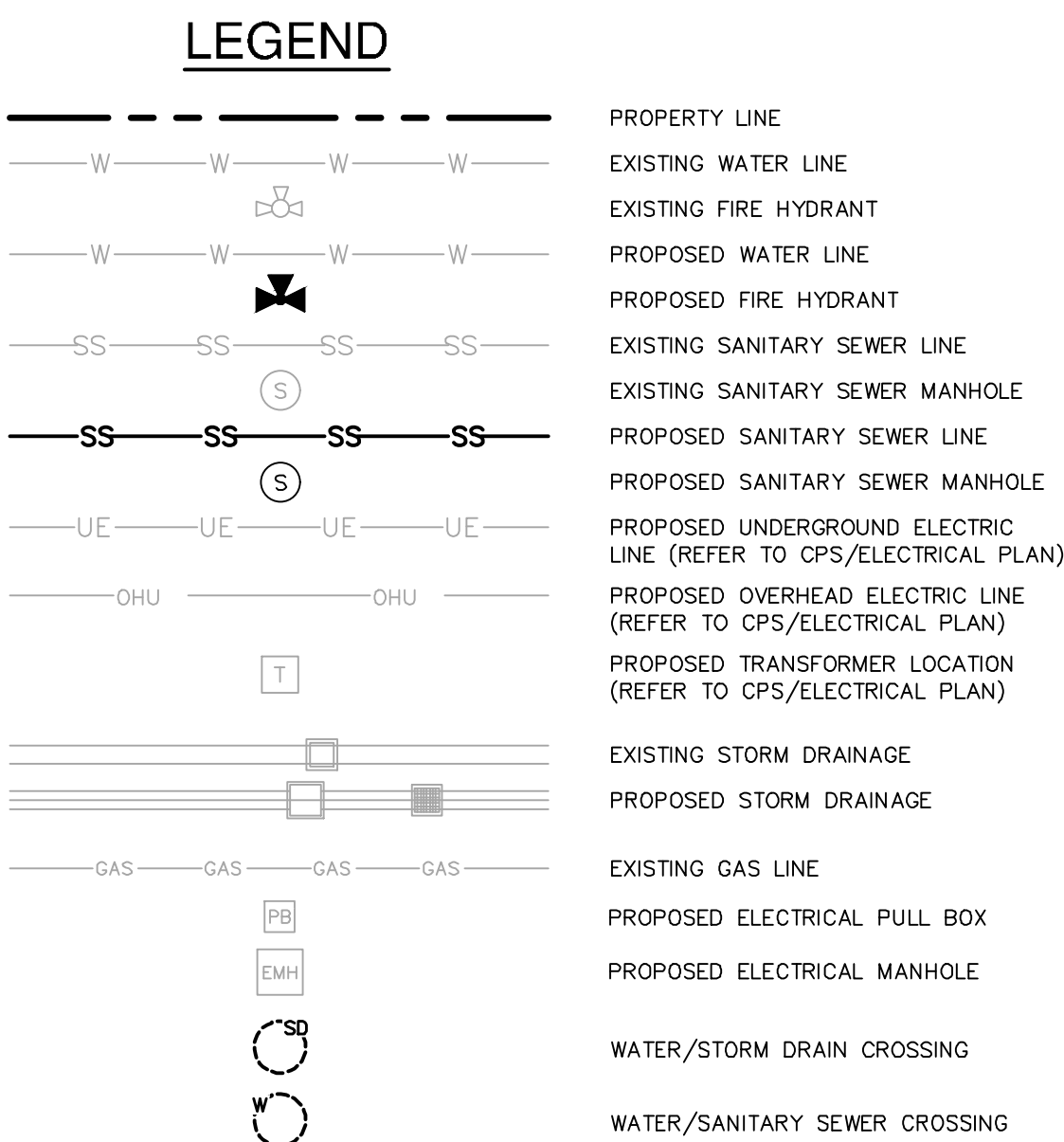
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEES OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IDENTIFY CONTRACTOR'S, TRENCHER'S AND/OR SAFETY PROTECTION SYSTEMS, PROGRAMS AND PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS; THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY AND PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE TRENCHING AND SHIELDING PRESENCE OF UTILITIES ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

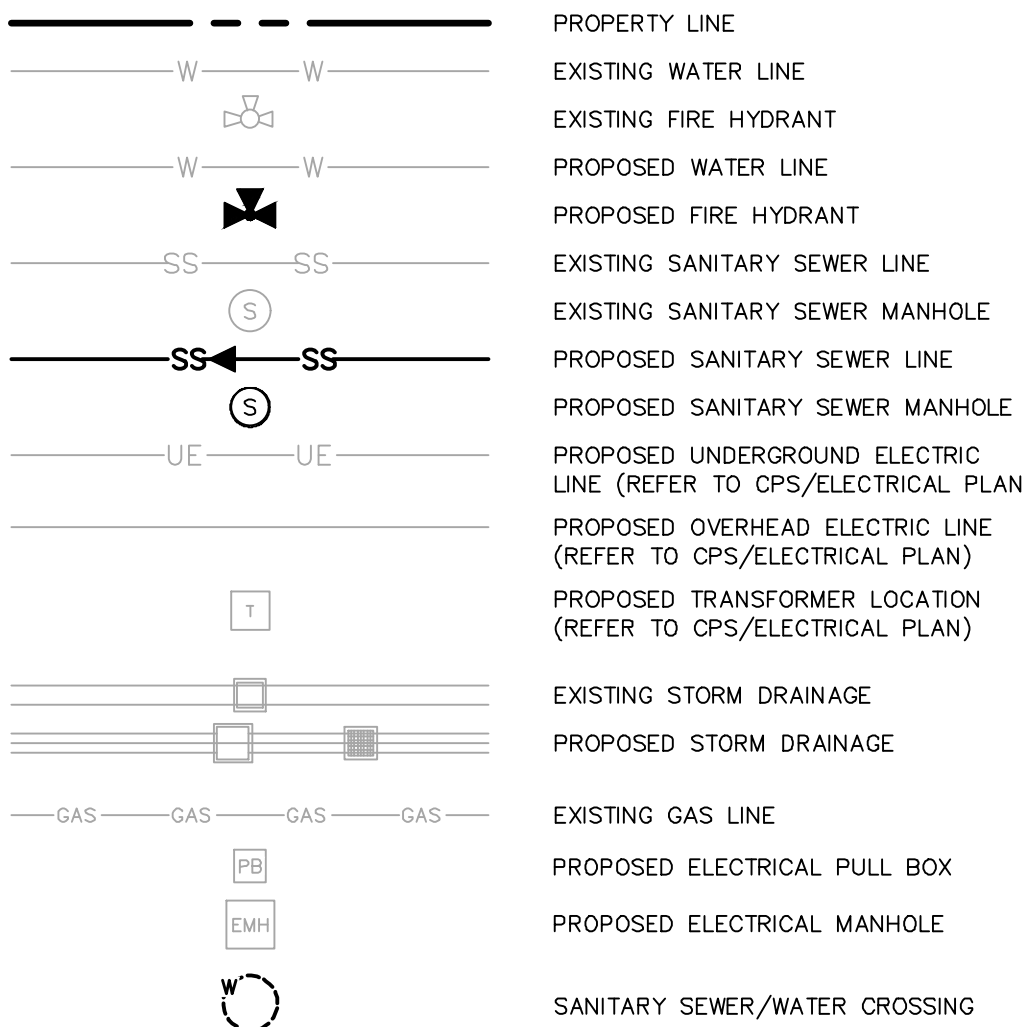






2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LEGEND



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESTS A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY WORK TO BE DONE ON OR NEAR EXISTING UTILITIES. THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO EXISTING UTILITIES SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

