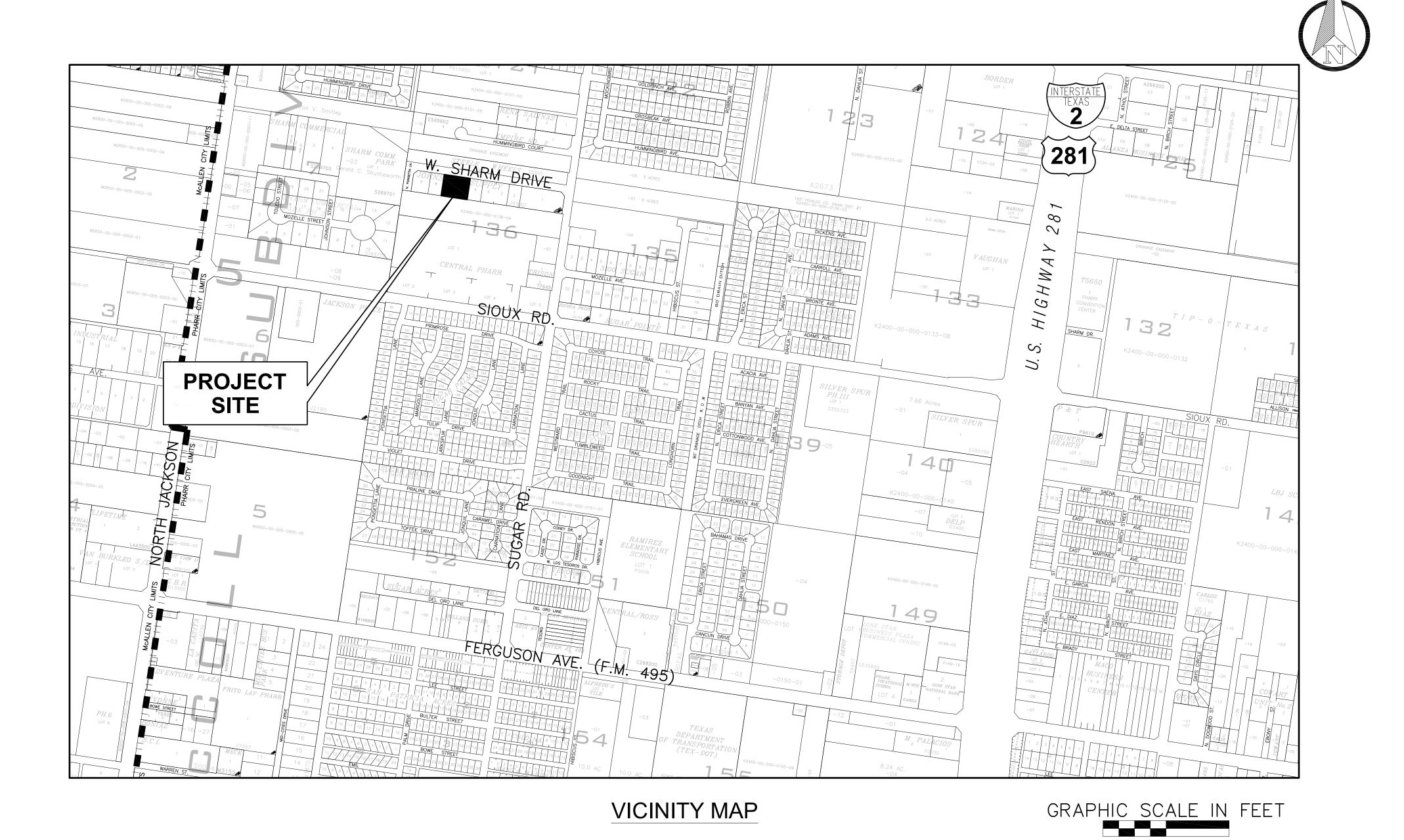
CONSTRUCTION PLANS FOR

TRDI OFFICE AND WAREHOUSE

LOCATION: PHARR, TEXAS



KEY MAP N. T. S. STARR COUNTY HIDALCO COUNTY CAMERON COUNTY MAP AREA RO GRANDE VALLEY

(SEE KEY MAP RIGHT)

PREPARED FOR:

OWNER: TRDI 210.572.0402 425 SOLEDAD, SUITE 800 SAN ANTONIO, TX 78205

PHARR CITY COMMISSION

MAYOR		DR. AMBROSIO "AMOS" HERNANDE
COMMISSIONER PLACE	1	MICHAEL PACHEC
COMMISSIONER PLACE	2	:ROBERTO "BOBBY" CARRILL
COMMISSIONER PLACE	3	RAMIRO CABALLERO
COMMISSIONER PLACE	4	DANIEL CHAVE
COMMISSIONER PLACE	5	RICARDO MEDINA
COMMISSIONED DI ACE	6	IT7A ELODE

METADATA:

1. COORDINATES AND DISTANCES ARE US SURVEY FEET DISPLAYED IN GRID VALUES. GRID VALUES MAY BE CONVERTED TO SURFACE VALUES BY MULTIPLYING BY THE TXDOT SURFACE ADJUSTMENT FACTOR OF 1.00004.

2. COORDINATES ON THIS PROJECT ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), TEXAS STATE PLANE, SOUTH ZONE, US SURVEY FEET.

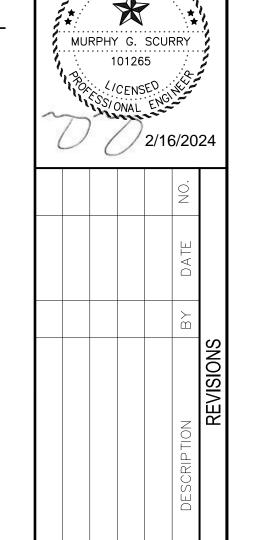
3. ELEVATIONS ON THIS PROJECT ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

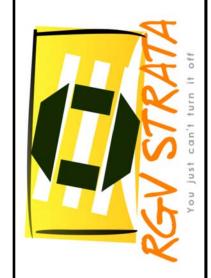
4. ALL HORIZONTAL CONTROL ON THIS PROJECT WAS ESTABLISHED UTILIZING RTK GPS METHODS.

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GENERAL CONSTRUCTION NOTES

TO EXCAVATION OPERATIONS.

1.) ALL INSTALLATION OF WATERLINES, VALVES, METERS, AND FITTINGS SHALL BE IN CONFORMANCE WITH THE CITY OF PHARR STANDARDS.

2.) THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND ELECTRICAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE. HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS, QUALITIES AND SIZES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE, SIZE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE PRIOR

3.) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.

4.) ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE STATE STATUES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT.

5.) THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT, AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.

6.) EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.

7.) CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW THE TESTING PERSONNEL ACCESS TO THE WORK SITE AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM.

8.) A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.

9.) THE DRAWINGS DO NOT ALWAYS INDICATE ALL VERTICAL BENDS AND TRANSITIONS. WHEN NECESSARY, MAKE VERTICAL TRANSITIONS BY A DEFLECTION AT THE JOINTS OR THE INSTALLATION OF FITTINGS. DO NOT DEFLECT PIPE JOINTS MORE THAN THE MANUFACTURERS RECOMMENDATION.

10.) ALL UNDERGROUND PIPING MUST BE INSTALLED WITH A MINIMUM OF 36-INCHES OF COVER UNLESS OTHERWISE NOTED ON THE PLANS.

11.) ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.

12.) THERE WILL BE NO BLASTING ALLOWED ON THIS PROJECT.

13.) ALL PIPES, VALVES, FITTINGS AND OTHER APPURTENANCES SHALL BE RATED FOR 150 PSI, UNLESS OTHER WISE

14.) ANY SAFETY DEVICES, WARNING LIGHTS, CONTROLS, ALARMS OR OTHER DEVICES SHOWN ON ANY PLANS OR CALLED FOR BY ANY SECTION OF THE SPECIFICATIONS SHALL BE MADE OPERABLE. THE CONTRACTOR SHALL SUPPLY ALL CONDUIT, WIRING, SWITCHES, SENSORS, OR ANY OTHER MATERIALS NECESSARY TO CONNECT THE DEVICE AND MAKE IT OPERABLE.

15.) ALL UTILITIES WHICH ARE TO REMAIN AND WHICH ARE DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

16.) ALL UNDERGROUND PIPE SHALL BE BACK FILLED WITH JOINTS EXPOSED FOR TESTING, BEFORE NEW JOINTS ARE COVERED. PRESSURE LINES ARE TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 150 PSIG FOR A PERIOD OF TWO(2) HOURS. THE OWNER SHALL OBSERVE AND APPROVE OR REJECT THE TEST. REPAIRS, IF REQUIRED, SHALL BE MADE AND THE LINE SHALL BE RETESTED UNTIL APPROVED. TEST SHALL NOT BEGIN UNTIL CONCRETE THRUST BLOCKS HAVE AGED A MINIMUM OF 24 HOURS.

SUBSTITUTE FOR THE DETAILED REQUIREMENTS SET FORTH IN THE SPECIFICATIONS. WHERE THERE IS A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.

18.) AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY A PERMANENT STRUCTURE SHALL BE BACKFILLED.

19.) AREAS USED FOR THE CONTRACTOR'S JOB TRAILER, PERSONNEL PARKING, MATERIAL STORAGE, SPOILS STOCKPILE, MATERIAL FABRICATION AND RELATED CONSTRUCTION USES MUST BE APPROVED BY THE PROJECT ENGINEER.

20.) WHERE THE WATER TRANSFER LINE INSTALLATION INTERSECTS SANITARY SEWER SYSTEM MAINS AT LESS THAN 9.0 FEET SEPARATION, THE CONTRACTOR SHALL INSTALL A 20 FOOT SECTION OF C-900 PVC PRESSURE PIPE CENTERED ON THE POINT OF INTERSECTION.

21.) CONTRACTOR SHALL REMOVE AND REINSTALL ALL SIGNS, MAILBOXES, FENCES, CULVERTS AND OTHER ITEMS IN WAY OF THE WORK. (NO SEPARATE PAY)

22.) CONTRACTOR SHALL REPAIR AND RESTORE ALL PAVED AREAS AFFECTED BY OPEN CUTS. TO A BETTER STATE THAN PRE-CONSTRUCTION CONDITIONS, WITH LIKE MATERIALS. (NO SEPARATE PAY)

23.) PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.

24.) MAINTAIN COVER BELOW DITCHES AND SURFACE DEPRESSIONS. PRESSURE UTILITIES MAY BE LAID APPROXIMATELY PARALLEL TO GRADE, UNLESS OTHERWISE INDICATED, WITH LOCAL DEEPENING TO AVOID OTHER UTILITIES OR OBSTRUCTIONS. PROVIDE PROTECTION WHERE COVER IS TEMPORARILY REDUCED.

25.) ANCHOR ALL UNDERGROUND PRESSURE PIPING AS NECESSARY TO PREVENT MOVEMENT UNDER PRESSURE TEST AND

26.) ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60. ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.

27.) ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.

EROSION CONTROL NOTES

1.) THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION AND SEDIMENTATION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN.

2.) AT A MINIMUM THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

3.) ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.

4.) THE CONTRACTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE DISTURBANCE TO THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN APPROVED DESIGNATED SOIL DISPOSAL AREA.

5.) EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADINGS OF DOWNSTREAM FACILITIES. SUCH INSTALLATIONS SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE OWNER, THEY ARE WARRANTED.

6.) ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED BEFORE CONSTRUCTION COMMENCES, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL BE REMOVED WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED. ADDITIONAL PROTECTION MAY BE NECESSARY IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.

7.) ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.

8.) ALL STAGING, MATERIAL STORAGE, STOCKPILE AND REFUSE AREAS SHALL REQUIRE APPLICABLE EROSION AND SÉDIMENT CONTROL MEASURES.

9.) ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED WITHIN APPROPRIATE RECEPTACLES (ROLL—OFF CONTAINERS, DUMPSTERS, TRASH CANS, WIRE-MESH CAGES, ETC.) AND CONFINED WITHIN PERIMETER EROSION AND SEDIMENT CONTROLS.

10.) THE CONTRACTOR MAY REFER TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (2004 EDITION) ITEM 164, "SEEDING FOR EROSION CONTROL" AND ITEM 168, "VEGETATIVE WATERING" FOR VEGETATIVE STABILIZATION SPECIFICATIONS.

11.) DUST CONTROL SHALL BE IMPLEMENTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER. DUST CONTROL MAY CONSIST OF WATERING OR OTHER METHODS APPROVED BY THE PROJECT ENGINEER.

12.) ALL DISCHARGES ASSOCIATED WITH DEWATERING OPERATIONS SHALL IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SEDIMENTATION BASINS OR FILTER

13.) CONCRETE WASH-WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM SEWER SYSTEM OR RECEIVING STREAM. ALL WASH ACTIVITIES MUST BE PERFORMED WITHIN THE EXTENTS OF ESTABLISHED EROSION AND SEDIMENT CONTROL MEASURES OR DESIGNATED AREAS APPROVED BY PROJECT ENGINEER.

14.) SEDIMENT SHALL BE CLEARED FROM ALL STORM SEWER PIPES, CULVERTS AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO FINAL PROJECT ACCEPTANCE. SEDIMENT SHALL BE PROPERLY DISPOSED.

TCEQ NOTES

1.) THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.

2.) PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE OWNER OF THE SYSTEM OR HIS REPRESENTATIVE MUST NOTIFY THE APPROPRIATE TCEQ REGIONAL OFFICE IN WRITING OF THE DATE ON WHICH CONSTRUCTION WILL BEGIN.

3.) ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.

4.) PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS.

5.) NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.

6.) WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE.

7.) THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CÚRRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE.

8.) THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES IN THE DISTRIBUTION SYSTEM AT ALL POINTS WHERE TOPOGRAPHY OR OTHER FACTORS MAY CREATE AIR LOCKS IN THE LINES. ALL VENT OPENINGS TO THE ATMOSPHERE SHALL BE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT.

9.) THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES AND SEPTIC TANK DRAINFIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET '290.44(E) OF THE CURRENT RULES.

10.) THE CONTRACTOR SHALL DISINFECT THE NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARD C651 AND THEN FLÜSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER.

11.) THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.

UTILITIES AND STORM WATER

1.) THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OWNER TO ADJUST THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OWNER TO ADJUST OR RELOCATED UTILITIES THAT WILL INTERFERE WITH THE PROPOSED IMPROVEMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO EXISTING GAS LINES, PRODUCT PIPELINES, FIBER OPTIC LINES, UTILITY POLES, TELEPHONE/CABLE TV PEDESTALS, ELECTRICAL DUCT BANKS, JUNCTION BOXES, ETC. WHERE FEASIBLE, THESE EXISTING UTILITIES SHOULD BE ADJUSTED OR RELOCATED PRIOR TO BEGINNING WORK ON THE AFFECTED CONSTRUCTION PHASE. EXISTING WATERLINES AND WASTEWATER LINES THAT INTERFERE WITH THE PROPOSED IMPROVEMENTS SHALL BE RELOCATED BY THE CONTRACTOR.

2.) EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES SUFFICIENTLY AND IN ADVANCED OF TRENCHING AND EXCAVATION OPERATIONS TO AVOID DAMAGE EXISTING UTILITIES OR CAUSING UNNECESSARY DELAYS.

3.) EXISTING STORM WATER PIPES, BOXES, MANHOLES, INLETS, ETC. TO BE REMOVED SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.

4.) ALL CURB INLETS SHALL HAVE A 5' TO 10' LONG THROAT, AS SHOWN ON THE DRAWINGS. THROAT OPENINGS 8 FEET LONG OR LONGER SHALL HAVE A 6"X6"X6" CONCRETE SUPPORT AT MID-THROAT.

5.) SHALLOW ABANDONED PIPES (OLD WATERLINES, DITCH, CULVERTS, UTILITY SHALLOW ABANDONED PIPES (OLD WATERLINES, DITCH, CULVERTS, UTILITY SERVICES, ETC.) WITHIN LIMITS OF R.O.W SHALL BE REMOVED AND PROPERLY DISPOSED OF. THIS GENERALLY APPLIES TO ALL UNWANTED PIPES THAT ARE WITHIN ONE FOOT OF SUBGRADE, DITCH CULVERT, AND ANY ABANDONED PIPES WHICH COULD IMPACT THE PROPOSED WORK. ALL ABANDONED LINES TO REMAIN IN PLACE SHALL BE CAPPED AT THE ENDS AND CUT FOR REMOVAL OF SECTIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. EXCEPT AS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS, NO DIRECT PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK; IT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS FOR WATER AND WASTEWATER IMPROVEMENTS.

6.) IF ACTIVE BURIED PIPELINES OR UTILITIES ARE ENCOUNTERED WITHIN 1 FT OF SUBGRADE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THESE LINES MAY REQUIRE ENCASEMENT OR NEED TO BE REROUTED.

7.) ALL STORM WATER PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE WITH TYPE B WALL AND TONGUE AND GROVE JOINTS PER ASTM C-76, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

8.) STORM WATER JUNCTION BOXES MAY BE CAST-IN-PLACED OR PRECAST REINFORCED CONCRETE, AT THE CONTRACTOR'S OPTION. CONCRETE FOR CAST-IN-PLACE JUNCTION BOXES SHALL BE CLASS "C" (3600 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS). CONCRETE PRECAST JUNCTION BOXES SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 5000 PSI AT 28 DAYS.

9.) MITERED ENDS FOR REINFORCED CONCRETE PIPES AND BOX CULVERTS MAY BE PRECAST SECTIONS OR FIELD CUT, AT THE CONTRACTOR'S OPTION. NO SEPARATE PAYMENT WILL BE MADE FOR THESE SUBSIDIARY ITEMS.

