

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MOST CURRENT EDITION OF THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, AND THE 3RD EDITION OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. IN THE EVENT THAT AN ITEM IS NOT COVERED IN THE CONSTRUCTION DOCUMENTS, THE CITY'S DECISION WILL APPLY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, AND APPROVALS BEFORE CONSTRUCTION BEGINS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF ROCKWALL - PUBLIC WORKS 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- THE TYPES AND INSTALLATION LOCATIONS OF TEMPORARY BARRICADES AND SIGNS DURING CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING ROADS AND STREETS SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES. THE CONTRACTOR SHALL ARRANGE THE SETTING OF BARRICADES SO AS TO CLOSE ONLY ONE LANE OF A ROADWAY AT A TIME (FOR CONSTRUCTION OF TURN LANES). ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED TO PROVIDE THE LEAST POSSIBLE INTERFERENCE TO TRAFFIC AS PROVIDED IN THE SPECIFICATIONS AND/OR AS DIRECTED BY THE CITY. CONTRACTOR SHALL USE BARRICADES AND OTHER WARNING DEVICES TO ADEQUATELY AND PROPERLY MARK AND PROTECT ALL AREAS UNDER CONSTRUCTION. CONTRACTOR SHALL NOT CLOSE ANY PUBLIC STREET OR RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE CITY OF ROCKWALL.
- CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN A CLEAR ZONE BETWEEN THE CONTRACTORS EQUIPMENT AND ANY FRANCHISE UTILITY LINES. THIS CLEAR ZONE SHALL BE AS RECOMMENDED BY THE APPLICABLE FRANCHISE UTILITY COMPANY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS. THE CONTRACTOR SHALL PROVIDE THE CITY "AS-BUILT" MARK-UPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY OF ROCKWALL ENGINEERING DEPARTMENT AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR SPECIFIC WRITTEN APPROVAL OF THE CITY OF ROCKWALL PUBLIC WORKS DEPARTMENT. ON-SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHTS-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY OF ROCKWALL. ALL CONSTRUCTION MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A LOCATION OFF-SITE, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PROPERTY OWNER AND THE CITY OF ROCKWALL. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC ACCESS TO ALL ABUTTING PROPERTY.
- DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE CITY OF ROCKWALL'S CONSTRUCTION INSPECTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATION FOR COMPACTION REQUIREMENTS. INITIAL TESTING WILL BE SCHEDULED, AND PAID FOR, BY THE OWNER, AND ANY REQUIRED RETESTING WILL BE SCHEDULED AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES, OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY, AS REQUIRED, TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT AND CONSTRUCTION SITE NOTICE TO THE TCEQ. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS MEASURING 1" IN HEIGHT AND COVERING 75% OF ALL DISTURBED AREA.
- ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT HIS EXPENSE, UNLESS OTHERWISE SPECIFIED OR AGREED TO BY OWNER. NO FILL SHALL BE PLACED IN CITY LIMITS WITHOUT A FILL PERMIT FROM THE CITY OF ROCKWALL.
- THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS, APPROVED BY THE CITY AND ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING.
- UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND ACCURACY OF THIS DATA IS NOT GUARANTEED.
- WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE CITY.
- FINISHED SLOPES ON PUBLIC RIGHT-OF-WAY AND EASEMENTS SHALL NOT BE STEEPER THAN 3:1. ALL SLOPES STEEPER THAN 6:1 SHALL BE HYDROMULCHED AND MAINTAINED BY THE CONTRACTOR UNTIL GRASS COVERS ALL PARTS OF THE SLOPE. GRASS MUST BE LUSH, GREEN, VIGOROUS AND GROWING. NO BARE SPOTS OVER ONE SQUARE FOOT WILL BE ALLOWED. ALL RUTS FROM "WASHING" MUST BE FILLED AND GRASSED.
- ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE CITY OF ROCKWALL.

GENERAL NOTES (CONT'D.)

- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITIES AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. HE SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
 - ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
 - ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND CITY INSPECTOR. THE PROJECT GEOTECHNICAL ENGINEER WILL REVIEW TEST RESULTS AND COMPARE SAID RESULTS TO THE PROJECT SPECIFICATIONS TO ENSURE COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING TO ENSURE HIS KNOWLEDGE OF THE PROJECT TESTING REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING IMPROVEMENTS.
 - ALL EARTHWORK, UTILITY, AND PAVING OPERATIONS SHALL BE PER THE GEOTECHNICAL EVALUATION BY KLEINFELDER, PROJECT NO. 91221.1, DATED MARCH 28, 2008
- NOTE: ALL 3RD EDITION STD. NCTCOG DETAILS SHALL BE MODIFIED AS NECESSARY AND AS APPLICABLE TO CONFORM TO CITY OF ROCKWALL SPECIFICATIONS AND STANDARDS. (AS SHOWN)
- ALL FILL TO BE COMPACTED WITH A SHEEPS FOOT ROLLER AND TO A MINIMUM OF 95% STANDARD DENSITY.
 - USE CITY OF ROCKWALL AND NCTCOG 3RD EDITION STANDARDS.
 - ALL MANHOLES LOCATED IN PAVEMENT ARE TO BE SEALED.
 - ALL WALLS 4' AND TALLER MUST BE APPROVED BY DESIGN ENGINEER AND A LETTER SUBMITTED TO THE CITY SIGNED AND SEALED STATING THAT THE DESIGN ENGINEER INSPECTED THE WALL DURING CONSTRUCTION AND AFTER AND THE WALL IS BUILT TO DESIGN.
 - CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCING W/ CONSTRUCTION.
 - REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.

PAVING NOTES

- REINFORCED CONCRETE PAVEMENT:
 - ALL CURBS SHALL BE PLACED INTEGRAL WITH THE PAVEMENT.
 - CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PAVEMENT.
 - BAR LAPS SHALL BE 30 DIAMETERS.
 - REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE OWNER
- EXACT LOCATION OF STREET LIGHT CONDUIT TO BE DEFINED BY THE CITY AND ONCOR PRIOR TO CONSTRUCTION. STREET LIGHT CONDUIT (2" PVC SCHEDULE 40 ELECT. CONDUIT) TO BE INSTALLED WITH A 3' BURIED DEPTH.
- THE PAVING CONTRACTOR SHALL NOT PLACE PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR IRRIGATION, ELECTRIC, GAS, TELEPHONE, CABLE TV, SITE LIGHTING, ETC. HAS BEEN INSTALLED. IT SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL SLEEVING IS IN PLACE PRIOR TO PLACING PERMANENT PAVEMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE CITY ENGINEER WITH A CONCRETE MIX DESIGN AT THE PRE-CONSTRUCTION MEETING. THE COST OF THIS DESIGN SHALL BE INCLUDED IN THE UNIT PRICE OF PAVEMENT MATERIAL OR AT LEAST 10 DAYS PRIOR TO POUR.
- ALL DISTURBED AREAS, INCLUDING MEDIANS, SHALL BE HYDROMULCH SEEDED IMMEDIATELY FOLLOWING FINISHED GRADING EXCEPT ALL DISTURBED PUBLIC ROW AREAS SHALL BE SODDED.
- EXPANSION AND CONTRACTION JOINTS SHALL BE LOCATED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- MANHOLES AND VALVE BOXES WILL NOT BE BLOCKED OUT. PAVEMENT CONSTRUCTION TO RUN CONTINUOUS.
- SUBGRADE UNDER ALL PAVEMENT SHALL BE PER THE KLEINFELDER CENTRAL, INC. PROJECT NO. 91221.1, DATED MARCH 28, 2008. LABORATORY TESTS MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL TO DETERMINE FINAL AMOUNT OF LIME REQUIRED. NO SAND ALLOWED UNDER PAVEMENT.
- PAVEMENT SIGNING AND MARKING (BOTH TEMPORARY AND PERMANENT) SHALL BE INSTALLED ON ALL NEW PAVEMENT PER THE PLANS, SPECIFICATIONS, AND CITY OF ROCKWALL STANDARDS.
- UNLESS OTHERWISE NOTED, ALL CURB DIMENSIONS ARE TO FACE OF CURB.
- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN TXDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION).
- ALL UNPAVED AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REGRADED AND LANDSCAPED (INCLUDING SOD).
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS, UNLESS NOTED OTHERWISE.

PAVING NOTES (CONT'D.)

- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL FULL DEPTH SAW CUT THE EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED AND INSTALLED WITH A LONGITUDINAL BUTT JOINT.
- THE CONTRACTOR SHALL INSTALL VALLEY GUTTERS AND WARP CURB RETURN PAVEMENT AS NECESSARY TO ENSURE POSITIVE DRAINAGE PER THE DRAINAGE AREA MAP.

UTILITY NOTES

- THE CONTRACTOR SHALL CONTACT ALL NECESSARY PUBLIC AGENCIES AND UTILITY COMPANIES AND FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING ANY CONSTRUCTION WITHIN THE PROJECT LIMITS. AN INFORMAL LIST OF UTILITY COMPANIES FOLLOWS:

CITY OF ROCKWALL (972) 771-7730 ATMOS ENERGY (972) 485-6277
 ONCOR ELECTRIC (972) 569-6310 AT&T (903) 457-2200
 CHARTER COMMUNICATIONS (817) 298-3655

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL RELEVANT UTILITY COMPANIES REGARDLESS OF THEIR POSSIBLE EXCLUSION FROM THIS LIST.

THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM RECORDS WHICH MAY NOT HAVE BEEN COMPLETELY ACCURATE. THEREFORE, THE PRESENCE, LOCATION, AND ELEVATION OF EXISTING UTILITIES IN THE FIELD SHALL BE VERIFIED BY THE CONTRACTOR BEFORE COMMENCING WORK. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. FAILURE OF ANY EXISTING UTILITY TO APPEAR ON THE PLANS OR RECORD SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT AND REPAIR, IF DAMAGED, SUCH UTILITIES. ANY REPAIR TO LINES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, WATER VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES MUST BE ADJUSTED TO PROPER LINE AND GRADE BEFORE FINAL ACCEPTANCE BY THE CITY OF ROCKWALL.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) FOOT VERTICAL CLEARANCE BETWEEN ALL UNDERGROUND UTILITIES, UNLESS NOTED OTHERWISE ON PLANS.

- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING TESTING OF ALL MAINS, AND APPURTENANCES.
- THE PROPOSED 12" WATER MAINS SHALL HAVE A MINIMUM COVER OF FOUR (4') FEET MEASURED FROM THE TOP OF THE PROPOSED GRADE TO THE TOP OF PROPOSED PIPE.
- ALL CAST IRON FITTINGS SHALL BE POLYWRAPPED.
- ARRANGEMENTS FOR CONSTRUCTION WATER TO BE THROUGH CITY OF ROCKWALL SERVICE CENTER (972-771-7730).
- NO EXISTING VALVE OR HYDRANT SHALL BE OPERATED, OR ANY EXISTING MAIN TAPPED, WITHOUT PRIOR AUTHORIZATION FROM CITY OF ROCKWALL DEPARTMENT OF PUBLIC WORKS.
- BACKFILL SHALL CONFORM TO THE CONTRACT SPECIFICATIONS AND TO ANY APPLICABLE CITY STANDARDS. NO JETTING SHALL BE ALLOWED. BACKFILL SHALL BE FREE FLOWING, FREE OF ROCKS AND LARGE CLODS. BACKFILL SHALL BE PLACED IN 6- TO 9-INCH LIFTS AT OR ABOVE OPTIMUM MOISTURE AND MECHANICALLY COMPACTED TO 95 PERCENT STANDARD PROCTOR UNDER PAVED AREAS (EXISTING, PROPOSED, AND PUBLIC ROW AREAS), AND MIN. 95 PERCENT STANDARD PROCTOR UNDER ALL OTHER AREAS.
- A BLUE STIMSONITE, FIRE-LITE REFLECTOR (OR APPROVED EQUAL) SHALL BE PLACED IN THE CENTER OF THE STREET OPPOSITE FIRE HYDRANTS.
- THE BODY OF ALL FIRE HYDRANTS SHALL BE PAINTED WITH AN APPROVED ALUMINUM PAINT; BONNETS SHALL BE PAINTED ACCORDING TO CITY OF ROCKWALL STANDARDS.
- FIRE HYDRANT OUTLET NOZZLES TO BE NOT LESS THAN 19" NOR MORE THAN 21" ABOVE FINAL GRADE.
- ALL EMBEDMENT TO CONFORM TO CITY OF ROCKWALL STANDARD SPECIFICATIONS.
- VALVES TO BE PROVIDED WITH AN APPROVED VALVE BOX. VALVES GREATER THAN 4 FEET DEEP SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS. CONCRETE PADS WILL BE REQUIRED AT EACH VALVE BOX PER CITY OF ROCKWALL REQUIREMENTS.
- UPON RECEIPT OF ACCEPTABLE BACTERIOLOGICAL REPORT, CONTRACTOR TO REMOVE COPPER BLEEDER LINES FROM MAIN.
- NO STREET CUTS WILL BE ALLOWED FOR TAPPING EXISTING UTILITIES, EXCEPT WHERE SHOWN IN THE PLANS.
- ALL 12" AND SMALLER WATER PIPE TO BE PVC DR-18, C-900, CLASS 200.
- ALL SANITARY SEWER PIPE LESS THAN TEN (10) FEET DEEP SHALL BE PVC SDR 35 CONFORMING TO THE REQUIREMENTS OF ASTM-D3034. ALL SANITARY SEWER PIPE TEN (10) FEET OR DEEPER SHALL BE PVC SDR 26 CONFORMING TO THE REQUIREMENTS OF ASTM-D3034.
- SANITARY SEWER MAINS CROSSING WATER MAINS SHALL MEET ALL CURRENT APPLICABLE TCEQ STANDARDS. THIS SHALL NOT BE A SEPARATE PAY ITEM.

UTILITY NOTES (CONT'D.)

- CONTRACTOR MAY USE STANDARD PRE-CAST CONCRETE MANHOLES OR CAST-IN-PLACE MANHOLES.
- ALL WATER AND SANITARY SEWER CONSTRUCTION NOT SPECIFICALLY REFERENCED IN THESE NOTES OR THE CONTRACT SPECIFICATIONS SHALL BE BY CITY OF ROCKWALL STANDARDS, WHICH ARE HEREBY MADE A PART OF THESE PLANS.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATER TIGHT PLUGS IN ALL CONNECTIONS TO THE CITY'S SANITARY SEWER SYSTEM UNTIL THE PROJECT IS ACCEPTED BY THE CITY.
- ALL SANITARY SEWER LINES AND MANHOLES SHALL BE LEAK TESTED BEFORE THE PROJECT IS ACCEPTED. TV INSPECTION AND MANDREL DEFLECTION TESTING OF PVC SEWER LINES IS REQUIRED.
- UNLESS OTHERWISE NOTED, ALL PIPE DIMENSIONS ARE TO PIPE CENTERLINE.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACKFILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER, OR OWNER RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PRIVATE UTILITY PVC SLEEVES TO BE SCH. 40. ALL SLEEVES SHALL HAVE SELECT MATERIAL BEDDING AND BACKFILL A MINIMUM OF 4 INCHES ABOVE TOP OF SLEEVE. MINIMUM COVER BELOW PAVEMENT SUBGRADE TO TOP OF SLEEVE SHALL BE:
 - GAS - 2 FEET
 - SIGNALIZATION - 3 FEET
 - ALL OTHER PRIVATE UTILITIES - 2 FEET
 MULTIPLE RUNS OF SLEEVES SHALL BE INSTALLED WITH A SPACER AT 5-FOOT CENTERS.
- STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CLASS III UNLESS OTHERWISE NOTED. STORM SEWER RADIUS PIPE SHALL BE TYPE B-2 TONGUE AND GROOVE RADIUS PIPE PER ASTM C-76.
- ALL FIRELANE CONCRETE SHALL BE CLASS "C" (3600 PSI COMPRESSIVE STRENGTH AT 28 DAYS), AIR ENTRAINED (MIN. 6-1/2 SACK CONCRETE HAND POUR, 6 SACK MACHINE FINISH). ALL CONCRETE FOR DRAINAGE STRUCTURES TO BE MINIMUM 4200 PSI.
- THE CONTRACTOR SHALL INSTALL PLUGS IN STORM SEWER LINES OR OTHERWISE PREVENT MUD FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE DESILTED AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE UNOBSTRUCTED POSITIVE DRAINAGE FLOWS.
- CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED, WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES LOCAL, STATE, OR FEDERAL WATER QUALITY STANDARDS.
- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER DISCHARGE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY AUTHORIZED AUTHORITIES.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE T.C.E.Q. GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- A BLUE EMS PAD SHALL BE PLACED AT EVERY WATER LINE CHANGE IN DIRECTION, VALVE, FIRE HYDRANT, AND SERVICE.
- A GREEN EMS PAD SHALL BE PLACED AT EVERY SANITARY SEWER MANHOLE, CLEANOUT, AND SERVICE.
- ALL STORM SEWER PIPE JOINTS SHALL BE SEALED PER NTCOG AND CITY OF ROCKWALL CONSTRUCTION SPECIFICATIONS.
- FIRE HYDRANTS SHALL HAVE 5' CLEARANCE AROUND.
- ALL FITTINGS SHALL BE MEGALUG.

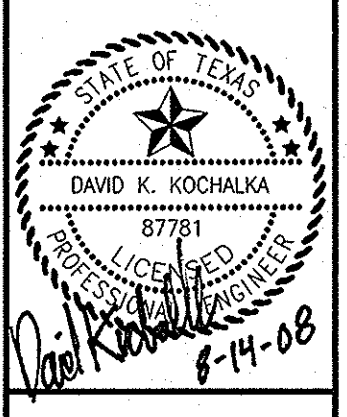
03/06/09

RECORD DRAWING
 THIS RECORD DRAWING REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

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App.	
Revisions	
Date	
No.	

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COSTCO WHOLESALE
 ROCKWALL, TEXAS

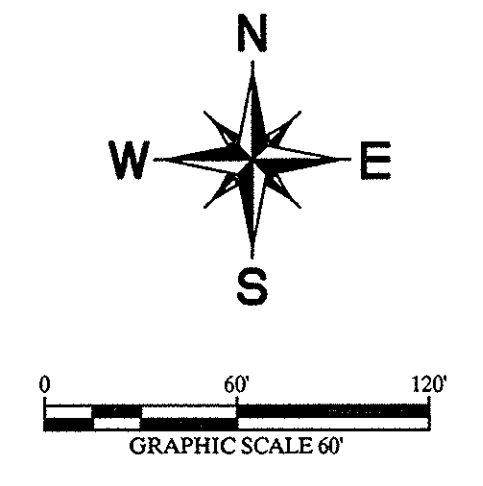
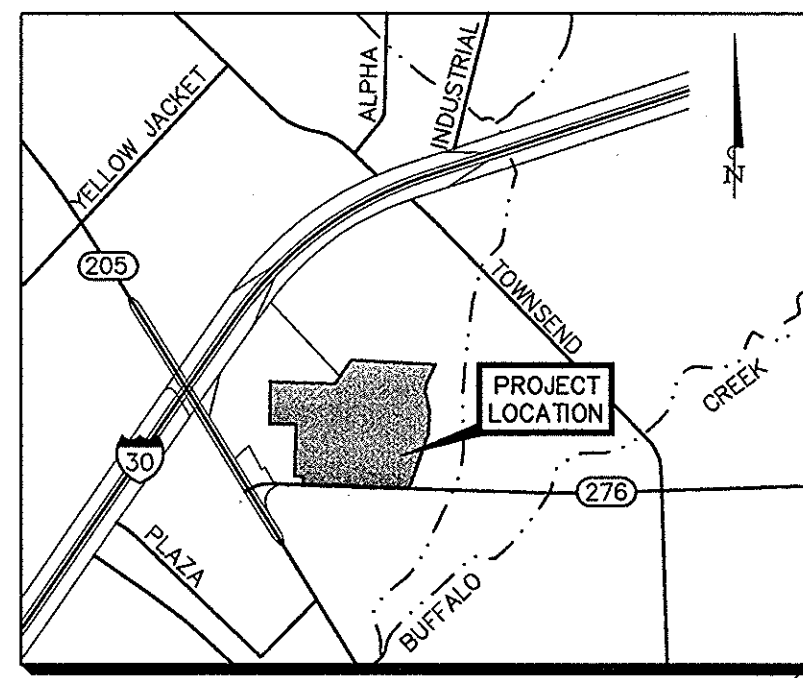
GENERAL NOTES

Scale:	AS SHOWN
Designed by:	KFD
Drawn by:	KFD
Checked by:	DNK
Date:	August 14, 2008
Project No.:	06600025

SHEET
C-1
 OF 21

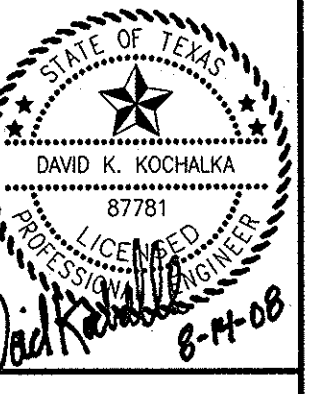
SITE DATA SUMMARY TABLE

ZONING	COMMERCIAL DISTRICT
PROPOSED USE	RETAIL - GENERAL
TOTAL LOT AREA	883,850 SF / 20.290 AC
TOTAL BUILDING AREA	147,322 SF / 3.382 AC
BUILDING HEIGHT	40 FT
TOTAL IMPERVIOUS AREA	605,229 SF
TOTAL LANDSCAPE AREA REQUIRED (15%)	132,578 SF
TOTAL LANDSCAPE AREA PROVIDED (20.2%)	178,192 SF
TOTAL OFF-STREET PARKING REQUIRED (1/250 SF = 4/1000 SF)	590
TOTAL OFF-STREET PARKING PROVIDED (1.21/250 SF = 4.84/1000 SF)	713
TOTAL HANDICAP PARKING REQUIRED (2% OF TOTAL)	15
TOTAL HANDICAP PARKING PROVIDED	15



No.	Date	Revisions	App.

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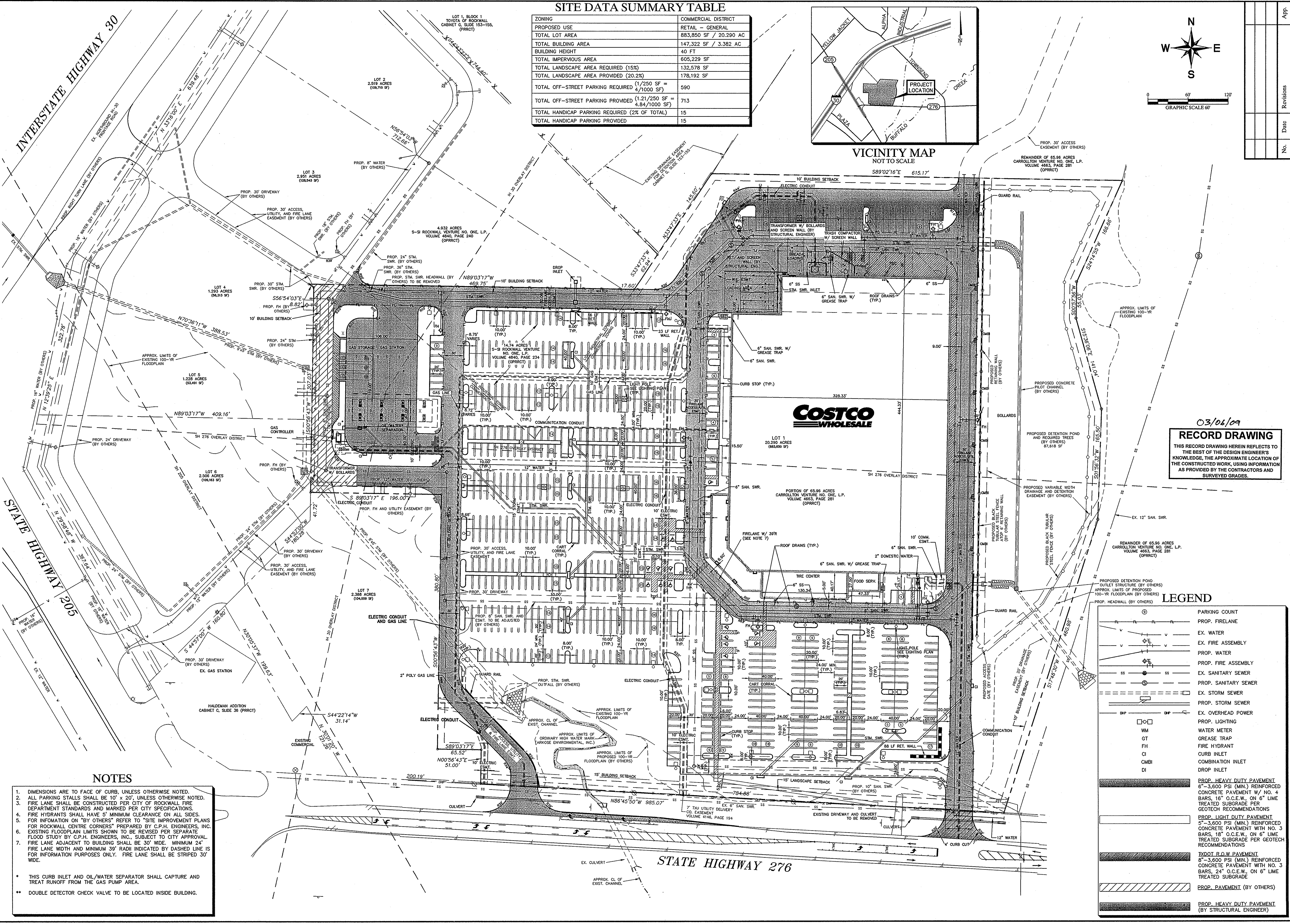


COSTCO WHOLESALE
 ROCKWALL, TEXAS

SITE PLAN

Scale: AS SHOWN
 Designed by: DSS
 Drawn by: CDR
 Checked by: DDK
 Date: August 14, 2008
 Project No.: 066600025

SHEET
C-2
 OF 21



03/06/09
RECORD DRAWING
 THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

LEGEND

	PARKING COUNT
	PROP. FIRELANE
	EX. WATER
	EX. FIRE ASSEMBLY
	PROP. WATER
	PROP. FIRE ASSEMBLY
	EX. SANITARY SEWER
	PROP. SANITARY SEWER
	EX. STORM SEWER
	PROP. STORM SEWER
	EX. OVERHEAD POWER
	PROP. LIGHTING
	WATER METER
	GREASE TRAP
	FIRE HYDRANT
	CURB INLET
	COMBINATION INLET
	DROP INLET
	PROP. HEAVY DUTY PAVEMENT 6" - 3,600 PSI (MIN.) REINFORCED CONCRETE PAVEMENT W/ NO. 4 BARS, 18" O.C.E.W. ON 6" LIME TREATED SUBGRADE PER GEOTECH RECOMMENDATIONS
	PROP. LIGHT DUTY PAVEMENT 5" - 3,600 PSI (MIN.) REINFORCED CONCRETE PAVEMENT WITH NO. 3 BARS, 18" O.C.E.W. ON 6" LIME TREATED SUBGRADE PER GEOTECH RECOMMENDATIONS
	PROP. ROOT R.O.W. PAVEMENT 8" - 3,600 PSI (MIN.) REINFORCED CONCRETE PAVEMENT WITH NO. 3 BARS, 24" O.C.E.W. ON 6" LIME TREATED SUBGRADE
	PROP. PAVEMENT (BY OTHERS)
	PROP. HEAVY DUTY PAVEMENT (BY STRUCTURAL ENGINEER)

NOTES

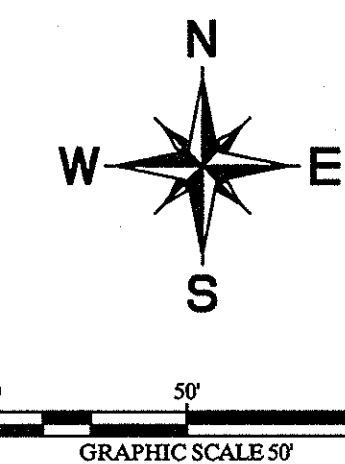
- DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
- ALL PARKING STALLS SHALL BE 10' x 20', UNLESS OTHERWISE NOTED.
- FIRE LANE SHALL BE CONSTRUCTED PER CITY OF ROCKWALL FIRE DEPARTMENT STANDARDS AND MARKED PER CITY SPECIFICATIONS.
- FIRE HYDRANTS SHALL HAVE 5' MINIMUM CLEARANCE ON ALL SIDES.
- FOR INFORMATION ON "BY OTHERS" REFER TO "SITE IMPROVEMENT PLANS FOR ROCKWALL CENTRE CORNERS" PREPARED BY C.P.H. ENGINEERS, INC.
- EXISTING FLOODPLAIN LIMITS SHOWN TO BE REVISED PER SEPARATE FLOOD STUDY BY C.P.H. ENGINEERS, INC., SUBJECT TO CITY APPROVAL.
- FIRE LANE ADJACENT TO BUILDING SHALL BE 30' WIDE. MINIMUM 24' FIRE LANE WIDTH AND MINIMUM 39' RADI INDICATED BY DASHED LINE IS FOR INFORMATION PURPOSES ONLY. FIRE LANE SHALL BE STRIPED 30' WIDE.