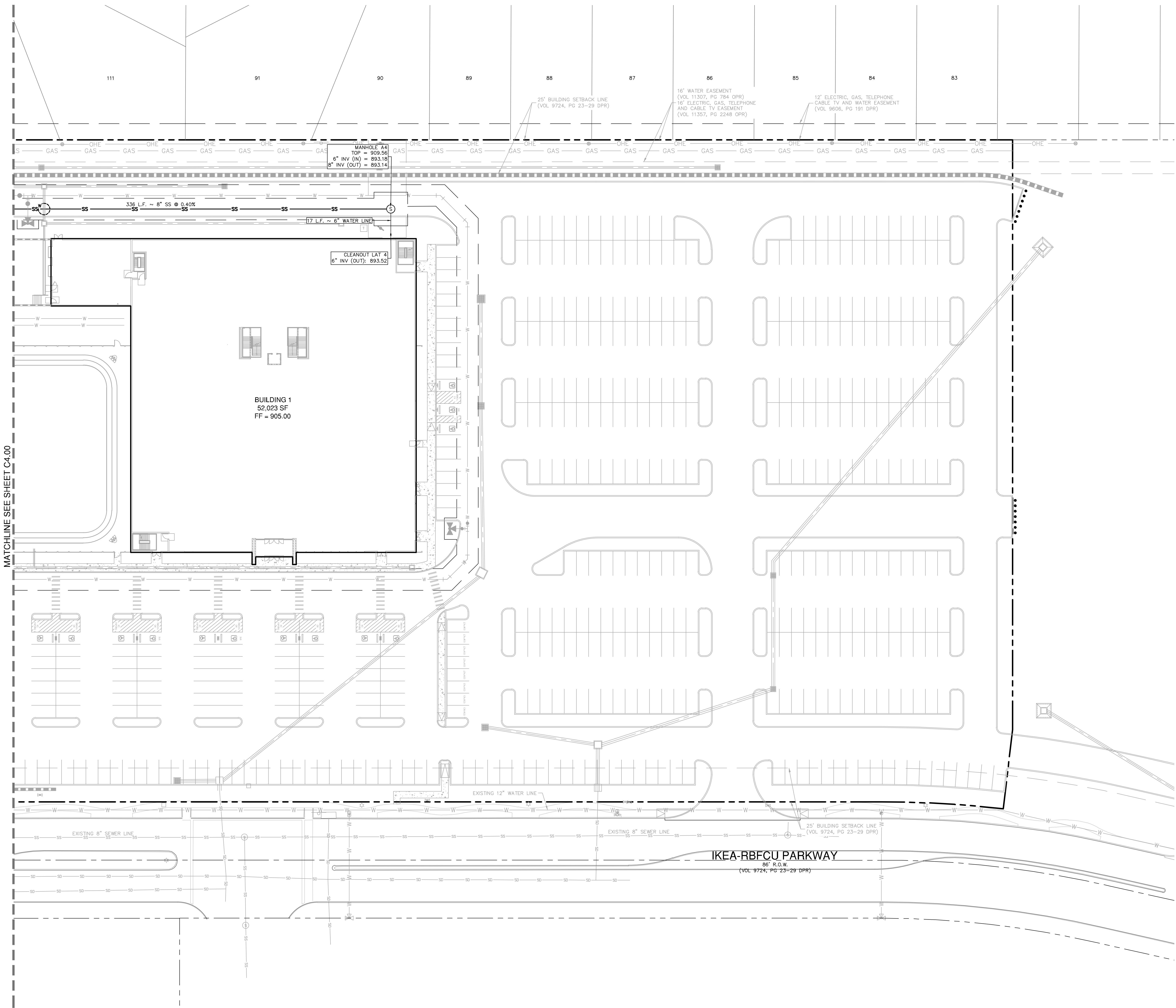
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA AND SHALL BE RESPONSIBLE FOR DEVELOPING EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENSH SAFETY EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES STANDARDS FOR TRENSH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENSH SAFETY PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRENSH SAFETY PROGRAM AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENSH EXCAVATION.

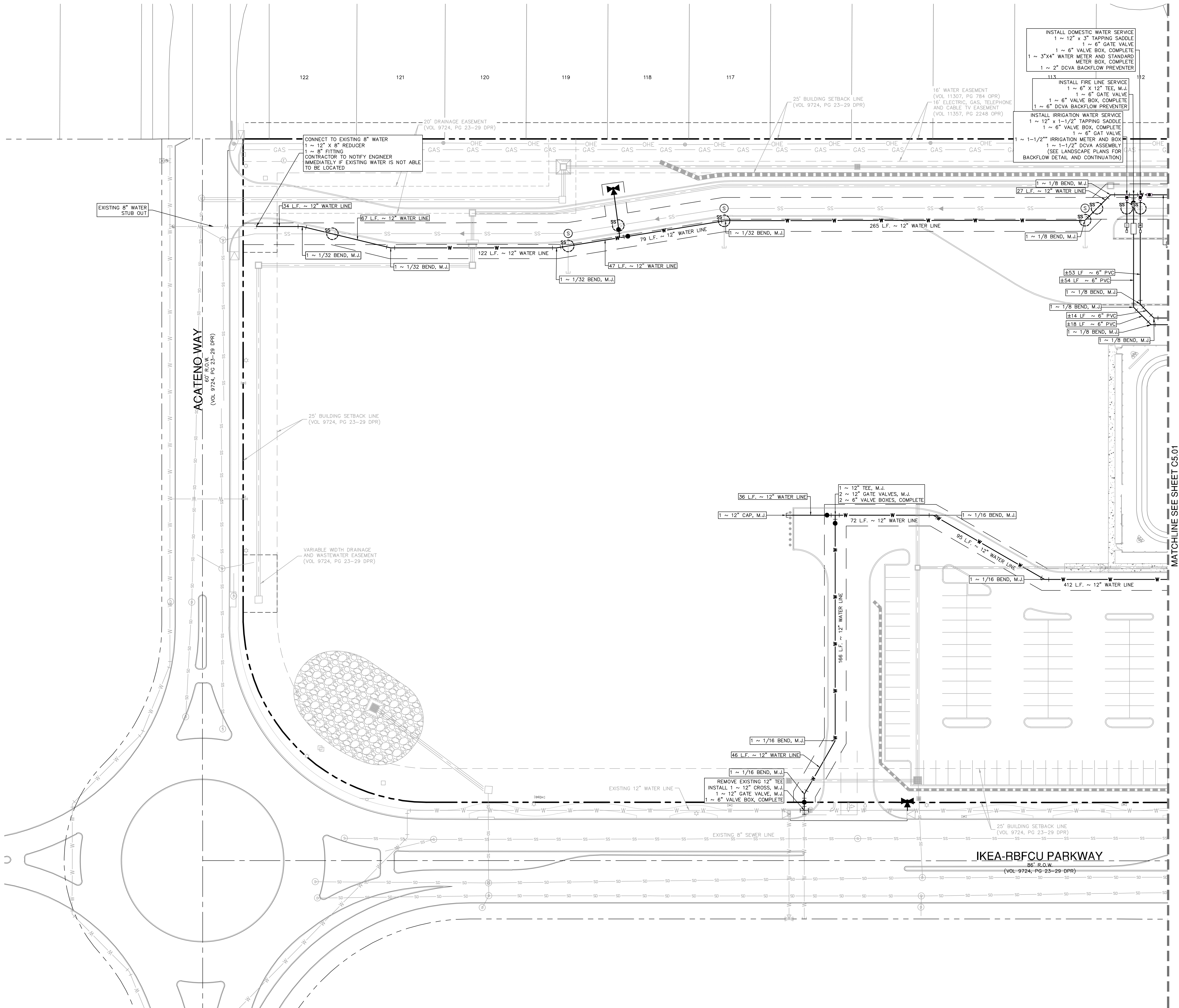


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PERMIT SET



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File: P:\114\97\06\Design\Civil\SS-11497-06.dwg



CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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

PAPE-DAWSON ENGINEERS
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2/19/24