10.) UTILITY TRENCHES SHALL BE SHEATHED AND BRACED AS REQUIRED TO MAINTAIN A SAFE WORKING AREA FOR WORKERS, IN ACCORDANCE WITH O.S.H.A. STANDARDS, 29 CFR PART 1926, SUBPART P "EXCAVATIONS". EXCAVATIONS".

11.) TRENCH EXCAVATION SHALL NOT PRECEDE BACKFILL BY MORE THAN 200 FEET. NO TRENCH SHALL BE LEFT OPEN AFTER NORMAL WORKING HOURS.

12.) ALL OPEN EXCAVATIONS SHALL BE ENCLOSED WITH HIGH—DENSITY POLYETHYLENE 4—FT HIGH ORANGE SAFETY BARRICADE FENCE (TENSAR UX4060 OR APPROVED EQUIVALENT) AND DRUMS.

13.) ALL VALVE BOXES AND MANHOLES REQUIRING ADJUSTMENT SHALL BE LOCATED BY STATION AND OFFSET AND TIED TO EXISTING FEATURES THAT WILL REMAIN IN PLACE. ALL NEW AND EXISTING VALVES AND MANHOLES SHALL BE EXTENDED TO FINISH GRADE. ELEVATIONS SHOWN ON DRAWINGS ARE APPROXIMATE, CONTRACTOR SHALL ADJUST VALVE BOXES AND MANHOLES TO FINISH GRADE.

14.) THE CONTRACTOR SHALL LOCATE ALL EXISTING WATER AND WASTEWATER SERVICE CONNECTIONS ALONG THE PROJECT CORRIDOR BY PRE-CONSTRUCTION EXCAVATION OR OTHER MEANS. NO DIRECT PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK; IT WILL CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS FOR STORM WATER, WATER AND WASTEWATER IMPROVEMENTS.

15.) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE. ALL PIPES, UTILITIES AND OTHER FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE CITY'S SATISFACTION, WITH NO ADDITIONAL PAYMENT TO THE CONTRACTOR.

16.) PAVEMENT REPAIR FOR UTILITY TRENCH SHALL BE PAID FOR ONLY IF THE REPAIR OCCURS OUTSIDE THE LIMITS OF PROPOSED STREET RECONSTRUCTION. TRENCH RESTORATION ALONG EXISTING PAVEMENT THAT ARE SCHEDULE FOR SUBSEQUENT RECONSTRUCTION SHALL INCLUDE TRENCH BACKFILL AS SHOWN ON THE PLANS AND TEMPORARY REPLACEMENT FOR BASE COURSE WITH LOW P.I. MATERIAL THAT IS CONDUCIVE FOR SALVAGE, AND SURFACE TREATMENT.

17.) WHERE UTILITY WORK IS PERFORMED UNDER AREAS OF THE EXISTING ROADWAY, THAT ARE REQUIRED TO CARRY TRAFFIC PRIOR TO COMPLETION OF THE STREET IMPROVEMENTS, THE CONTRACTOR SHALL APPLY SURFACE TREATMENT ON TOP OF THE BASE OR BACKFILL MATERIAL UNTIL SUCH TIME THAT THE PROPOSED PAVEMENT SECTION IS CONSTRUCTED. THESE TEMPORARY PAVEMENTS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE

18.) PRECAST CURB INLETS, IF ALLOWED, SHALL HAVE CAST-IN-PLACE THROAT AND TOP.

19.) A PIPE COLLAR SHALL BE USED WHERE PROPOSED STORM WATER IS TO BE CONNECTED TO SAME SIZE EXISTING STORM WATER. PIPE COLLARS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. PIPE COLLARS WILL NOT BE REQUIRED AT STRAIGHT (NON-SKEWED) TONGUE-AND-GROVE CONNECTIONS FOR SAME SIZE PIPES UNLESS THE JOINT IS DAMAGED.

20.) UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS. DEWATERING OF OPEN EXCAVATIONS AND UTILITY AND STORM WATER TRENCHES WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS. REFER TO CITY STANDARD CONSTRUCTION SPECIFICATION 022021 CONTROL OF GROUND WATER.

21.) PROVIDE TEMPORARY OUTFALLS FOR STORM WATER RUNOFF UNTIL DOWNSTREAM STORM WATER IMPROVEMENTS ARE COMPLETED. THIS MAY REQUIRE TEMPORARY PUMPING OF STORM WATER RUNOFF INTO EXISTING STORM WATER SYSTEM. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS SUBSIDIARY WORK.

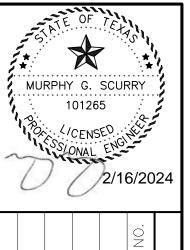
22.) CONTRACTOR SHALL PROVIDE 6" OF CEMENT—STABILIZED SAND BEDDING BENEATH ALL PRECAST CONCRETE BOX CULVERTS, STORM WATER MANHOLES AND JUNCTION BOXES. NO ADDITIONAL PAVEMENT WILL BE MADE TO THE CONTRACTORS FOR THIS SUBSIDIARY WORK.

23.) PROPOSED MANHOLE RIM ELEVATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL SET MANHOLE RIMS AT FINISH GRADE ELEVATION.

24. CONTRACTOR SHALL PROVIDE TO THE ENGINEER DIGITAL QUALITY PHOTOGRAPHS FOR ALL WATER, WASTEWATER AND STORM WATER CONNECTIONS AND/OR FITTINGS PRIOR TO BACKFILLING THE TRENCH OR EXCAVATION. THE PHOTOS SHALL BE DATE AND TIME STAMPED.

25. CONTRACTORS SHALL PROVIDE TELEVISED INSPECTION OF ALL STORM WATER CONDUITS AND WASTEWATER LINES PRIOR TO LAYING PERMANENT PAVEMENT. TELEVISED INSPECTION DOCUMENTATION MUST BE SUBMITTED TO THE CITY AND THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE CITY BEFORE ANY PERMANENT PAVEMENT IS PLACED OVER THE STORM WATER CONDUITS OR WASTE WATER LINES.

26. CONTRACTORS SHALL COORDINATE WITH PROPERTY OWNER PRIOR TO ACCESSING PRIVATE PROPERTY INCLUDING UTILITY EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS. ALL PERIMETER FENCE REMOVED TO GAIN ACCESS TO THE SITE SHALL BE REPLACED WITH NEW FENCE OF THE SAME MATERIAL. CONTRACTOR SHALL MAINTAIN SITE SECURITY BY MEANS OF TEMPORARY FENCING UNTIL PERMANENT FENCE HAS BEEN INSTALLED. CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY HIS ACTIVITIES TO PRECONSTRUCTION CONDITION. RESTORATION EFFORTS INCLUDE, BUT ARE NOT LIMITED TO ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PLACE TOPSOIL AND SOD OR SEEDING, CONSTRUCT ASPHALT PAVEMENT REPAIRS, CONCRETE SIDEWALK REPAIRS, CONCRETE DRIVEWAY REPAIRS AND CONCRETE PAVEMENT REPAIRS, AS NEEDED. UNLESS NOTED OTHERWISE, ALL OF THE WORK LISTED HEREIN SHALL BE SUBSIDIARY TO THE VARIOUS PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.



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WATER DISTRIBUTION SYSTEM

1.) ANY WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TCEQ RULES AND REGULATION FOR PUBLIC WATER SYSTEMS 30 TAC CHAPTER 290 SUBCHAPTER D. AND THE CITY OF PHARR WATER DISTRIBUTION SYSTEM STANDARDS. ALSO, NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.

2.) THE CONTRACTOR SHALL NOT OPERATE EXISTING VALVES WITHOUT THE PRESENCE OF A WATER DEPARTMENT RÉPRESENTATIVE.

3.) WATER METERS SHALL BE ACCESSIBLE DURING CONSTRUCTION.

4.) THE CONTRACTOR SHALL COORDINATE WITH CITY WATER DEPARTMENT PERSONNEL TO SCHEDULE OPTIMUM TIME FOR WATER CONNECTION TIE-INS.

5.) VALVE BOXES AND METER BOXES TO REMAIN IN SERVICES SHALL BE ADJUSTED TO FINISH GRADE. ALL EXISTING AND PROPOSED WATER VALVES SHALL BE CONSTRUCTED WITH A CONCRETE COLLAR.

6.) ABANDONED WATER FITTINGS, VALVES, FIRE HYDRANTS, ETC. SHALL BE RECOVERED AND STOCKPILED AT A SECURE LOCATION BY THE CONTRACTOR FOR SALVAGE BY THE CITY. HOWEVER, ALL RELATED ITEMS THAT ARE UNWANTED BY THE CITY SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN AN APPROPRIATE MANNER.

7.) WATERLINES TO BE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE GROUT MATERIAL, AND SHALL BE DÉTACHED AND CAPPED AT A MINIMUM OF 10 FEET FROM THE CONNECTION POINT. SEE SPECIFICATION 026214.

8.) FITTINGS UTILIZED FOR THE WATERLINE INSTALLATION SHALL BE DUCTILE IRON. EACH FITTING SHALL BE WRAPPED IN TWO LAYERS OF POLYETHYLENE (8 MIL THICKNESS). THE WRAPPING SHALL BE LAPPED IN SUCH A MANNER THAT ALL SURFACE OF THE PIPE VALVES AND FITTINGS, INCLUDE JOINTS, SHALL HAVE A DOUBLE THICKNESS OF POLYETHYLENE.

9.) CONNECTIONS TO THE EXISTING WATER SYSTEM WILL BE PAID FOR AS INDICATED IN THE BID FORM.

10.) WATER LINES SHALL BE PLACED 36" BELOW FINAL GRADE UNLESS NOTED OTHERWISE. WHERE A WASTEWATER LINE AND A WATER LINE CROSS, THE WATERLINE SHALL BE PLACED OVER THE WASTEWATER LINE WITH A USUAL VERTICAL CLEARANCE OF 2 FEET. IF THIS IS NOT POSSIBLE, THE WASTE WATER LINE SHALL BE C900 OR C905 WITH A MINIMUM PRESSURE RATING OF 150 PSI, OR SHALL BE ENCASED WITH A STANDARD 20-FT. LENGTH OF PRESSURE PIPE.

11.) PIPE BETWEEN FITTINGS AT VERTICAL AND HORIZONTAL CHANGES IN ALIGNMENT SHALL BE DUCTILE IRON PIPE WITH JOINT RESTRAINT DEVICES. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK; IT SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEMS FOR WATER IMPROVEMENTS.

12.) ALL ASBESTOS CEMENT (AC) PIPE DETERMINED TO BE IN CONFLICT WITH THE IMPROVEMENTS WHETHER DESIGNATED OR NOT FOR REMOVAL SHALL BE DISPOSED OF IN STRICT COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DISPOSAL OF AC PIPE WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY WORK.

13.) WHERE EXISTING WATER SERVICE LINE CONNECTS TO EXISTING WATERLINE TO BE REMOVED OR ABANDONED, PROVIDE NEW WATER SERVICE LINE OF SAME SIZE FROM NEW PVC WATERLINE TO EXISTING WATER METER.

14.) THE EXACT LOCATION AND SIZE OF EACH INDIVIDUAL WATER SERVICE CONNECTION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR PRIOR TO INSTALLATION OF THE PROPOSED WATERLINES. CONTRACTORS SHALL INSTALL THE APPROPRIATE SIZE WATER SERVICE FROM THE MAIN TO THE EXISTING WATER METER IN ACCORDANCE WITH THE CITY OF PHARR STANDARD WATER DETAILS.

WASTEWATER

1.) ABANDONED SERVICES SHALL BE COMPLETELY REMOVED AND CAPPED AT THE MAIN OR MANHOLE.

2.) NEITHER BLUE PVC PIPE NOR DUCTILE IRON PIPE SHALL BE USED FOR WASTEWATER LINES.

3.) ABANDONED WASTEWATER MAINS SHALL BE FILLED WITH FLOWABLE GROUT MATERIAL. THE UPPER 5 FEET OF ABANDONED MANHOLES AND ABANDONED CLEAN-OUTS SHALL BE REMOVED AND THE EXCAVATIONS SHALL BE BACKFILLED WITH SELECT EXCAVATED MATERIAL AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY (ASTM D698).

4.) ALL NEW AND EXISTING WASTEWATER MANHOLES SHALL BE ADJUSTED TO FINISH GRADE.

5.) CLEANING, BYPASS PUMPING AND ISOLATION OF 8" WASTEWATER LINE FOR SLIPLINING AND FOR RESTORING SERVICE CONNECTION SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.

6.) CLEANING OR PURGING OF EXISTING WASTEWATER LINES REQUIRED FOR CONNECTING INTO NEW WASTEWATER LINES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR CLEANING OR PURGING OF THESE LINES.

7.) ALL WASTEWATER MANHOLES INSTALLED ON THIS PROJECT SHALL BE FIBERGLASS. THE MANHOLE MANUFACTURER SHALL PROVIDE CERTIFICATION AND DESIGN CALCULATIONS TO THE CITY SHOWING THAT THE MANHOLES ARE DESIGNED FOR HL93 TRAFFIC LOADING AND THE APPLICABLE SOIL AND HYDROSTATIC PRESSURE LOADING CONDITIONS. MINIMUM WALL THICKNESS SHALL BE 0.5 INCH. IF REQUIRED BY THE MANUFACTURER'S DESIGN, HORIZONTAL RIBS AND/OR VERTICAL STIFFENERS MAY BE UTILIZED TO ACHIEVE THE REQUIRED DESIGN CHARACTERISTICS.

8.) WHERE A NEW PVC WASTEWATER LINE IS TO BE CONNECTED TO AN EXISTING VERIFIED CLAY PIPE WASTEWATER LINE, THE CONNECTIONS SHALL BE MADE WITH ONE OF THE FOLLOWING APPROVED COUPLING ADAPTERS: MISSION RUBBER COMPANY FLEX-SEAL ADJUSTABLE REPAIR COUPLING (ARC) FERNCO 5000 SERIES REPAIR COUPLING (RC) NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE COUPLING ADAPTER.

9.) WHERE EXISTING WASTEWATER SERVICE LINE CONNECTS TO EXISTING WASTEWATER TO BE REPLACED, PROVIDE NEW WASTEWATER LINE OF SAME SIZE (4" MINIMUM DIAMETER) FROM NEW PVC WASTEWATER MAIN TO EXISTING PRIVATE SEWER LINE AT THE PROPERTY LINE.

10.) THE EXACT LOCATION AND SIZE OF EACH INDIVIDUAL WASTEWATER SERVICE CONNECTION SHALL BE DETERMINED IN THÉ FIELD BY THE CONTRACTOR PRIOR TO INSTALLATION OF THE PROPOSED WASTEWATER LINES. CONTRACTOR SHALL ALSO DETERMINE THE APPROPRIATE TYPE OF WASTEWATER SERVICE CONNECTION TO BE USED AND INSTALL NEW WASTEWATER SERVICE IN ACCORDANCE WITH CITY OF PHARR WASTEWATER STANDARD DETAILS.

11.) CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS OF SEWERAGE INTO DOWNSTREAM MANHOLE WHEN REPLACING EXISTING WASTEWATER MAINS WITH NEW PVC WASTEWATER PIPE, REHABILITATING EXISTING MANHOLES OR CONSTRUCTING NEW MANHOLES. THIS WORK SHALL BE PAID UNDER "TEMPORARY CONTROL OF WASTEWATER FLOWS".

12.) DEFLECTION TESTING OF PVC WASTEWATER LINES SHALL FOLLOW BACKFILL OPERATIONS BY NOT LESS THAN 30 DAYS. DEFLECTION TESTING SHALL ALSO BE DONE PRIOR TO PAVEMENT CONSTRUCTION.

STREETS

1.) UNLESS OTHERWISE STATED, STREET DIMENSIONS SHOWN ON THE PLANS ARE TO EDGE OF PAVEMENT.

2.) SITE CLEARING AND STRIPPING CONSIST OF CLEARING, GRUBBING AND STRIPPING OF OBJECTIONABLE MATTER IN ACCORDANCE WITH SPECIFICATION SECTION 021020 AND REMOVING OLD STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION, WHICH MAY BE EXTENDED BEYOND THE RIGHT-OF-WAY IN SOME AREAS OF THE PROJECT.

3.) EMBANKMENT FOR STREETS, WHERE REQUIRED TO ACHIEVE THE SPECIFIED ELEVATIONS SHALL BE SELECT EXCAVATED MATERIAL OR BORROW MATERIAL, AND SHALL MEET THE REQUIREMENTS SET FORTH IN CITY STANDARD SPECIFICATIONS FOR "SELECT MATERIAL".

4.) WHERE EXISTING ASPHALT OR CONCRETE PAVEMENT IS TO BE CUT, THESE CUTS SHALL BE VERTICAL AND MADE WITH A SAW.

5.) ASPHALT-LAYING MACHINE SHALL BE CAPABLE OF LAYING 14-FT WIDTH.

6.) RAW SUBGRADE AND LIME TREATED SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% PROCTOR DENSITY (ASTM D698 OR AASHTO T99) AT OR 0-3% ABOVE OPTIMUM MOISTURE CONTENT, TO THE DEPTH INDICATED ON THE DRAWINGS.

7.) FLEXIBLE BASE SHALL BE TYPE A GRADE 1-2 TYPE D FLEXIBLE BASE COURSE MATERIAL. FLEXIBLE BASE SHALL BE COMPACTED TO NOT LESS THAT LESS THAN 95% MODIFIED PROCTOR DENSITY (ASTM D1557 OR AASHTO T180) WITHIN PLUS THREE PERCENT (+3%) OF OPTIMUM MOISTURE CONTENT.