- THIS CURB INLET AND OIL/WATER SEPARATOR SHALL CAPTURE AND TREAT RUNOFF FROM THE GAS PUMP AREA.
- DOUBLE DETECTOR CHECK VALVE TO BE LOCATED INSIDE BUILDING.

IMAGES: XREF: 011, XREF: 012, XREF: 013, XREF: 014, XREF: 015, XREF: 016, XREF: 017, XREF: 018, XREF: 019, XREF: 020, XREF: 021, XREF: 022, XREF: 023, XREF: 024, XREF: 025, XREF: 026, XREF: 027, XREF: 028, XREF: 029, XREF: 030, XREF: 031, XREF: 032, XREF: 033, XREF: 034, XREF: 035, XREF: 036, XREF: 037, XREF: 038, XREF: 039, XREF: 040, XREF: 041, XREF: 042, XREF: 043, XREF: 044, XREF: 045, XREF: 046, XREF: 047, XREF: 048, XREF: 049, XREF: 050, XREF: 051, XREF: 052, XREF: 053, XREF: 054, XREF: 055, XREF: 056, XREF: 057, XREF: 058, XREF: 059, XREF: 060, XREF: 061, XREF: 062, XREF: 063, XREF: 064, XREF: 065, XREF: 066, XREF: 067, XREF: 068, XREF: 069, XREF: 070, XREF: 071, XREF: 072, XREF: 073, XREF: 074, XREF: 075, XREF: 076, XREF: 077, XREF: 078, XREF: 079, XREF: 080, XREF: 081, XREF: 082, XREF: 083, XREF: 084, XREF: 085, XREF: 086, XREF: 087, XREF: 088, XREF: 089, XREF: 090, XREF: 091, XREF: 092, XREF: 093, XREF: 094, XREF: 095, XREF: 096, XREF: 097, XREF: 098, XREF: 099, XREF: 100, 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THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)



LEGEND

- PARKING COUNT
- PROP. HEAVY DUTY PAVEMENT (BY STRUCTURAL ENGINEER)
- PROP. LIGHT DUTY PAVEMENT (BY STRUCTURAL ENGINEER)
- TxDOT R.O.W. PAVEMENT #1
- TxDOT R.O.W. PAVEMENT #2
- PROP. PAVEMENT (BY OTHERS)
- PROP. HEAVY DUTY PAVEMENT (BY STRUCTURAL ENGINEER)
- PROP. FIRELANE
- REFERENCE NOTES THIS SHEET
- PROPOSED LIGHTING
- FIRE HYDRANT

SITE LEGEND

- 1 ACCESSIBLE PARKING SPACE (TYP.) SEE DETAIL SHEET.
- 2 CONCRETE WHEEL STOP. SEE DETAILS SHEET.
- 3 TRASH COMPACTOR AND ENCLOSURE. SEE ARCH./STRUCTURAL PLANS FOR DETAILS.
- 4 CONCRETE TRANSFORMER PAD BY UTILITY CONTRACTOR.
- 5 CART CORRAL (SEE ARCH. PLANS FOR DETAIL)
- 6 6" CURB AND GUTTER. SEE ARCHITECT'S PLANS.
- 7 NO CURB - FLUSH WITH PAVEMENT.
- 8 SEE ARCH. PLANS FOR SIDEWALK, CURB, AND FLATWORK ADJACENT TO BUILDING.
- 9 ACCESSIBLE ROUTE. REFER TO PAVING AND STRIPING DETAILS.
- 10 4" WIDE CONCRETE CURB CUT FLUME
- 11 4" WHITE TRAFFIC STRIPING 2" O.C. @ 45'. SEE ARCH. PLANS FOR DETAILS.
- 12 28 L.F. MOUNTABLE CURB. SEE SHEET C-18 - PAVING AND STRIPING DETAILS.

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
2. ALL PARKING STALLS SHALL BE 10' x 20', UNLESS OTHERWISE NOTED.
3. ALL RADII ARE 4', UNLESS OTHERWISE NOTED.
4. FIRE LANE SHALL BE CONSTRUCTED PER CITY OF ROCKWALL FIRE DEPARTMENT STANDARDS AND MARKED CITY SPECIFICATIONS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
5. FOR INFORMATION ON "BY OTHERS" REFER TO "SITE IMPROVEMENT PLANS FOR ROCKWALL CENTRE CORNERS" PREPARED BY C.P.H. ENGINEERS, INC.
6. EXISTING FLOODPLAIN LIMITS SHOWN TO BE REVISED PER SEPARATE FLOOD STUDY BY C.P.H. ENGINEERS, INC., PENDING CITY APPROVAL.
7. BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS" AND THE CITY OF ROCKWALL SPECIFICATIONS.
8. PAVEMENT DESIGN DATA SHOWN BY REFERENCE ONLY. PAVEMENT TO BE PER GEOTECH REPORT PROJECT NO. 91221.1 DATED MARCH 28, 2008 BY KLEINFELDER.
9. ALL SIGNAGE MUST BE SEPARATELY PERMITTED THROUGH THE CITY OF ROCKWALL CODE ADMINISTRATION DEPARTMENT. CONTRACTOR TO VERIFY T.A.S. COMPLIANCE. FOR ANY QUESTIONS CONTACT CIVIL ENGINEER IMMEDIATELY.
10. CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL PLANS BEFORE CONSTRUCTION STARTING. REFER TO LANDSCAPE PLANS FOR ALL SCREENING AND OPEN SPACE CALCULATIONS.
11. REFER TO SITE LIGHTING PLANS FOR ALL LIGHTING LOCATIONS, SPECIFICATIONS, AND PHOTOMETRIC DETAILS
12. REFER TO BUILDING ELEVATION PLANS FOR ALL BUILDING SIGNAGE LOCATIONS AND DETAILS.
13. FUEL STORAGE TANKS, TANK SLAB, AND CANOPY SLAB BY GAS STATION CONTRACTOR (NOT PART OF WAREHOUSE PLANS).

03/06/09
RECORD DRAWING
THIS RECORD DRAWING REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

PAVING CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SLEEVES. REFERENCE IRRIGATION PLANS FOR SLEEVE LOCATION, QUANTITY AND SIZE.

- BM: SQUARE CUT W/ "X" SET ON TOP OF CONCRETE HEADWALL 15' NORTH OF THE NORTH EDGE OF PAVEMENT OF FM 276, 375' WEST OF SOUTHWEST PROPERTY CORNER ELEV. = 552.00
- BM: CITY OF ROCKWALL CONTROL MONUMENT #2 ELEV. = 609.39
- BM: 60d SET ON TOP OF CONCRETE HEADWALL 400' NORTH HWY 30 ELEV. = 552.00

STATE HIGHWAY 276

Kimley-Horn and Associates, Inc.
Tel. No. (972) 335-1550
Fax No. (972) 335-3779

5750 Genesis Court, Suite 100
Frisco, Texas 75034

DAVID K. KOCHALKA
LICENSED PROFESSIONAL ENGINEER
No. 87781
9-22-08

COSTCO WHOLESALE
ROCKWALL, TEXAS

PAVING AND DIMENSION CONTROL PLAN

Scale:	AS SHOWN
Designed by:	KED
Drawn by:	KED
Checked by:	DKK
Date:	August 14, 2008
Project No.:	066000025

SHEET
C-3
OF 21

XREF: A-M, XREF: B-M, XREF: C-M, XREF: D-M, XREF: E-M, XREF: F-M, XREF: G-M, XREF: H-M, XREF: I-M, XREF: J-M, XREF: K-M, XREF: L-M, XREF: M-M, XREF: N-M, XREF: O-M, XREF: P-M, XREF: Q-M, XREF: R-M, XREF: S-M, XREF: T-M, XREF: U-M, XREF: V-M, XREF: W-M, XREF: X-M, XREF: Y-M, XREF: Z-M
 PLOTTED BY: DANIEL R. KATIE 02/27/09 10:44 AM
 C:\PROJECTS\066000025\COSTCO WHOLESALE\DWG\PAVING AND DIMENSION CONTROL PLAN.DWG
 LAST SAVED: 01/26/09 2:04 PM

IMAGES PLOTTED BY DWG NAME: C:\PROJECTS\06000025\COSTCO ROCKWALL\LINKS\STORM CALCULATIONS.DWG

Inlet Design Calculations																
Project Name: Costco Rockwall										Date: 07/21/08						
Project No.: 06000025										Designed By: KFD						
Project Description:										Checked By: DKK						
No.	Inlet Drainage Area	Design Storm Frequency	RUNOFF (Q = C I A)					Carryover from Upstream Inlet	Total Gutter Flow	Gutter Capacity	Gutter Slope	Crown Type	Length	SELECTED INLET Type	Inlet Capacity	Carry Over to Downstream Inlet
			Time of Conc.	Rainfall Intensity	Runoff Coeff.	Area	Runoff									
			T _c (yrs)	I (in/hr)	C	A (ac)	Q (cfs)									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A1	A1	100	10	9.8	0.90	0.96	8.5	-	8.5	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
A3	A3	100	10	9.8	0.90	0.50	4.4	-	4.4	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
A4	A4	100	10	9.8	0.90	0.58	5.1	-	5.1	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
A5	A5	100	10	9.8	0.90	0.81	7.1	-	7.1	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
A6	A6	100	10	9.8	0.90	1.64	14.5	-	14.5	-	-	N/A	4x4	V DROP INLET	15.5	-
B1	B1	100	10	9.8	0.90	1.06	9.3	-	9.3	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
B2	B2	100	10	9.8	0.90	0.83	7.3	-	7.3	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
C1	C1	100	10	9.8	0.90	0.19	1.7	-	1.7	-	-	N/A	5	I CURB INLET ON GRADE	2.3	-
C2	C2	100	10	9.8	0.90	0.69	6.1	-	6.1	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
C3	C3	100	10	9.8	0.90	0.40	3.5	-	3.5	-	-	N/A	10	I CURB INLET ON GRADE	5.8	-
C4	C4	100	10	9.8	0.90	1.16	10.2	-	10.2	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
D1	D1	100	10	9.8	0.90	0.77	6.8	-	6.8	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
D2	D2	100	10	9.8	0.90	0.98	8.6	-	8.6	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
D3	D3	100	10	9.8	0.90	0.94	8.3	-	8.3	-	-	N/A	10	IA CURB INLET AT LOW POINT	20.5	-
E1	E1	100	10	9.8	0.90	0.61	5.4	-	5.4	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
E2	E2	100	10	9.8	0.90	0.14	1.2	-	1.2	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
E3	E3	100	10	9.8	0.90	0.08	0.7	-	0.7	-	-	N/A	5	IA CURB INLET AT LOW POINT	10.5	-
F1	F1	100	10	9.8	0.90	0.27	2.4	-	2.4	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F2	F2	100	10	9.8	0.90	0.06	0.5	-	0.5	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F3	F3	100	10	9.8	0.90	0.07	0.6	-	0.6	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F4	F4	100	10	9.8	0.90	0.07	0.6	-	0.6	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F5	F5	100	10	9.8	0.90	0.07	0.6	-	0.6	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F6	F6	100	10	9.8	0.90	0.07	0.6	-	0.6	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-
F7	F7	100	10	9.8	0.90	0.06	0.5	-	0.5	-	-	N/A	5	III-A COMBINATION INLET AT LOW GRADE	12.0	-

NOTES:
 1. THE CAPACITY OF CURB INLETS ON GRADE WAS OBTAINED FROM FIGURE 3.5a OF THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, AUGUST 2003.
 2. THE CAPACITY OF CURB INLETS AT LOW POINTS WAS OBTAINED FROM FIGURE 3.7 USING A MAXIMUM DESIRED FLOW DEPTH AT THE INLET OF 0.5'.
 3. THE CAPACITY OF DROP INLETS AT LOW POINTS WAS OBTAINED FROM FIGURE 3.16 USING A MAXIMUM DESIRED FLOW DEPTH AT THE INLET OF 0.5'.

HYDROLOGY CALCULATIONS					
DRAINAGE AREA ID	RUNOFF COEFF. C	TIME OF CONC. T _c (MIN.)	RAINFALL INTENSITY I100 (IN/HR)	DRAINAGE AREA (ACRES)	PEAK RUNOFF Q100 (CFS)
A-1	0.9	10	9.8	0.96	8.4
A-2	0.9	10	9.8	0.26	2.3
A-3	0.9	10	9.8	0.50	4.4
A-4	0.9	10	9.8	0.58	5.1
A-5	0.9	10	9.8	0.81	7.2
A-6	0.9	10	9.8	1.64	14.5
B-1	0.9	10	9.8	1.06	9.3
B-2	0.9	10	9.8	0.83	7.4
C-1	0.9	10	9.8	0.19	1.7
C-2	0.9	10	9.8	0.69	6.1
C-3	0.9	10	9.8	0.40	3.5
C-4	0.9	10	9.8	1.16	10.2
D-1	0.9	10	9.8	0.77	6.8
D-2	0.9	10	9.8	0.98	8.6
D-3	0.9	10	9.8	0.94	8.3
E-1	0.9	10	9.8	0.61	5.4
E-2	0.9	10	9.8	0.14	1.3
E-3	0.9	10	9.8	0.08	0.7
F-1	0.9	10	9.8	0.27	2.4
F-2	0.9	10	9.8	0.06	0.5
F-3	0.9	10	9.8	0.07	0.6
F-4	0.9	10	9.8	0.07	0.6
F-5	0.9	10	9.8	0.07	0.6
F-6	0.9	10	9.8	0.07	0.6
F-7	0.9	10	9.8	0.06	0.5
G-1	0.9	10	9.8	1.33	11.8
G-2	0.9	10	9.8	0.80	7.0
H-1	0.9	10	9.8	0.34	3.0
H-2	0.9	10	9.8	1.32	11.7
H-3	0.35	10	9.8	1.03	3.5
H-4	0.9	10	9.8	0.44	3.8
P-1	0.35	10	9.8	2.28	7.8
R-1	0.9	10	9.8	0.19	1.7
R-2	0.9	10	9.8	0.19	1.6
R-3	0.9	10	9.8	0.16	1.4
R-4	0.9	10	9.8	0.21	1.8
R-5	0.9	10	9.8	0.18	1.6
R-6	0.9	10	9.8	0.18	1.6
R-7	0.9	10	9.8	0.21	1.8
R-8	0.9	10	9.8	0.12	1.1
R-9	0.9	10	9.8	0.16	1.4
R-10	0.9	10	9.8	0.19	1.7
R-11	0.9	10	9.8	0.19	1.6
R-12	0.9	10	9.8	0.16	1.4
R-13	0.9	10	9.8	0.21	1.8
R-14	0.9	10	9.8	0.18	1.6
R-15	0.9	10	9.8	0.18	1.6
R-16	0.9	10	9.8	0.20	1.8
R-17	0.9	10	9.8	0.37	3.2
R-18	0.9	10	9.8	0.09	0.8
R-19	0.9	10	9.8	0.06	0.5
R-20	0.9	10	9.8	0.03	0.3
R-21	0.9	10	9.8	0.05	0.4
R-22	0.9	10	9.8	0.03	0.3

03/06/09

RECORD DRAWING
 THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

App.	
Revisions	
No.	Date

Scale: AS SHOWN

Designed by: KFD
 Drawn by: KFD
 Checked by: DKK
 Date: August 14, 2008
 Project No.: 06000025

STORM SEWER CALCULATIONS

SHEET C-7 OF 21

COSTCO WHOLESALE
 ROCKWALL, TEXAS

Kimley-Horn and Associates, Inc.
 5750 Genesis Court, Suite 200
 Frisco, Texas 75034
 Tel. No. (972) 335-3500
 Fax No. (972) 335-3779

STATE OF TEXAS
 DAVID K. KOCHALKA
 87781
 LICENSED PROFESSIONAL ENGINEER
 David Kochalka 6-14-08

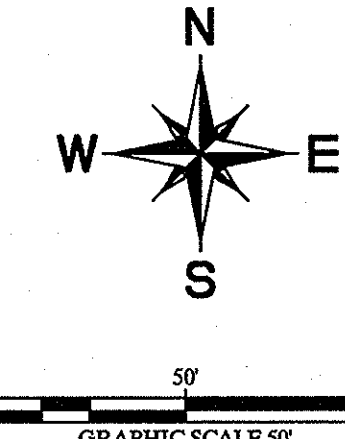
THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

EXISTING DRAINAGE EASEMENT FOR DETENTION AREA CABINET G, SLIDE 153-155

2-4" SCHEDULE 40 PVC CONDUIT WITH PULL-STRING FOR ELECTRIC SERVICE

INSTALL 4'x8'x4" PULL BOX AS SPECIFIED BY ELECTRIC COMPANY

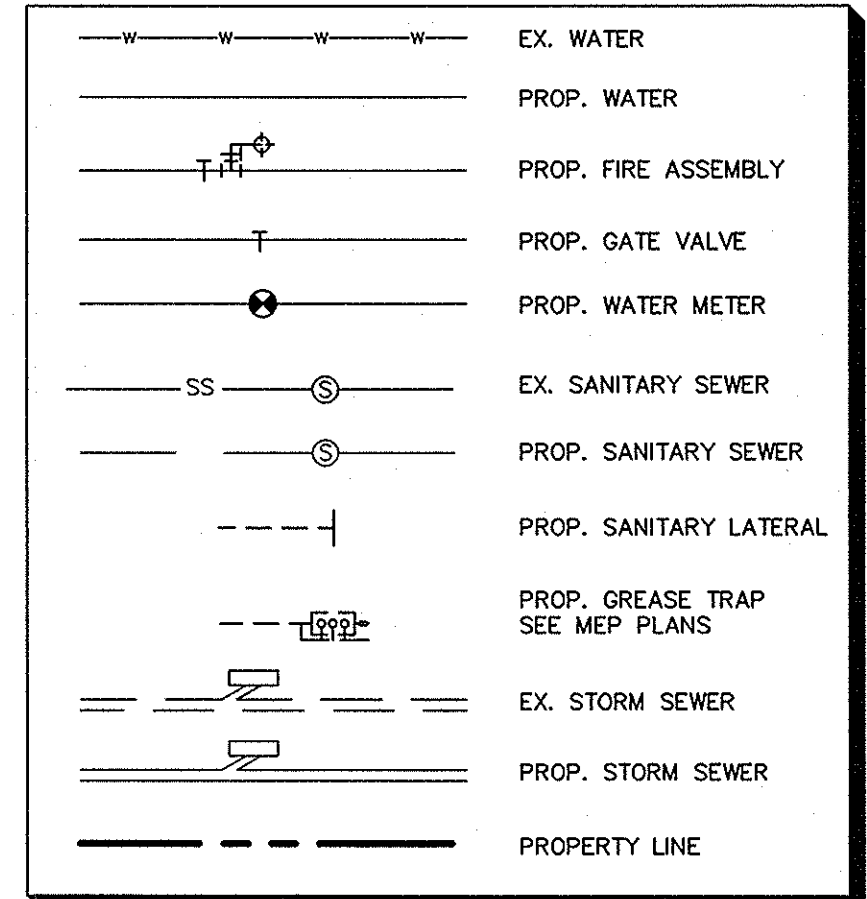
COSTCO
WHOLESALE
148K USA
FF = 541.50



FUEL CENTER CONDUIT SCHEDULE

QTY.	SIZE	TYPE
1	1"	TRIP LINE
1	1"	VEEDER ROOT ALARM
1	2"	PHONE
1	2"	FIBER OPTIC

LEGEND



CONTACT

ELECTRIC SERVICE:
ONCOR ELECTRIC DELIVERY COMPANY
CONTACT: RUSSELL LEWIS
PHONE: (972) 569-6310
EMAIL: RUSSELLLEWIS@ONCOR.COM

NATURAL GAS SERVICE:
ATMOS ENERGY CORPORATION
CONTACT: DINAH WOOD
PHONE: (972) 485-6277
EMAIL: DINAH.WOOD@ATMOSENERGY.COM

TELECOMMUNICATIONS:
AT&T
CONTACT: KALYN HORN
PHONE: (903) 457-2200
EMAIL: KH5596@ATT.COM

NOTES

- SEE MEP PLANS FOR ALL UTILITY CONNECTIONS INTO BUILDING.
- UNLESS OTHERWISE NOTED, ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE SPECIFICATIONS OF THE CITY OF ROCKWALL, WITH AMENDMENTS, THE NORTH CENTRAL COUNCIL OF GOVERNMENTS "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" PARTS II AND III, LATEST EDITION.
- REFER TO FRANCHISE UTILITY SPECIFICATIONS FOR INFORMATION ON MATERIALS, INSTALLATION, AND VERTICAL AND HORIZONTAL CLEARANCE.
- CONTRACTOR TO COORDINATE WITH FRANCHISE UTILITY COMPANIES FOR FINAL LOCATIONS OF CONDUIT, CONNECTIONS, ETC. NOTIFY ENGINEER IF CONFLICTS EXIST.

NOT REVIEWED/ APPROVED BY CITY OF ROCKWALL

03/06/09
RECORD DRAWING

THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

BM: SQUARE CUT W/ "X" SET ON TOP OF CONCRETE HEADWALL 15' ± NORTH OF THE NORTH EDGE OF PAVEMENT OF FM 276, 375' WEST OF SOUTHWEST PROPERTY CORNER ELEV. = 552.00
BM: CITY OF ROCKWALL CONTROL MONUMENT #2 ELEV. = 609.39
BM: 60d SET ON TOP OF CONCRETE HEADWALL 400' NORTH HWY 30 ELEV. = 552.00

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

EXTEND TELEPHONE CONDUIT FROM STREET RIGHT OF WAY. INSTALL A 36" RADIUS, 90° VERTICAL PVC BEND AND CAP CONDUIT 1' ABOVE GRADE.

POWER POLE TO BE REMOVED AND RELOCATED BY ONCOR ELECTRIC DELIVERY CO.

PROPOSED GAS CONNECTION TO BE INSTALLED BY ATMOS ENERGY. COORDINATE SEQUENCE OF ALL GAS SERVICE WITH ATMOS ENERGY.

CONNECTION TO EXISTING POWER POLE IN RIGHT OF WAY TO BE COORDINATED WITH ONCOR ELECTRIC DELIVERY CO.

INSTALL 1172 LF 2-4" SCHEDULE 40 PVC CONDUIT WITH PULL-STRING FOR ELECTRIC SERVICE.