STATE OF TEXAS

THOMAS MATTHEW CARTER

19272

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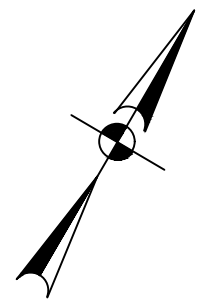
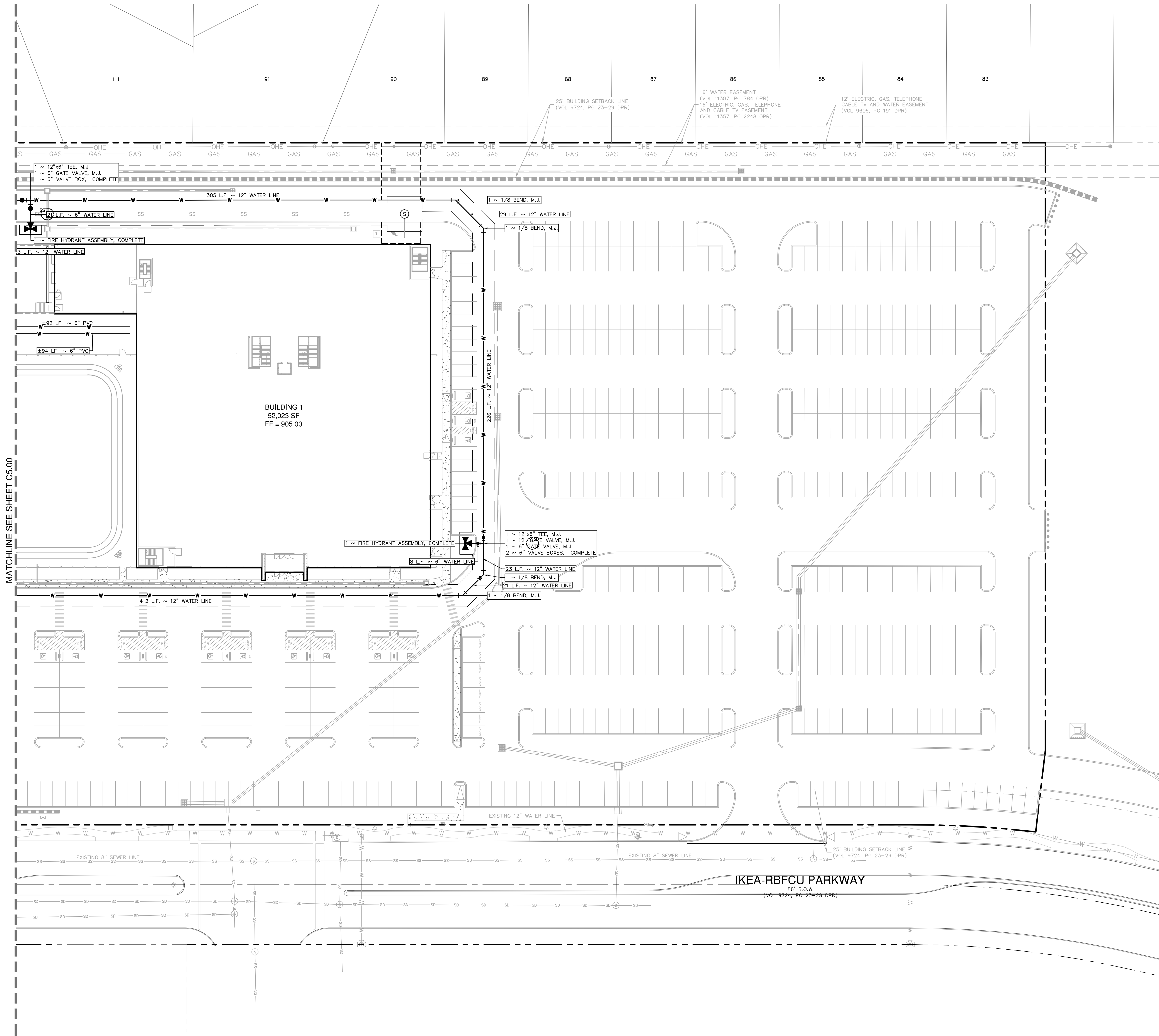
FOX DESIGN GROUP, LLC
5075 BARBERS ROAD, 2ND FLOOR
SUITE 200
DALLAS, TEXAS 75244
www.foxdesigngroup.net

DICK'S SPORTING GOODS

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER: 1359
NO. ISSUE DATE

WATER DISTRIBUTION PLAN
SHEET 1 OF 2
SHEET NUMBER:
C5.00



SCALE: 1"= 30'
0' 30' 60' 90'

LEGEND

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY SEWER LINE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
- PROPOSED OVERHEAD ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
- PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
- EXISTING STORM DRAINAGE
- PROPOSED STORM DRAINAGE
- EXISTING GAS LINE
- PROPOSED ELECTRICAL PULL BOX
- PROPOSED ELECTRICAL MANHOLE
- WATER/STORM DRAIN CROSSING
- WATER/SANITARY SEWER CROSSING

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

2/19/24

THOMAS MATTHEW CARTER
19272
Professional Engineer
State of Texas

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5075 BARBARO ROAD, 2ND FLOOR
SUITE 200
SAN ANTONIO, TEXAS 78238
www.foxdesigngroup.net

DICK'S

SPORTING GOODS

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER: 1359

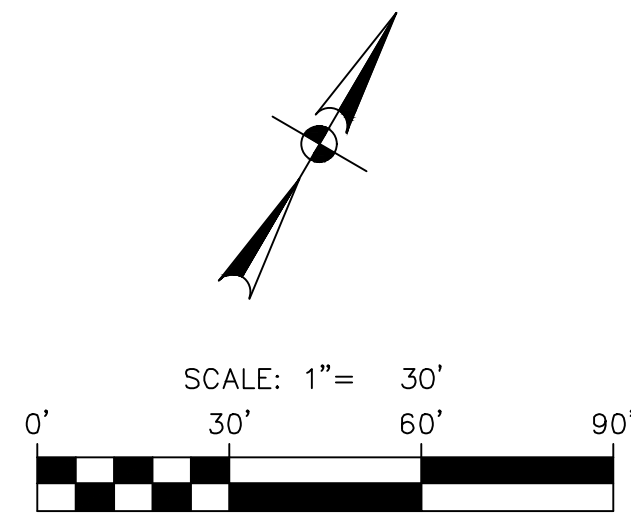
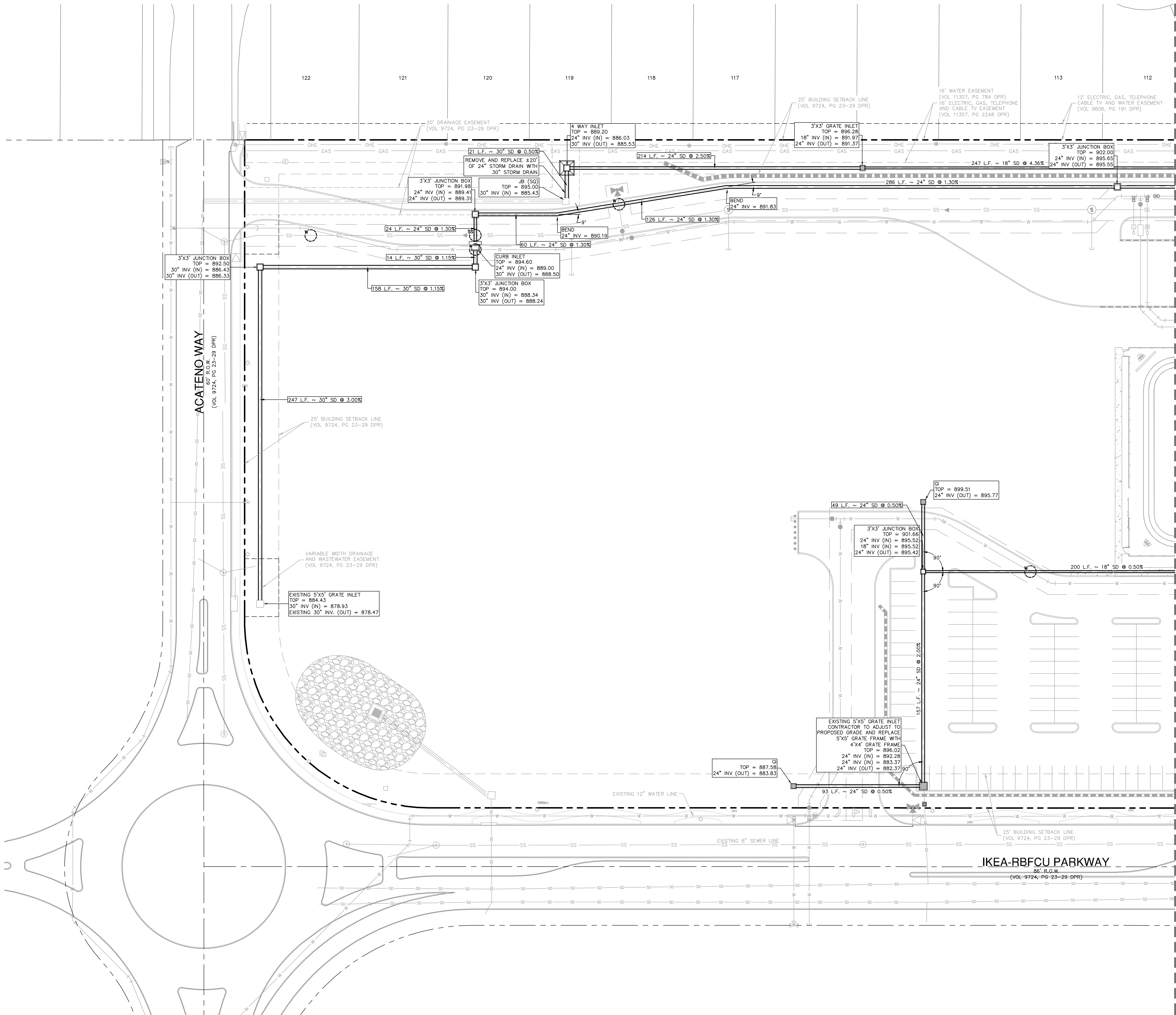
NO. ISSUE DATE