8.) PRIME COAT SHALL BE MC-30 MEDIUM-CURING CUTBACK ASPHALT OR AE-P ASPHALT EMULSION PRIME. AND SHALL BE APPLIED AT A RATE 0.15 GALLON PER SQUARE YARD. TACK COAT SHALL BE SS-1 SLOW SETTING EMULSIFIED ASPHALT AND SHALL BE APPLIED AT A RATE OF 0.05 TO 0.15 GALLON PER SQUARE YARD.

9.) HOT MIX ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF TXDOT STANDARD SPECIFICATION ITEM 340 AND CITY REQUIREMENTS.

10.) ALL ROLLING AND COMPACTING OF HMAC PAVEMENT MUST BE COMPLETED BEFORE THE TEMPERATURE OF THE MIXTURE DROPS BELOW 160 DEGREES F.

11.) CARE SHALL BE TAKEN TO PROTECT CURB AND GUTTER AND OTHER CONCRETE SURFACES FROM ASPHALT SPLATTER DURING PRIMING AND SEALING OPERATIONS.

12.) LOCATIONS OF HMAC PAVEMENT LONGITUDINAL CONSTRUCTION JOINTS FOR FINAL SURFACE COURSE SHALL COINCIDE WITH LANE STRIPING UNLESS OTHERWISE DIRECTED THE ENGINEER.

13.) HMACP TRANSITIONS TO EXISTING PAVEMENT SHALL BE TRANSITIONED OVER 10 FEET TO PRODUCE A SMOOTH RIDE AND SHALL BE CHECKED WITH A 10 FT. STRAIGHT EDGE PRIOR TO COMPLETION.

SPECIAL RESTRICTIONS FOR SEQUENCING WORK

1.) H.M.A.C.P. BASE COURSE SHALL FOLLOW COMPLETED FLEXIBLE BASE COURSE WITHIN 5 DAYS.

2.) UTILITIES TO BE ABANDONED SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN SERVICE UNTIL THE APPROPRIATE SERVICE CHANGEOVERS HAVE BEEN COMPLETED BY THE CONTRACTOR AND ACCEPTED FOR FOR USE BY THE APPROPRIATE CITY OPERATING DEPARTMENT.

3.) CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY STORM WATER DRAINAGE CONDUITS ACROSS ALL DETOURS AND INTERSECTIONS DURING VARIOUS PHASES OF THE WORK, AND SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY STORM WATER DRAINAGE CONDUITS AND/OR DITCHES ALONG THE DETOUR AND ROADWAY AS REQUIRED TO PREVENT FLOODING AND PROMOTE POSITIVE RUNOFF FROM THE SITE. SUCH TEMPORARY STORM WATER DRAINAGE DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME THAT PERMANENT STORM WATER DRAINAGE STRUCTURES AND CONDUITS ARE COMPLETED. THESE TEMPORARY DRAINAGE DEVICES WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.

4.) CONTRACTOR SHALL SPRINKLE FOR DUST CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS SUBSIDIARY WORK

5.) CONTRACTOR SHALL PLAN WATERLINE HYDROSTATIC TESTING AND BACTERIOLOGICAL TESTING TO MEET THE PROPOSED CONSTRUCTION SEQUENCING FOR THIS PROJECT.

1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROLS THROUGHOUT THE DURATION FOR THE CONTRACT FOR ALL PHASES OF THE WORK, IN ACCORDANCE WITH THE CURRENT "TEXAS MANUAL ON TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," TRAFFIC CONTROL PLANS, AND BARRICADE TRAFFIC CONTROL PLANS, AND BARRICADE AND CONSTRUCTION STANDARDS.

2.) ALL-WEATHER ACCESS TO LOCAL RESIDENTS AND BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE CÓNSTRUCTION PERIOD. ALL-WEATHER ACCESS CONSTITUTES OF MAINTAINING A MEANS OF INGRESS AND EGRESS FROM A RESIDENCE OR BUSINESS THROUGH ADVERSE WEATHER AND FLOODING.

3.) THE CONTRACTOR SHALL USE TYPE A GR 1-2 BASE MATERIAL FOR TEMPORARY TRANSITIONS TO EXISTING DRIVEWAYS DURING CONSTRUCTION.

4.) CONTRACTOR SHALL COMPLY WITH THE TRAFFIC CONTROL PLAN. IF THE CONTRACTOR MODIFIES THE TRAFFIC CONTROL PLAN, THE MODIFIED PLAN SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE TRAFFIC ENGINEER FOR APPROVAL.

5.) THE CONTRACTOR SHALL CONDUCT HIS OPERATION IN A MANNER SUCH THAT TRUCKS AND OTHER EQUIPMENT DO NÓT CREATE A NUISANCE OR SAFETY HAZARD IN ANY PUBLIC OR PRIVATE STREET.

6.) ALL NEW SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM WITH THE EXCEPTION OF STREET NAME BLADES. THE RETRO-REFLECTIVE SHEETING SHALL BE HIGH INTENSITY REFLECTIVITY TYPE C OR FLORESCENT TYPE WITH ANTI-GRAFFITI FILM ON BOTH SIDES OF SIGN AND SHALL MEET TMUTCD STANDARDS.

MISCELLANEOUS

1.) CONCRETE SHALL BE SAW—CUT WHERE AN EXISTING CONCRETE STRUCTURE IS TO BE PARTIALLY REMOVED.

2.) PRIMING AND HOT-MIX PLACING OPERATIONS SHALL NOT BE CONDUCTED ON DAYS FOR WHICH AND OZONE ADVISORY HÁS BEEN ISSUED, EXCEPTED FOR REPAIRS.

3.) FENCES SHALL BE RELOCATED PER STANDARD SPECIFICATION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT DISTURB FENCES ALONG THE R.O.W THAT DO NOT ENCROACH WITHIN THE R.O.W. UNLESS DIRECTED BY THE ENGINEER AND REQUIRED BY GRADE ADJUSTMENTS.

4.) ALL FENCES ON PRIVATE PROPERTY THAT IS DISTURBED, REMOVED, ETC., FOR THE CONTRACTOR'S CONVENIENCE, SHALL BE REPLACED WITH LIKE-KIND OR BETTER AT THE CONTRACTOR EXPENSE.

5.) UNLESS OTHERWISE INDICATED, REMOVAL OF EXISTING FENCE IN AREAS TO RECEIVE NEW FENCE WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO THE VARIOUS PAY ITEMS.

6.) THE CONTRACTOR SHALL PROVIDE A TEMPORARY FENCE FROM THE TIME AN EXISTING FENCE IS REMOVED TO THE TIME THE PROPOSED FENCING IS REPLACED, NO DIRECT PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK; IT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS FOR WATER AND WASTEWATER IMPROVEMENTS.

7.) ALL WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS. THE CONTRACTOR SHALL COORDINATE WITH CITY AND COUNTY ENGINEERING SERVICES AND CONSTRUCTION ENGINEERING TO SCHEDULE NECESSARY NIGHT TIME WORK.

8.) THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONSIST OF USING THE BID ITEMS SODDING, SEEDING, SILT FENCE, ROCK FILTER DAM, AND MANHOLE OR INLET PROTECTION AS SHOWN ON THE PLANS. SODDING SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE COMPLETION OF CURB AND GUTTER, SIDEWALK, DRIVEWAYS AND SITE GRADING. IF INLETS, MANHOLES OR JUNCTION BOXERS ARE BUILT IN STAGES SILT FENCES FABRIC SHALL BE PLACED AROUND THE STRUCTURE. ONCE INSTALLED, SILT FENCE SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE ACHIEVED AT LEAST 75% VEGETATION COVER. CONTRACTOR SHALL PROPERLY, MAINTAIN STRUCTURAL B.M.P.S THROUGHOUT THE PROJECT

9.) TOPSOIL AND SEEDING SHALL BE PLACED ON ALL DISTURBED AREAS OUTSIDE OF THE R.O.W.. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7. AND SHALL BE FREE OF STONES LARGER THAN ONE INCH. DEBRIS. AND EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. IF REQUIRED, CONTRACTOR SHALL PROVIDE SOIL—STABILIZING BLANKET OF JUT MAT, WOOD EXCELSIOR OR MULCH NETTING TO STABILIZE CHANNEL BANKS AND ESTABLISH GRASS GROWTH. SOIL-STABILIZATION BLANKET WILL NOT BE PAID FOR SEPARATELY.

10.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ALL LEGALLY REQUIRED PERMITS AND LICENSES, PAY ALL CHARGES AND FEES, GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK, AND ARRANGE FOR ALL INSPECTIONS, PER CONTRACT REQUIREMENTS. THIS INCLUDES FILING FOR AND PROCURING A TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) NOTICE OF INTENT (NOI) WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) PRIOR TO BEGINNING CONSTRUCTION. THE NOTICE OF INTENT AND CONSTRUCTION SITE NOTICE SHALL BE PROMINENTLY POSTED AT THE JOBSITE AT ALL TIMES. THE CONTRACTOR SHALL ALSO FILE A NOTICE OF TERMINATION WITH TCEQ UPON FINAL COMPLETION OF THE WORK.

11.) ALL DISTURBED GROUND SHALL BE SEEDED WITH GRASS HYDRO MULCH AS REQUIRED BY THE ENGINEER OR CITY OF

12.) TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICES. TREES WITHIN THE R.O.W. SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

TRENCH SAFETY

1. IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70TH REGULAR LEGISLATIVE SESSION), THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29 CFR, PART 1926, SUBPART P- EXCAVATIONS.

2. PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER

3. IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED.

4. THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NONCOMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA. THESE SHOULD BE ADMINISTERED BY A COMPETENT INDIVIDUAL.

5. TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE PROJECT ENGINEER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE ENGINEER.

UTILITY COORDINATION NOTES:

1.) ONLY UTILITIES FOR WHICH INFORMATION WAS AVAILABLE ARE SHOWN. LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL CALL THE TEXAS 811 NUMBER (1-800-344-8377) FOR VERIFICATION OF ALL UTILITY LOCATIONS BEFORE ANY CONSTRUCTION AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE PRIOR TO EXCAVATION OPERATIONS.

UTILITY COMPANY CONTACT INFORMATION:

AMERICAN ELECTRIC POWER (AEP TEXAS) 1 - 877 - 373 - 4858 MAGIC VALLEY ELECTRIC COOPERATIVE (MVEC) 1 - 800 - 888 - 6832 TEXAS GAS SERVICES 1 - 800 - 959 - 5325

CITY OF PHARR PUBLIC UTILITIES 1 - 956 - 402 - 4300

CITY OF PHARR PUBLIC WORKS 1 - 956 - 402 - 4350



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ABBREVIATIONS & ACRONYMS

CONC. – CONCRETE R.C.P. – REINFORCED CONCRETE PIPE H.D.P.E. - HIGH DENSITY POLYETHYLENE EXIST. - EXISTING W/ - WITH INVERT PROPOSED OFFSET LINEAR FOOT CUBIC YARD SQUARE FOOT POUNDS R.O.W. - RIGHT OF WAY ESMT. - EASEMENT UTIL. – UTILITY S.W.S.C. – CITY OF PHARR N: – NORTHING E: - EASTING STA. - STATION APPROX. - APPROXIMATELY EQA. — EQUATION Ø - DIAMETER EXISTING GRADE/GROUND FINISHED GRADE - FLOW D.R.H..T. - DEED RECORDS HIDALGO COUNTY TEXAS O.R.H..T. - OFFICIAL RECORDS HIDALGO COUNTY TEXAS M.R.H..T. - MAP RECORDS HIDALGO COUNTY TEXAS CNR. - CORNER - SOUTHWEST S.W. NORTHWEST N.W. VOLUME - PAGE WARRANTY DEED D.L.I.D. - DELTA LAKE IRRIGATION DISTRICT H.C.I.D. - HIDALGO COUNTY IRRIGATION DISTRICT H.C.D.D. - HIDALGO COUNTY DRAINAGE DISTRICT

WD: - WARRANTY DEED

- GIFT DEED

SWD:

GWD:

WDL:

SPECIAL WARRANTY DEED

GENERAL WARRANTY DEED

WARRANT DEED W/VENDOR'S LIEN

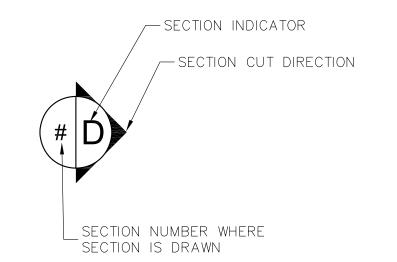
WDFCL: - WARRANTY DEED IN LIEU OF FORECLOSURE SWDL: - SPECIAL WARRANT DEED W/VENDOR'S LIEN

EXISTING LEGEND

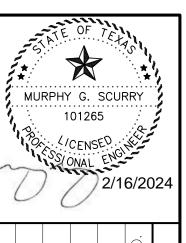
----- BOUNDARY — — — — EASEMENT LINE ---- P--- - PROPERTY LINE ----- - CONTOUR LINE WITH ELEVATION --8"wtr-- — Existing 8" water line (city of pharr) --.8"SS--- — EXISTING 8" SANITARY SEWER LINE (CITY OF PHARR) ——×——× — EXISTING CHAINLINK FENCE — EXISTING CEDAR FENCE — EXISTING CURB & GUTTER ROAD (ASPHALT) — FND IRON ROD — EXISTING CONCRETE — EXISTING MAIL BOX — EXISTING WATER METER — EXISTING GAS METER — EXISTING POWER POLE — EXISTING LIGHT POLE — EXISTING GUY WIRE — EXISTING CABLE PEDESTAL — EXISTING TRAFFIC SIGN — EXISTING WATER VALVE — EXISTING FIRE HYDRANT — EXISTING SANITARY SEWER MANHOLE — EXISTING TREE

PROPOSED LEGEND

<u>^•</u>	_	CALCULATED POINT
+		BENCHMARK
00.00		PROPOSED MAJOR CONTOUR LINE WITH ELEVATION
00.00	—	PROPOSED MINOR CONTOUR LINE WITH ELEVATION
·	_	PROPOSED SWALE/DITCH FLOW LINE
×××××1		
	_	PROPOSED EROSION CONTROL MEASURES (AS NOTED)
SW3P	_	PROPOSED EROSION CONTROL MEASURES SEDIMENT CONTROL FENCE



LINE	DESCRIPTION	UNIT	QTY
	PAVING		
1	2" HMAC-TYPE D W/TACK COAT	SY	698.
2	8" LIME TREAT CALICHE FLEX BASE @ 4% BY WEIGHT	SY	749.4
3	6" LIME TREAT SUBGRADE @ 4% BY WEIGHT	SY	749.4
4	LIME	TON	20
5	MC-30 PRIME COAT	GAL	139.7
6	4' WIDE CONCRETE SIDEWALK	LF	43.2
7	5' WIDE CONCRETE SIDEWALK	LF	47.:
8	2' WIDE STEEL COVER-SIDEWALK DRAIN	EA	
9	CONCRETE FLAT WORK (ENTRANCE)	SY	13.
10	ADA RAMP	EA	
	SANITARY SEWER		
11	SANITARY SEWER MANHOLE	EA	:
12	6" SANITARY SEWER LINE SDR-26 PVC	LF	59.
13	6" PVC CLEAN-OUT	EA	
14	TIE-IN TO EXIST. 8" SANITARY SEWER LINE	EA	
	DRAINAGE		
15	8" PVC, SDR-26	LF	4
16	8" PVC 45° ELBOW	EA	
17	8" PVC CLEAN-OUT	EA	
18	TIE-IN TO EXIST. CURB INLET	EA	
19	EXCAVATION (DETENTION POND)	CY	14
20	SHALLOW SWALE/DITCH	LF	205.
21	2' CONCRETE FLUME	LF	1
22	OUT-FALL SLOPE PROTECTION	EA	
	WATER		
23	2" WATER LINE C900 PVC	LF	132.
24	2" 90° ELBOW	EA	
25	DUAL WATER SERVICE CONNECTION (DOMESTIC & IRRIGATION)	EA	
26	WATER METER	EA	
27	4" PVC CASING	LF	4
28	2" x 8" TAPPING SLEEVE/TEE	EA	
29	TIE-IN TO EXIST. 8" WATER LINE	EA	
	STORM WATER POLLUTION PREVENTION		
30	SILT CONTROL FENCE INSTALL AND REMOVE [PROPERTY PERIMTER]	LF	526.
31	TEMPORARY EROSION CONTROL LOGS	LF	1
32	CONSTRUCTION ENTRANCE/EXIT TYPE 1 INSTALL AND REMOVE	SY	77.7
	STREET LIGHTING		
33	LIGHT POLE WITH LUMINAIRE ASSYM.	EA	
	SOLID WASTE		
34	12' x 12.33' ENCLOSURE (REINFORCED CONCRETE, STEEL GATE, CMU WALL, & PIPE BOLLARD)	EA	
	MISC		
35	STEEL BOLLARD	EA	
36	PARKING LOT PAVEMENT MARKING	LS	