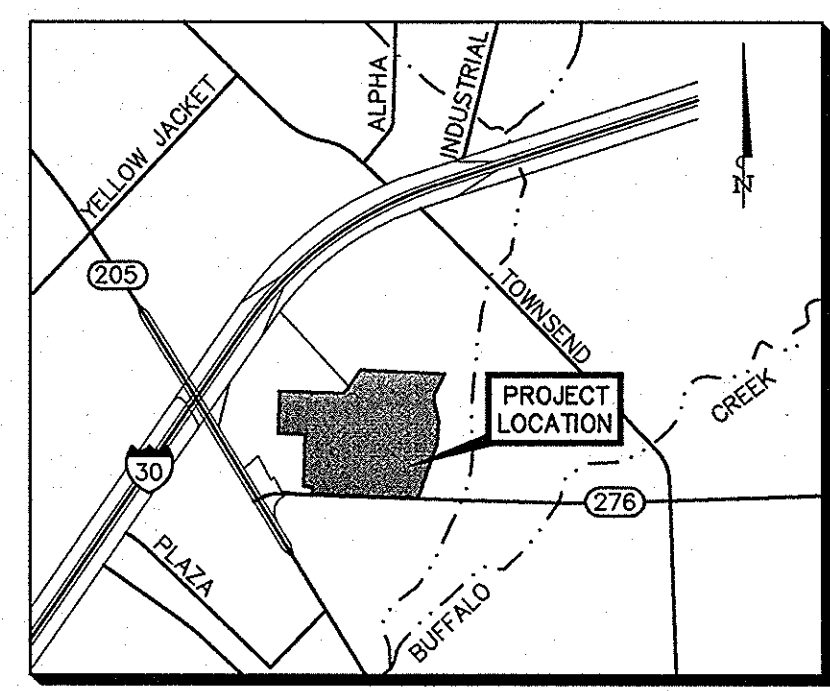
INSTALL 4'x8'x4" PULL BOX AS SPECIFIED BY ELECTRIC COMPANY

POLYGAS LINE AND ELECTRIC CONDUIT TO BE INSTALLED IN SAME TRENCH UNLESS OTHERWISE NOTED. INSTALL 1126 LF 1-2" POLYGAS LINE AND 698 LF 2-4" SCHEDULE 40 PVC CONDUIT WITH PULL-STRING FOR ELECTRIC SERVICE. REFER TO FRANCHISE UTILITY SPECIFICATIONS FOR DETAILS ON DEPTH AND VERTICAL CLEARANCE.

XREF: 01/01/09, XREF: 02/01/09, XREF: 03/01/09, XREF: 04/01/09, XREF: 05/01/09, XREF: 06/01/09, XREF: 07/01/09, XREF: 08/01/09, XREF: 09/01/09, XREF: 10/01/09, XREF: 11/01/09, XREF: 12/01/09, XREF: 01/02/09, XREF: 02/02/09, XREF: 03/02/09, XREF: 04/02/09, XREF: 05/02/09, XREF: 06/02/09, XREF: 07/02/09, XREF: 08/02/09, XREF: 09/02/09, XREF: 10/02/09, XREF: 11/02/09, XREF: 12/02/09, XREF: 01/03/09, XREF: 02/03/09, XREF: 03/03/09, XREF: 04/03/09, XREF: 05/03/09, XREF: 06/03/09, XREF: 07/03/09, XREF: 08/03/09, XREF: 09/03/09, XREF: 10/03/09, XREF: 11/03/09, XREF: 12/03/09, XREF: 01/04/09, XREF: 02/04/09, XREF: 03/04/09, XREF: 04/04/09, XREF: 05/04/09, XREF: 06/04/09, XREF: 07/04/09, XREF: 08/04/09, XREF: 09/04/09, XREF: 10/04/09, XREF: 11/04/09, XREF: 12/04/09, XREF: 01/05/09, XREF: 02/05/09, XREF: 03/05/09, XREF: 04/05/09, XREF: 05/05/09, XREF: 06/05/09, XREF: 07/05/09, XREF: 08/05/09, XREF: 09/05/09, XREF: 10/05/09, XREF: 11/05/09, XREF: 12/05/09, XREF: 01/06/09, XREF: 02/06/09, XREF: 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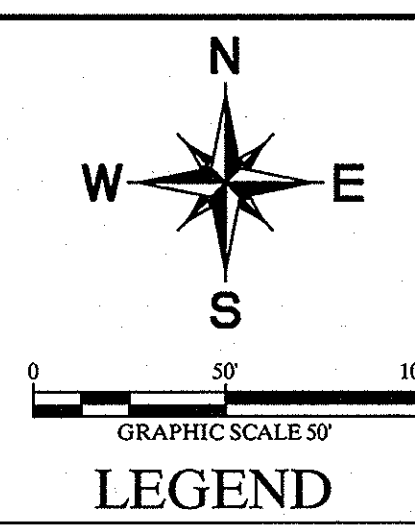
SITE MAP-GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILS SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.



VICINITY MAP
NOT TO SCALE

EXISTING DRAINAGE EASEMENT FOR DETENTION AREA CABINET G, SLIDE 153-155



LEGEND

- X REINFORCED SILT FENCE
- SF INLET PROTECTION
- IP CONSTRUCTION ENTRANCE
- CE ROCK RIPRAP
- RR HYDROMULCH
- HM PROPOSED CONTOURS
- 540— EXISTING CONTOURS

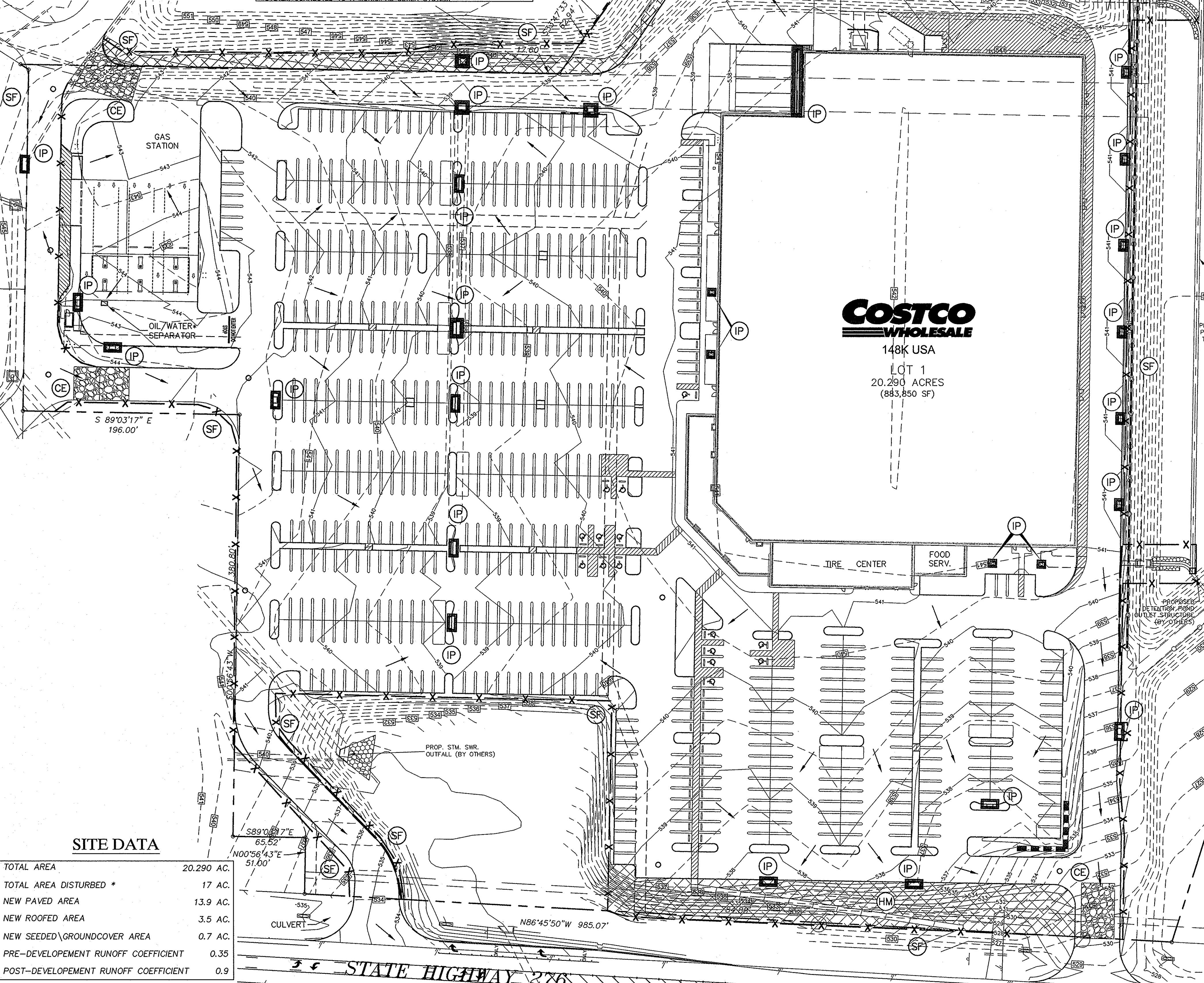
NOTE

NO EROSION CONTROL DEVICES SHALL BE PLACED IN TxDOT ROW. IF NECESSARY AT TIME OF CONSTRUCTION, CONTACT ENGINEER IMMEDIATELY AND REFER TO TxDOT DETAILS FOR EROSION CONTROL.

03/06/09
RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

EROSION CONTROL SCHEDULE AND PHASING

- THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:
- PHASE 1 - GRADING
 - A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON THE GRADING AND EROSION CONTROL PLAN NOTES AND DETAIL SHEET.
 - B. BEGIN CLEARING AND GRADING OF SITE.
 - C. SEED AND REVEGETATE SLOPES WHERE NECESSARY.
 - PHASE 2 - UTILITIES
 - A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
 - B. INSTALL STORM DRAINS AND INLET PROTECTION AS SPECIFIED ON PLAN SHEETS.
 - PHASE 3 - PAVING
 - A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
 - B. STABILIZE SUBGRADE.
 - C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
 - PHASE 4 - LANDSCAPING AND DEVELOPMENT
 - A. REVEGETATE LOT AND PARKWAYS
 - B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS
 - C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.



COSTCO WHOLESALE
148K USA
LOT 1
20.290 ACRES
(883,850 SF)

1. THE OWNER AND CONTRACTOR SHALL EACH SUBMIT A CONSTRUCTION SITE NOTICE (TXR 150000 FORM) TO THE CITY OF ROCKWALL AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. OWNER AND CONTRACTOR ARE RESPONSIBLE FOR RETAINING PROOF THAT THE FORM WAS SUBMITTED TO THE CITY (PROOF MUST CONSIST OF CERTIFIED MAIL WITH RETURN RECEIPT).
2. TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) CONSTRUCTION GENERAL PERMIT TXR150000 AND ALL APPLICABLE SPECIFICATIONS ARE HEREBY INCORPORATED INTO THIS SWPPP. CONTRACTOR SHALL OBTAIN AND KEEP A CURRENT COPY OF THESE DOCUMENTS AT THE CONSTRUCTION SITE.
3. ALL EROSION AND SEDIMENTATION CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE.
4. ALL CONTROL MEASURES MUST BE SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES.
5. OFF-SITE ACCUMULATIONS OF SEDIMENT ESCAPING PROJECT SITE MUST BE REMOVED AT A FREQUENCY NECESSARY TO MINIMIZE SITE IMPACTS. FOR EXAMPLE, SEDIMENTATION WITHIN STREETS ADJACENT TO THE PROJECT SITE MUST BE REMOVED PRIOR TO RAINFALL EVENTS. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR. IN ANY EVENT SILT SHALL ALWAYS BE REMOVED SUCH THAT PONDING IN A STREET IS PREVENTED.
6. CONTRACTOR MUST REMOVE SEDIMENT FROM ALL APPLICABLE CONTROLS WHEN DESIGN SILT STORAGE CAPACITY HAS BEEN REDUCED BY 50%.
7. CONTRACTOR SHALL ENSURE THAT ALL LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS ARE PREVENTED FROM BECOMING POLLUTANT SOURCES.
8. OFF-SITE MATERIAL STORAGE AREAS USED SOLELY FOR THIS PROJECT, INCLUDING DIRT STOCKPILES AND BORROW AREAS (AS APPLICABLE), MUST BE PREVENTED FROM BECOMING POLLUTANT SOURCES BY INSTALLATION OF BMP'S.
9. CONTRACTOR SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE.
10. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE NPDES/TPDES PERMIT.
11. CONTRACTOR MUST MAINTAIN RECORDS OF DATES IN THE SWPPP OF WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES EITHER TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED.
12. CONTRACTOR SHALL ENSURE THAT SWPPP IS CONSISTENT WITH SEDIMENT AND EROSION SITE PLANS, STORM WATER PERMITS, AND STORM WATER MANAGEMENT PLANS APPROVED BY STATE, TRIBAL, OR LOCAL OFFICIALS. UPDATES TO SWPPP ARE REQUIRED UPON WRITTEN NOTICE TO PERMITTEE OF CHANGES APPLICABLE TO STORM WATER PERMITS, SEDIMENT AND EROSION CONTROL PLANS, OR STORM WATER MANAGEMENT PLANS BY SUCH OFFICIALS.
13. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND ANY OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SWPPP MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. WHEN INSPECTIONS IDENTIFY CONTROLS OPERATING INEFFECTIVELY, THE CONTROLS SHALL BE MAINTAINED PRIOR TO THE NEXT RAINFALL EVENT OR AS NECESSARY TO MAINTAIN EFFECTIVENESS OF THE CONTROL, OR AS SOON AS PRACTICABLE.
14. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER ONCE EVERY 7 DAYS ON THE SAME DAY OF THE WEEK EACH WEEK, REGARDLESS IF THERE HAS BEEN A RAINFALL EVENT. THE SWP3 MUST REFLECT THE SCHEDULE IN USE.
15. CONTRACTOR SHALL INSPECT STABILIZED AREAS AND AREAS WHERE RUNOFF IS UNLIKELY DUE TO FROZEN OR ARID WEATHER CONDITIONS AT LEAST ONCE PER MONTH.
16. CONTRACTOR SHALL INSPECT ACCESSIBLE DISCHARGE LOCATIONS (OR NEARBY DOWNSTREAM LOCATIONS IF DISCHARGE POINT IS NOT ACCESSIBLE) IN ORDER TO ASCERTAIN WHETHER OR NOT EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
17. STRUCTURAL BMP'S SHOULD NOT, TO THE DEGREE ATTAINABLE, BE PLACED WITHIN FLOODPLAINS.
18. BASED ON INSPECTION RESULTS, REVISIONS TO SWPPP MUST BE MADE WITHIN 7 CALENDAR DAYS OF THE INSPECTION. NEW OR MODIFIED CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE NEXT RAINFALL EVENT, OR AS SOON AS PRACTICABLE.
19. REPORTS SUMMARIZING THE SCOPE OF ALL INSPECTIONS, INCLUDING NAME AND QUALIFICATIONS OF INSPECTOR, DATE OF INSPECTION, AND MAJOR OBSERVATIONS RELATING TO IMPLEMENTATION OF THE SWPPP (INCLUDING LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS, LOCATION OF CONTROLS THAT NEED TO BE MAINTAINED, LOCATIONS WHERE CONTROLS ARE INADEQUATE OR ARE OPERATING IMPROPERLY, AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED) MUST BE SIGNED BY THE INSPECTOR PER 30 TEXAS ADMINISTRATIVE CODE (TAC) SECTION 305.122, AND RETAINED WITHIN THE SWPPP FOR AT LEAST 3 YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. REPORTS THAT DO NOT IDENTIFY INCIDENTS OF NON-COMPLIANCE SHALL CONTAIN A CERTIFICATION STATING THAT THE SITE IS IN COMPLIANCE WITH THE SWPPP AND THE GENERAL PERMIT. THE CONTRACTOR SHALL CERTIFY AS FOLLOWS:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
20. CONTRACTOR SHALL IDENTIFY ALL SOURCES OF ALLOWABLE NON-STORM WATER THAT WILL BE COMBINED WITH STORM WATER AT THE SITE (EXCEPT FIRE-FIGHTING ACTIVITIES) AND ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR NON-STORM WATER COMPONENT(S) OF DISCHARGE.
21. CONTRACTOR SHALL ENSURE THAT THE INDIVIDUAL SIGNING THE SWPPP MAKES THE CERTIFICATION UNDER PART VI.G.2.d OF THE GENERAL PERMIT. THIS CERTIFICATION MUST APPEAR WITHIN THE SWPPP.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

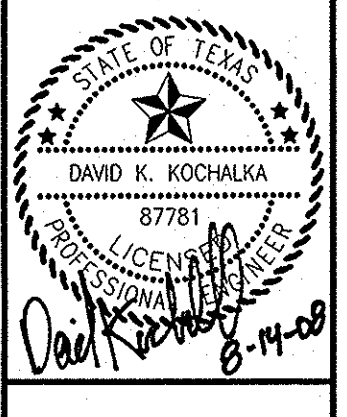
SITE DATA

TOTAL AREA	20.290 AC.
TOTAL AREA DISTURBED *	17 AC.
NEW PAVED AREA	13.9 AC.
NEW ROOFED AREA	3.5 AC.
NEW SEEDDED/GROUND COVER AREA	0.7 AC.
PRE-DEVELOPMENT RUNOFF COEFFICIENT	0.35
POST-DEVELOPMENT RUNOFF COEFFICIENT	0.9

* DOES NOT INCLUDE ANY OFF-SITE DISPOSAL OR BORROW AREAS - CONTRACTOR TO UPDATE AS NECESSARY DURING CONSTRUCTION.

No.	Date	Revisions

Kimley-Horn and Associates, Inc.
Tel. No. (972) 338-3580
Fax No. (972) 338-3779
5750 Genesis Court, Suite 200
Frisco, Texas 75034