WATER DISTRIBUTION
PLAN
SHEET 2 OF 2

SHEET NUMBER:

C5.01

PERMIT SET



LEGEND

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
- PROPOSED OVERHEAD ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
- PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
- EXISTING STORM DRAINAGE
- PROPOSED STORM DRAINAGE
- EXISTING GAS LINE
- PROPOSED ELECTRICAL PULL BOX
- PROPOSED ELECTRICAL MANHOLE
- WATER/STORM DRAIN CROSSING
- WATER/SANITARY SEWER CROSSING

CAUTION!!

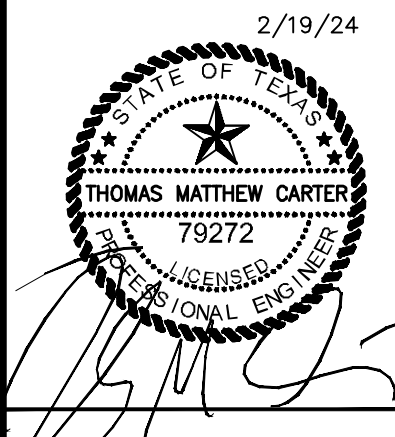
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TRENCH EXCAVATION SAFETY PROTECTION

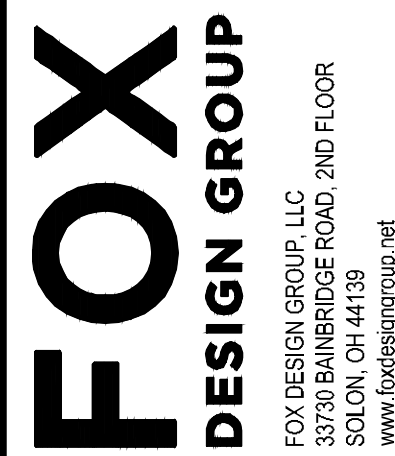
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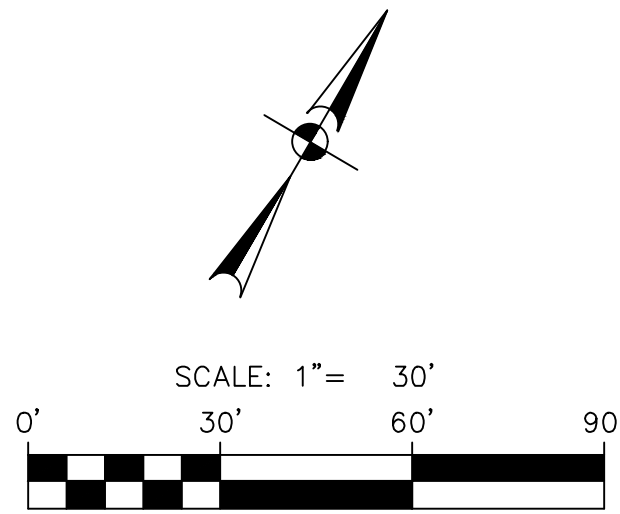
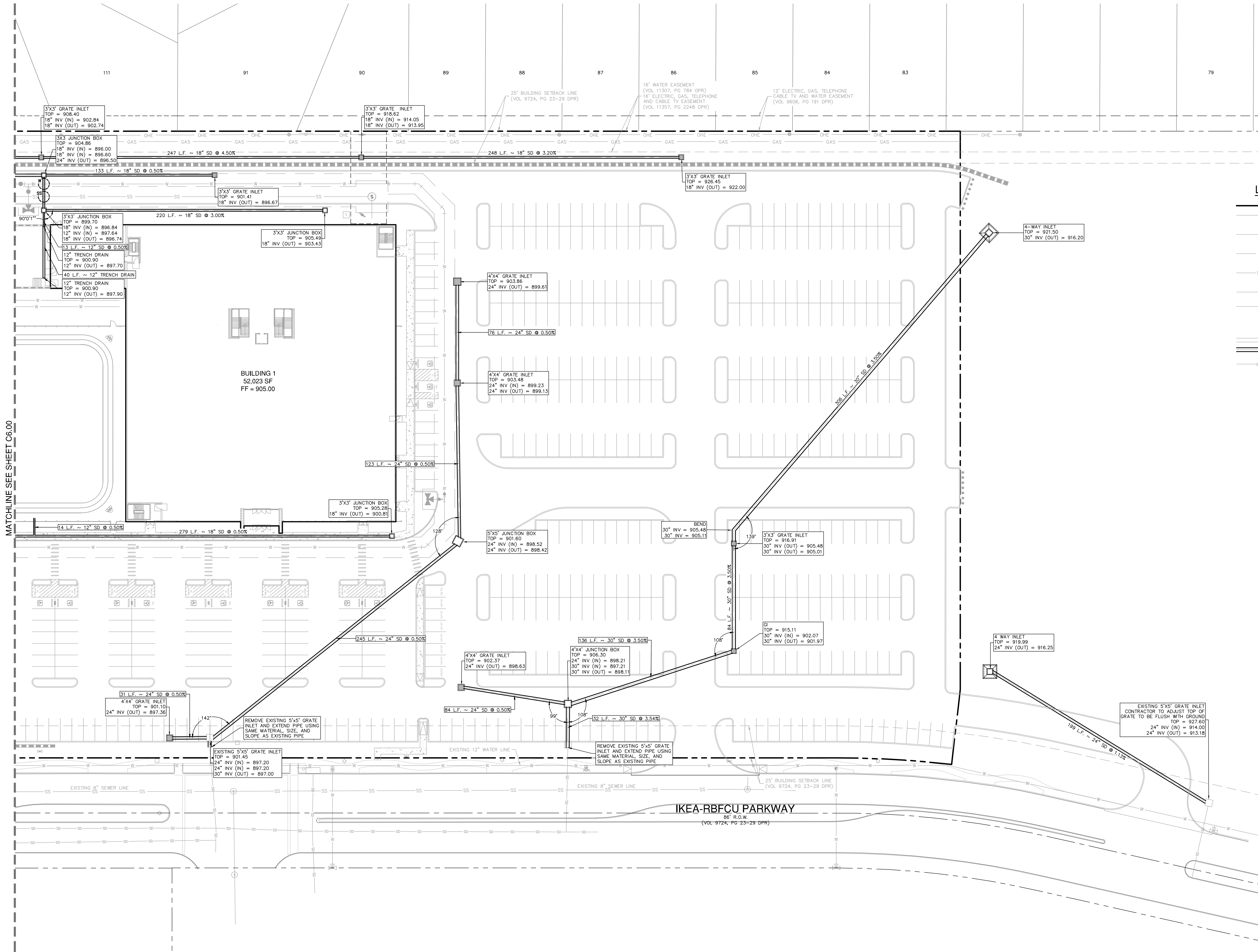
LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER: 1359		
NO.	ISSUE	DATE

STORM DRAIN PLAN
SHEET 1 OF 2

SHEET NUMBER:

C6.00



LEGEND	
	PROPERTY LINE
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT
	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
	PROPOSED OVERHEAD ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
	PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
	EXISTING STORM DRAINAGE
	PROPOSED STORM DRAINAGE
	EXISTING GAS LINE
	PROPOSED ELECTRICAL PULL BOX
	PROPOSED ELECTRICAL MANHOLE
	STORM DRAIN/WATER CROSSING