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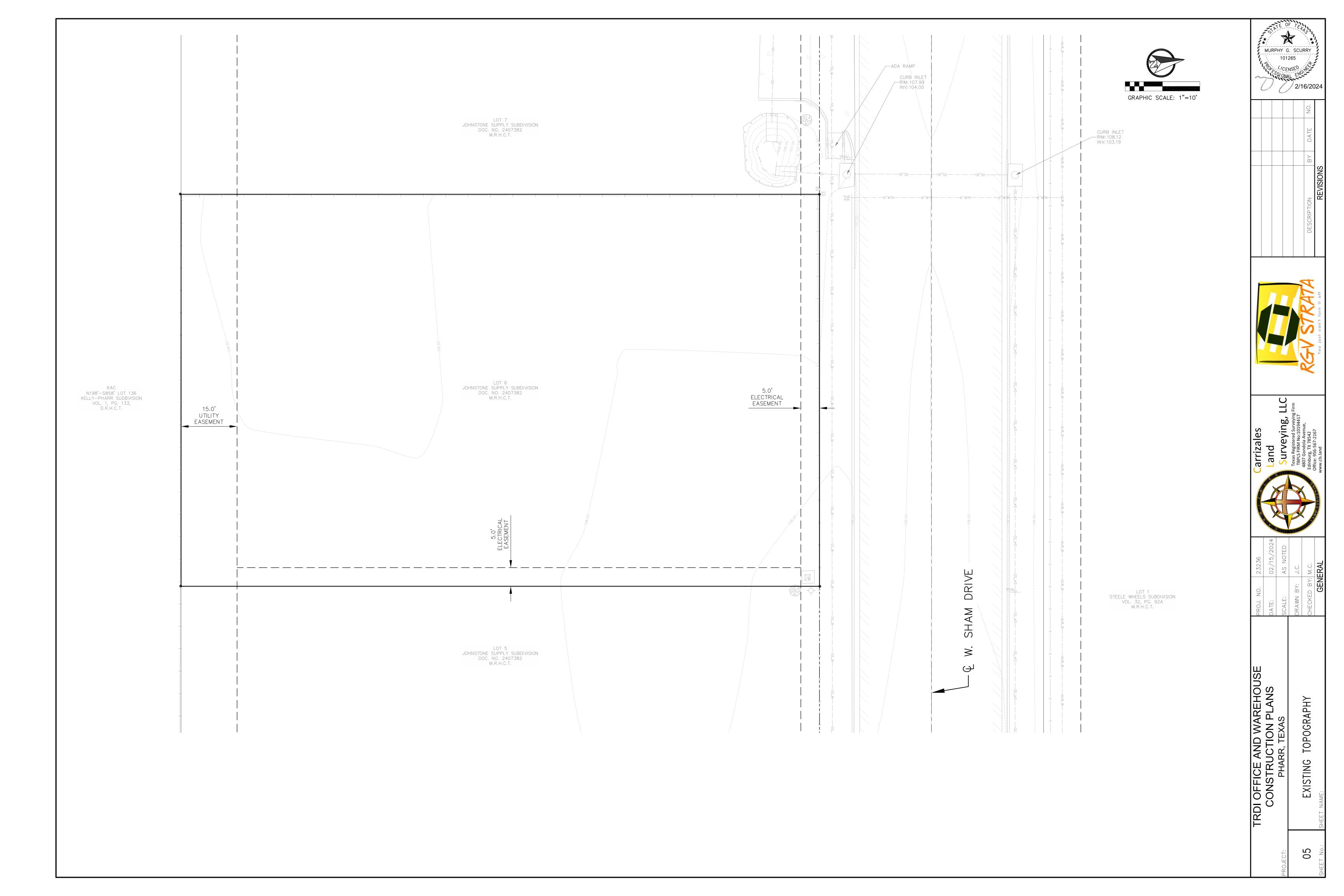
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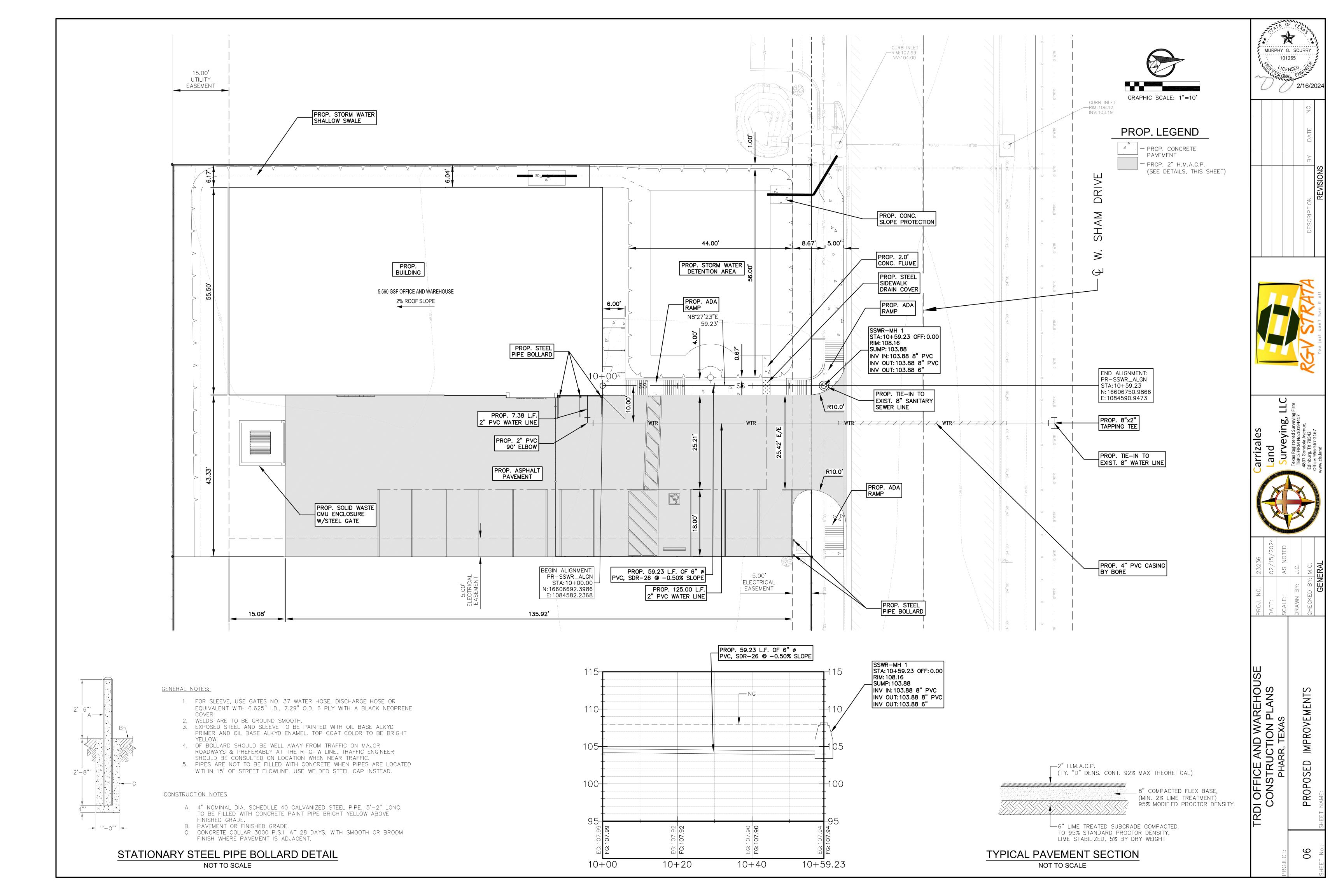
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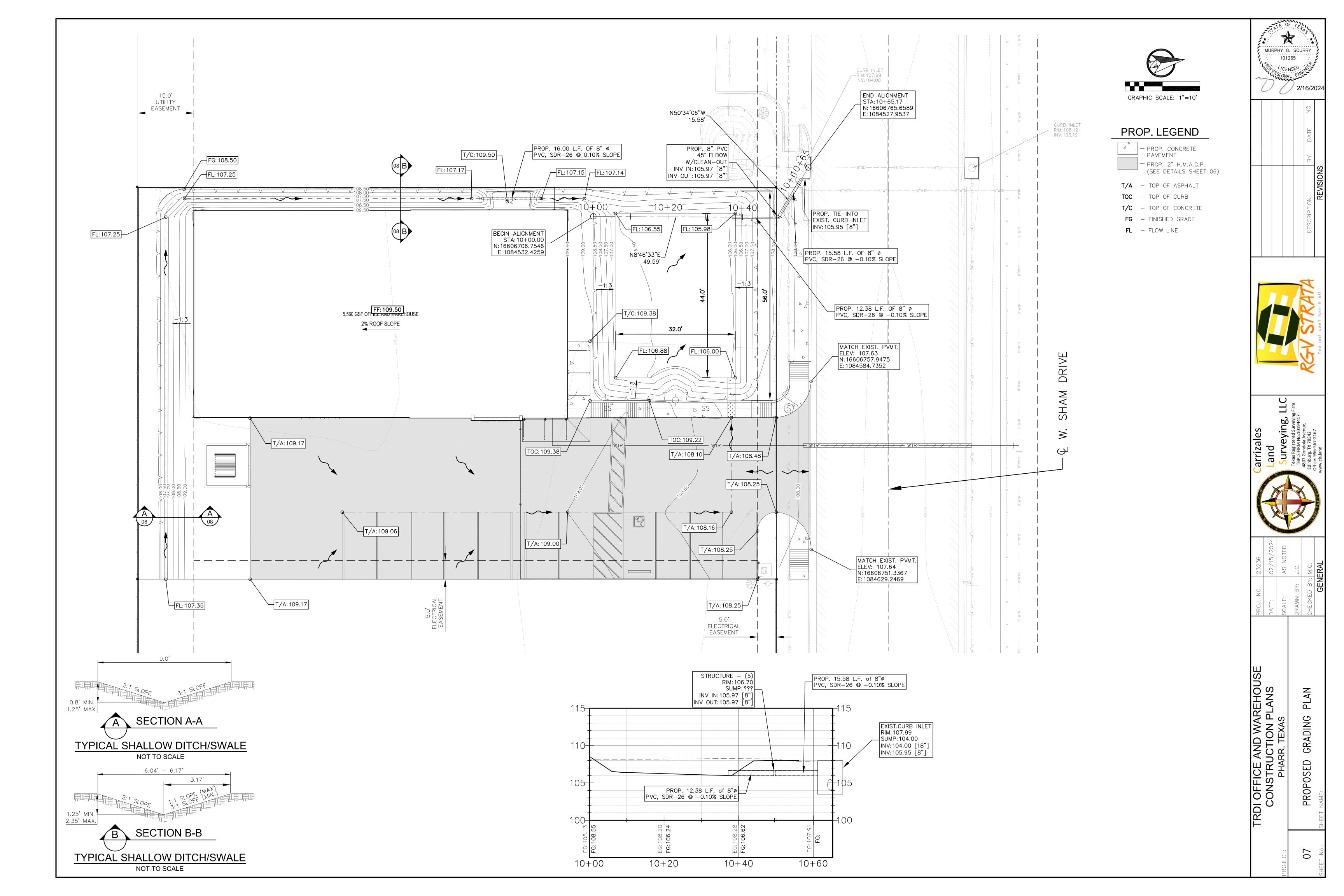
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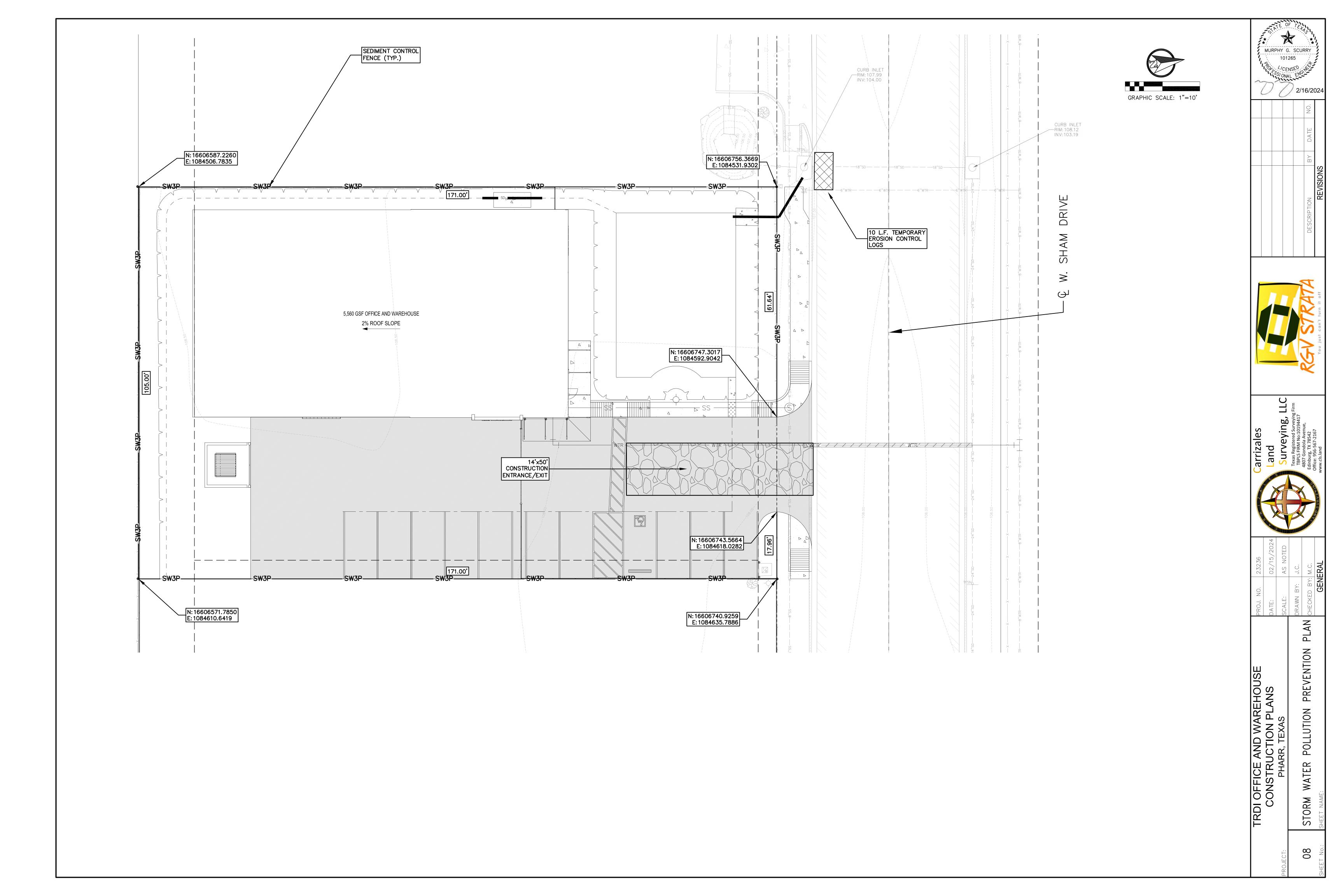
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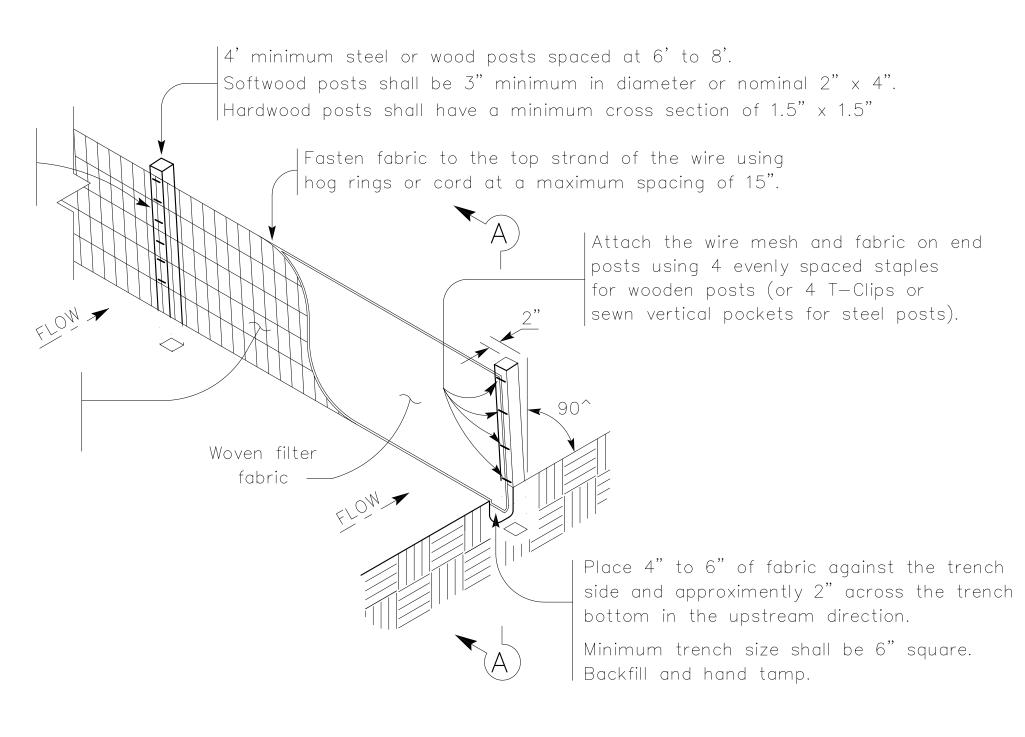




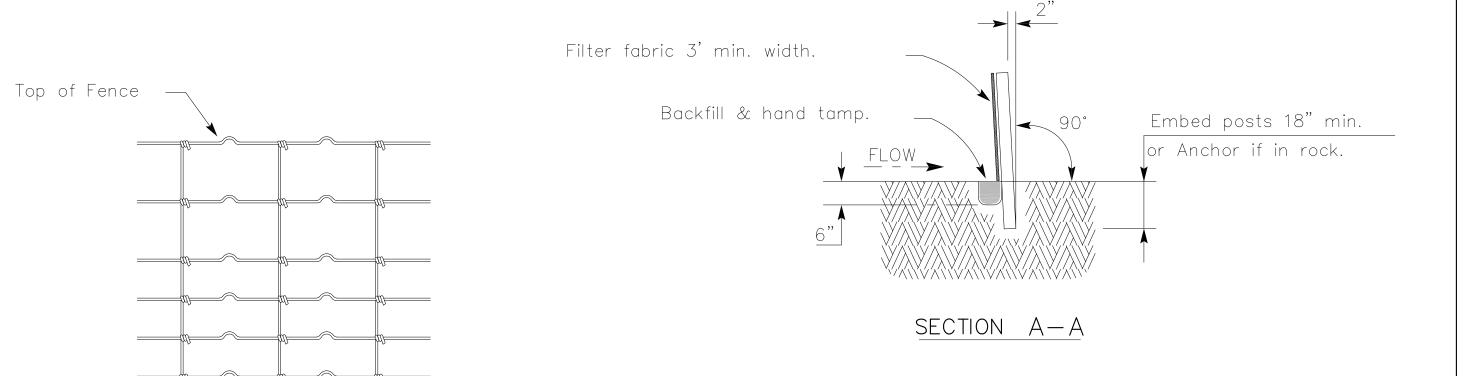


Connect the ends of the successive reinforcement sheets or rolls a minimum of 6 times with hog rings.