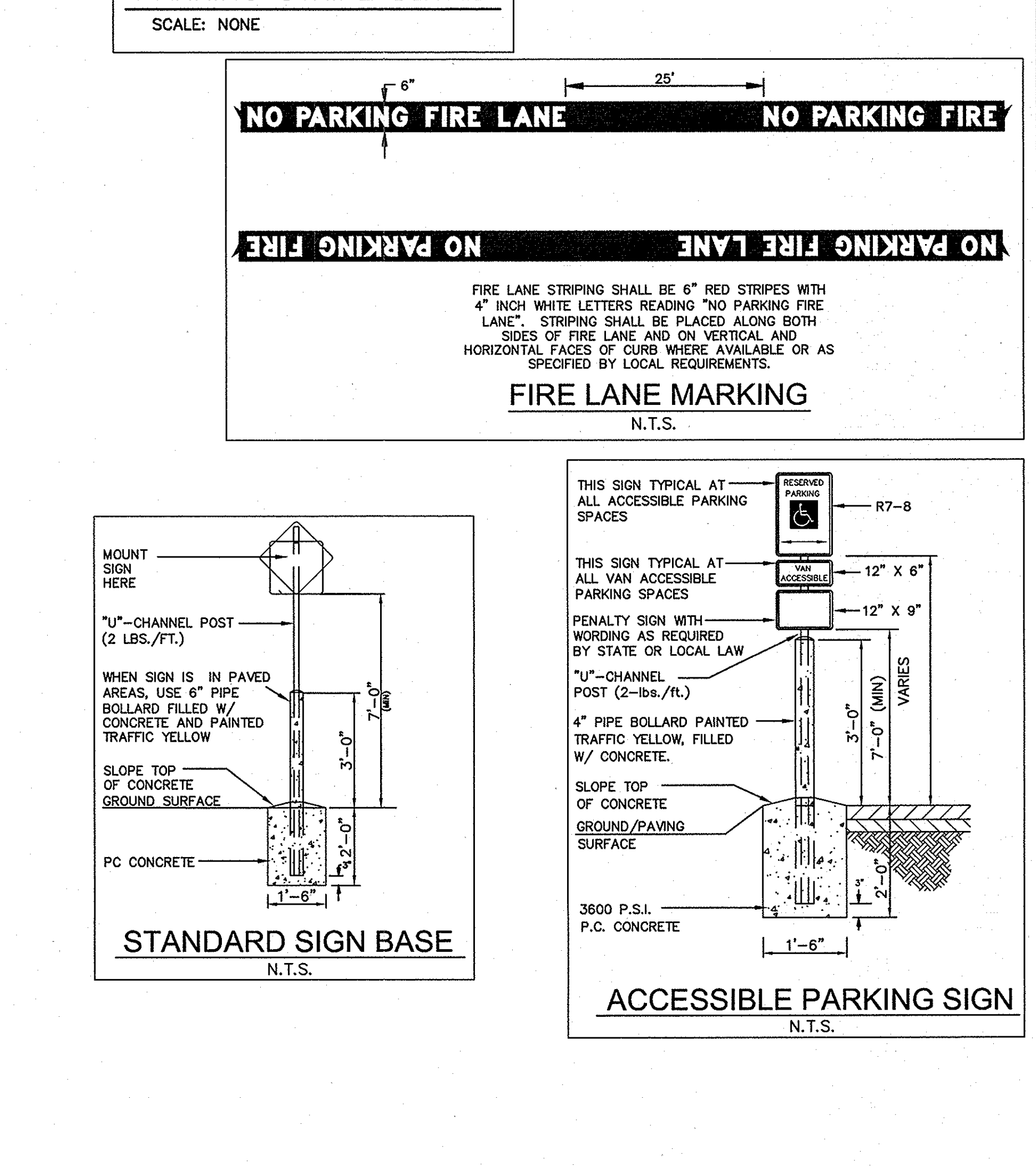
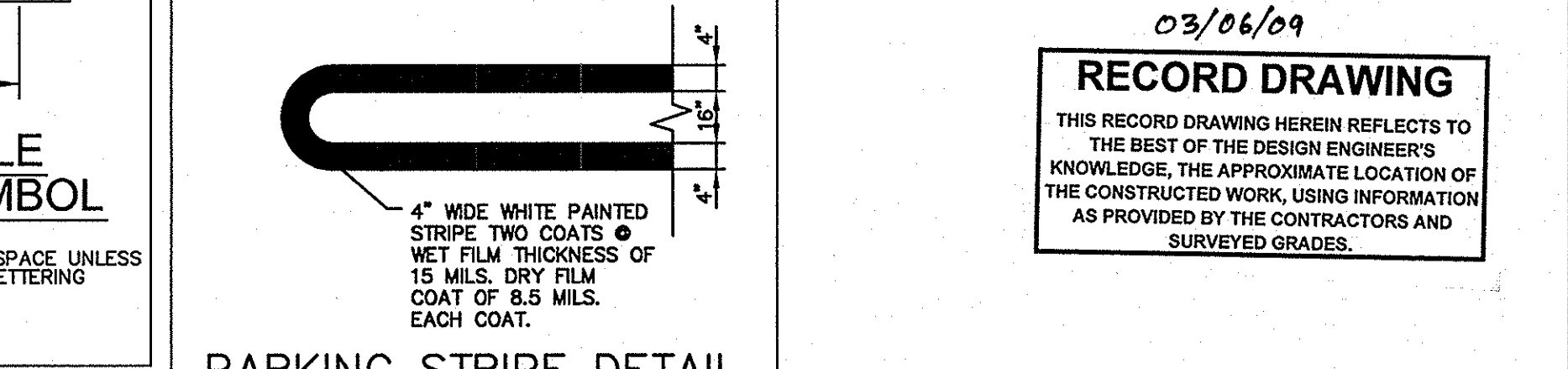
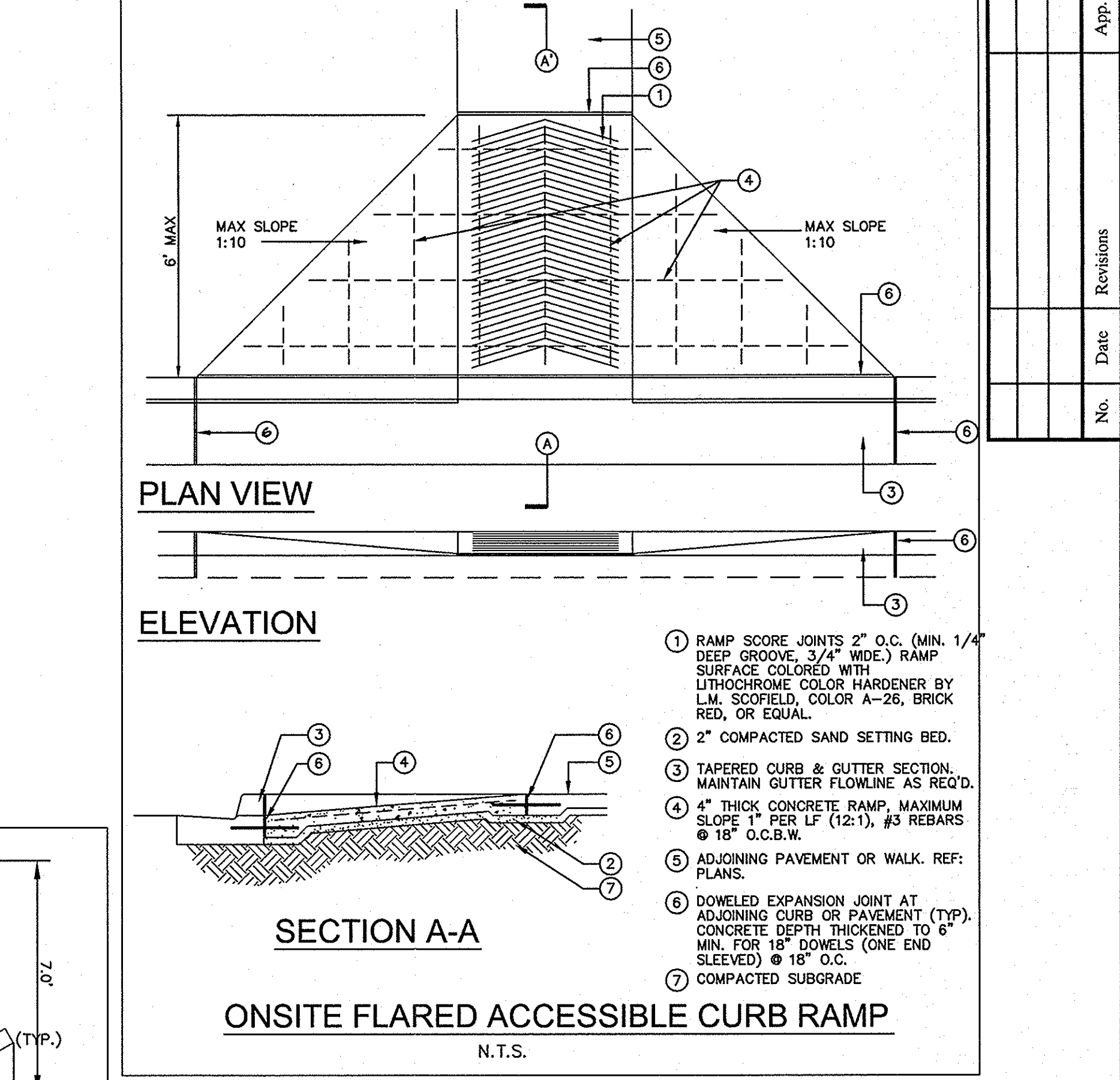
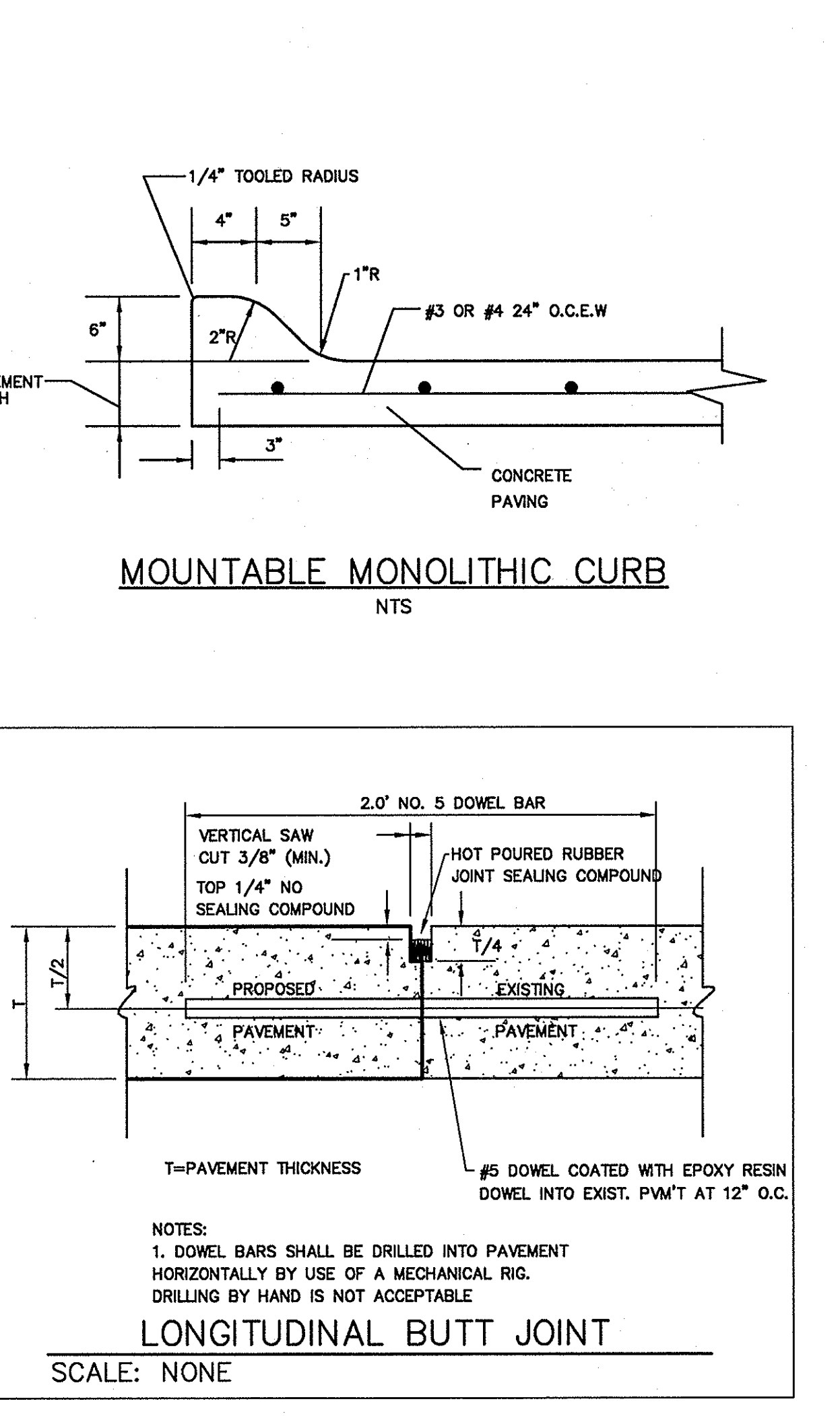
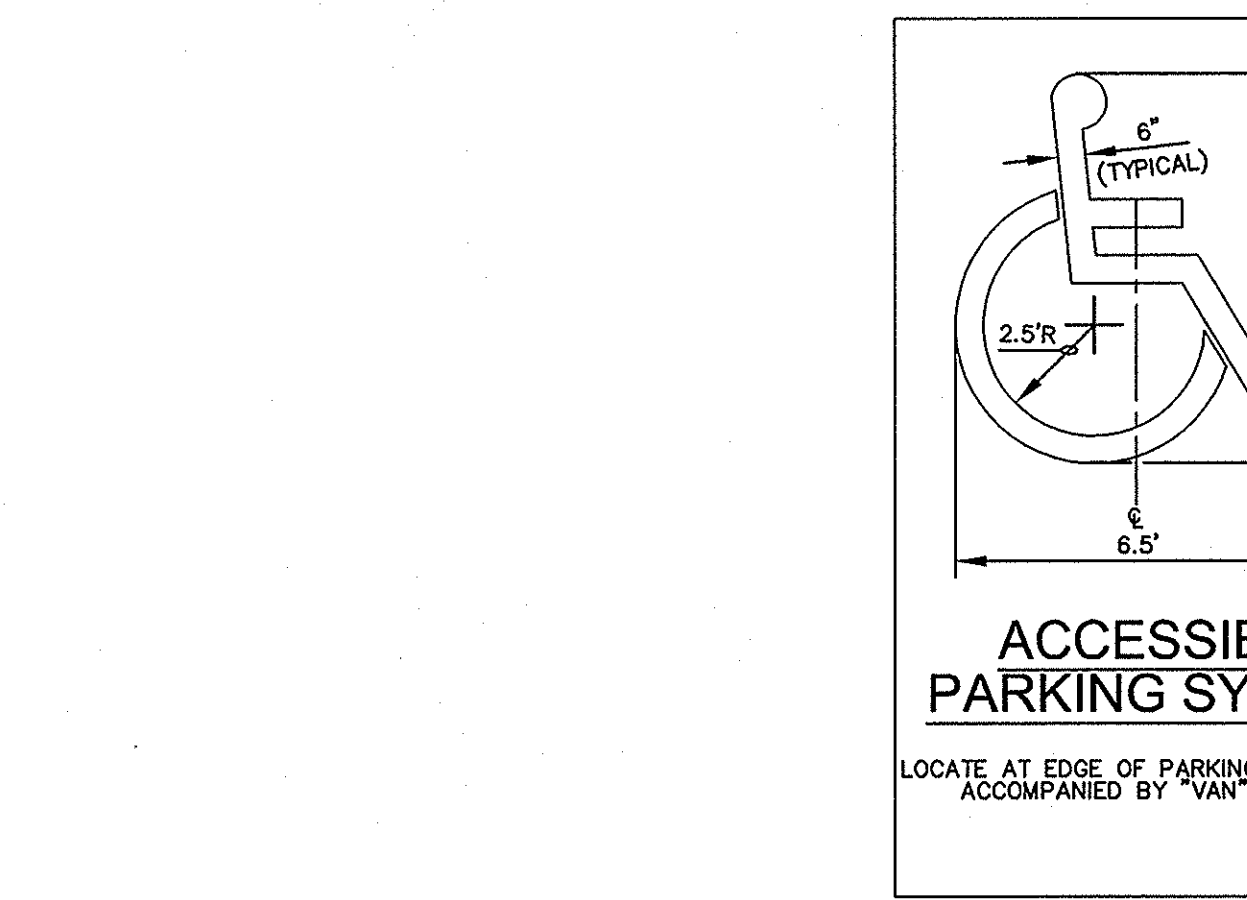
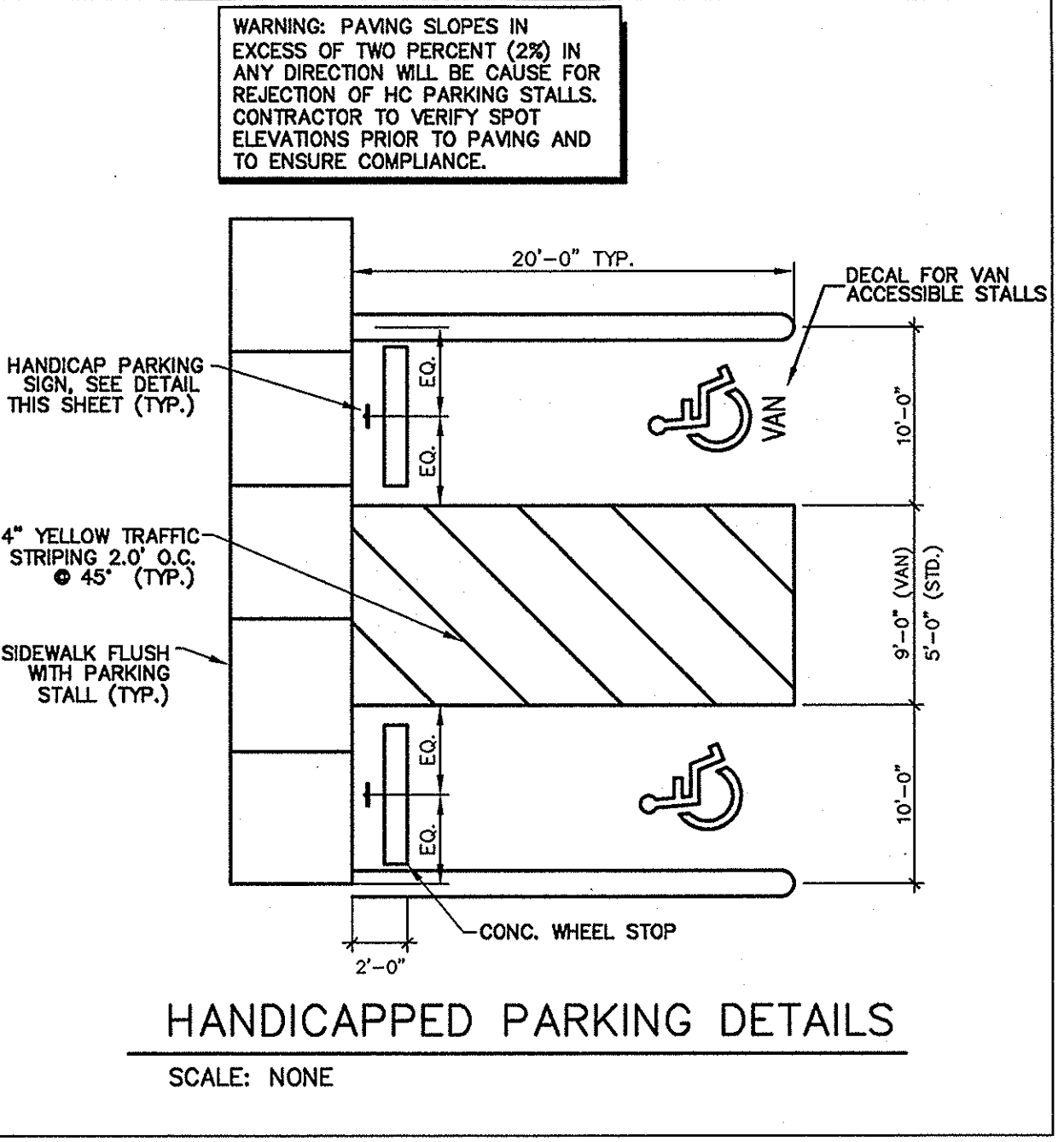
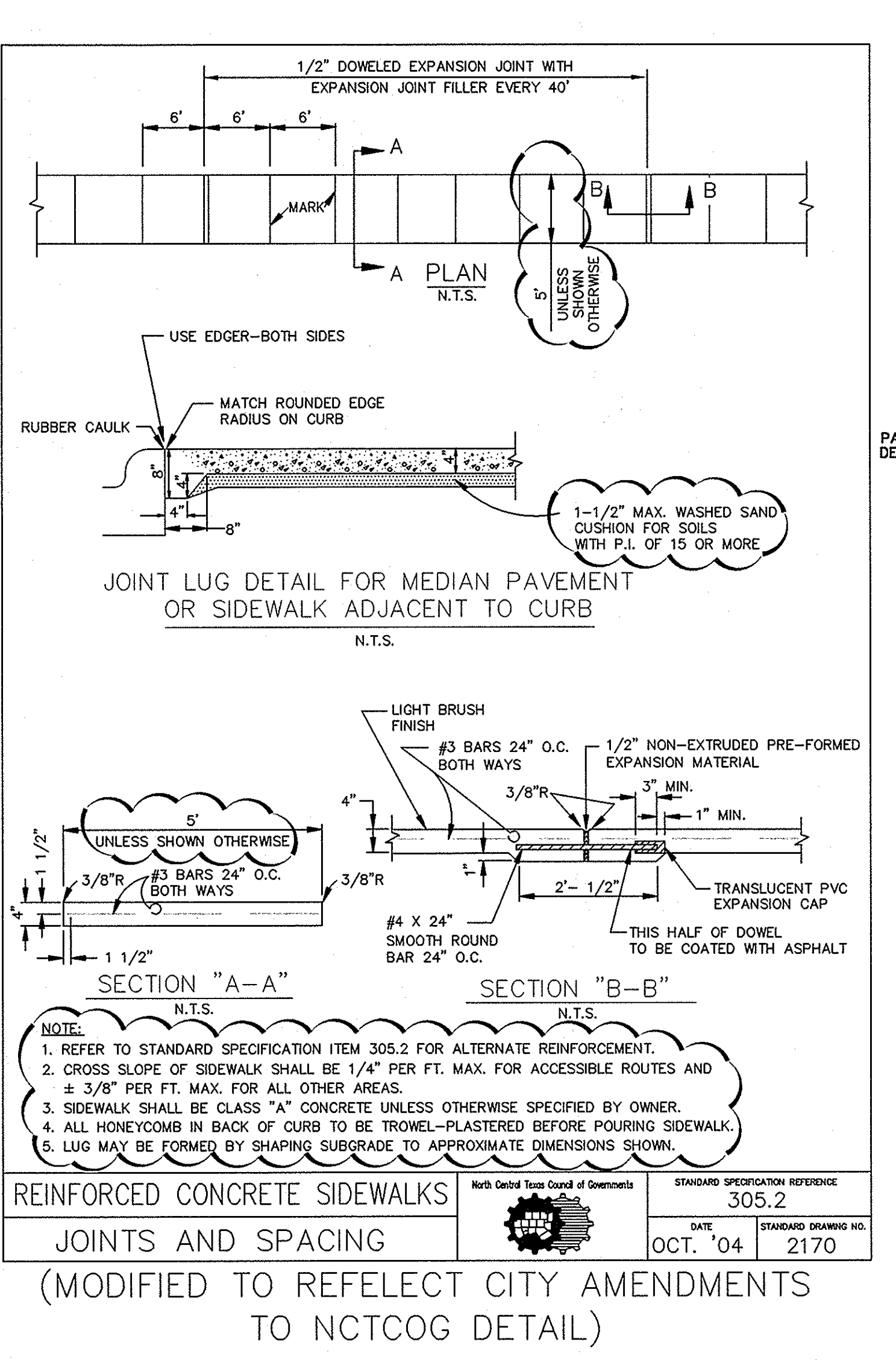
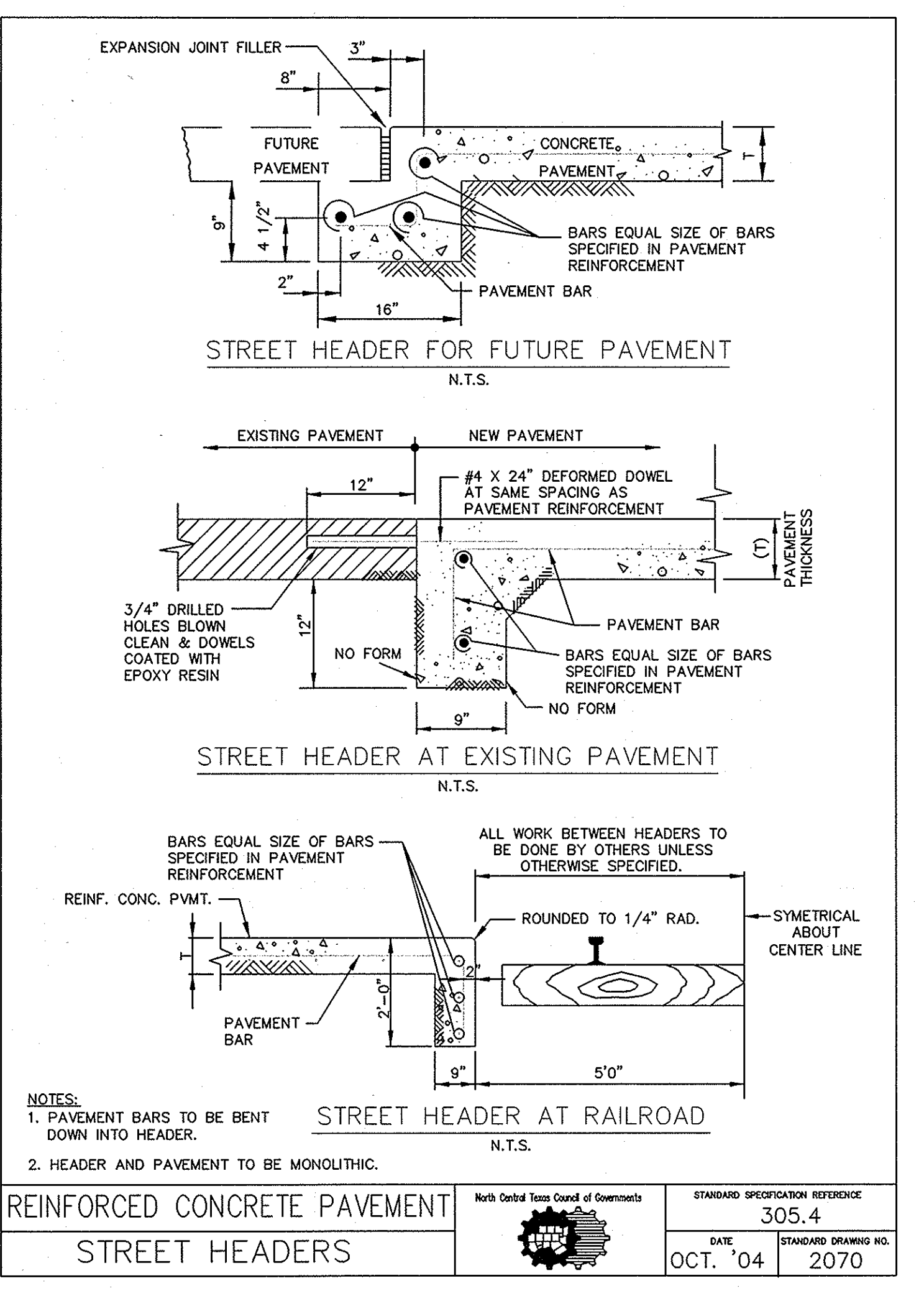
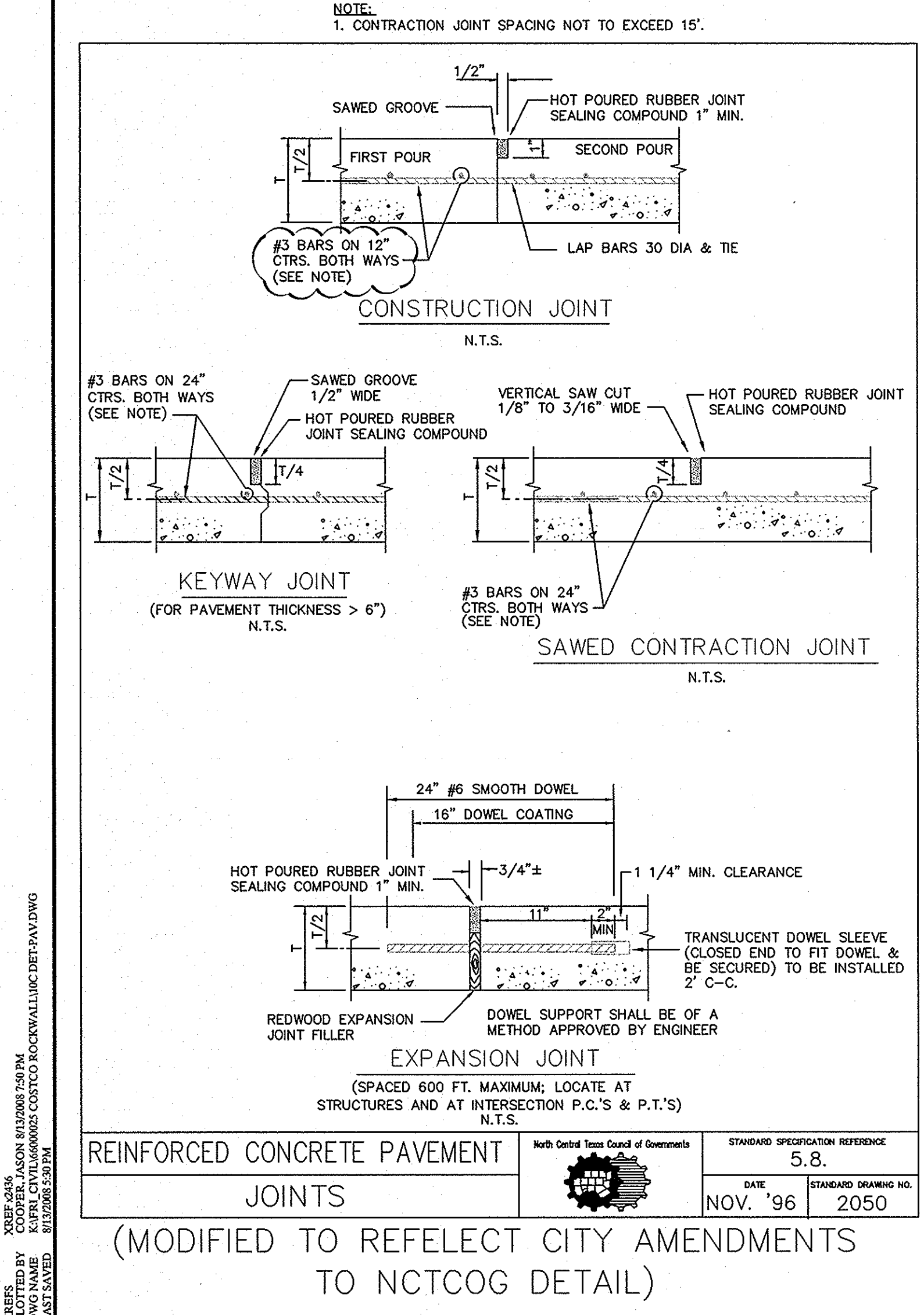
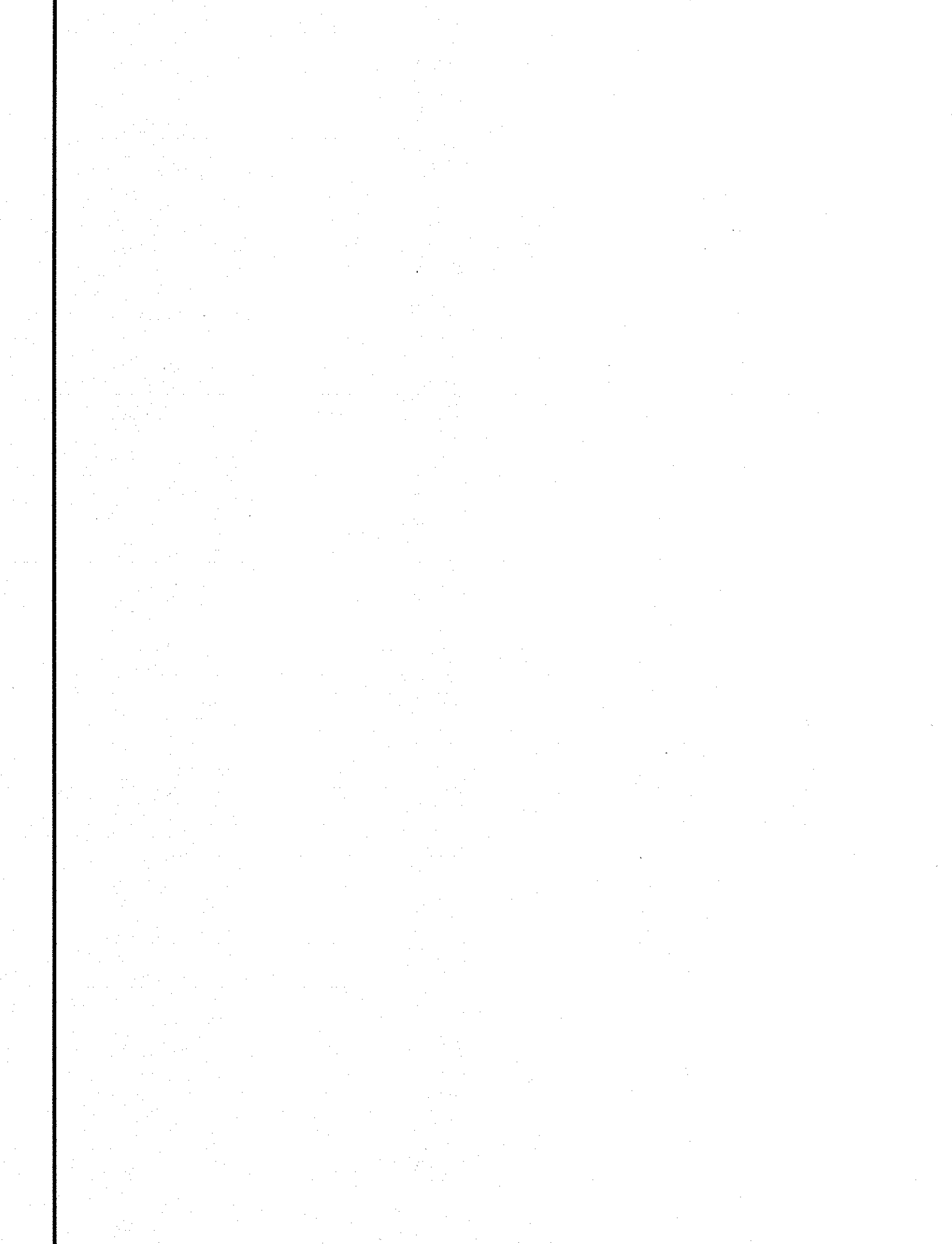