CAUTION!!
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2/19/24

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www.foxdesigngroup.net

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

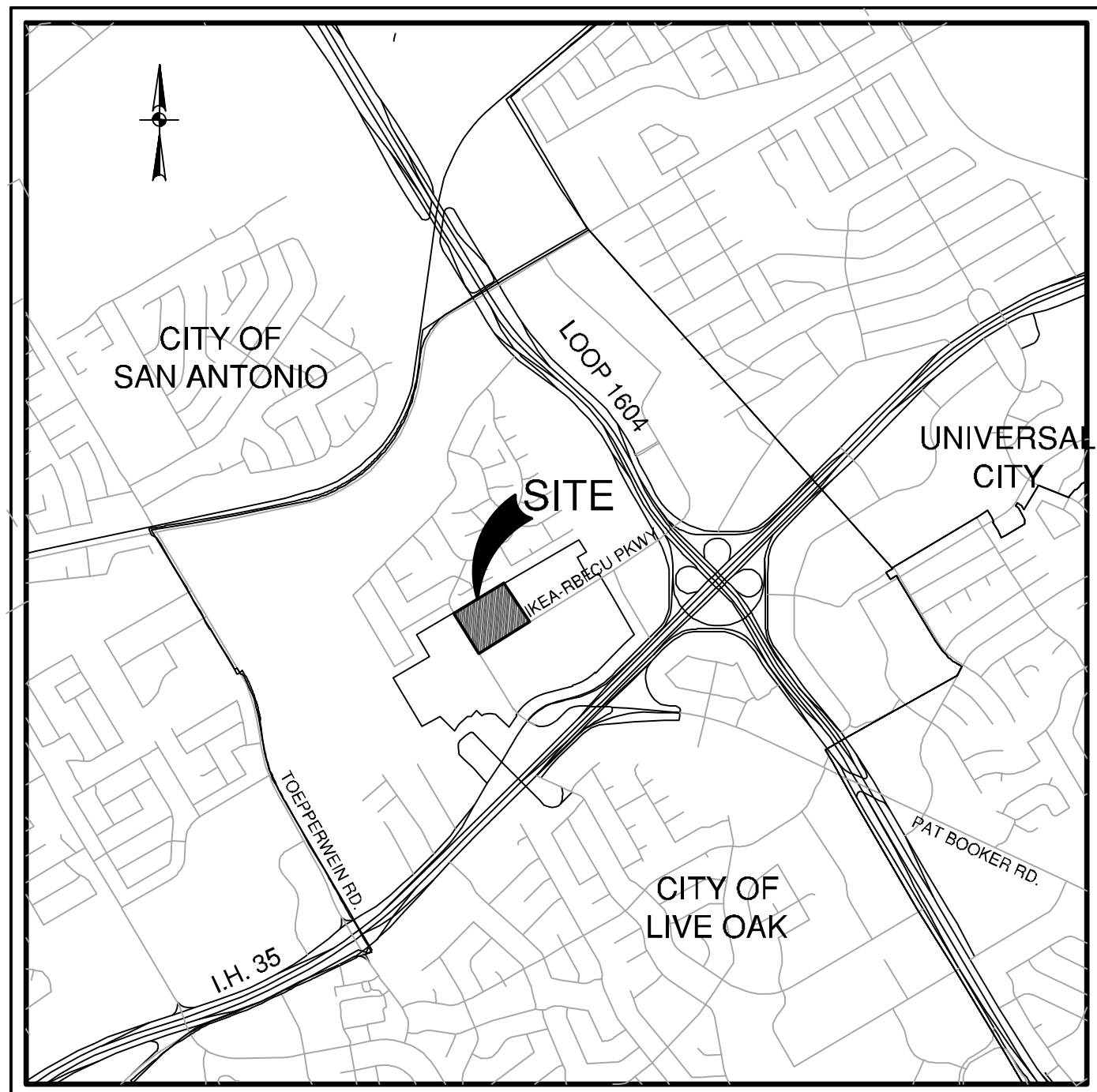
PROJECT NUMBER:	1359	
NO.	ISSUE	DATE

STORM DRAIN PLAN
SHEET 2 OF 2

SHEET NUMBER:

C6.01

DICKS SPORTING GOODS
LIVE OAK TOWN CENTER GCP
LIVE OAK, TEXAS
CIVIL CONSTRUCTION PLANS



LOCATION MAP
NOT-TO-SCALE

Sheet List Table		
Sheet Title	Sheet Description	Sheet Number
COVER SHEET		C0.00
GENERAL CONSTRUCTION NOTES		C0.10
SANITARY SEWER PLAN & PROFILE		C1.00
PUBLIC WATER PLAN	SHEET 1 OF 2	C2.00
PUBLIC WATER PLAN	SHEET 2 OF 2	C2.01
OVERALL UTILITY PLAN		C3.00
UTILITY DETAILS		C3.05

PREPARED FOR:
FOX DESIGN GROUP, LLC
33730 BAINBRIDGE ROAD, 2ND FLOOR
SOLON, OHIO 44139

FEBRUARY 2024

PROJECT NUMBER:		1359
NO.	ISSUE	DATE

COVER SHEET
SHEET NUMBER:
SHEET C0.00

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LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

1. FIRE LANES SHALL HAVE A MINIMUM 2-WAY TRAFFIC WIDTH OF 25 FT. WITH A MINIMUM OUTSIDE TURNING RADIUS OF 50 FT., UNLESS OTHERWISE NOTED.
2. FIRE LANES NEXT TO FIRE HYDRANTS OR DESIGNATED FOR AERIAL APPARATUS SHALL BE A MINIMUM OF 26 FT.
3. FIRE LANES SHALL BE DESIGNATED IN ACCORDANCE TO THE LATEST INTERNATIONAL FIRE CODE AND PER APPLICABLE LOCAL AMENDMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS/APPROVALS BEFORE BEGINNING DEMOLITION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL EXISTING UTILITIES UNLESS INDICATED ALTERNATELY.
4. MATERIALS SHALL BE DEMOLISHED AND REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
5. ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE DEMOLISHED SHALL REMAIN ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES, POWER POLES TO BE REMOVED, AND ANY OTHER UTILITIES TO BE REMOVED. CONTRACTOR SHALL GUARANTEE THAT ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO PROTECT ALL UTILITIES.
7. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO ANY CONSTRUCTION AND UTILITIES MUST BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF UTILITIES SHOWN ON THE PLANS OR NOT, THROUGHOUT ALL PHASES OF CONSTRUCTION.

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT OR NECESSITY OF ANY SPECIFICATION FOR THE PROJECT.
2. THE CONTRACTOR SHALL PRESERVE ALL CONTROL POINTS, PROPERTY PINS, BENCH MARKS, HUBS OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SUCH POINTS AT THEIR OWN EXPENSE IN THE EVENT THEY ARE REMOVED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL HORIZONTAL AND VERTICAL CONTROL PER THE CONSTRUCTION DRAWINGS.
5. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL USE THE PROPERTY CONTROL POINTS FOR ALL CONSTRUCTION. BENCHMARKS ARE NOT TO BE USED FOR HORIZONTAL CONTROL.
6. ALL DIMENSIONAL CONTROL POINTS OR DIMENSIONS ARE TO THE FACE OF CURB, FACE OF RETAINING WALL, AND CENTER OF PAVEMENT STRIPING. ALL DIMENSIONS ARE PERPENDICULAR TO THE POINT OF REFERENCE.
7. REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONAL CONTROL INFORMATION.
8. CURB RADI ARE 3' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.
10. ALL CURBS ARE 6" HIGH, UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE TO EXISTING UTILITIES, FENCING, PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, OR SIGNS.
12. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS AT NEW PAVEMENT, CURB AND SIDEWALK JUNCTIONS. NO JAWING OR IRREGULAR CUTS ARE TO BE ACCEPTED.
13. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, ALIGNMENT, PLACEMENT, LIMITS, DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THE PROJECT.
14. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS AND CONSTRUCTION INFORMATION.
15. CONCRETE DRIVEWAY SHALL BE CONSTRUCTED TO PROPERTY LINES, UNLESS OTHERWISE NOTED.
16. ALL ISLANDS ARE CURBED UNLESS OTHERWISE NOTED.

4. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK SHALL BE SUBJECT TO AND FULLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
5. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND ANY SPECIFICATIONS THEREIN.
6. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
7. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS, DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF PROJECT.
9. ALL GRADES IN AREAS DESIGNATED AS DISABLED PARKING SHALL BE MAINTAINED NO MORE THAN 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
10. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED MATERIALS INCLUDING THE ENGINEER SHALL BE NOTIFIED BEFORE COMMENCEMENT OF CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
12. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT OR FILL. EXISTING STORM SEWERS SHALL BE STOPGORGED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
13. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION, ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND/OR SOIL CONSERVATION SERVICE REFERENCE TO THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES FOR THE WATER SYSTEM SHALL BE WITHIN THE SCOPE OF THIS CONTRACT SHALL CONFORM TO ALL APPLICABLE CITY OF LIVE OAK CONSTRUCTION SPECIFICATIONS.
2. MACHINE CONSTRUCTION SHALL BE BY THE CONTRACTOR ACCORDING TO THE SERVICE PROVIDER'S CONSTRUCTION SPECIFICATIONS.
3. ALL WATER LINES SHALL BE FOUR-FOOT (4') BURY UNLESS OTHERWISE NOTED.
4. ALL WATER LINES SHALL BE PVC PIPE UNLESS OTHERWISE INDICATED. ALL 6" AND 8" BURY PVC WATER LINES SHALL BE CLASS 150 DR19IN. MEETING ANASCO STANDARDS. ALL SERVICES 4 INCH AND SMALLER SHALL BE SCHEDULE 80 PVC DUCTILE IRON. WATER SERVICE MAINS BE 12" OR LARGER.
5. ALL WATER LINES MUST BE INSTALLED A MINIMUM DISTANCE OF 9'-0" FROM ANY EXISTING UTILITY LINES AND LATERALS. ALL VERTICAL CROSSINGS MUST CONFORM TO TCEQ, 301 CODE, CHAPTER 290, SEPARATION OF UTILITIES. WHEREVER POSSIBLE, ALL WATER LINES SHALL CROSS ABOVE SURFACE SEWER LINES.
6. THE CONTRACTOR SHALL PERFORM A HYDROSTATIC TEST ON THE FIRE LINE PER THE FIRE DEPARTMENT'S REQUIREMENTS. THE HYDROSTATIC TEST SHALL FOLLOW THE REQUIREMENTS OF THE CITY OF LIVE OAK FIRE CODE.
7. FOR ALL OTHER LINES SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, PER LOCAL JURISDICTIONAL REQUIREMENTS.
8. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL FITTING-TO-FITTING DIMENSIONS, TYPES, AND MATERIALS OF MATERIALS USED AND LOCATIONS FOR ALL VALVES, BENDS, ETC.
9. THE SITE SHALL BE EXCAVATED OR FILLED TO SUBGRADE PRIOR TO THE CONSTRUCTION OF WATER AND FIRE LINES BY THE CONTRACTOR.
10. ALL SERVICES SHALL BE BROUGHT TO WITHIN 5 FEET OF THE BUILDING. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF ALL SERVICES TO ALL SERVICES TO THE BUILDING.
11. REFER TO PLUMBING PLAN FOR LOCATION OF ALL WATER SERVICES TO BUILDING.
12. ALL SERVICES SHALL BE BROUGHT TO WITHIN 5 FEET OF THE BUILDING. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF ALL SERVICES TO ALL SERVICES TO THE BUILDING.
13. CONTRACTOR SHALL PROVIDE TEMPORARY BLOWOFFS AS REQUIRED TO FACILITATE FLUSHING THE LINES AFTER THE TESTING AND DISINFECTION PROCESS.
14. UNIT PRICE PER FOOT FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6" GATE VALVE, 6" VALVE BOX, ANCHOR BEND, AND ALL 6" CONNECTION PIPE. REQUIRED TO COMPLETE INSTALLATION. (EXCLUDE FROM PIPE SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
15. ALL FITTINGS SHALL BE MECHANICAL JOINT.
16. CONTRACTOR MUST BE AN APPROVED CITY OF LIVE OAK AND APPROVED FREELANCE CONTRACTOR.
17. ALL PIPE DIMENSIONS ARE APPROXIMATE ONLY.
18. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATION WITH ALL AGENCIES FOR ALL NECESSARY TESTS.
19. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND VALVES AS INDICATED ON THE ATTACHED WATER DISTRIBUTION SYSTEM DETAIL SHEET.
20. ALL FPRK STANDPIPS SHALL HAVE A 4" LINE CONNECTING TO FIRE DISTRIBUTION SYSTEM OF EACH BUILDING. CONTRACTOR SHALL VERIFY SIZE OF ALL STANDPIPES, PLANS, & DISCREPANCIES EXIST WITH MEAN PLAN SHALL GOVERN. AND CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. CONTRACTOR SHALL REFER TO MEP PLANS FOR DETAILS OF CONNECTION AND ALIGNMENT OF LINE.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES, ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD WHETHER SHOWN ON THIS PLAN OR NOT PRIOR TO INSTALLATION OF ANY NEW LINES.
5. ALL FILL MATERIALS SHALL BE PLACED IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
6. CONTRACTOR SHALL CALL FOR THE LOCAL JURISDICTIONAL INSPECTIONS AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE PROJECT MANUAL. THIS INCLUDES, BUT IS NOT LIMITED TO, MATERIALS AND INSTALLATION OF THE UTILITIES AND STORM DRAINS.
8. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
9. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. CURRENT "CITY OF LIVE OAK STANDARD SPECIFICATION FOR CONSTRUCTION"
 - B. CURRENT "CITY OF LIVE OAK UTILITY SERVICE REGULATIONS"
 - C. CURRENT CITY OF LIVE OAK "STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION"
 - D. CURRENT "TODD" STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND "RIGHT-OF-WAY ORDNANCE AND CRITERIA MANUAL"

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR DEPTH OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE INFORMATION PROVIDED BY THE CITY OF CHICAGO AND THE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS A GUARANTEE OF THE LOCATION AND/OR DEPTH OF UTILITIES TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, TELEPHONE, CABLE, RAILROAD, HIGH VOLTAGE SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUTY BANKS, LANDSCAPE IRRIGATION SYSTEMS AND GAS LINES. THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO AND THE UTILITIES AGENCIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO OBTAIN THE LOCATION AND DEPTH OF ALL UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF ANY DAMAGE TO UTILITIES. THE CONTRACTOR SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO ANY EXCAVATION OR CONSTRUCTION OF ANY TYPE. THE CONTRACTOR'S RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITIES SHOWN ON THESE

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY OR TADOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITY AND STORM DRAIN SYSTEMS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL CONDITION ANY AND ALL DAMAGE TO EXISTING TREES, BUILT-UP UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
4. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
5. ALL PAINT SHALL BE 4" WIDE REFLECTIVE PAINT: WHITE ON ASPHALT PAVING SURF AND YELLOW CONCRETE DAMAGED BY THE PAVING. SEE DRAWINGS.
6. ALL PAVEMENT MARKINGS SHALL RECEIVE TWO COATS OF PAINT.
7. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.
8. ALL SIGNS SHALL CONFORM TO MUTCD, LATEST EDITION.
9. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURB, AND SIDEWALK TO PROVIDE A SMOOTH TRANSITION. NO JAGGED OR IRREGULAR EDGES WILL BE ALLOWED.
10. ALL CURBS SHALL BE 6" HIGH UNLESS OTHERWISE NOTED.
11. ALL STANDARD PERPENDICULAR PARKING SPACES ARE 9' X 18'. AN COMPACT PARKING STALLS ARE 8' X 16' UNLESS DIMENSIONED OTHERWISE.

1. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 P.S.I. AND MEET THE REQUIREMENTS OF ASTM D22381 WITH ONE 20' JOINT CENTERED AT WATER MAIN.
2. NO VERTICAL STACKS SHALL BE ALLOWED
3. WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN LESS THAN 8' IN FT. OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 160 P.S.I. (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH CITY OF CHICAGO CONSTRUCTION CODE FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
4. ALL SEWER PIPES SHALL BE PVC (SDR 26), UNLESS OTHERWISE NOTED.
5. PRIOR TO CONSTRUCTION CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM INVERT SHOWN ON PLANS.
6. CONTOURS SHOWN ARE FOR GRAPHICAL USE ONLY.
7. MANHOLE OPENINGS ARE 30" AS PER CODE CHAPTER 217.55
8. ALL 6" SEWER LATERALS WILL BE SET TO A MINIMUM 2% SLOPE.
9. BACKFILL MUST COMPLY WITH CITY OF LAKE OAK SPECIFICATIONS.
10. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE 0.50 FEET ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS WITH WATER TIGHT LIDS.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR CONTRACTOR'S DESIGN/ GEO/TECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND/OR MAINTENANCE OF THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE STATEMENT OF WORK. CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, THE FOLLOWING: (1) THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE STATE OF CALIFORNIA TRENCHING AND SHIELDING ACTIVITY OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002880

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The Dick's Sporting Goods logo is located in the bottom right corner. It features the word "DICK'S" in large, bold, black capital letters, with a basketball icon integrated into the letter "I". Below "DICK'S" is the phrase "SPORTING GOODS" in a smaller, bold, black sans-serif font.

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

	PROPERTY LINE
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT
	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
	PROPOSED OVERHEAD ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
	PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
	EXISTING STORM DRAINAGE
	PROPOSED STORM DRAINAGE
	EXISTING GAS LINE
	PROPOSED ELECTRICAL PULL BOX
	PROPOSED ELECTRICAL MANHOLE
	WATER/STORM DRAIN CROSSING
	WATER/SANITARY SEWER CROSSING

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRICAL, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINE. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TEST AT A MINIMUM OF 10% OF THE UTILITIES PRIOR TO START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND TO THE EXTENT OF HIS/HER KNOWLEDGE, DETERMINE THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION PROTECTION FOR THE PROJECT CONSTRUCTION TO MEET ALL STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA REGULATIONS AND ALL OTHER LAWS, RULES AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

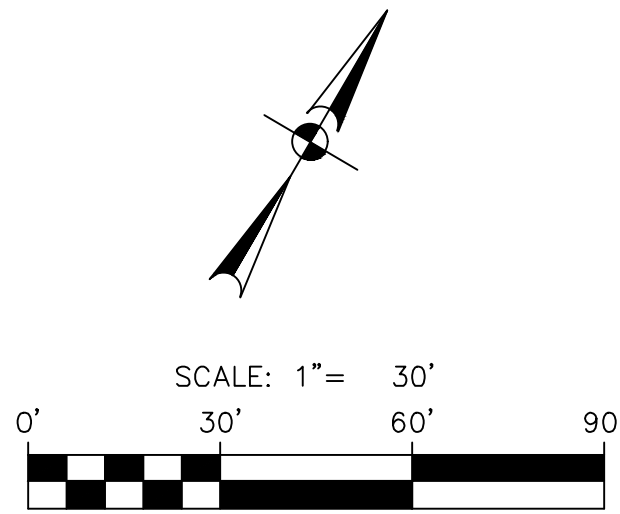
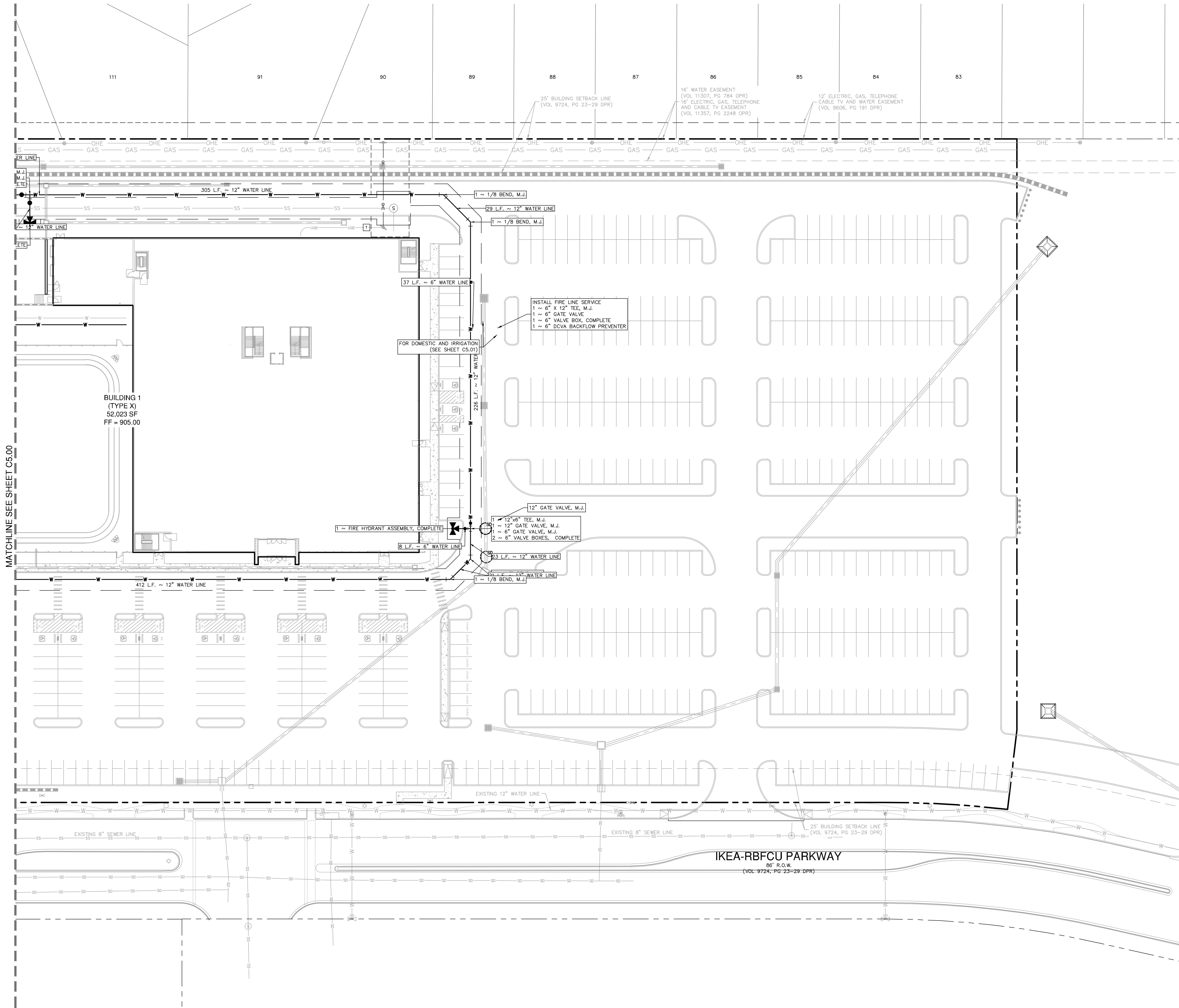
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LEGEND	
	PROPERTY LINE
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT
	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
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	PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
	EXISTING STORM DRAINAGE
	PROPOSED STORM DRAINAGE
	EXISTING GAS LINE
	PROPOSED ELECTRICAL PULL BOX
	PROPOSED ELECTRICAL MANHOLE
	WATER/STORM DRAIN CROSSING
	WATER/SANITARY SEWER CROSSING

CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DISTRIBUTION, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-DEEP A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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