Galvanized welded wire mesh (W.W.M.) (12.5 GA. SWG Min.) with a maximum opening size of 2"x 4"or Woven Mesh (W.M.)(See woven mesh option detail)



TEMPORARY SEDIMENT CONTROL FENCE



HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

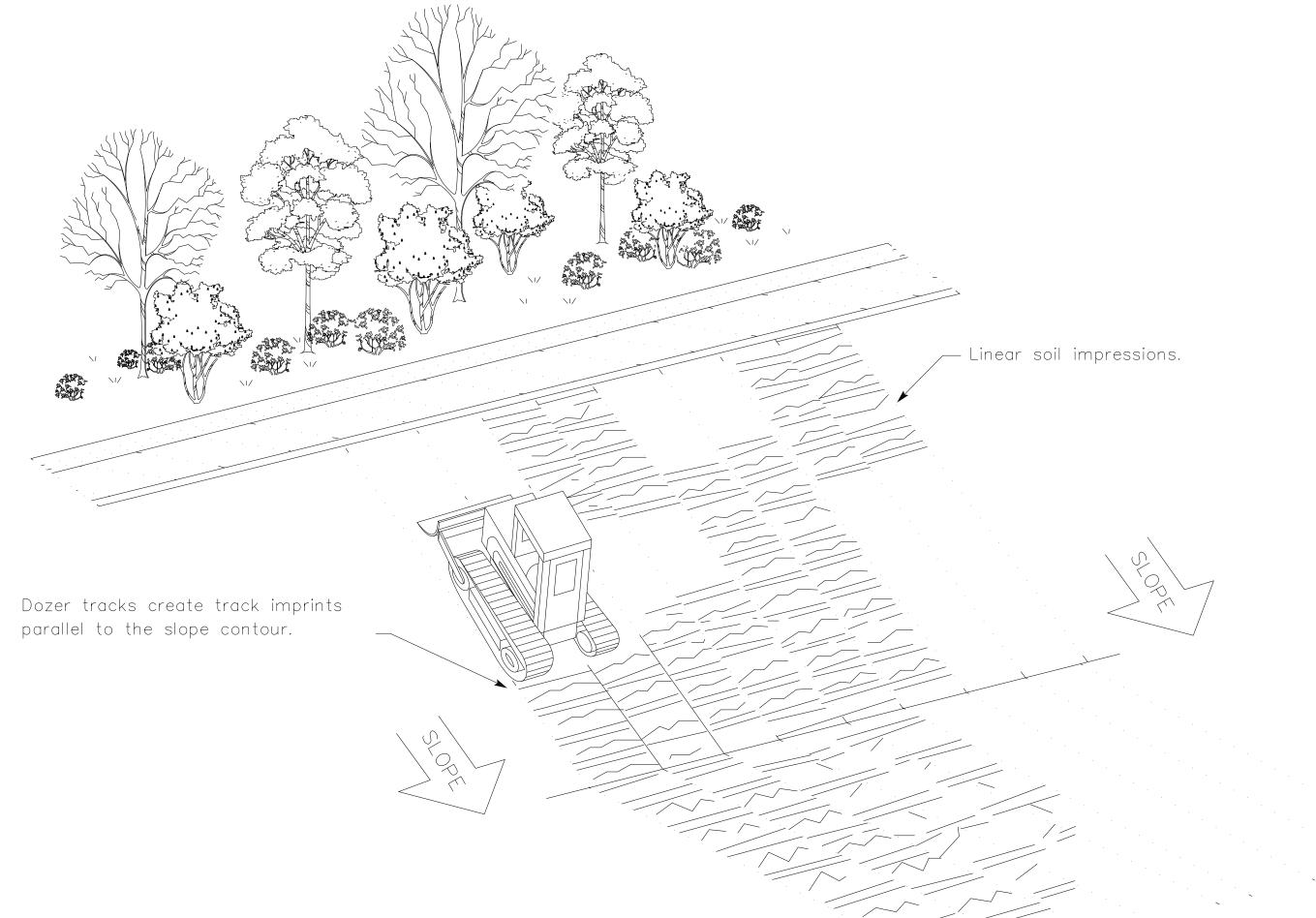
A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT . 2 Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

LEGEND Sediment Control Fence

GENERAL NOTES

- 1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- 2. Perform vertical tracking on slopes to temporarily stabilize soil.
- 3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- 4. Do not exceed 12" between track impressions.
- 5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

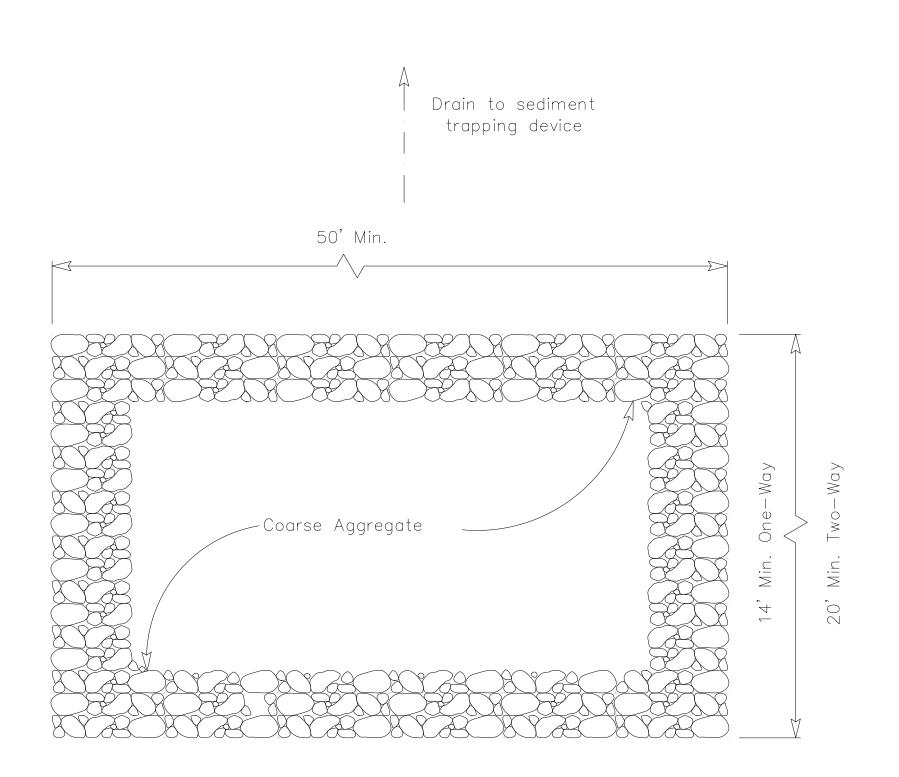
EC(1)-16

FILE: ec116	dn: TxD(TC	CK: KM DW: VP			DN/CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB		Н	IGHWAY
REVISIONS						
	DIST	COUNTY				SHEET NO.

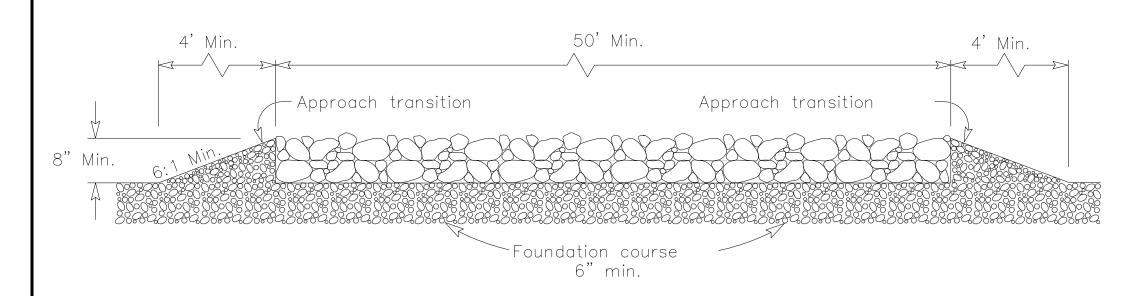




Design Division Standard



PLAN VIEW

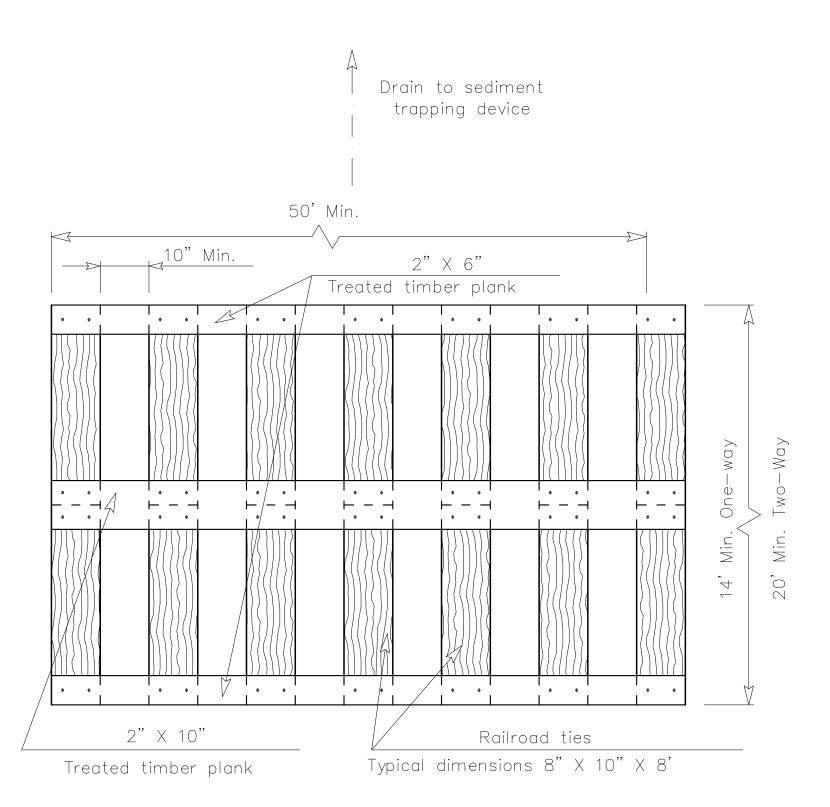


ELEVATION VIEW

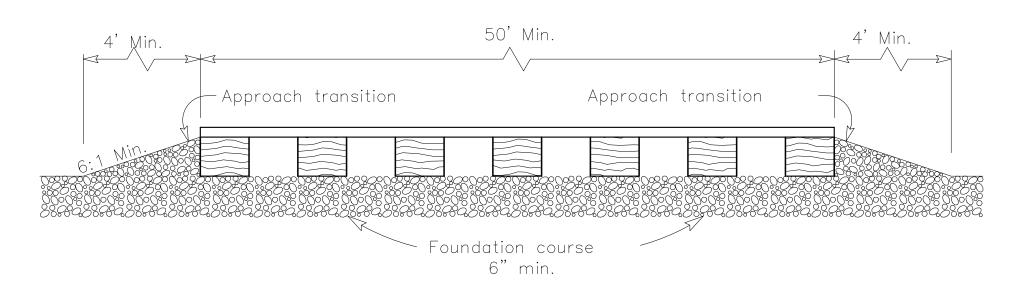
CONSTRUCTION EXIT (TYPE 1) ROCK CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 1)

- 1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The coarse aggregate should be open graded with a size of 4" to 8".
- 3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
- The construction exit foundation course shall be flexible base, pituminous concrete, portland cement concrete or other materialas approved by the Engineer.
- 5. The construction exit shall be graded to allow drainage to a sediment
- 6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 7. Construct exits with a width of at least 14 ft. for one—way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



PLAN VIEW

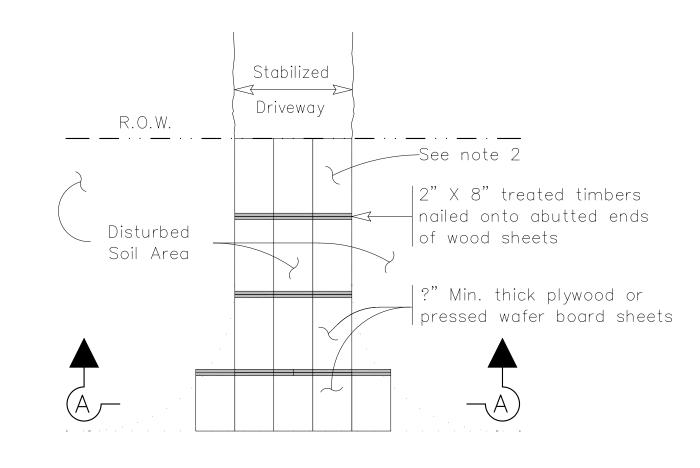


ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2) TIMBER CONSTRUCTION (LONG TERM)

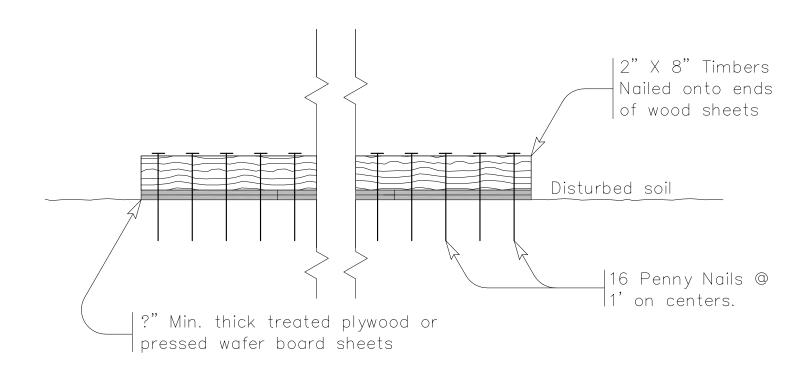
GENERAL NOTES (TYPE 2)

- 1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The treated timber planks shall be attached to the railroad ties with ?"x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
- 5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- 6. The construction exit should be graded to allow drainage to a
- 7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 8. Construct exits with a width of at least 14 ft. for one—way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



Paved Roadway

PLAN VIEW

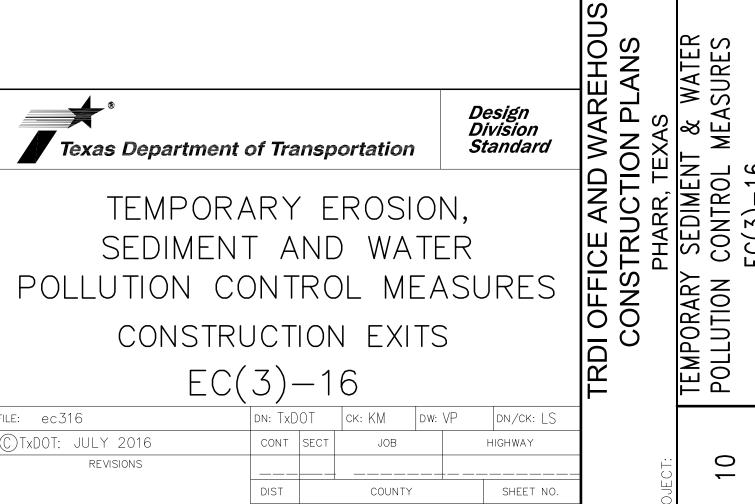


SECTION A-A

CONSTRUCTION EXIT (TYPE 3) SHORT TERM

GENERAL NOTES (TYPE 3)

- 1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
- 2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



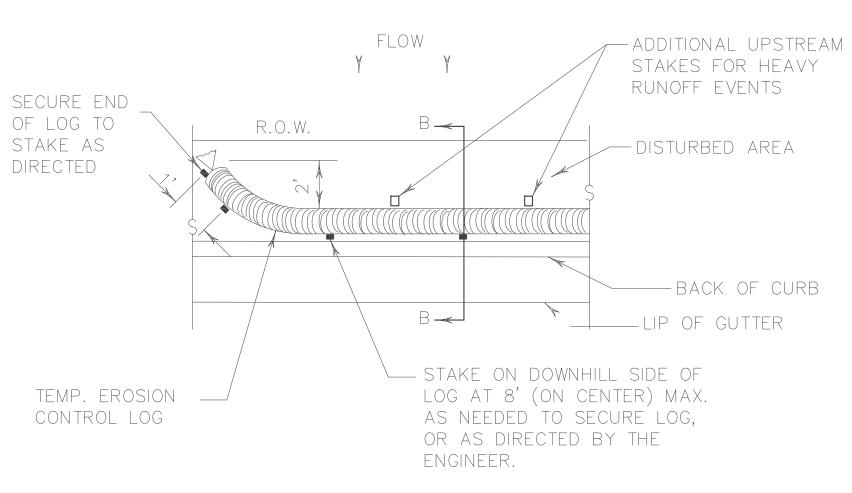




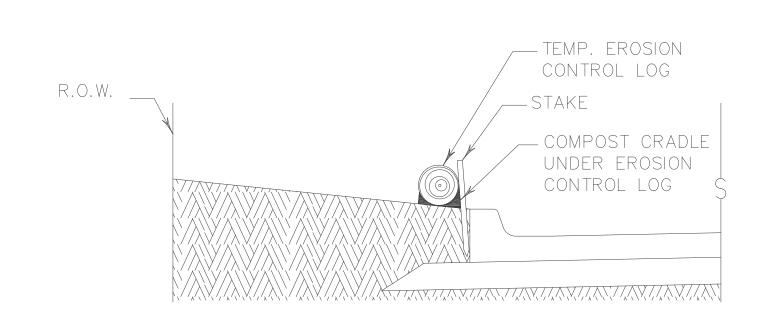
TEMP. EROSION FLOW CONTROL LOG ADDITIONAL UPSTREAM ---STAKES FOR HEAVY RUNOFF EVENTS SECURE END OF LOG TO STAKE LOG ON DOWNHILL STAKE AS SIDE AT THE CENTER, DIRECTED AT EACH END, AND AT ADDITIONAL POINTS AS NEEDED TO SECURE LOG (4' MAX. SPACING), OR AS DIRECTED BY THE ENGINEER. PLAN VIEW STAKE LOG ON DOWNHILL SIDE AT THE CENTER, AT EACH END, AND AT ADDITIONAL POINTS AS NEEDED TO SECURE LOG TEMP. EROSION -(4' MAX. SPACING), OR CONTROL LOG AS DIRECTED BY THE ENGINEER. 1' (TYP.) COMPOST CRADLE -ADDITIONAL UPSTREAM STAKES FOR HEAVY UNDER EROSION RUNOFF EVENTS CONTROL LOG SECTION A-A EROSION CONTROL LOG DAM