COSTCO WHOLESALE
ROCKWALL, TEXAS

EROSION CONTROL PLAN

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	August 14, 2008
Project No.:	666000025

IMAGES COURTESY OF
 COOPER, JASON 8/17/2008 2:50 PM
 DWG NAME: C:\P\1\14\000003\COSTCO ROCKWALL\DCR\PAVING
 DATE PLOTTED: 8/17/2008 2:50 PM
 PLOTTED BY: JASON COOPER



Kimley-Horn and Associates, Inc.
 Tel. No. (972) 335-3660
 Fax No. (972) 335-3776
 5750 Genesis Court, Suite 200
 Frisco, Texas 75034

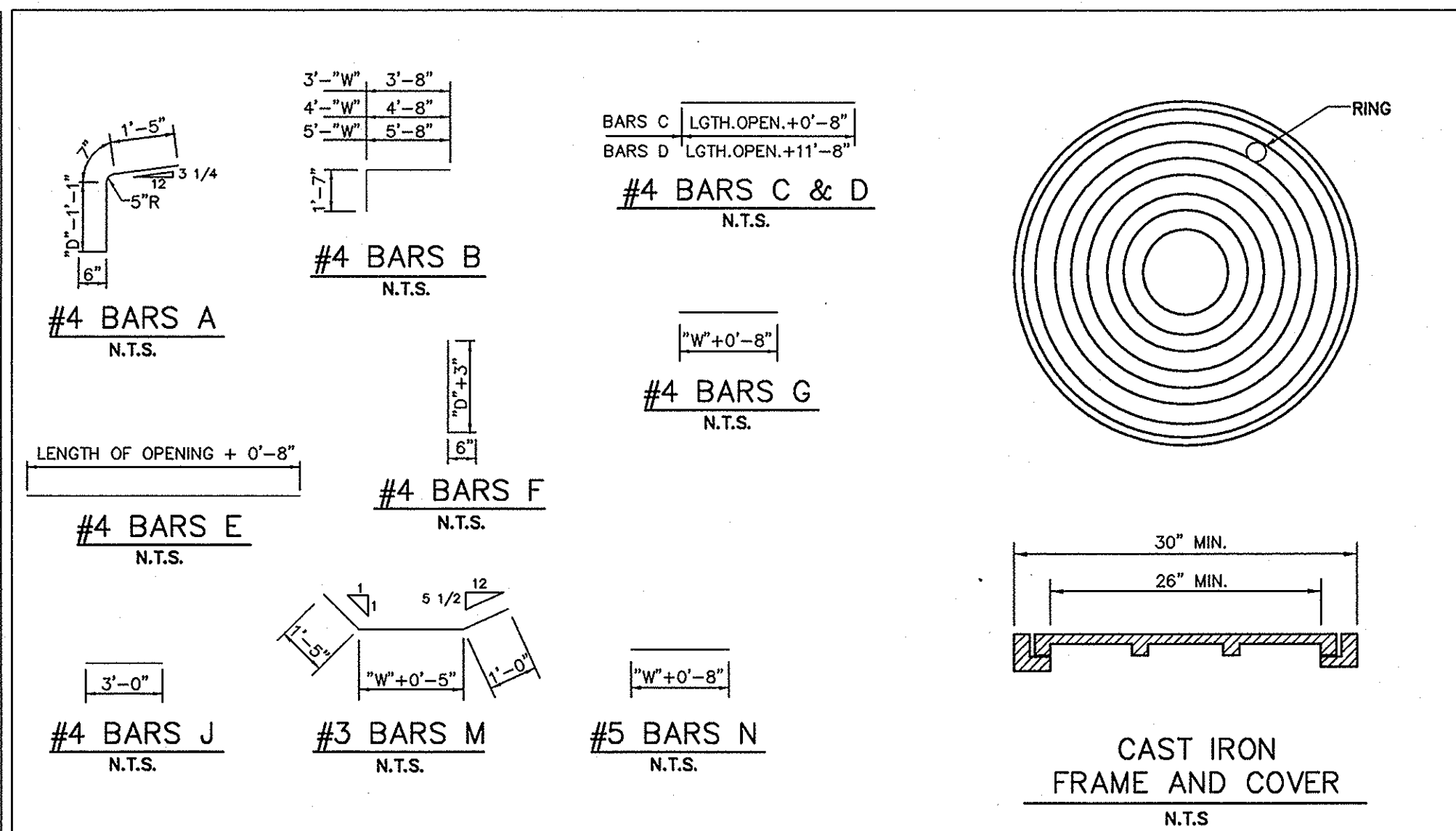
COSTCO WHOLESALE
 ROCKWALL, TEXAS

PAVING AND STRIPING DETAILS

SHEET C-18 OF 21

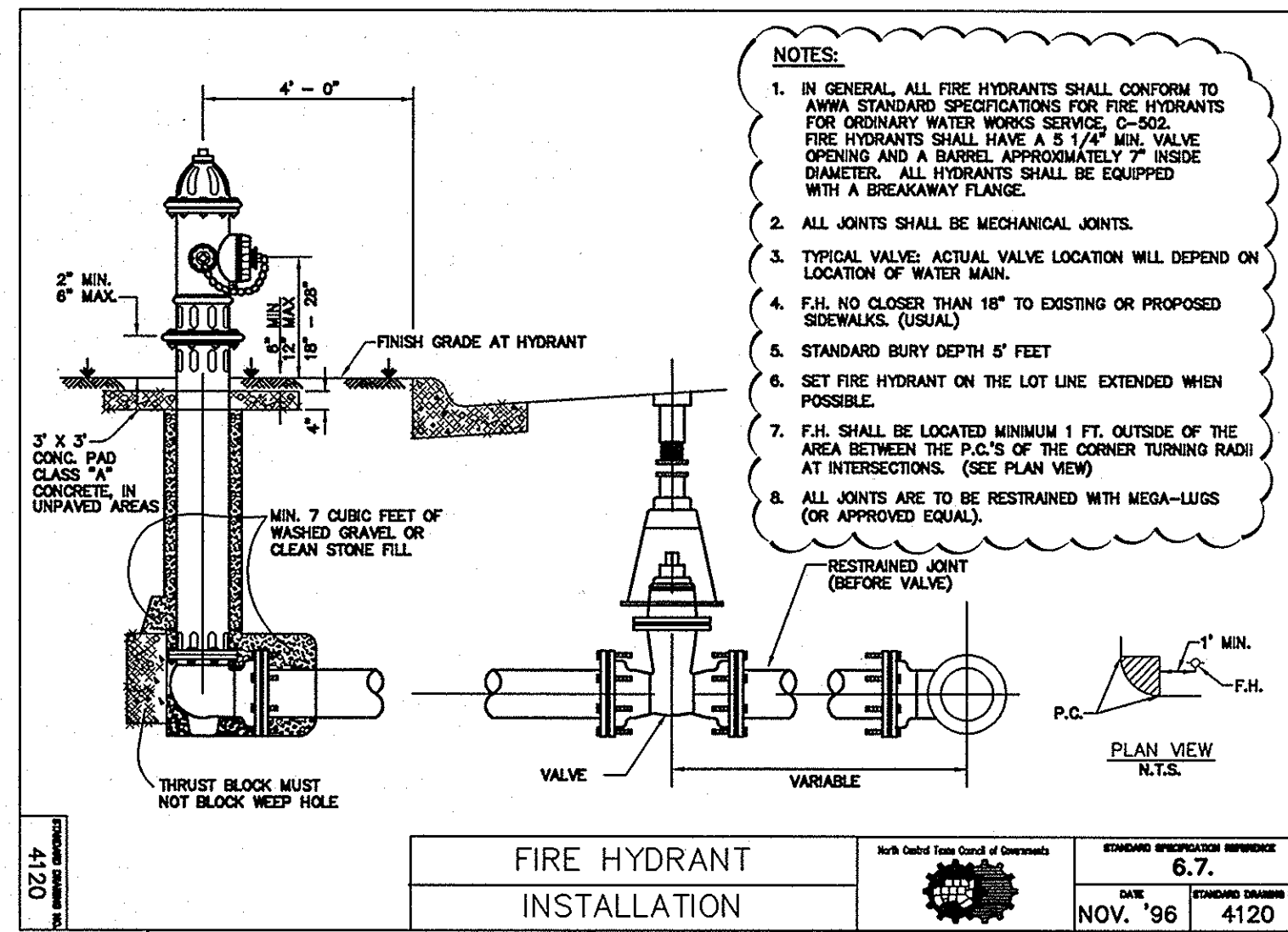
DEPTH "D"	SUMMARY OF QUANTITIES FOR CURB INLETS																						
	5'-0" OPENING			10'-0" OPENING			15'-0" OPENING			20'-0" OPENING													
	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"											
3'-6"	2.82	3.06	3.29	3.28	3.73	4.12	4.79	4.64	5.21	5.20	5.64	5.99	6.87	6.40	7.21	7.10	7.75	7.20	8.46	8.11	9.09	9.03	9.75
3'-0"	2.70	3.09	3.04	3.41	3.39	3.73	4.28	4.84	4.78	5.34	5.87	6.58	7.41	7.30	7.98	7.42	8.74	8.34	9.37	9.27	10.19	10.10	10.93
4'-0"	2.78	3.28	3.14	3.64	3.49	3.99	4.61	5.28	5.06	5.49	6.10	6.85	7.76	7.49	8.35	7.64	9.09	8.59	9.76	9.51	10.46	10.35	11.04
4'-6"	2.87	3.34	3.23	3.70	3.59	4.06	4.51	5.28	5.06	5.73	6.54	7.29	8.27	7.89	8.47	7.87	9.22	8.81	9.90	9.75	10.61	10.50	11.15
4'-9"	2.95	3.56	3.32	3.94	3.69	4.31	4.64	5.28	5.06	6.07	7.09	7.84	8.91	8.09	9.73	9.04	10.43	9.99	11.11	10.95	11.84	11.72	12.49
5'-0"	3.03	3.61	3.41	4.10	3.79	4.38	4.77	5.66	5.34	6.16	7.34	8.07	9.03	8.31	9.86	9.27	10.56	10.23	11.29	11.14	12.04	11.92	12.79
5'-3"	3.12	3.67	3.51	4.16	3.90	4.45	4.90	5.74	5.47	6.24	7.69	8.27	9.15	8.53	9.99	9.50	10.70	10.47	11.44	11.29	12.19	12.07	12.94
5'-6"	3.20	3.83	3.60	4.24	4.00	4.65	5.03	6.00	5.61	6.52	8.03	8.63	9.27	8.66	9.55	8.76	10.44	9.73	11.18	10.71	11.94	11.82	12.69
5'-9"	3.28	3.89	3.69	4.30	4.10	4.72	5.16	6.08	5.75	6.61	8.38	9.01	9.63	9.01	9.66	9.67	10.57	9.97	11.31	10.95	12.08	11.96	12.85
6'-0"	3.37	4.05	3.78	4.51	4.20	4.95	5.29	6.35	5.89	6.90	8.53	9.24	10.02	10.20	11.02	10.20	11.78	11.19	12.58	12.11	13.29	13.17	14.06
6'-3"	3.45	4.15	3.88	4.60	4.30	5.04	5.42	6.46	6.03	7.02	8.68	9.41	10.19	10.43	11.19	10.43	11.96	11.43	12.85	12.38	13.56	13.44	14.33
6'-6"	3.53	4.25	3.97	4.70	4.41	5.15	5.55	6.61	6.17	7.18	8.83	9.57	10.34	10.58	11.47	10.66	12.23	11.67	13.05	12.58	13.76	13.64	14.53
6'-9"	3.62	4.37	4.06	4.86	4.51	5.32	5.68	6.81	6.31	7.39	8.97	9.71	10.48	10.71	11.59	10.89	12.46	11.92	13.30	12.83	14.01	13.89	14.78
7'-0"	3.70	4.41	4.15	4.90	4.61	5.37	5.81	6.88	6.45	7.47	9.12	9.86	10.63	10.86	11.74	11.12	12.72	12.15	13.53	13.06	14.24	14.12	15.01
7'-3"	3.78	4.60	4.25	5.10	4.71	5.60	5.94	7.16	6.59	7.77	9.27	9.81	10.53	10.82	11.35	11.31	12.91	12.40	13.78	13.31	14.49	14.37	15.26
7'-6"	3.86	4.65	4.34	5.16	4.81	5.67	6.07	7.24	6.72	7.85	9.42	10.00	10.72	11.02	11.38	11.63	13.23	12.64	14.01	13.54	14.72	14.60	15.49
7'-9"	3.95	4.77	4.43	5.29	4.91	5.70	6.20	7.42	6.88	8.04	9.57	10.16	10.89	11.21	11.63	11.75	13.35	12.86	14.23	13.76	14.94	14.82	15.71
8'-0"	4.03	4.91	4.53	5.44	5.02	5.87	6.33	7.62	7.00	8.28	9.71	10.40	11.13	11.41	11.93	12.05	13.75	13.26	14.63	14.16	15.34	15.22	16.11
8'-3"	4.12	4.96	4.62	5.50	5.12	6.04	6.46	7.74	7.14	8.34	9.86	10.55	11.28	11.56	12.08	12.20	13.90	13.41	14.78	14.31	15.49	15.37	16.26
8'-6"	4.20	5.04	4.71	5.59	5.22	6.13	6.59	7.84	7.28	8.49	10.01	10.70	11.43	11.71	12.23	12.35	14.05	13.56	14.93	14.46	15.64	15.52	16.41
8'-9"	4.28	5.19	4.80	5.76	5.32	6.32	6.71	8.04	7.42	8.71	10.16	10.85	11.58	11.86	12.38	12.50	14.20	13.71	15.08	14.61	15.79	15.67	16.56
9'-0"	4.37	5.28	4.90	5.86	5.42	6.43	6.84	8.19	7.56	8.86	10.31	11.00	11.73	12.01	12.53	12.65	14.35	13.86	15.23	14.76	15.94	15.82	16.71
9'-3"	4.45	5.45	4.99	6.05	5.53	6.64	6.97	8.42	7.70	9.12	10.46	11.15	11.88	12.16	12.68	12.80	14.50	14.01	15.38	14.91	16.09	15.97	16.86
9'-6"	4.53	5.54	5.08	6.14	5.63	6.74	7.10	8.58	7.84	9.29	10.60	11.29	12.02	12.30	12.82	12.94	14.60	14.11	15.48	15.01	16.19	16.07	16.96
9'-9"	4.62	5.68	5.17	6.30	5.73	6.92	7.23	8.78	7.97	9.50	10.84	11.53	12.26	12.54	13.06	13.18	14.87	14.38	15.75	15.28	16.46	16.34	17.23
10'-0"	4.78	5.82	5.36	6.45	5.93	7.08	7.49	9.00	8.11	9.65	11.04	11.73	12.46	12.74	13.26	13.38	15.07	14.58	15.95	15.48	16.66	16.54	17.43

NOTE: FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

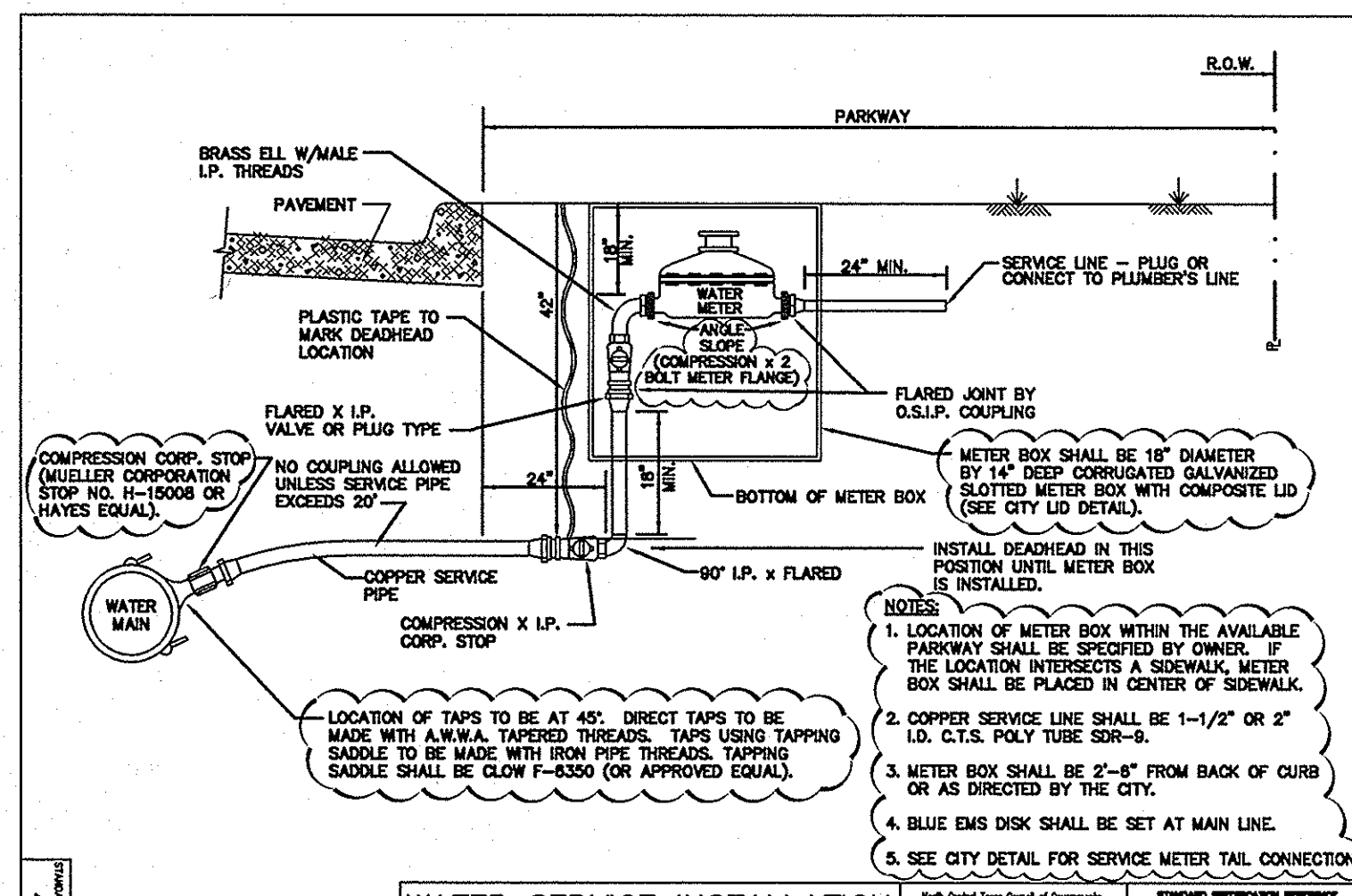


CURB INLET			
SUMMARY OF QUANTITIES			
60200	702	DATE	OCT. '04
60200	702	STANDARD DRAWING NO.	60200

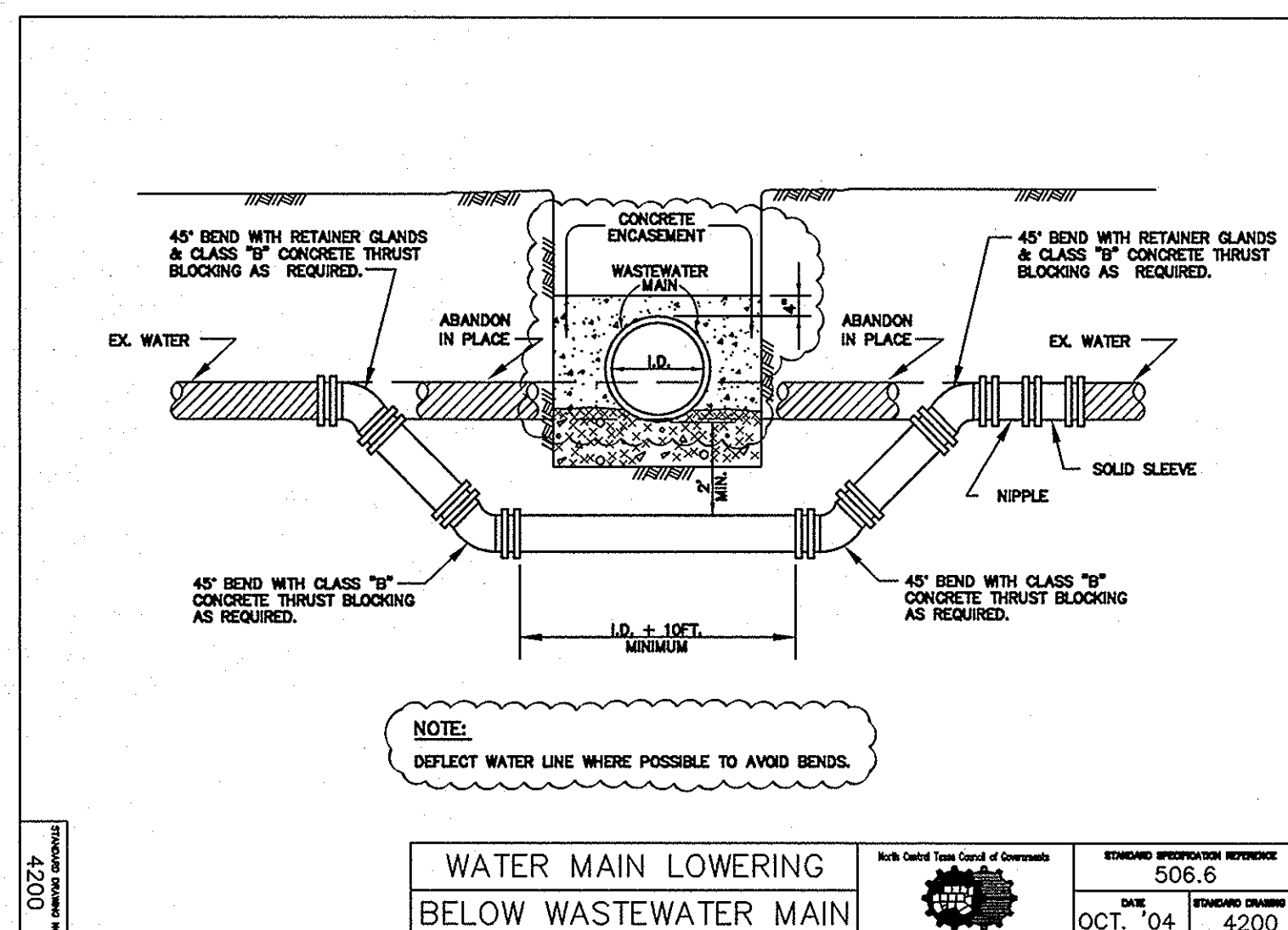
DEPTH "D"	BILL OF REINFORCING STEEL																													
	OPENING LENGTH "L" = 5ft			OPENING LENGTH "L" = 10ft			OPENING LENGTH "L" = 15ft			OPENING LENGTH "L" = 20ft																				
	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"	Widths "W"																			
3'-6"	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
3'-0"	17	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
4'-0"	19	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
4'-6"	19	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
4'-9"	21	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
5'-0"	21	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
5'-3"	23	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
5'-6"	23	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
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6'-0"	25	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
6'-3"	26	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
6'-6"	27	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
6'-9"	27	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
7'-0"	29	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
7'-3"	29	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
7'-6"	30	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
7'-9"	31	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
8'-0"	31	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44	2	2
8'-3"	32	3	2	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	28	36	2	2	44	48	52	34	34	44		



FIRE HYDRANT INSTALLATION
(MODIFIED TO REFLECT CITY AMENDMENTS TO NCTCOG DETAIL)



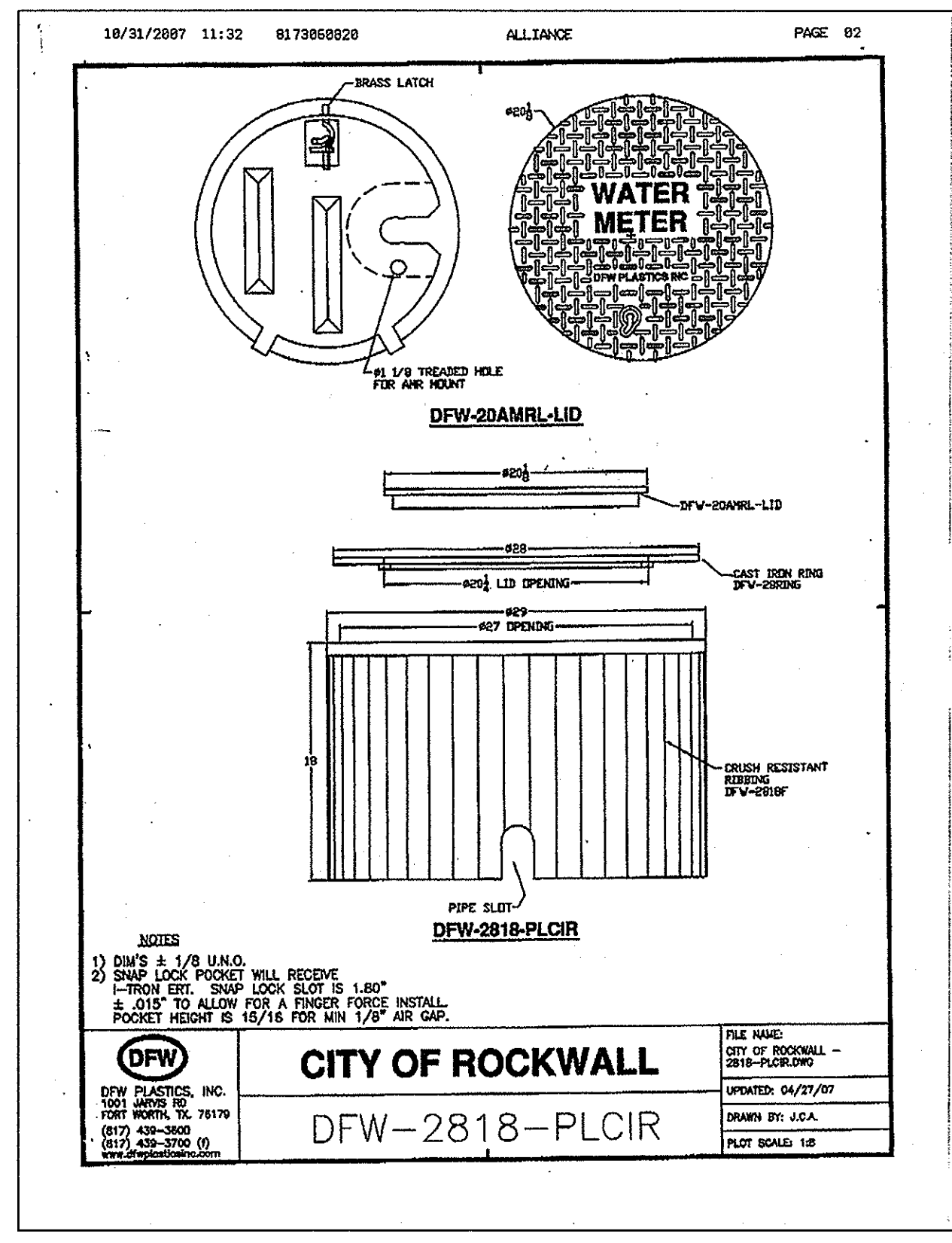
WATER SERVICE INSTALLATION
1 1/2" OR 2" LINE
(MODIFIED TO REFLECT CITY AMENDMENTS TO NCTCOG DETAIL)