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DICK'S SPORTING GOODS

LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

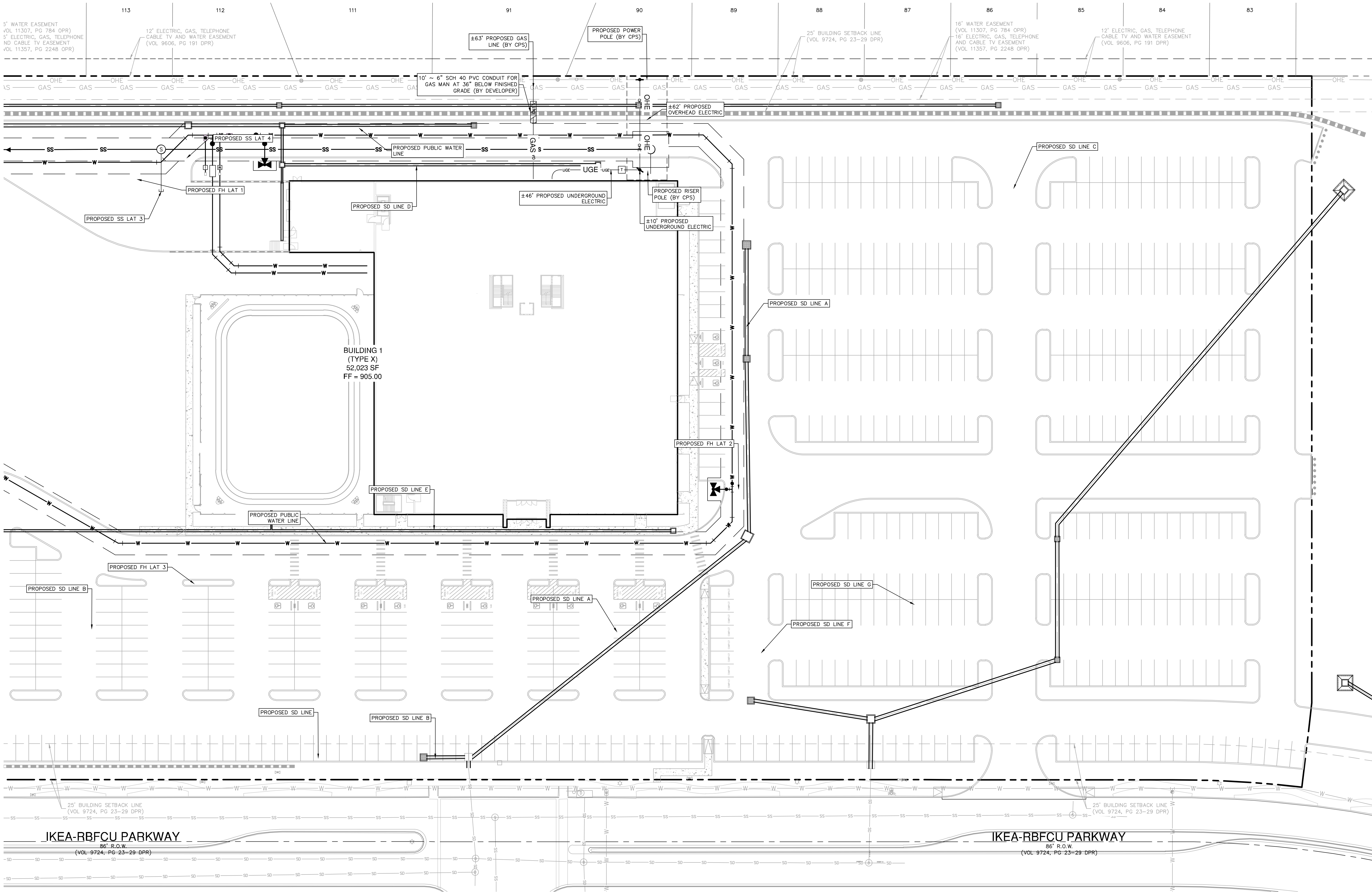
PROJECT NUMBER:		1359
NO.	ISSUE	DATE

PUBLIC WATER PLAN
SHEET 2 OF 2

SHEET NUMBER:
C2.01

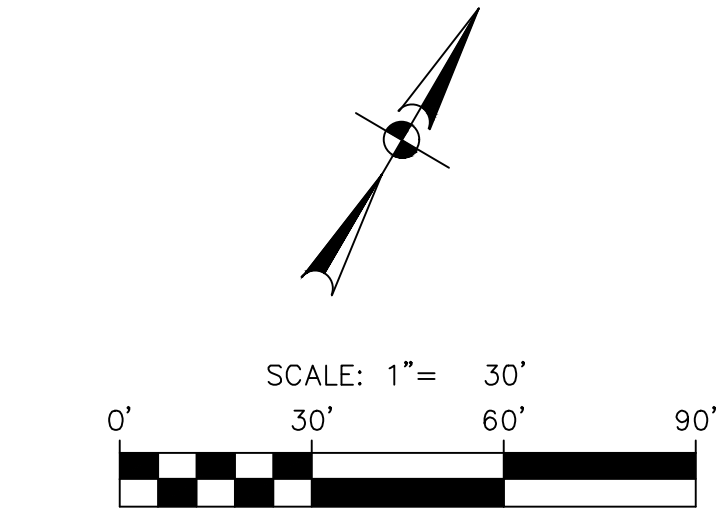
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LEGEND

- PROPERTY LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER MANHOLE
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- PROPOSED UNDERGROUND ELECTRIC LINE (REFER TO CPS/ELECTRICAL PLAN)
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- PROPOSED TRANSFORMER LOCATION (REFER TO CPS/ELECTRICAL PLAN)
- EXISTING STORM DRAINAGE
- PROPOSED STORM DRAINAGE
- EXISTING GAS LINE



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DICK'S SPORTING GOODS

SELF-DEVELOPED STORES
All work, materials, and systems shown in these plans and specifications, including all referenced national accounts, is the sole responsibility of the General Contractor to purchase, schedule, and install complete as shown and referenced. The Tenant (Dick's Sporting Goods) has no scope of work and/or responsibility shown in these plans and/or specifications.

DICK'S HOUSE OF SPORT
LIVE OAKS TOWN CENTER
SWQ 1-35 & LOOP 1604 W.
LIVE OAKS, TX 78233

PROJECT NUMBER:		1359
NO.	ISSUE	DATE

OVERALL UTILITY PLAN

SHEET NUMBER:

C3.00

DD SET

Diagram showing various pipe joint details and cross-sections for thrust blocks for fittings (water only). Includes a table of dimensions and a note about concrete blocking.

PIPE SIZE (INCH)	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 200 PSI	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 150 PSI
8	57	44
10	67	50
12	109	82

PROPERTY OF SAN ANTONIO WATER SYSTEM
THURST BLOCKS FOR FITTINGS (WATER ONLY)
DD-839-01
APPROVED: MARCH 2008
REVISED: AUG 2019
SHEET 1 OF 2

Diagram showing various pipe joint details and cross-sections for restrained length design. Includes a table of dimensions and a note about concrete blocking.

PIPE SIZE (INCH)	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 200 PSI	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 150 PSI
8	57	44
10	67	50
12	109	82

PROPERTY OF SAN ANTONIO WATER SYSTEM
RESTRAINED LENGTHS FOR DEAD ENDS / IN-LINE VALVES
DD-839-05
APPROVED: MARCH 2008
REVISED: AUG 2019
SHEET 1 OF 1

Diagram showing various pipe joint details and cross-sections for restrained length design. Includes a table of dimensions and a note about concrete blocking.

PIPE SIZE (INCH)	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 200 PSI	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 150 PSI
8	57	44
10	67	50
12	109	82

PROPERTY OF SAN ANTONIO WATER SYSTEM
RESTRAINED LENGTHS FOR HORIZONTAL BENDS
DD-839-08
APPROVED: MARCH 2008
REVISED: AUG 2019
SHEET 1 OF 1

Diagram showing various pipe joint details and cross-sections for restrained length design. Includes a table of dimensions and a note about concrete blocking.

PIPE BRANCH (INCH)	LENGTH OF RUN (FEET)	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 200 PSI	RESTRAINED LENGTH (FEET) WHEN TEST PRESSURE = 150 PSI
8	4	7	1
6	4	7	1
4	4	7	1
2	4	7	1
1	4	7	1
1/2	4	7	1
3/8	4	7	1
1/4	4	7	1
3/16	4	7	1
1/8	4	7	1
1/16	4	7	1
1/32	4	7	1
1/64	4	7	1
1/128	4	7	1
1/256	4	7	1
1/512	4	7	1
1/1024	4	7	1
1/2048	4	7	1
1/4096	4	7	1
1/8192	4	7	1
1/16384	4	7	1
1/32768	4	7	1
1/65536	4	7	1
1/131072	4	7	1
1/262144	4	7	1
1/524288	4	7	1
1/1048576	4	7	1
1/2097152	4	7	1
1/4194304	4	7	1
1/8388608	4	7	1
1/16777216	4	7	1
1/33554432	4	7	1
1/67108864	4	7	1
1/134217728	4	7	1
1/268435456	4	7	1
1/536870912	4	7	1
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1/2147483648	4	7	1
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