LEGEND

- EROSION CONTROL LOG DAM
 - EROSION CONTROL LOG AT BACK OF CURB
- (CL-ROW)— EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
- EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
- EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
- EROSION CONTROL LOG AT DROP INLET
- EROSION CONTROL LOG AT CURB INLET
- EROSION CONTROL LOG AT CURB & GRATE INLET



PLAN VIEW

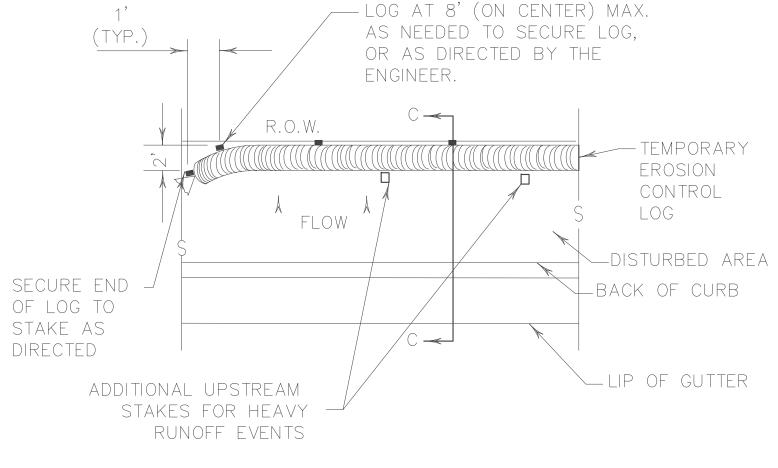


SECTION B-B EROSION CONTROL LOG AT BACK OF CURB



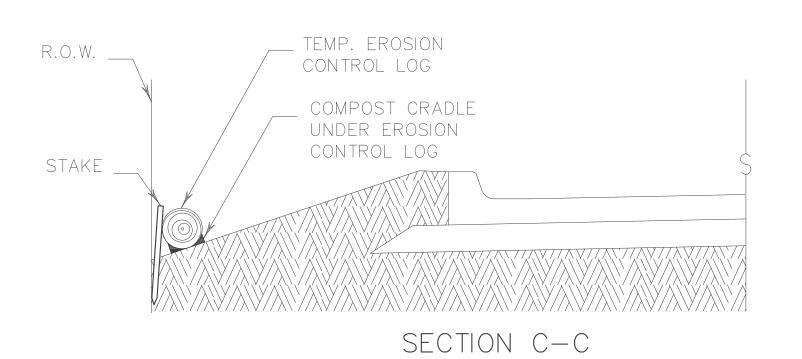
REBAR STAKE DETAIL

#3 BAR



STAKE ON DOWNHILL SIDE OF

PLAN VIEW



SEDIMENT BASIN & TRAP USAGE GUIDELINES

Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over

1. Within drainage ditches spaced as needed or min. 500' on center

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

Control logs should be placed in the following locations:

2. Immediately preceding ditch inlets or drain inlets 3. Just before the drainage enters a water course

4. Just before the drainage leaves the right of way 5. Just before the drainage leaves the construction

The logs should be cleaned when the sediment has accumulated to a

Cleaning and removal of accumulated sediment deposits is incidental and

limits where drainage flows away from the project.

the drainage area).

depth of 1/2 the log diameter.

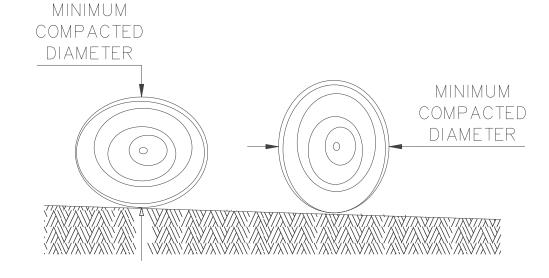
will not be paid for separately.

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

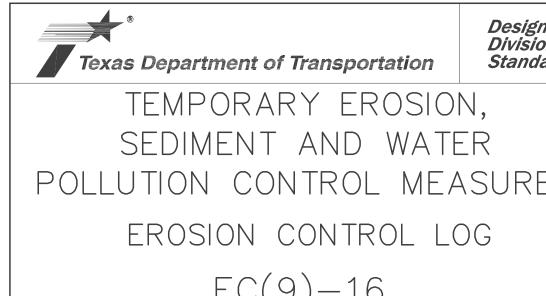


GENERAL NOTES:

- 1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE
- ENGINEER.
- 2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
- UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
- 4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
- 5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
- 6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
- 7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
- 8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
- 9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
- 10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

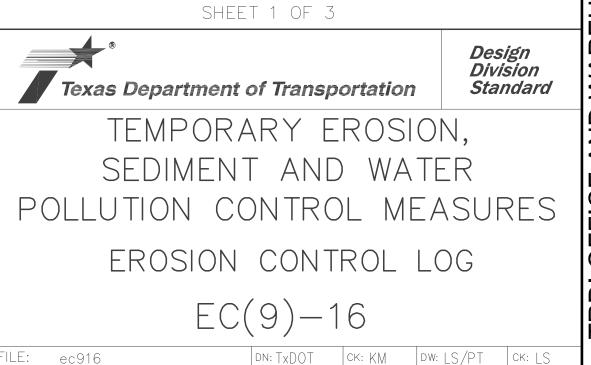


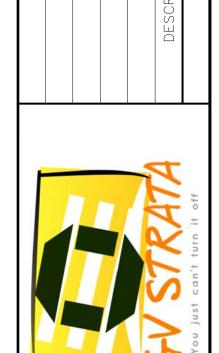
DIAMETER MEASUREMENTS OF EROSION



DN: TxDOT CK: KM DW: LS/PT CK: LS ILE: ec916 TxDOT: JULY 2016 CONT SECT HIGHWAY REVISIONS COUNTY SHEET NO.

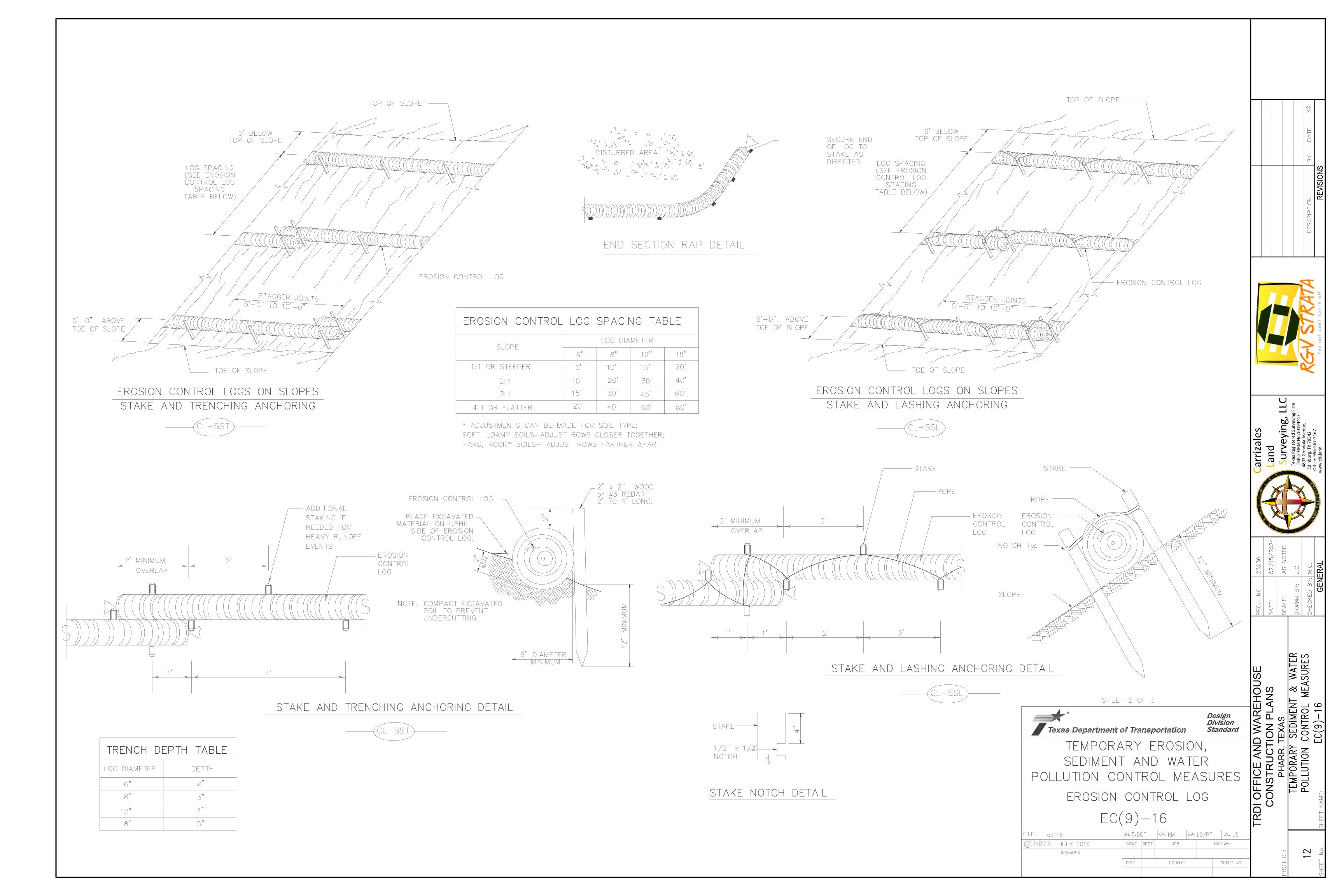
CONTROL LOGS SPECIFIED IN PLANS

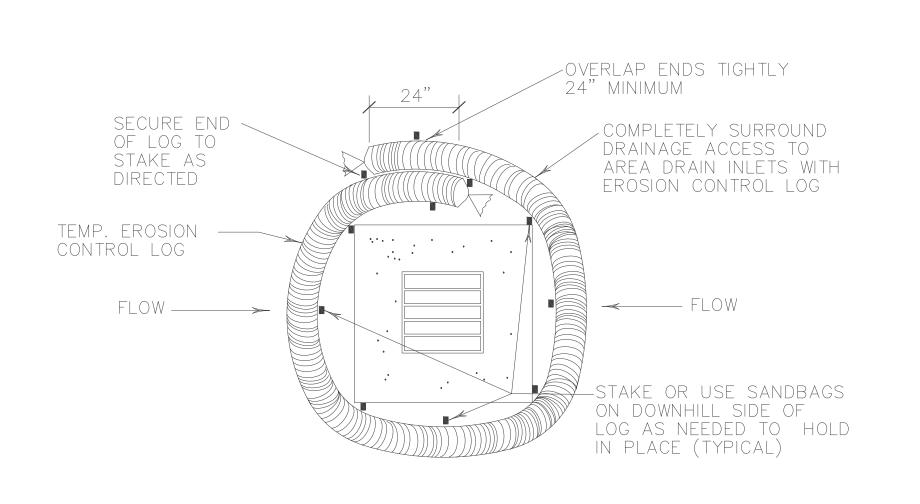


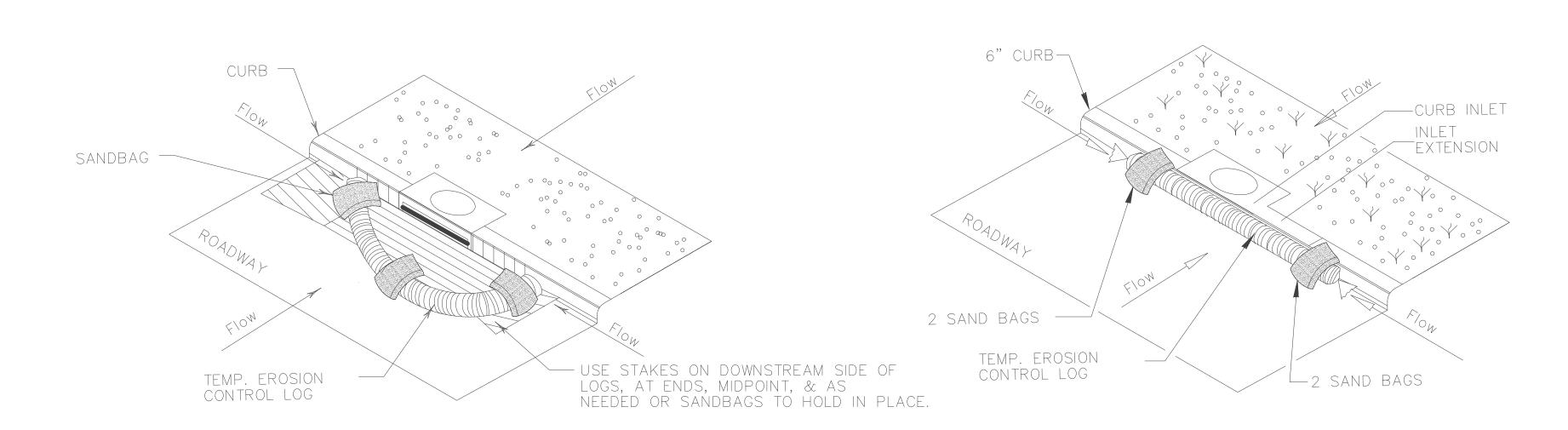




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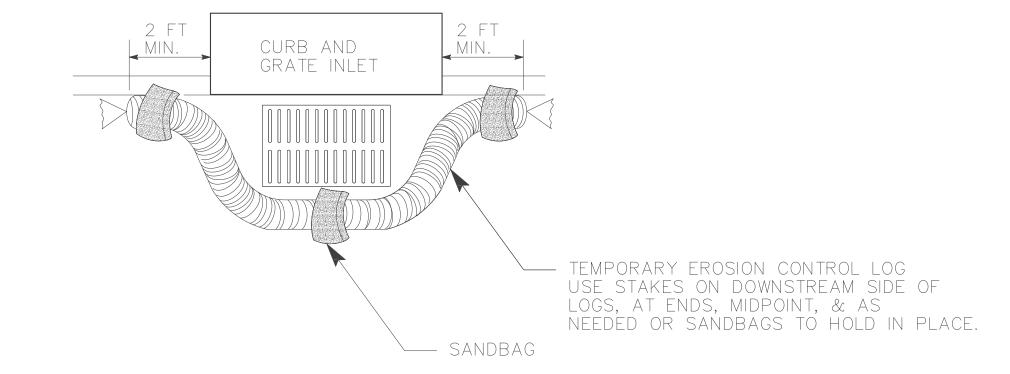






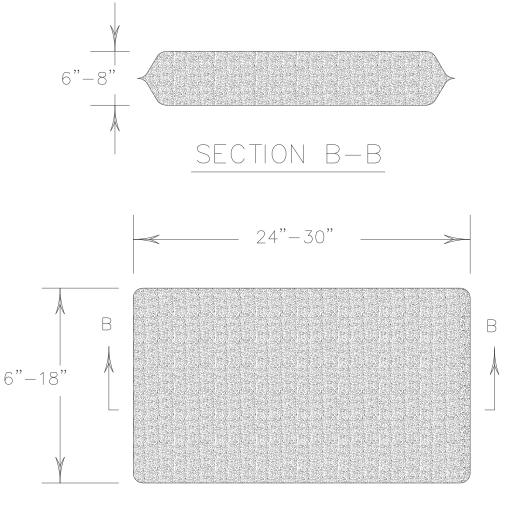
EROSION CONTROL LOG AT CURB INLET

EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET





SANDBAG	DETAIL

SHEET 3 OF 3					
Texas Department of Transportation	Design Division Standard				
TEMPORARY EROSION,					
SEDIMENT AND WATE	ER				

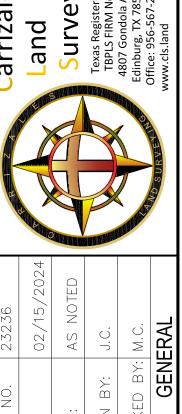
POLLUTION CONTROL MEASURES EROSION CONTROL LOG

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© TxDOT: JULY 2016	CONT	SECT	JOB			HIGH	YAWH
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	DIST		COUNTY			S	SHEET NO.