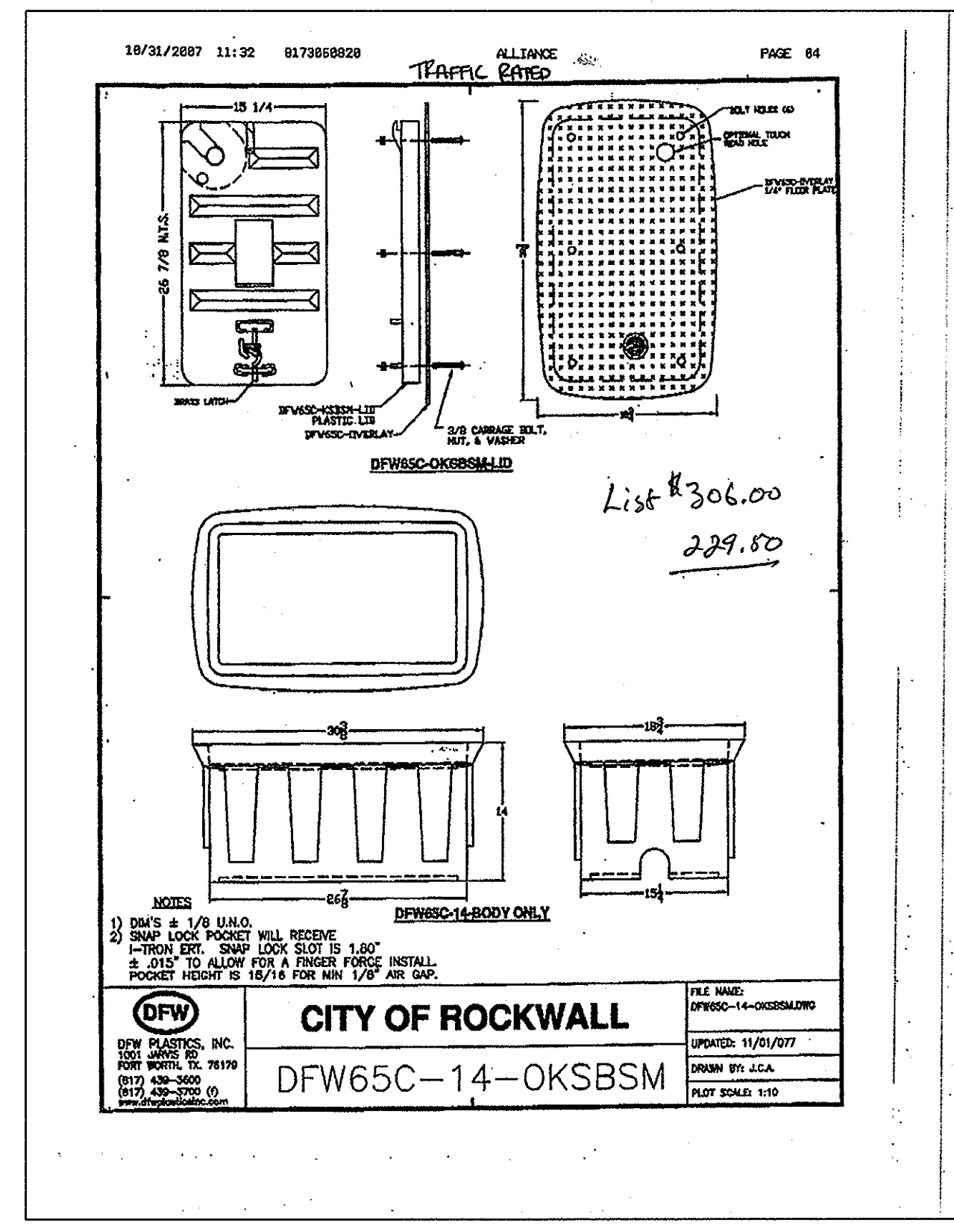
WATER MAIN LOWERING BELOW WASTEWATER MAIN
(MODIFIED TO REFLECT CITY AMENDMENTS TO NCTCOG DETAIL)

NOTES:

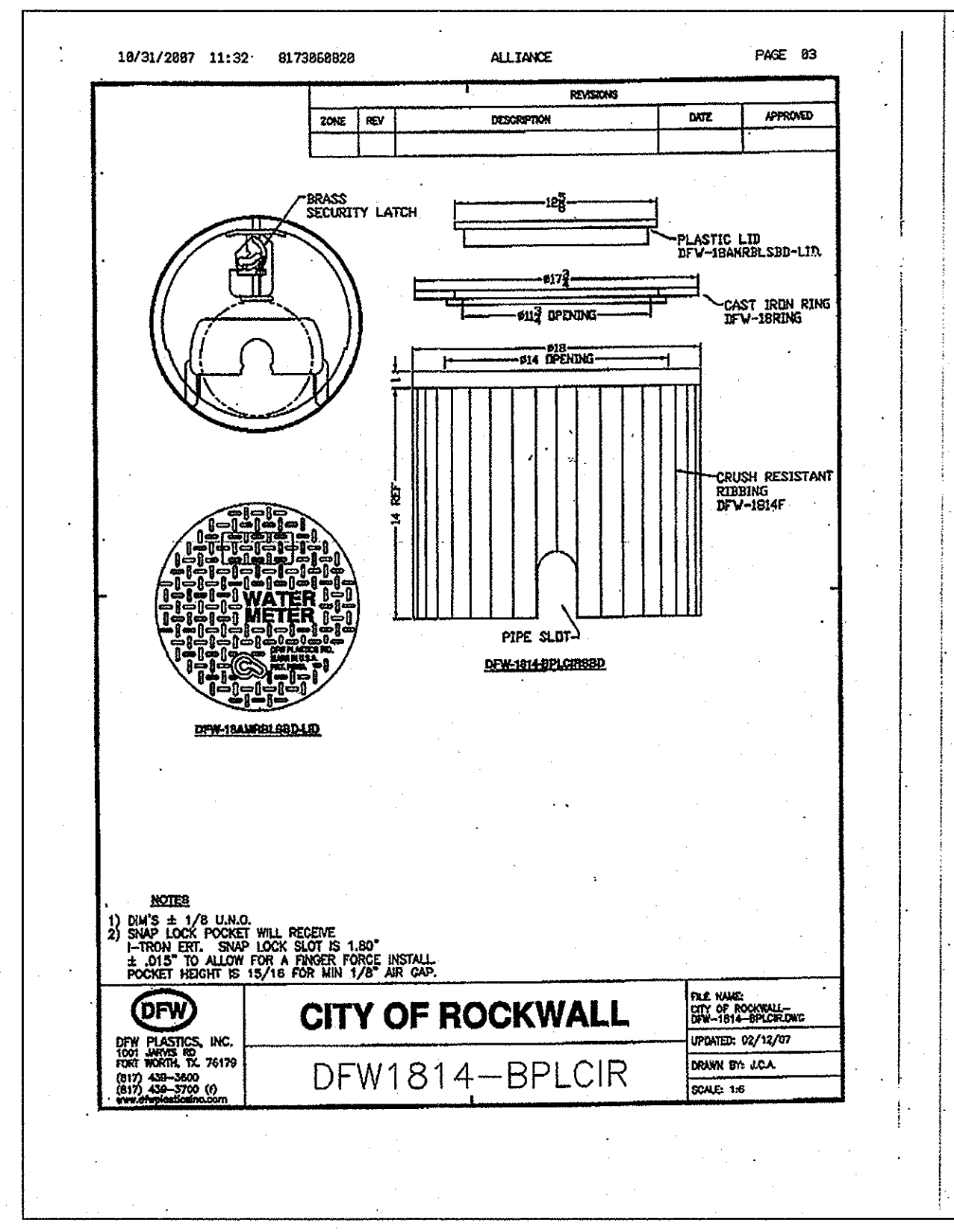
1. REFERENCE CITY OF ROCKWALL STANDARD DRAWINGS AND NCTCOG FOR ALL OTHER APPLICABLE DETAILS.
2. REFERENCE CITY OF ROCKWALL AMENDMENTS TO THE NCTCOG STANDARD DRAWINGS (AS CLOUD ON THE MODIFIED NCTCOG STANDARD DRAWINGS SHOWN ON THIS PAGE).



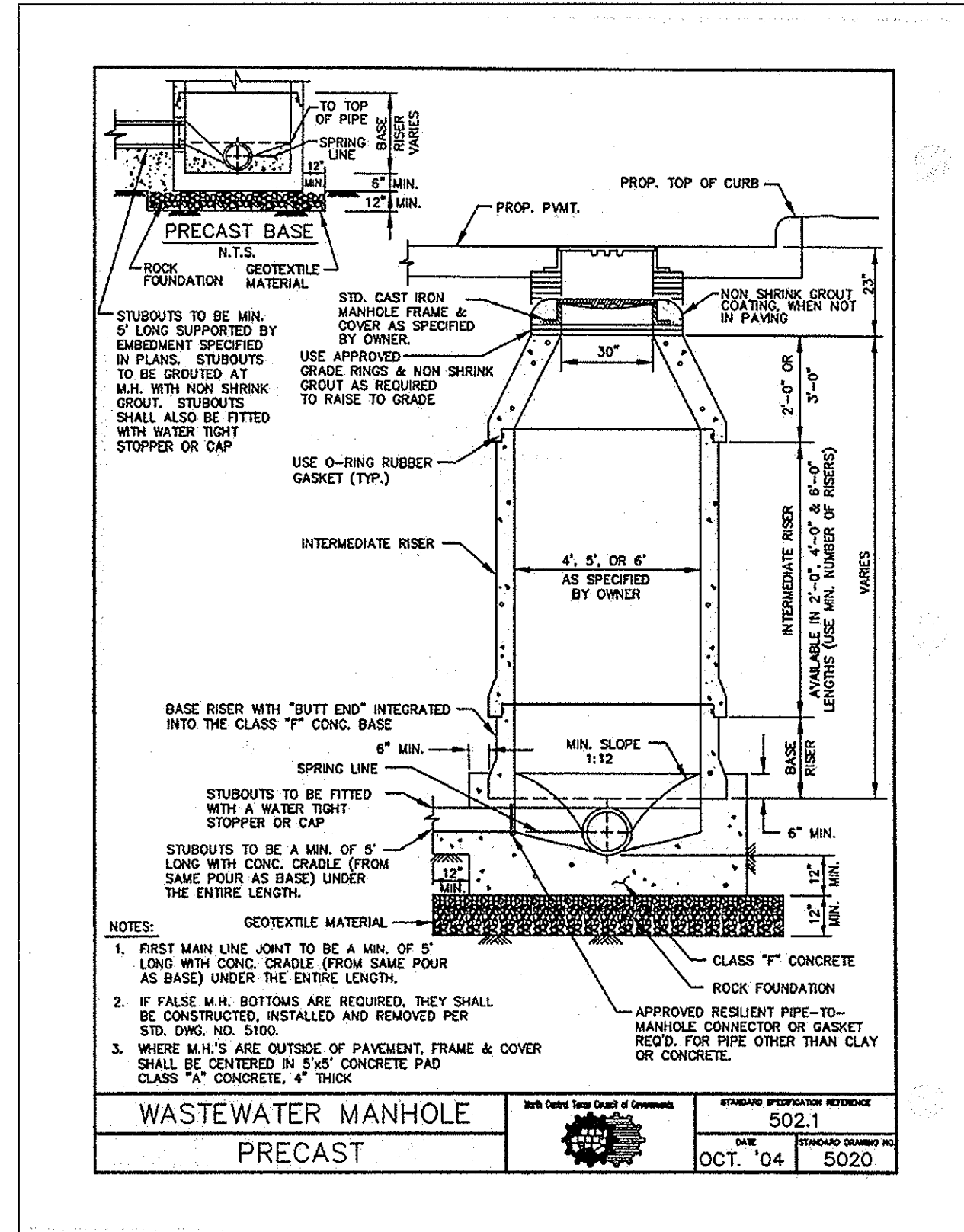
CITY OF ROCKWALL
DFW-2818-PLCIR



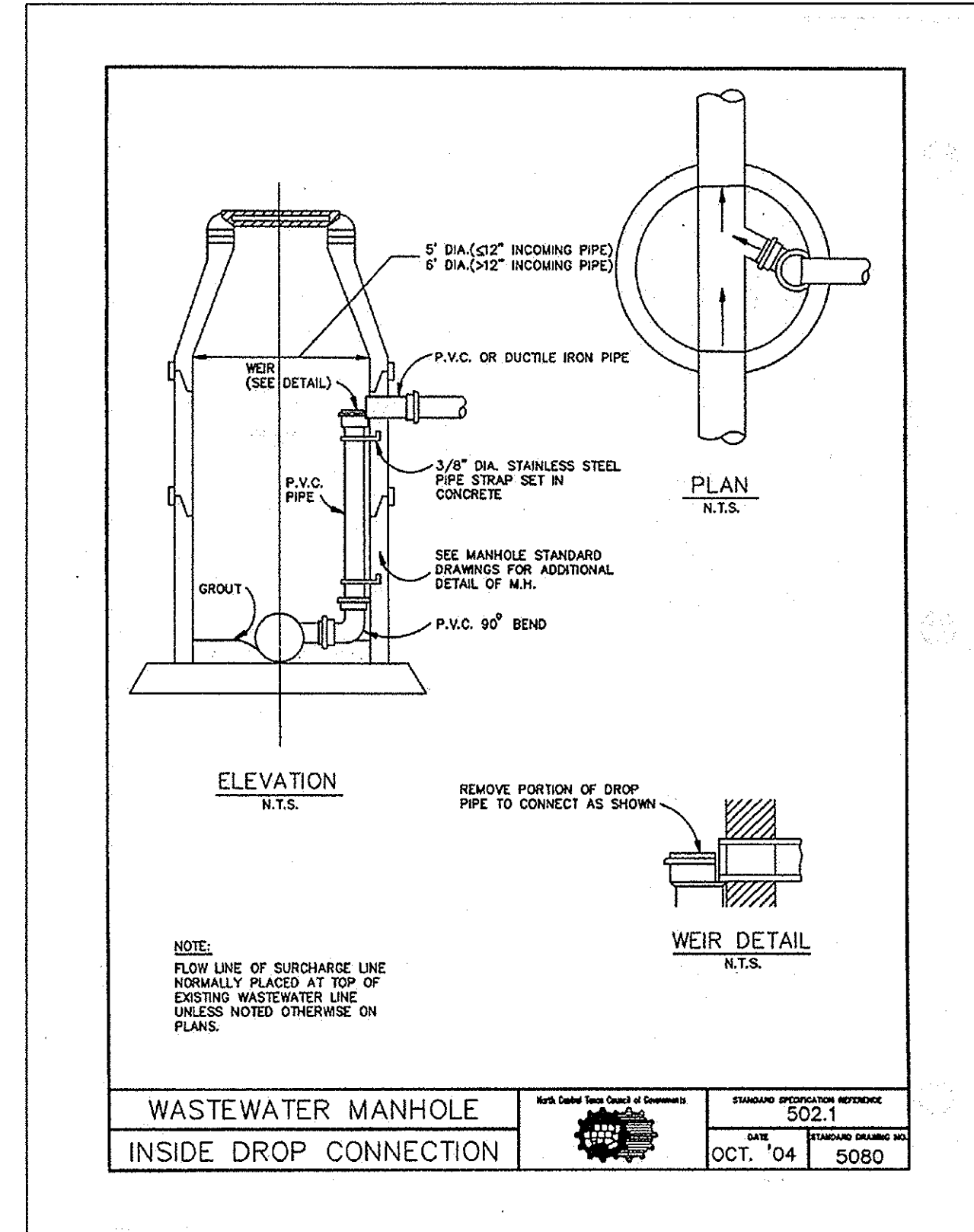
CITY OF ROCKWALL
DFW65C-14-OKSBSM



CITY OF ROCKWALL
DFW1814-BPLCIR



WASTEWATER MANHOLE PRECAST



WASTEWATER MANHOLE INSIDE DROP CONNECTION

RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

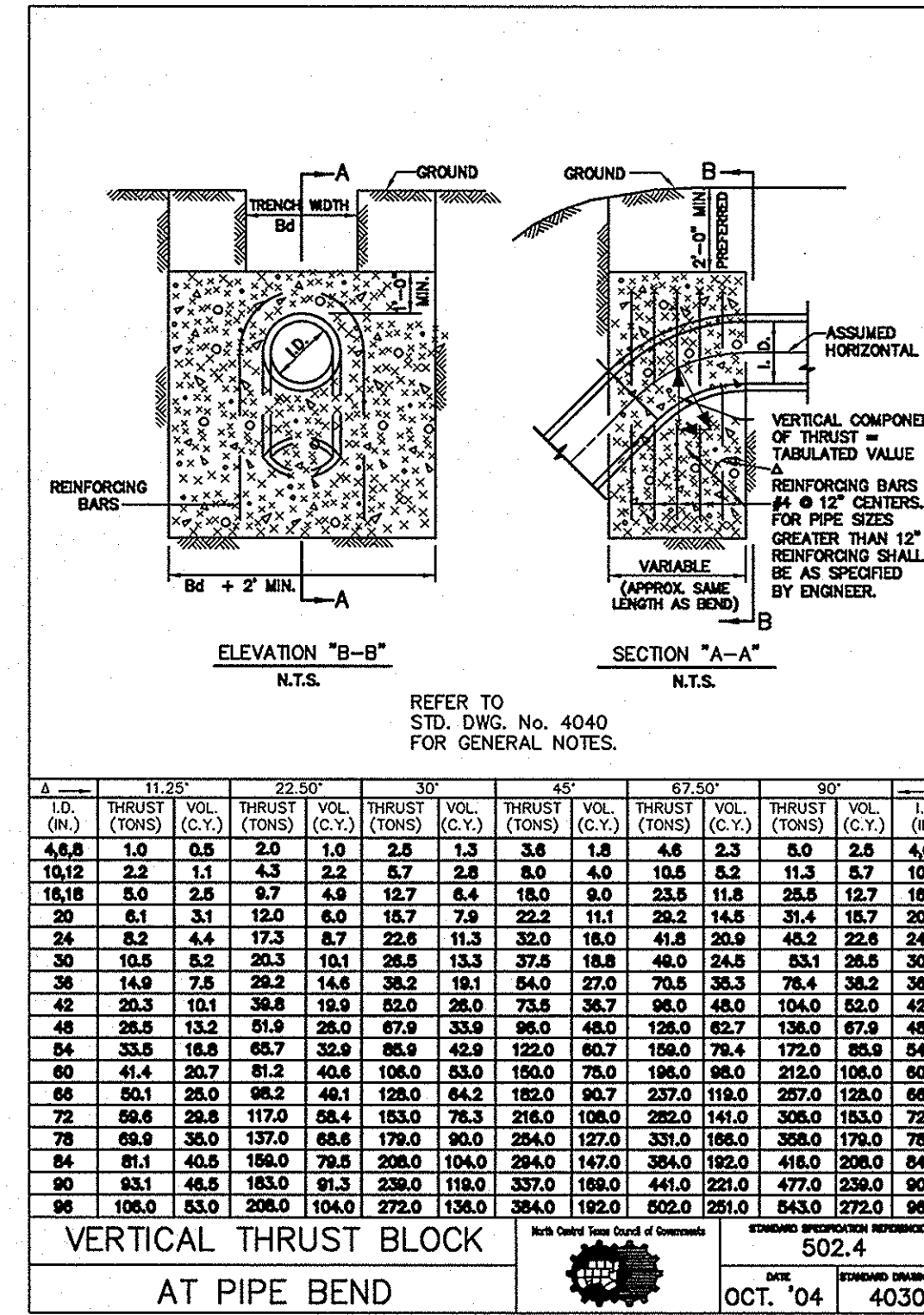
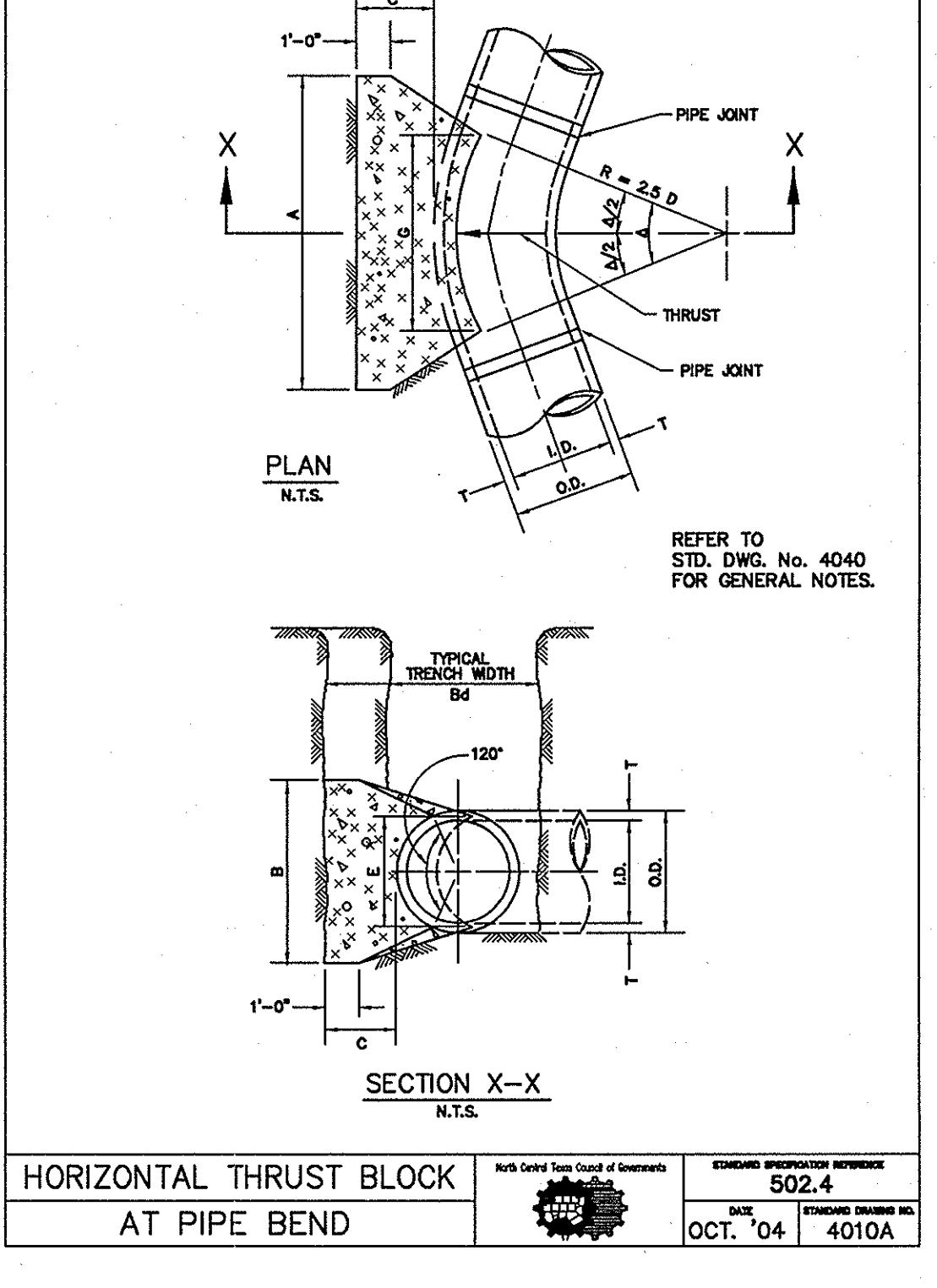
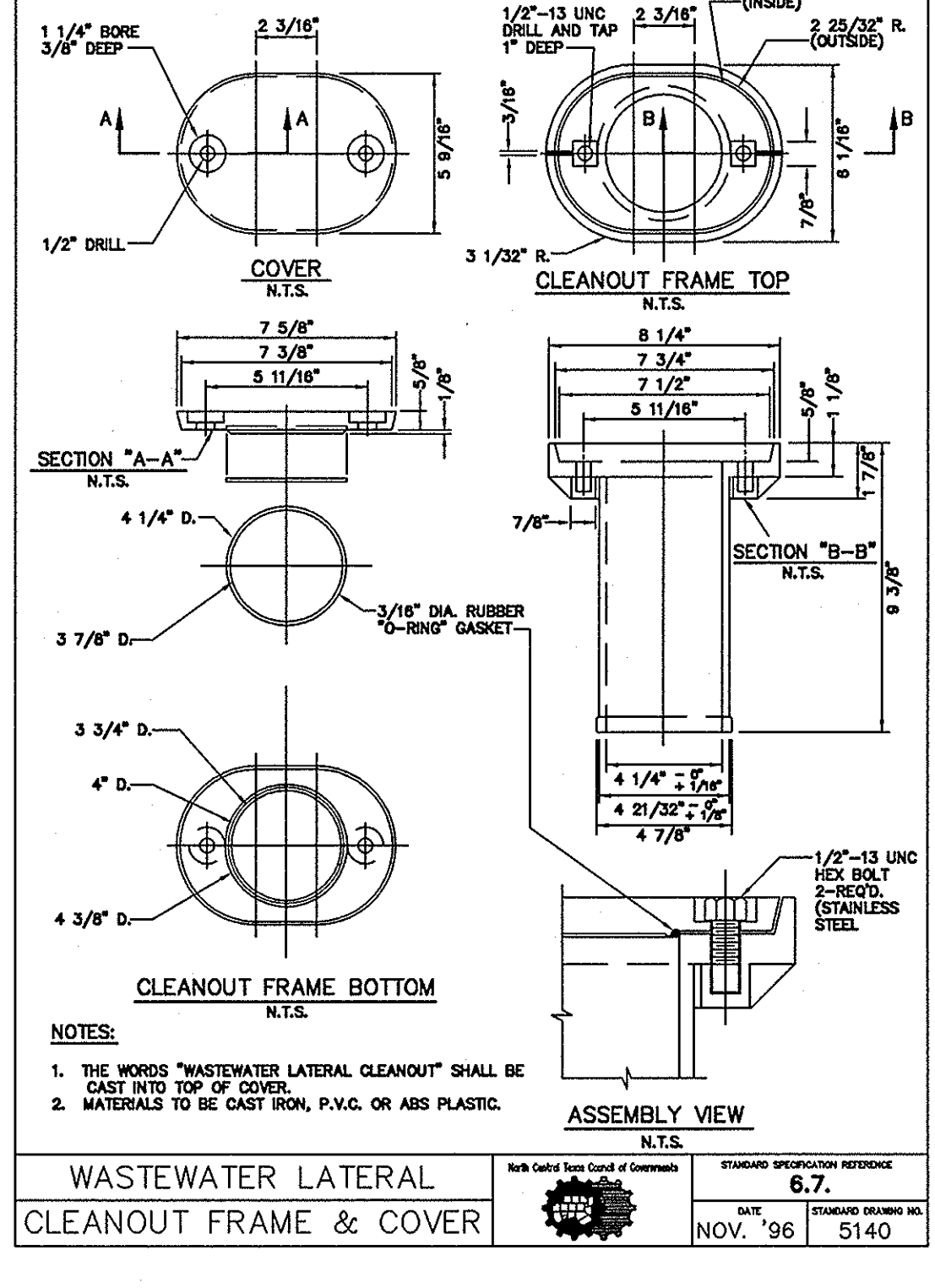
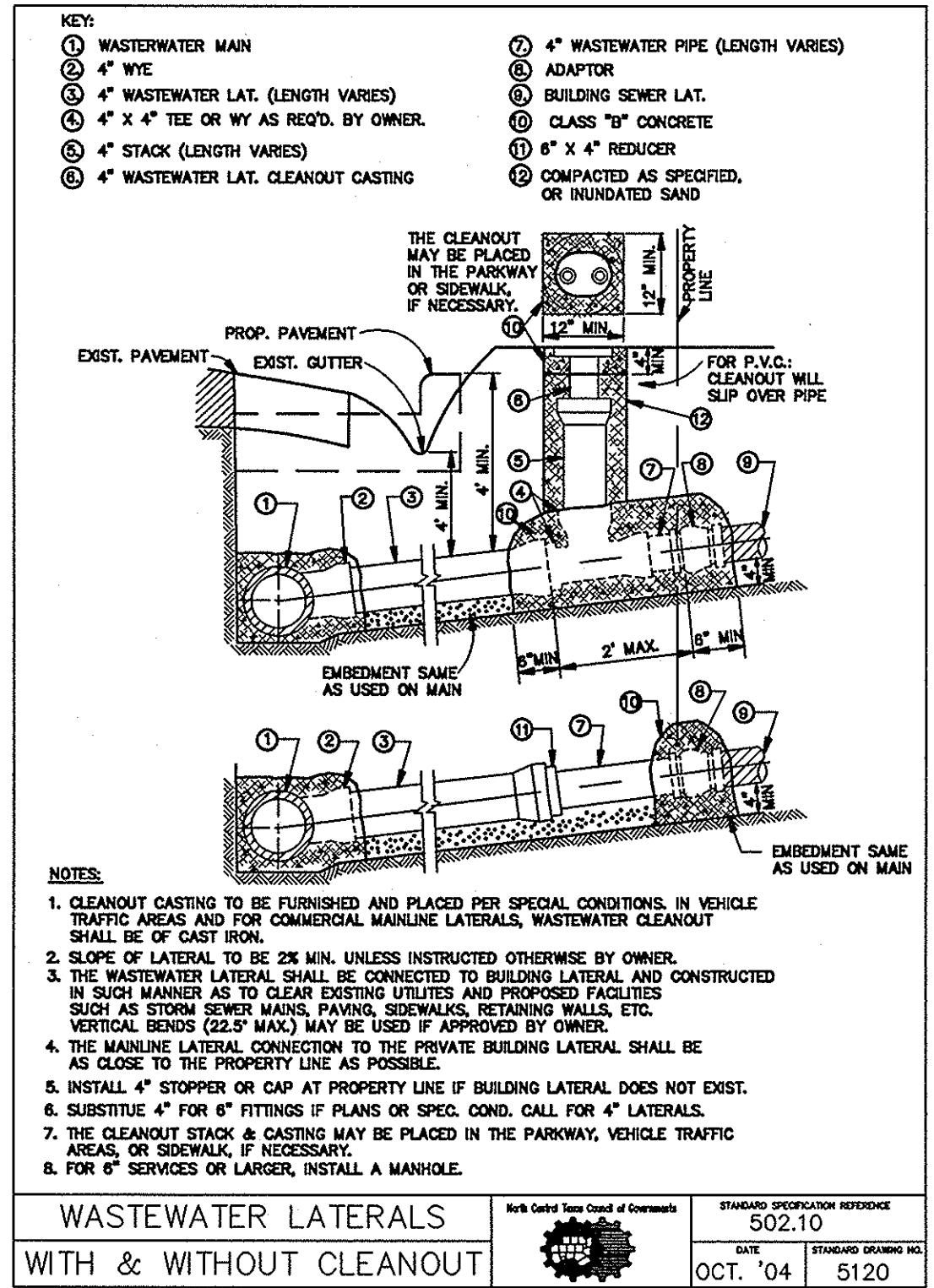
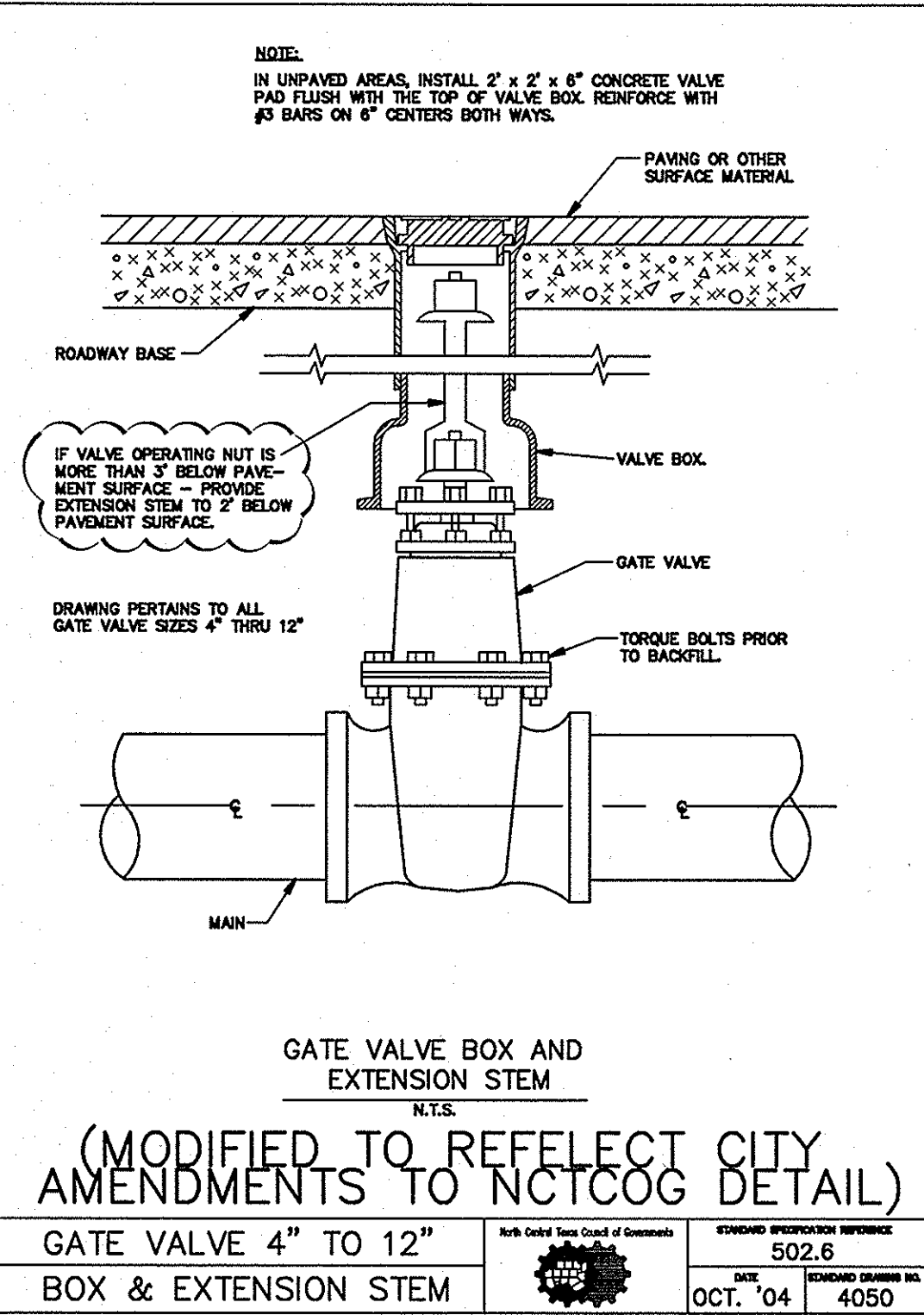
Kimley-Horn and Associates, Inc.
Tel. No. (972) 335-3880
Fax No. (972) 335-3779

COSTCO WHOLESALE
ROCKWALL, TEXAS

WATER AND SANITARY SEWER DETAILS

Scale: AS SHOWN
Designed by: KFD
Drawn by: KFD
Checked by: DKK
Date: August 14, 2008
Project No. 06600025

SHEET C-20 OF 21



TABLES OF DIMENSIONS AND QUANTITIES

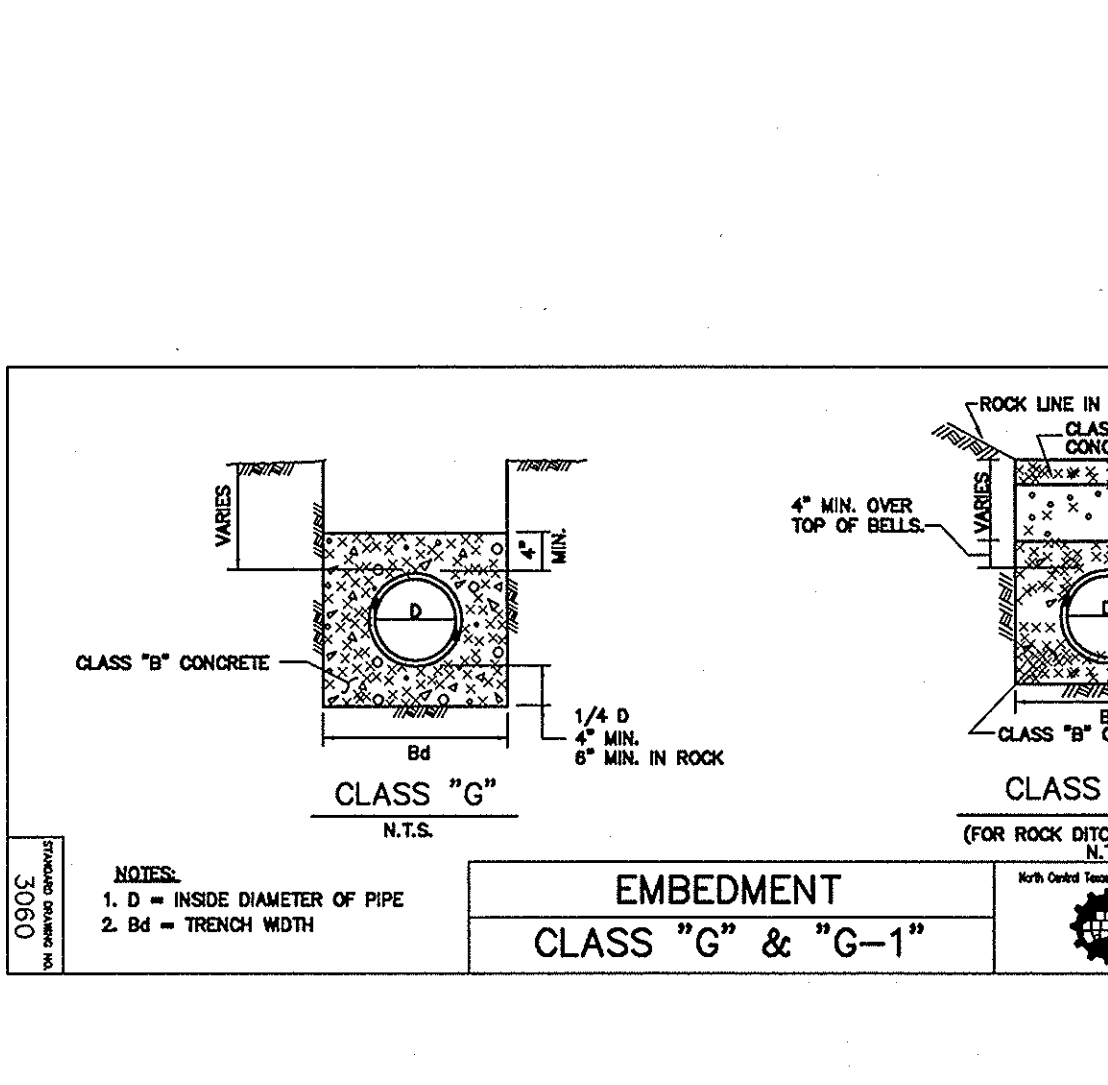
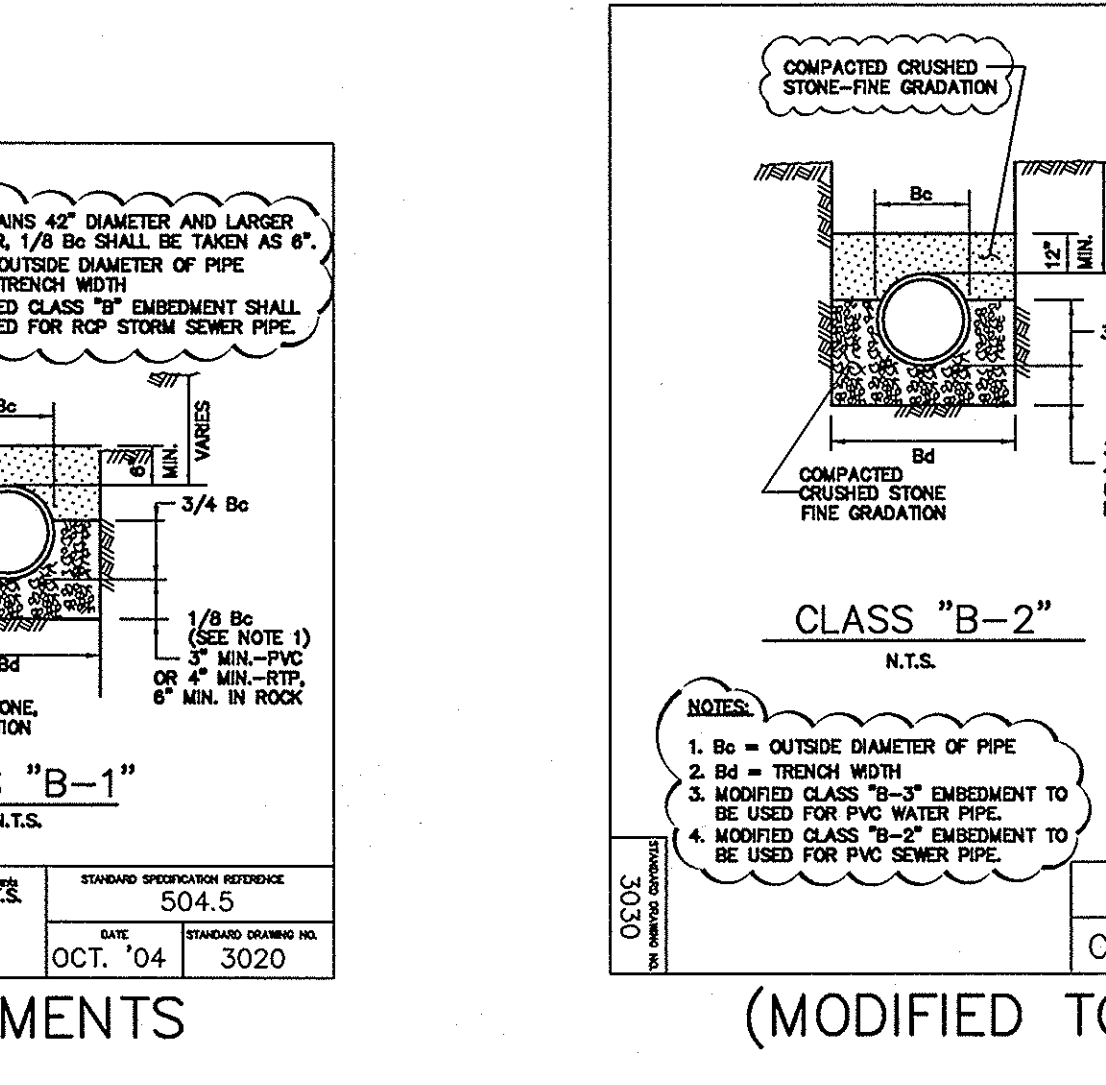
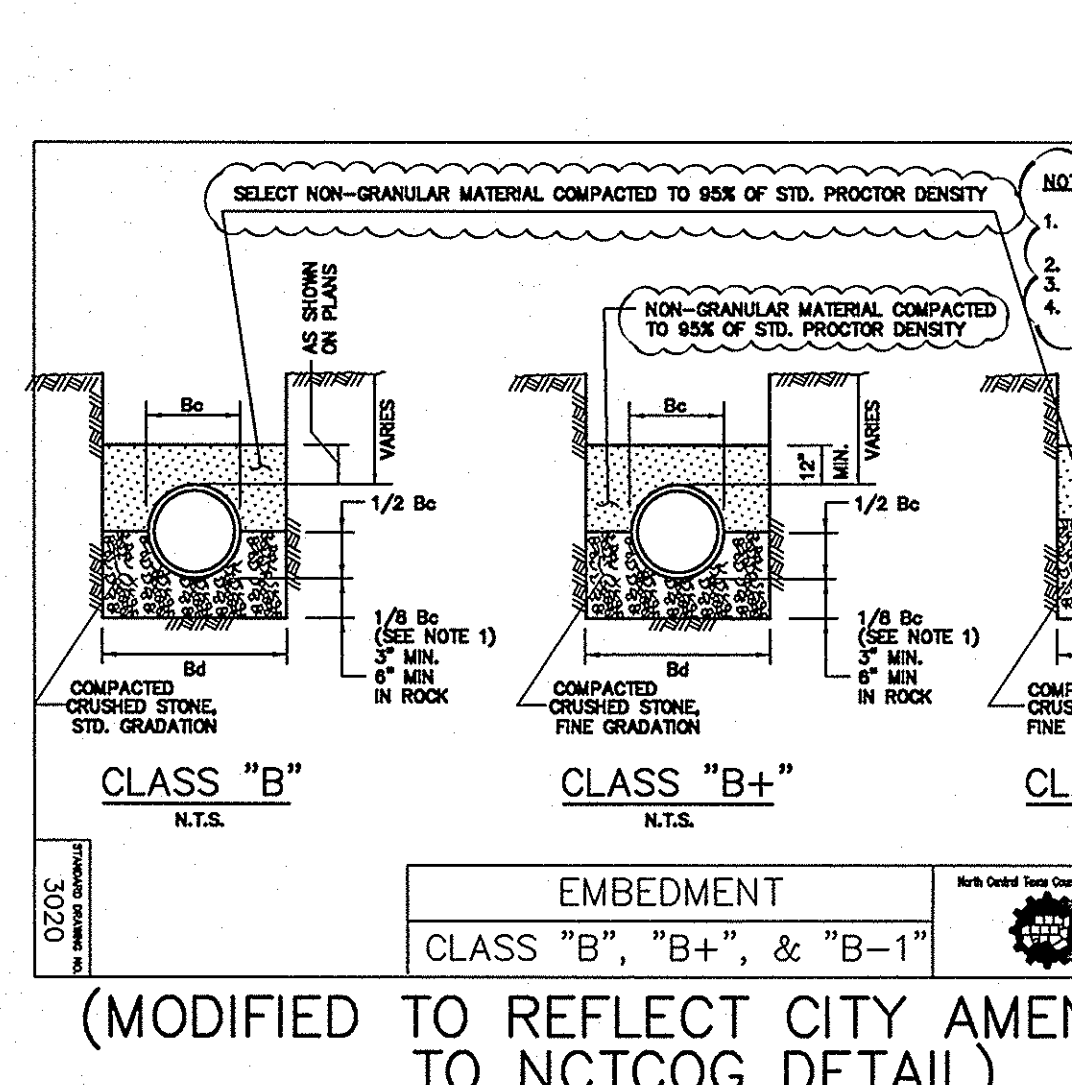
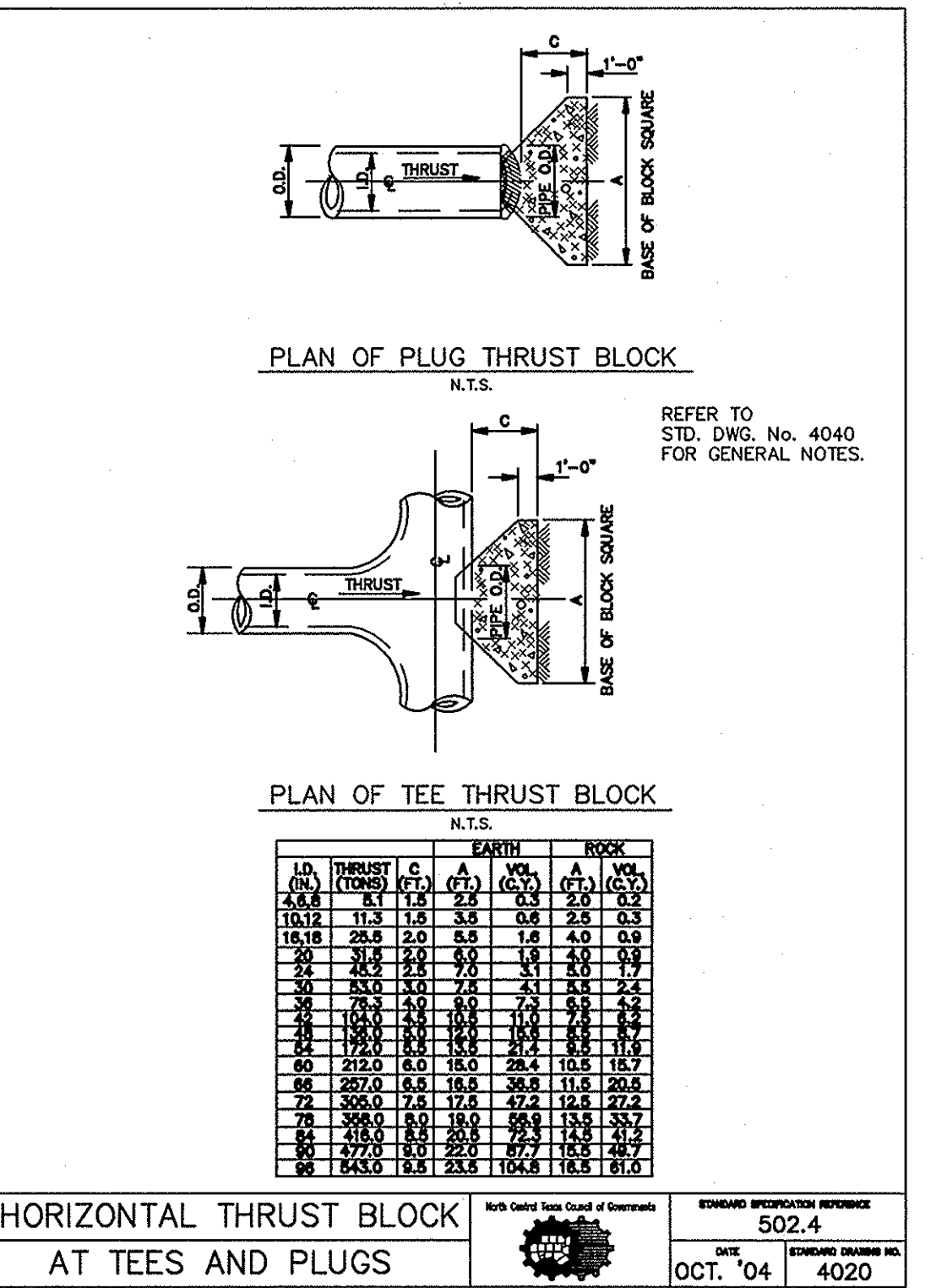
HORIZONTAL THRUST BLOCK AT PIPE BEND