DESCRIPTION BY DATE REVISIONS

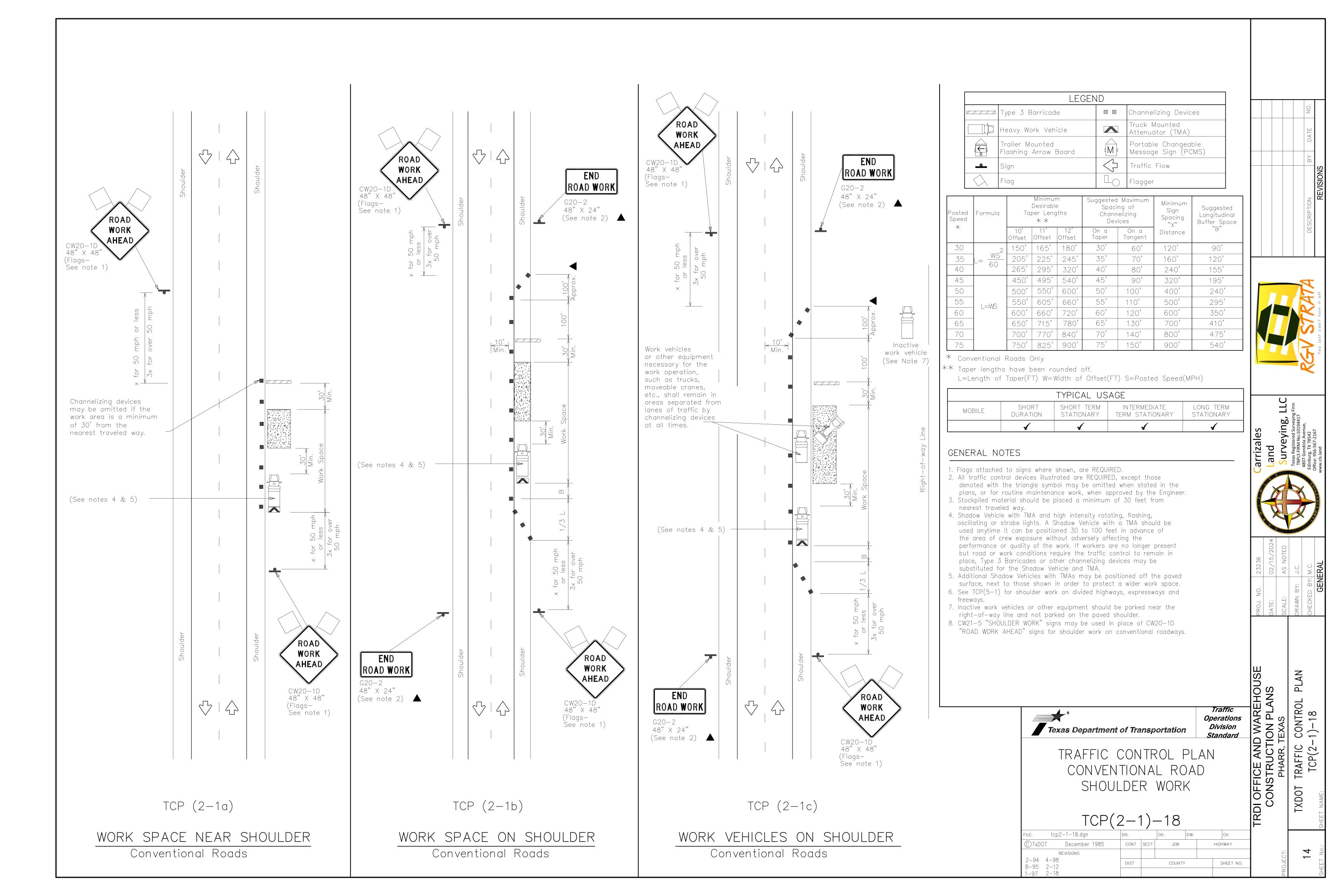


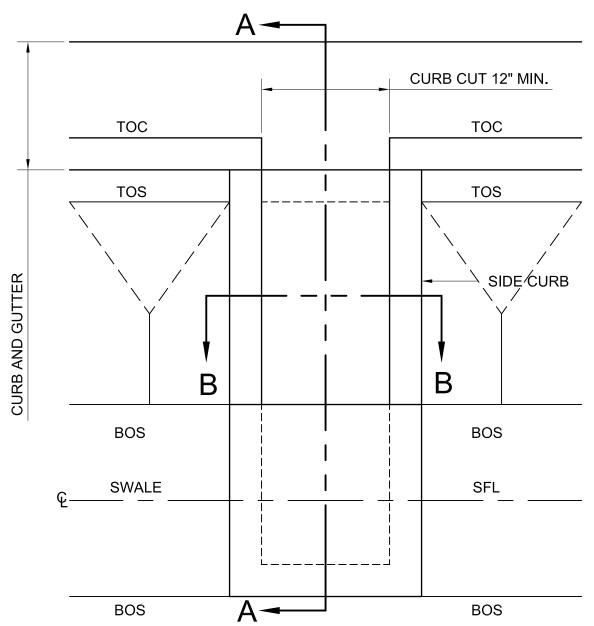




SURES		
WATER	DRAWN BY:	J.C.
	SCALE:	AS NOTED
	DATE:	02/15/2024
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CONSTRUCTION PLANS	PHARR, TEXAS	TEMPORARY SEDIMENT & WATER	POLLUTION CONTROL MEASURES	FC(9)-16



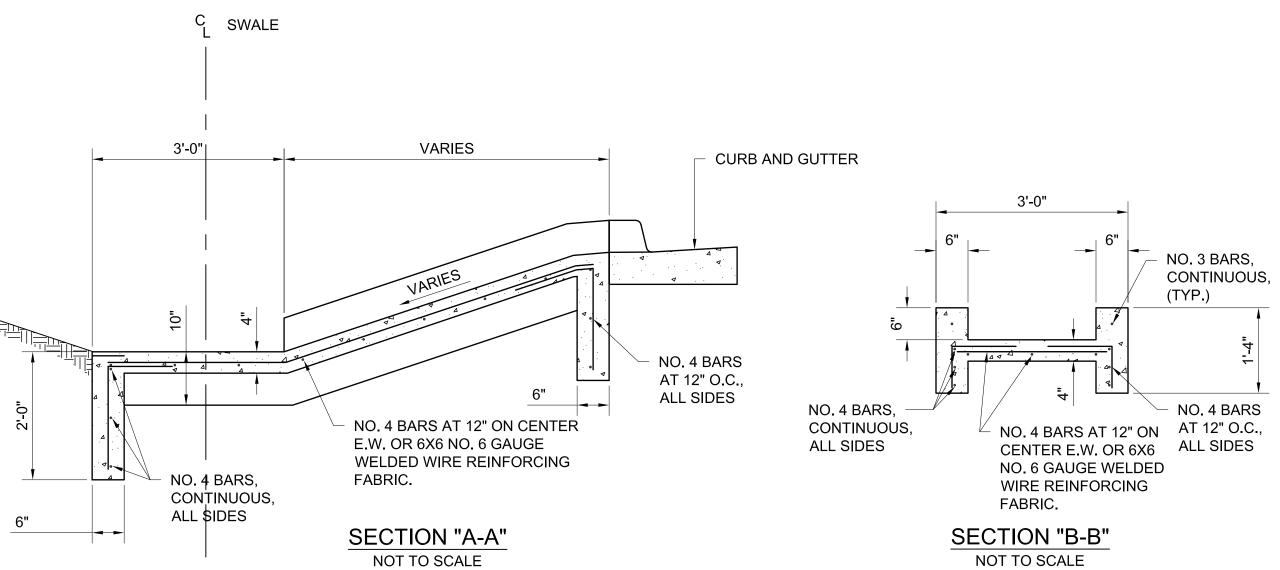


PLAN VIEW

NOT TO SCALE

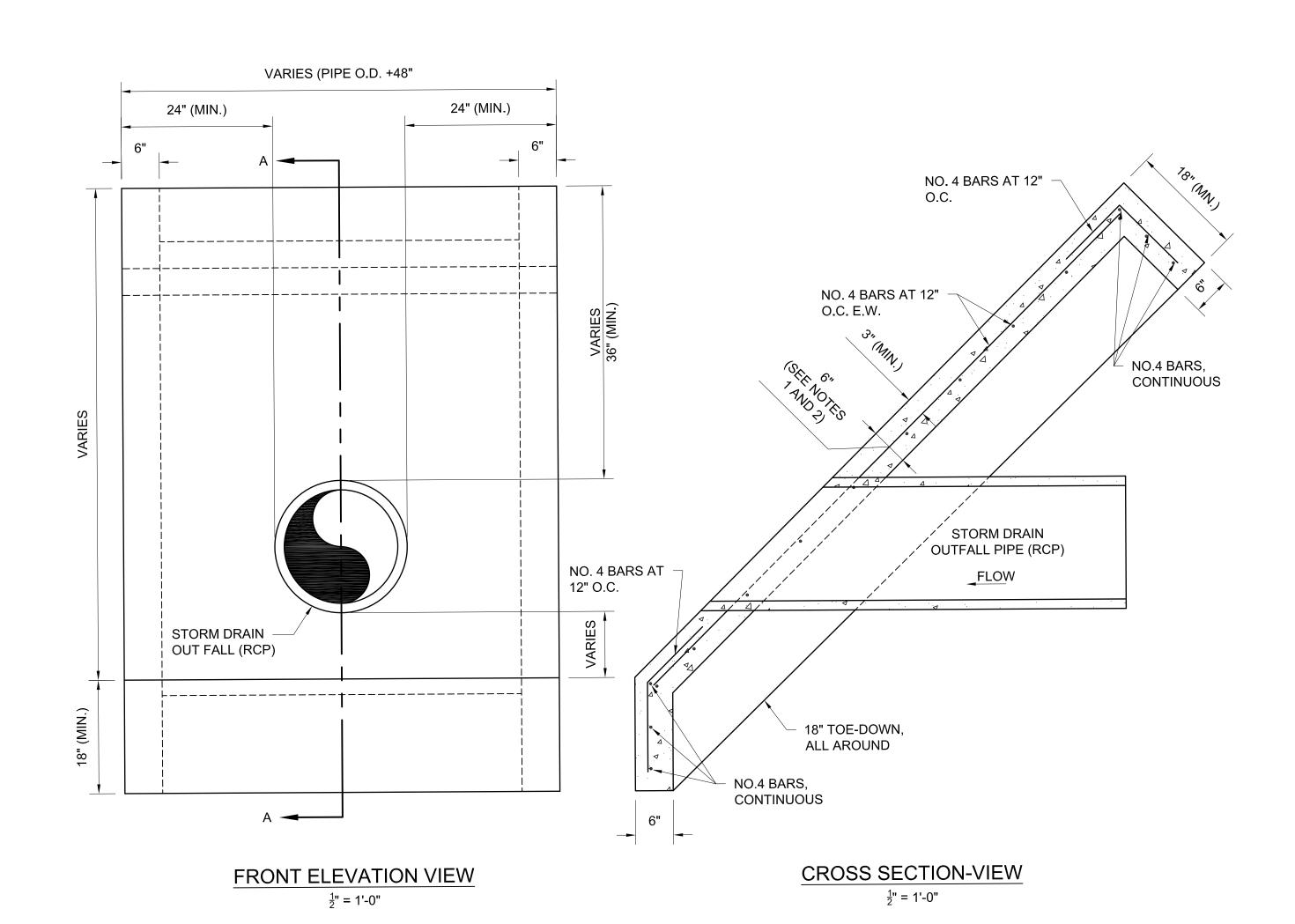
GENERAL NOTES:

- CONCRETE SHALL HAVE A SPECIFIED
- STRENGTH OF 3,000 PSI (MIN.) AT 28 DAYS. 2. REINFORCEMENT SHALL BE 6X6 NO. 6 GAUGE WELDED WIRE FABRIC REINFORCING FLAT
- SHEETS OR NO.4 BARS. 3. ALL REINFORCING STEEL BARS TO BE GRADE 60. 4. SUBGRADE AND BACKFILL SHALL BE
- COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- TOC TOP OF CURB FL - FLOW LINE TOS - TOP OF SWALE BOS - BOTTOM OF SWALE SFL - SWALE FLOW LINE



CONCRETE FLUME DETAILS

PROTECTION (OUTFALL) DETAILS NOT TO SCALE



GENERAL NOTES:

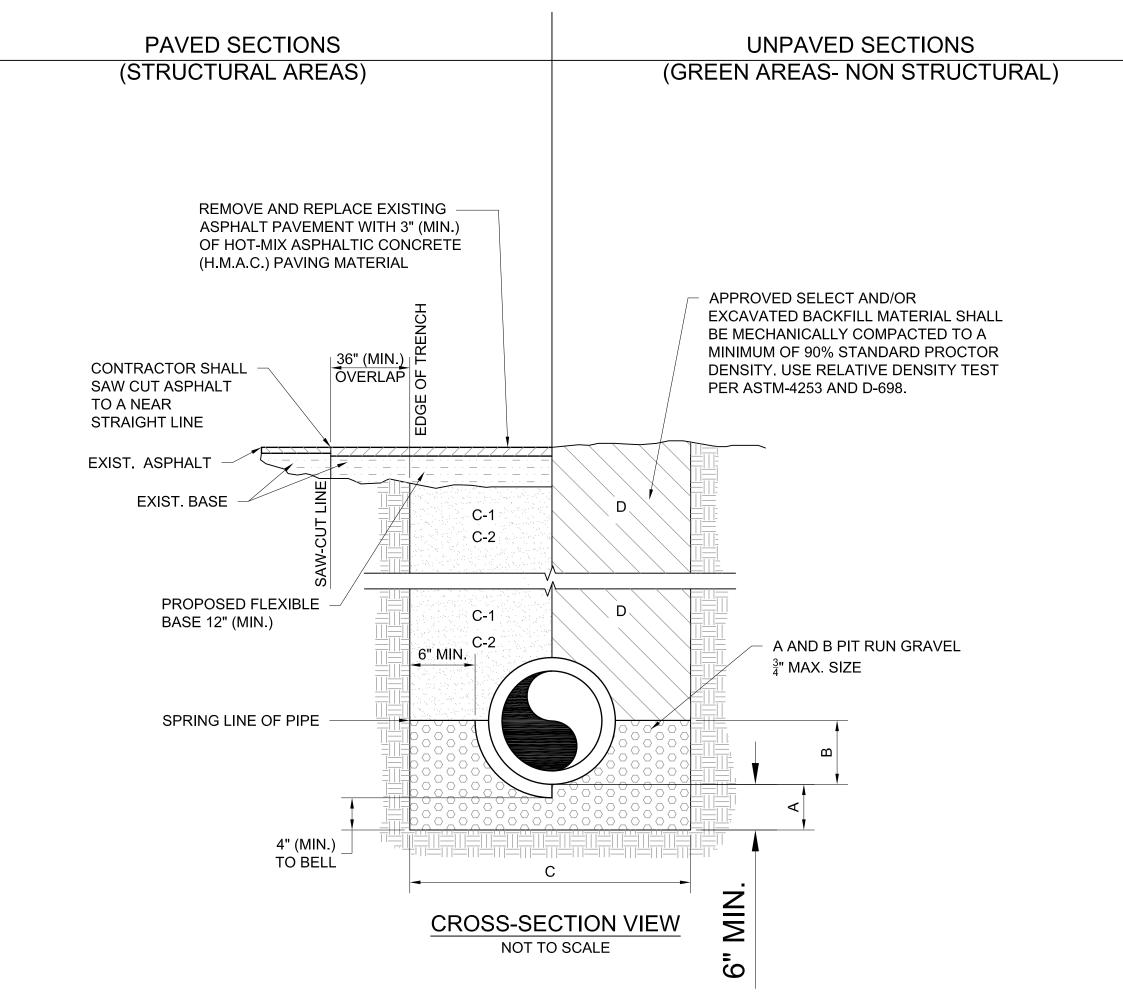
DAYS.

- 1. 6" THICK REINFORCED CONCRETE SLOPE PROTECTION AND TOE-DOWN SHALL HAVE A SPECIFIED STRENGTH OF 3,000 PSI (MIN.) AT 28
- 2. REINFORCEMENT SHALL BE 6X6 NO. 6 GAUGE WELDED WIRE FABRIC REINFORCING FLAT SHEETS OR NO. 4 BARS.
- 3. ALL REINFORCED STEEL BARS SHALL BE GRADE 60.
- PROPOSED CONCRETE SLOPE PROTECTION TO FOLLOW EXISTING DITCH SIDE SLOPE.
- SUBGRADE AND BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

CAST-IN-PLACE CONCRETE SLOPE

				o N	
				DATE	
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				DESCRIPTION	REVISIONS
				RGV STRAT	You just can't turn it off
Carrizales	pue	Julyeyiiig, LLC	Texas Registered Surveying Firm TBPLS FIRM No:10194417	Edinburg, TX 78542	
					WD SURV

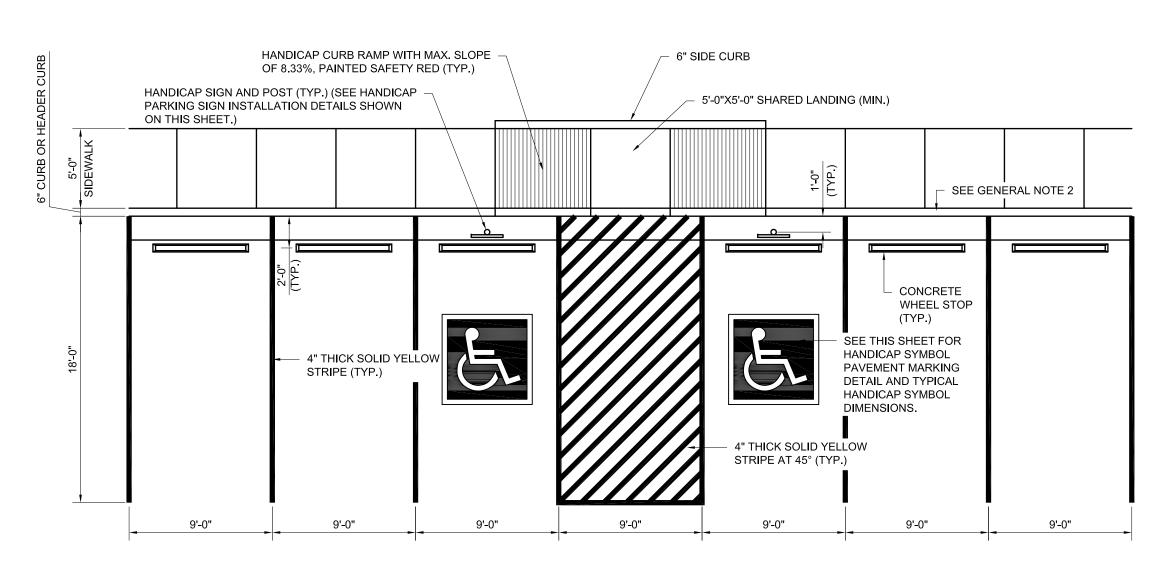
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ANS	DATE:	02/15/2024	
	SCALE:	AS NOTED	
	DRAWN BY: J.C.	J.C.	
SOX	CHECKED BY: M.C.	M.C.	
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GENERAL NOTES:

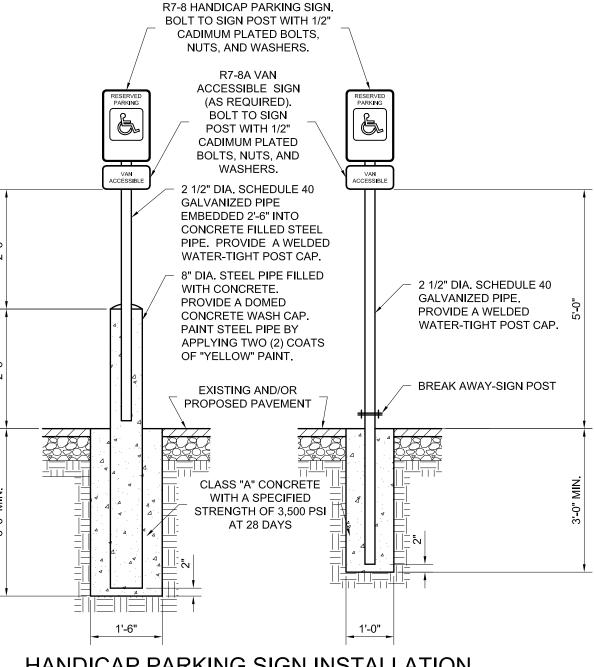
- A. GRAVEL BEDDING (PIT RUN GRAVEL $\frac{3}{4}$ " MAX. SIZE) SHALL BE PLACED BEFORE PIPE IS LAID IN PLACE. (MIN. BEDDING THICKNESS SHALL BE 6") PIT RUN GRAVEL $\frac{3}{4}$ " MAX. SIZE.
- B. GRAVEL (PIT RUN GRAVEL \(\frac{3}{4}\)" MAX. SIZE) SHALL BE PLACED AFTER PIPE IS LAID IN PLACE FROM BOTTOM OF PIPE TO THE SPRING LINE OF PIPE.
- C. TRENCH WIDTHS SHALL BE PIPE BELL O.D.+12".
- C-1. (CITY STREETS, PARKING AREA, DRIVEWAYS) APPROVED SELECT AND/OR EXCAVATED BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN 8" LIFTS.
- C-2. (STATE MAINTAINED ROADWAYS) CEMENT-STABILIZED SAND BACKFILL MATERIAL, COMPOSED OF 7% PORTLAND CEREMENT, SHALL BE
 MECHANICALLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. USE RELATIVE DENSITY TEST PER ASTM D-4253 AND ASTM D-698.
- D. APPROVED SELECT AND/OR EXCAVATED BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY IN 12" LIFTS (GREEN AREA NON-STRUCTURAL). FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT-STABILIZED SAND, SELECT SOIL, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LIFTS, MOISTENED, AS REQUIRED, TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. USE RELATIVE DENSITY TEST PER ASTM D-4553 AND ASTM D-698. THE THICKNESS OF EACH LOOSE LIFT SHALL NOT EXCEED 6". APPROVED STRUCTURAL BACKFILL MATERIAL SHALL BE SAND, CEMENT-STABILIZED SAND, SITE SOIL, OR OTHER APPROVED SUBSTITUTE.
- E. BEFORE ATTEMPTING TO INSTALL STORM SEWER PIPE IN PLACE, BE SURE THAT THE TRENCH EXCAVATION HAS BEEN BENCHED, SLOPED, OR SHORED PROPERLY IN ACCORDANCE TO OSHA REQUIREMENTS AND STANDARDS. HOWEVER, WHEN BENCHING, SLOPING OR SHORING IS RESTRICTED DUE TO LIMITED WORKING AREA OR SPACE, TRENCH SHIELDS (TRENCH BOXES) CAN BE USED IN ACCORDANCE TO OSHA REQUIREMENTS AND STANDARDS.

STORM PIPE TRENCH BEDDING DETAIL

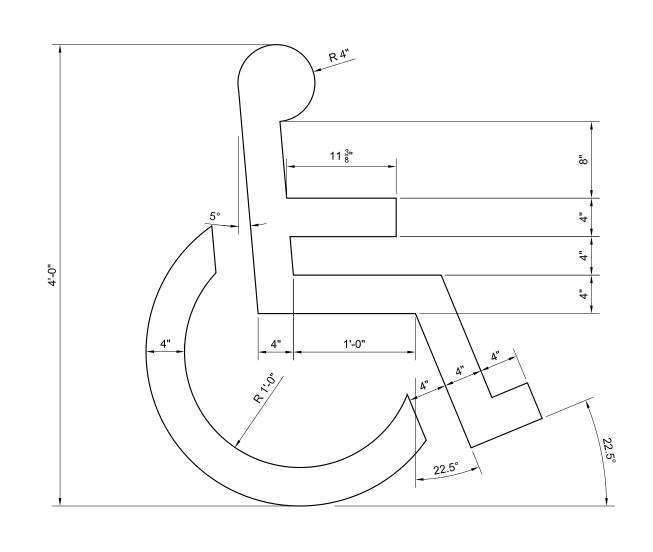


TYPICAL HANDICAP PARKING AND STRIPING

SCALE: 3/8"=1'-0"

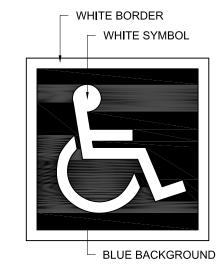






TYPICAL HANDICAP SYMBOL DIMENSIONS

SCALE: 3/8"=1'-0"



HANDICAP SYMBOL
PAVEMENT MARKING
NOT TO SCALE

GENERAL NOTES:

- ALL SIGNS AND MARKINGS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD) UNLESS OTHERWISE SHOWN OR DIRECTED.
- 2. INSTALL A 6-INCH WIDE BY A 12-INCH THICK REINFORCED CONCRETE HEADER CURB WHEN SIDEWALK IS ADJACENT TO OR ABUTS TO ASPHALT PAVEMENT.
- 3. PAINT HANDICAP SYMBOL (WHITE), BACKGROUND (BLUE), AND BORDER (WHITE) AT EACH HANDICAP PARKING SPACE PER HANDICAP SYMBOL PAVEMENT MARKING DETAILS SHOWING THIS SHEET.
- 4. CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, LANDING, OR TRANSITION TO PARKING LOT.

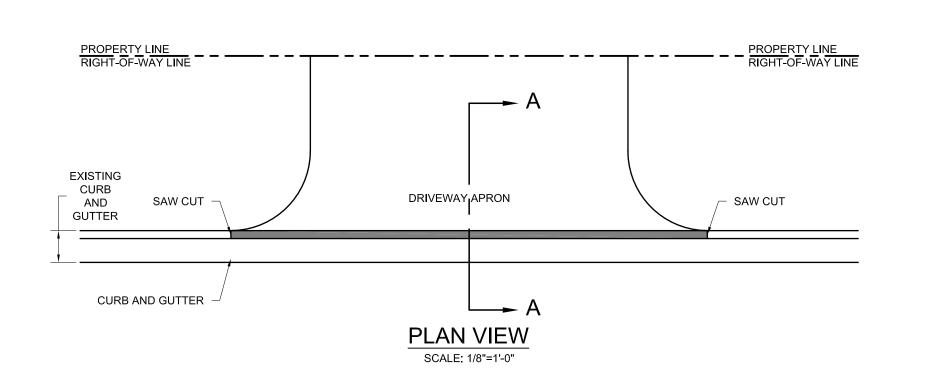
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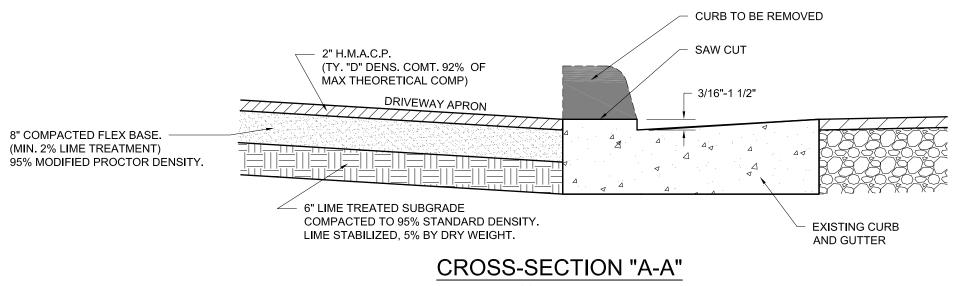
DA I E:	02/15/2024	DUP
SCALE:	AS NOTED	Surveying, LLC
		Texas Registered Surveying Firm
DRAWN BY: J.C.	J.C.	TBPLS FIRM No:10194417
		4807 Gondola Avenue,
CHECKED BY: M.C.	M.C.	Edinburg, TX 78542
		Office: 956-567-2167
DEN CENT	GENERAL	www.cls.land

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PHARR





SCALE: 1"=1'-0" (CURB REMOVED ABOVE GUTTER FLOW LINE)

DRIVEWAY APRON LENGTH

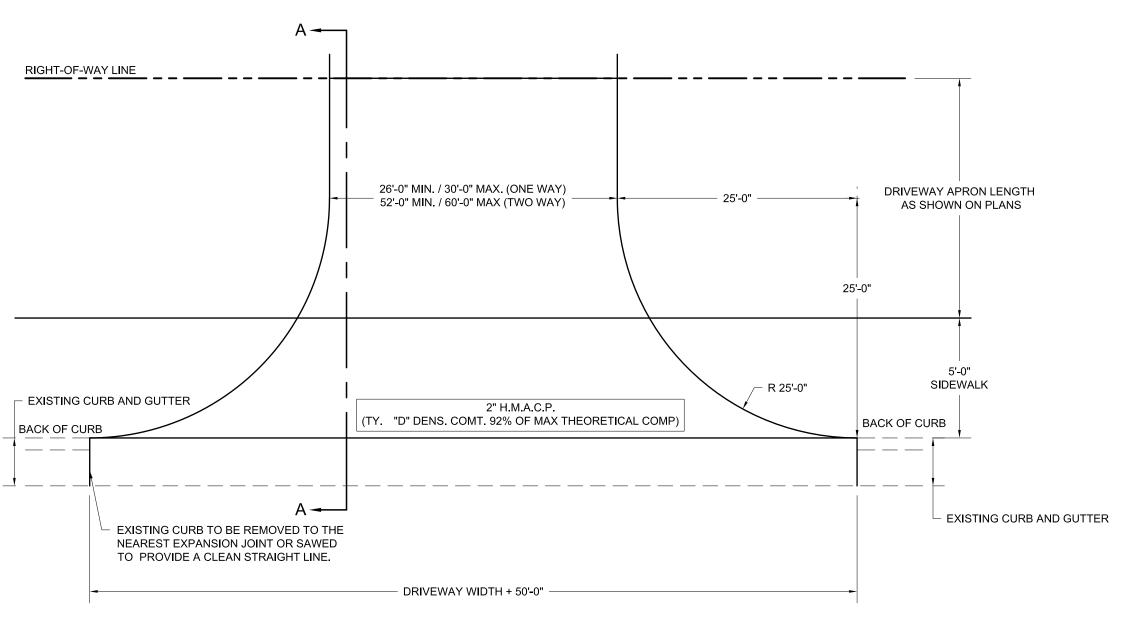
AS SHOWN ON PLANS

- 2" H.M.A.C.P.

CURB CUT DETAILS

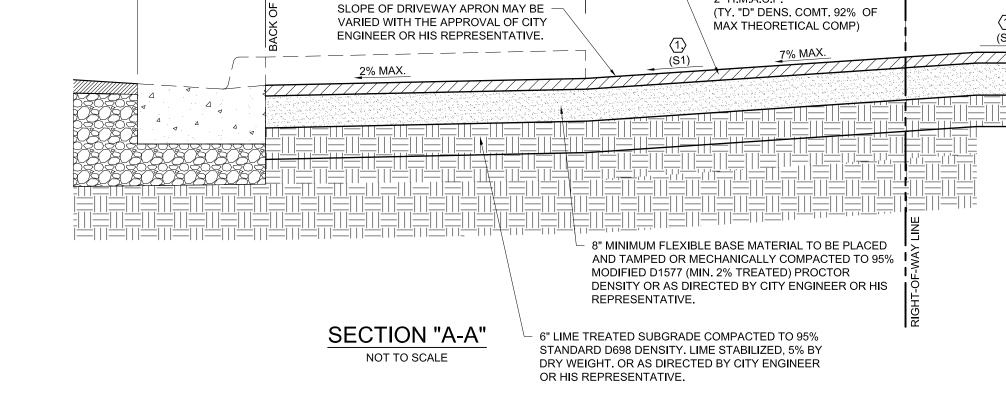
EXISTING

CURB AND GUTTER



PLAN VIEW

NOT TO SCALE



5' SIDEWALK

GENERAL NOTES:

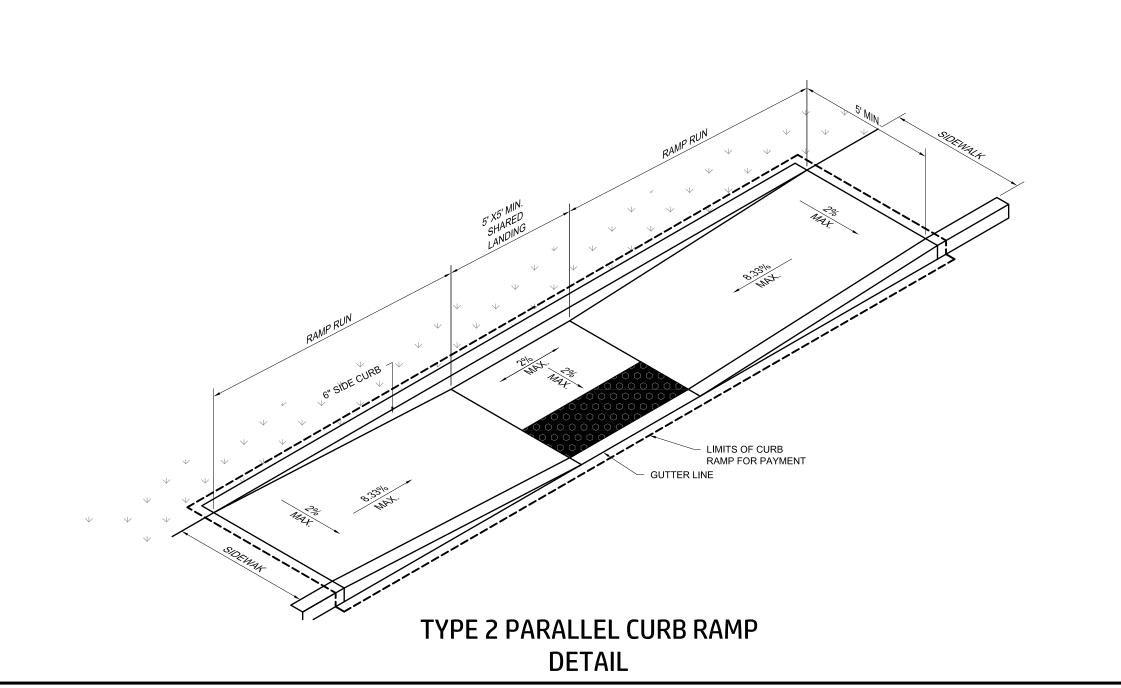
1. DRIVEWAY APRON EXTENSION REFERS TO A PORTION OF EXISTING DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE.

(1.) THE ALGEBRAIC DIFFERENCE OF (S1) AND (S2) SHALL BE 14% OR LESS.

INDUSTRIAL CONCRETE APRON WIDTHS
26'-0" MIN. / 30'-0" MAX. (ONE WAY)
52'-0" MIN. / 60'-0" MAX. (TWO WAY)
52'-0" RECOMMENDED

PROP. DRIVEWAY





TRDI OFFICE AND WAREHOUSE

CONSTRUCTION PLANS

SCALE: AS NOTED

PHARR, TEXAS

CITY OF PHARR STANDARDS

CITY OF PHARR STANDARDS

SHEET NAME:

GENERAL

CONSTRUCTION PLANS

SCALE: AS NOTED

BRAWN BY: J.C.

CHECKED BY: M.C.

GENERAL

GENERAL

AS NOTED

AS NOTED

AS NOTED

AS NOTED

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CHECKED BY: M.C.

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