DATE: OCT. '04
STANDARD DRAWING NO.: 4010B

TABLES OF DIMENSIONS AND QUANTITIES

HORIZONTAL THRUST BLOCK AT PIPE BEND

DATE: OCT. '04
STANDARD DRAWING NO.: 4010C

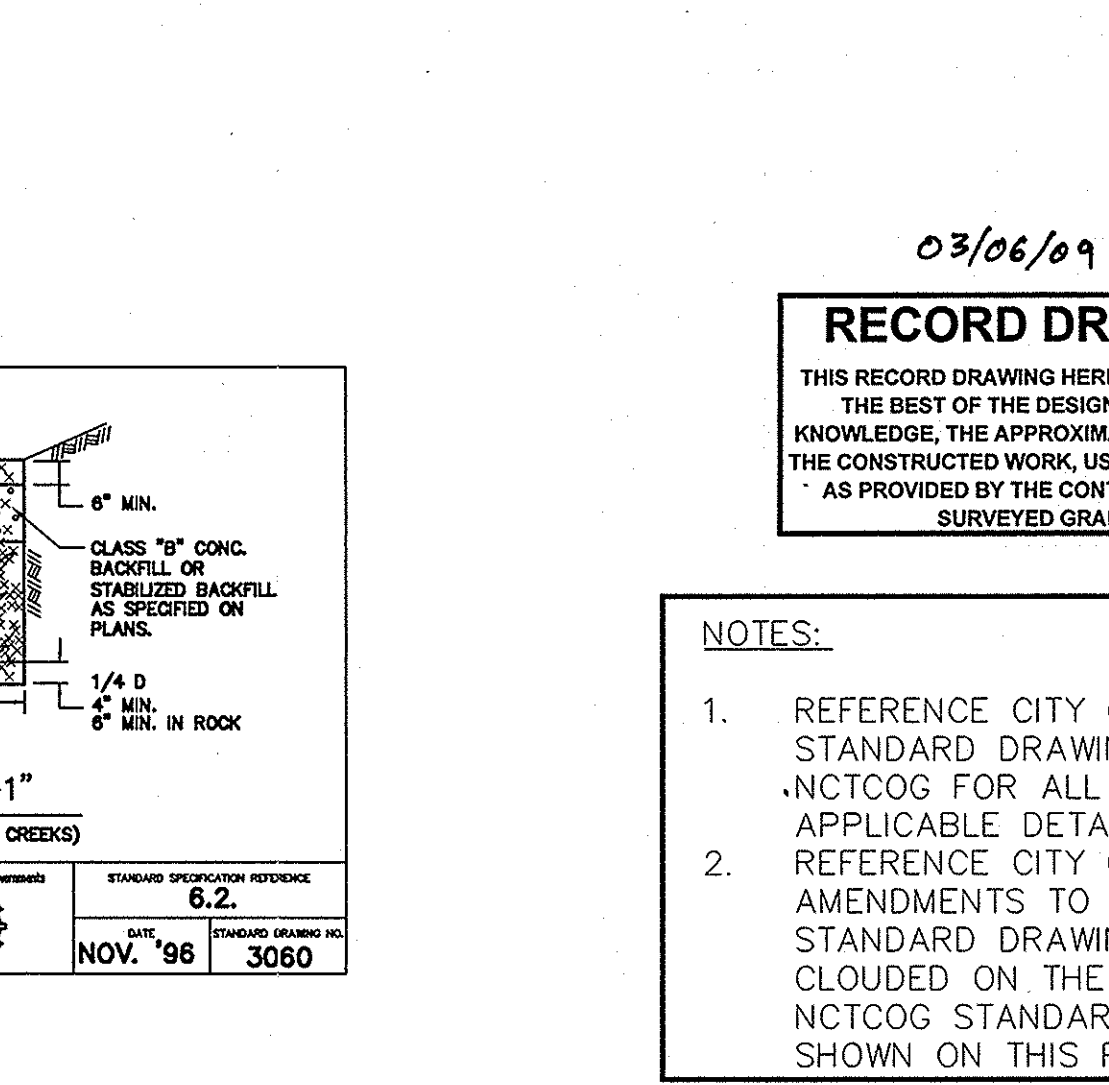


GENERAL NOTES FOR ALL THRUST BLOCKS:

- CONCRETE FOR BLOCKING SHALL BE CLASS "B".
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON, P.V.C., AND 150 PSI FOR CONCRETE PIPE.
- VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND, WALL THICKNESS (W) AND RADIUS (R) ARE FOR ESTIMATING PURPOSES ONLY.
- FOUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS./S.F. IN SOIL AND 2000 LBS./S.F. IN ROCK.
- USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND, TEE, OR PLUG TO PREVENT THE CONCRETE FROM STICKING TO IT.
- CONCRETE SHALL NOT EXTEND BEYOND JOINTS.

THRUST BLOCK GENERAL NOTES

DATE: OCT. '04
STANDARD DRAWING NO.: 4040



Scale: AS SHOWN

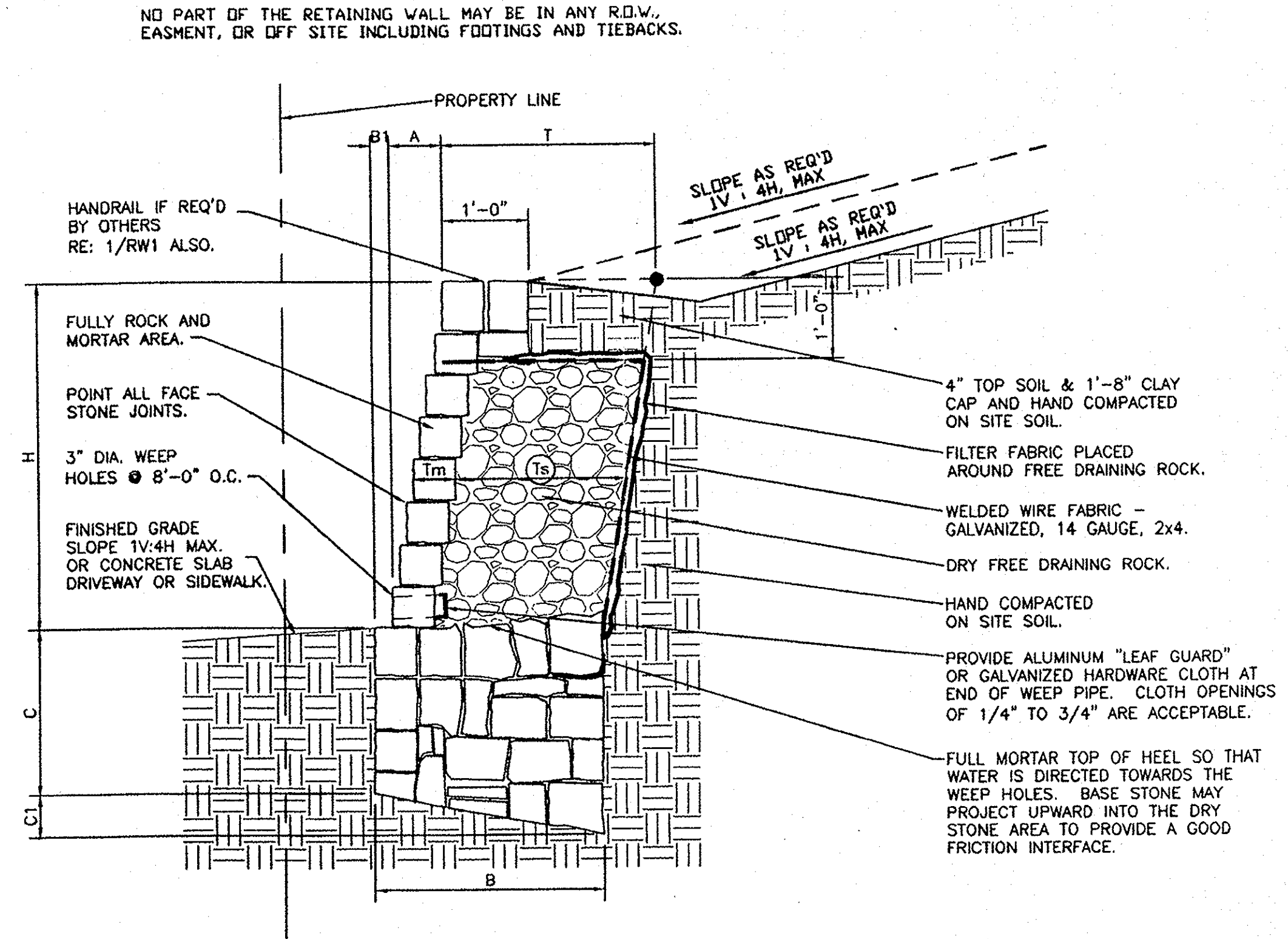
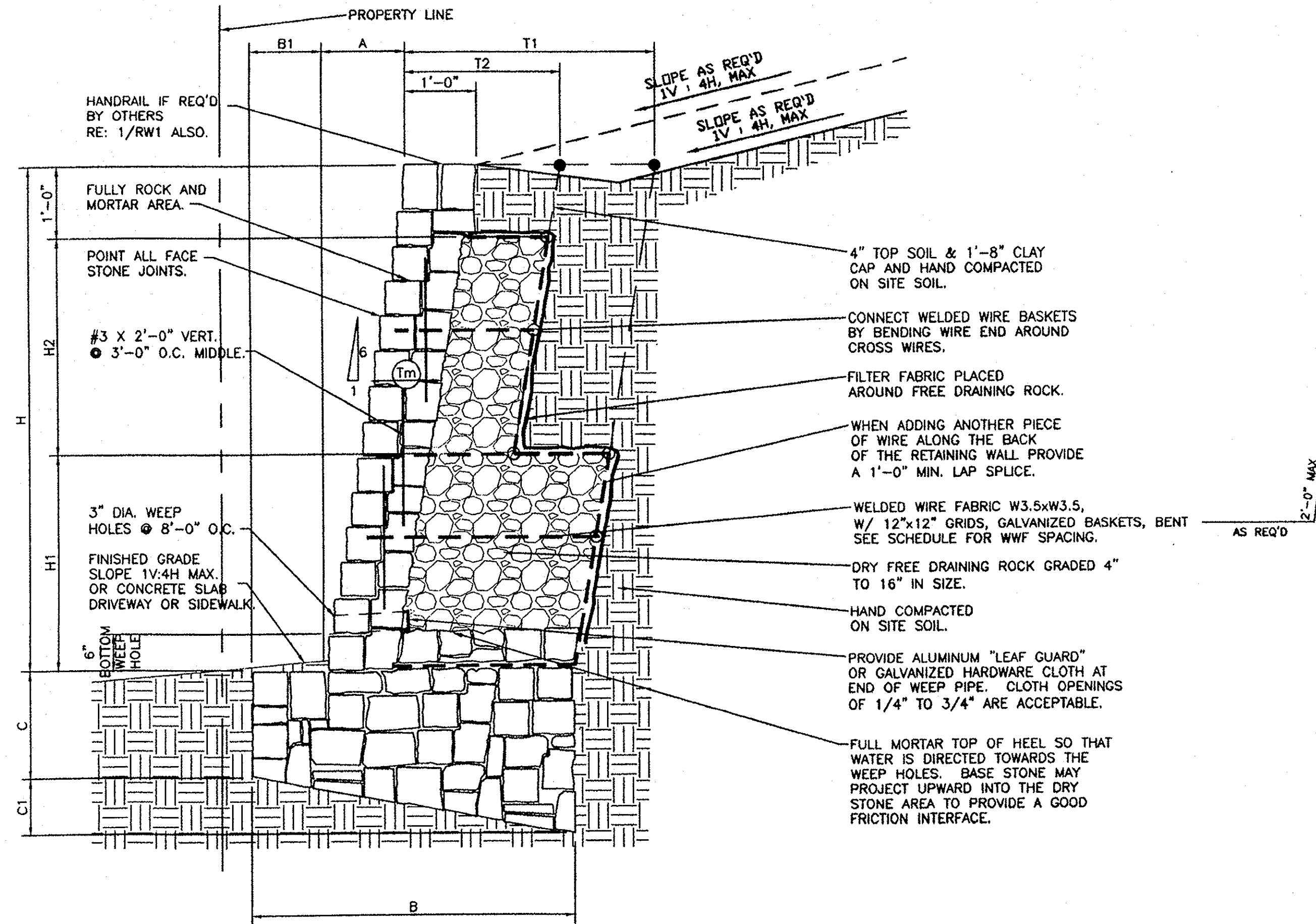
Designed by: KFD
Drawn by: KFD
Checked by: DNK
Date: August 14, 2008
Project No.: 06000005

Kimley-Horn and Associates, Inc.
Tel. No. (972) 335-3800
Fax No. (972) 335-3779

COSTCO WHOLESALE
ROCKWALL, TEXAS

WATER AND SANITARY SEWER DETAILS

SHEET **C-21** OF 21



MASONRY WALL SCHEDULE
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)

WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	THICKNESS MORTARED Tm	WALL HEIGHT BOTTOM H1	THICKNESS BOTTOM T1	MAX GRID SPACING S1	NUMBER OF GRID LAYERS L1	WALL HEIGHT TOP H2	THICKNESS TOP T2	MAX GRID SPACING S2	NUMBER OF GRID LAYERS L2	VOLUME STONE cf/R	BEARING CAPACITY
5'-0"	3'-2"	0'-2"	1'-9"	0'-7"	0'-10"	1'-0"	2'-0"	3'-0"	2'-0"	1	2'-0"	1'-5"	2'-0"	1	13.0	1500 psf
6'-0"	3'-10"	0'-3"	2'-0"	0'-8"	1'-0"	1'-0"	2'-6"	3'-7"	2'-0"	1	2'-6"	1'-8"	2'-0"	1	17.8	1500 psf

USE THIS SCHEDULE FOR 2/RW3

MASONRY WALL SCHEDULE
2500 psf - BEARING CAPACITY (HARD NATURAL UNDISTURBED SOILS SEE GENERAL NOTES SHEET RW1)

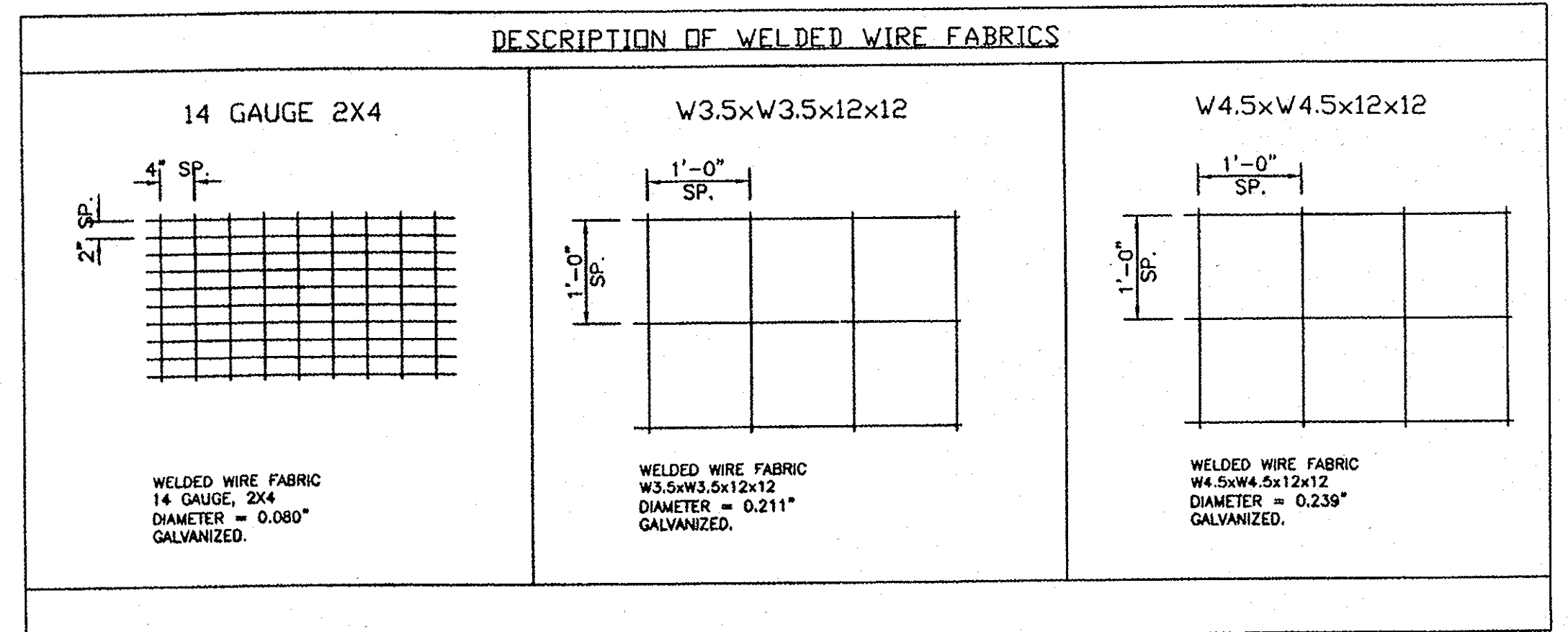
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	THICKNESS MORTARED Tm	WALL HEIGHT BOTTOM H1	THICKNESS BOTTOM T1	MAX GRID SPACING S1	NUMBER OF GRID LAYERS L1	WALL HEIGHT TOP H2	THICKNESS TOP T2	MAX GRID SPACING S2	NUMBER OF GRID LAYERS L2	VOLUME STONE cf/R	BEARING CAPACITY
5'-0"	3'-1"	0'-2"	1'-9"	0'-7"	0'-10"	1'-0"	2'-0"	2'-11"	2'-0"	1	2'-0"	1'-5"	2'-0"	1	12.0	2500 psf
6'-0"	3'-7"	0'-3"	2'-0"	0'-8"	1'-0"	1'-0"	2'-6"	3'-4"	2'-0"	1	2'-6"	1'-8"	2'-0"	1	17.0	2500 psf

USE THIS SCHEDULE FOR 2/RW3

2 RW3 TYPICAL WALL SECTION 3/4" = 1'-0"

1 RW3 TYPICAL WALL SECTION 3/4" = 1'-0"
03/06/09

RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.



3 RW3 WELDED WIRE REINFORCEMENT DESCRIPTION 3/4" = 1'-0"

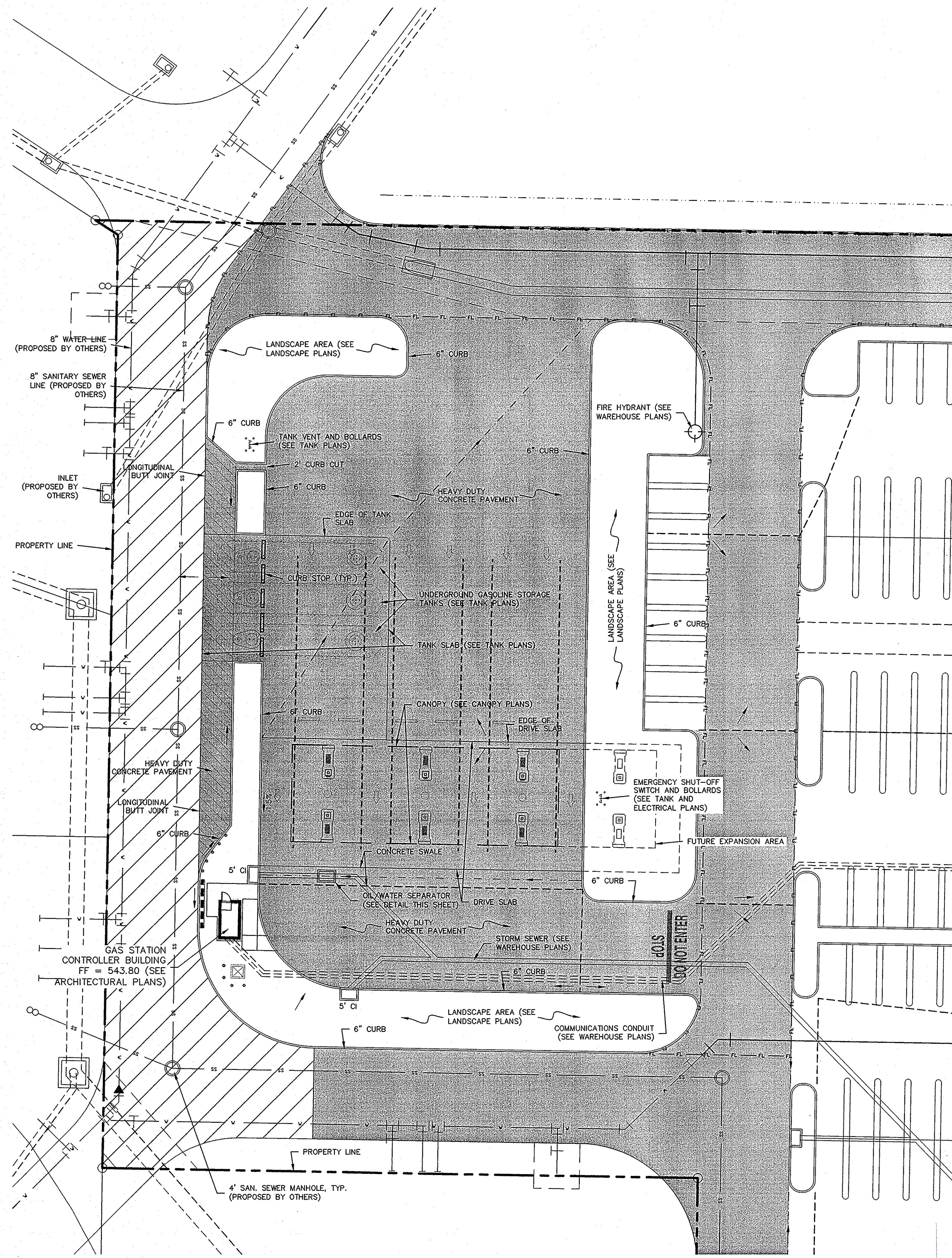
FALKOFSE ENGINEERING, INC.
Structural Engineering Consultants
1414 West Randol Mill Road
Suite 201
Arlington, Texas 76012
Metro (817) 261-8300

DATE	BY	NO.	DATE	REVISION
02-28-08	TJW			
02-28-08	TJW			
02-28-08	TJF			

MASONRY RETAINING WALLS
ROCKWALL, TEXAS
ERWS, INC.
EULESS, TEXAS

RW3

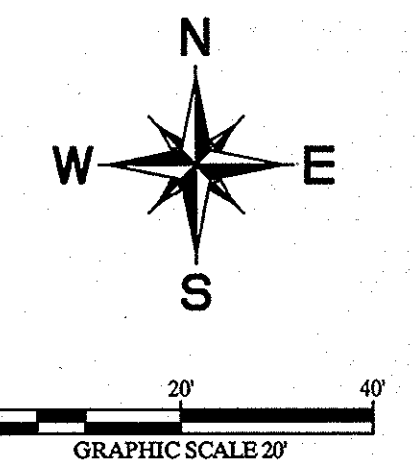
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- ### NOTES
- PROPOSED CONTOURS SHOWN "BY OTHERS" BASED ON CITY APPROVED "SITE IMPROVEMENT PLANS FOR ROCKWALL CENTRE CORNERS" PREPARED BY C.P.H. ENGINEERS, INC.
 - ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT, UNLESS OTHERWISE NOTED.
 - ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
 - CONTRACTOR SHALL VERIFY COMPLIANCE WITH TEXAS ACCESSIBILITY STANDARDS (TAS) AND SHALL NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICTS.
 - CONTRACTOR SHALL COORDINATE GRADING AT FACE OF BUILDING WITH PLANS BY ARCHITECT AND SHALL NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICTS.
 - CONTRACTOR SHALL COORDINATE GRADING IN LANDSCAPE AREAS WITH PLANS BY LANDSCAPE ARCHITECT AND SHALL NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICTS.
 - CONTRACTOR TO PROTECT EXISTING PAVEMENT AND UTILITIES DURING CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS EXIST. I.E. TRAFFIC CONTROL OR TEMPORARY SHORING IS REQUIRED.
- ### ACCESSIBILITY NOTES
- All Accessible Spaces and Accessible Routes shall comply with the Texas Accessibility Standards (TAS) and the City of Frisco Requirements.
 - Parking spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions. Curb ramps complying TAS Section 4.7 shall be provided at all Passenger Loading Zones.
 - Each accessible parking space shall be designated as reserved by a vertically mounted or suspended sign showing the symbol of accessibility per TAS Section 4.30.7. Spaces complying with TAS Section 4.1.2(5)(b) shall have an additional sign "Van-Accessible" mounted below the symbol of accessibility.
 - Characters and symbols on such signs shall be located 60" (1525 mm) minimum above the ground, floor, or paving surface so they cannot be obscured by a vehicle parked in the space.
 - Signs located within an accessible route shall comply with TAS Section 4.4.2.
 - Characters and symbols on overhead signs shall comply with TAS Section 4.30.3.
 - Slopes of curb ramps shall comply with TAS Section 4.8.2. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.
 - Textures shall consist of exposed crushed stone aggregate, roughened concrete, rubber, raised abrasive strips, or grooves extending the full width and depth of the curb ramp. Surfaces that are raised, etched, or grooved in a way that would allow water to accumulate are prohibited.
 - For purposes of warning, the full width and depth of curb ramps shall have a light reflective value and texture that significantly contrasts with that of adjoining pedestrian routes.
 - Surfaces of curb ramps shall comply with TAS Section 4.5.
 - Textures shall consist of exposed crushed stone aggregate, roughened concrete, rubber, raised abrasive strips, or grooves extending the full width and depth of the curb ramp. Surfaces that are raised, etched, or grooved in a way that would allow water to accumulate are prohibited.
 - For purposes of warning, the full width and depth of curb ramps shall have a light reflective value and texture that significantly contrasts with that of adjoining pedestrian routes.

LEGEND

	PROPOSED HEAVY DUTY PAVEMENT 6"-3,600 PSI (MIN.) REINFORCED CONCRETE PAVEMENT W/ NO. 4 BARS, 18" O.C.E.W., ON 6" LIME TREATED SUBGRADE PER GEOTECH RECOMMENDATIONS
	PROPOSED LIGHT DUTY PAVEMENT 5"-3,600 PSI (MIN.) REINFORCED CONCRETE PAVEMENT WITH NO. 3 BARS, 18" O.C.E.W., ON 6" LIME TREATED SUBGRADE PER GEOTECH RECOMMENDATIONS
	PROPOSED PAVEMENT (BY OTHERS)
	PROPOSED FIRELANE
	PROPOSED LIGHTING
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED RIDGE
	PROPOSED SWALE
	TP TOP OF PAVEMENT
	FG FINISHED GROUND
	FF FINISHED FLOOR
	TW TOP OF WALL
	BW BOTTOM OF WALL
	ME MATCH EXISTING
	TI TOP OF PUMP ISLAND
	CI CURB INLET
	DI DROP INLET



No.	Date	Revisions	App.

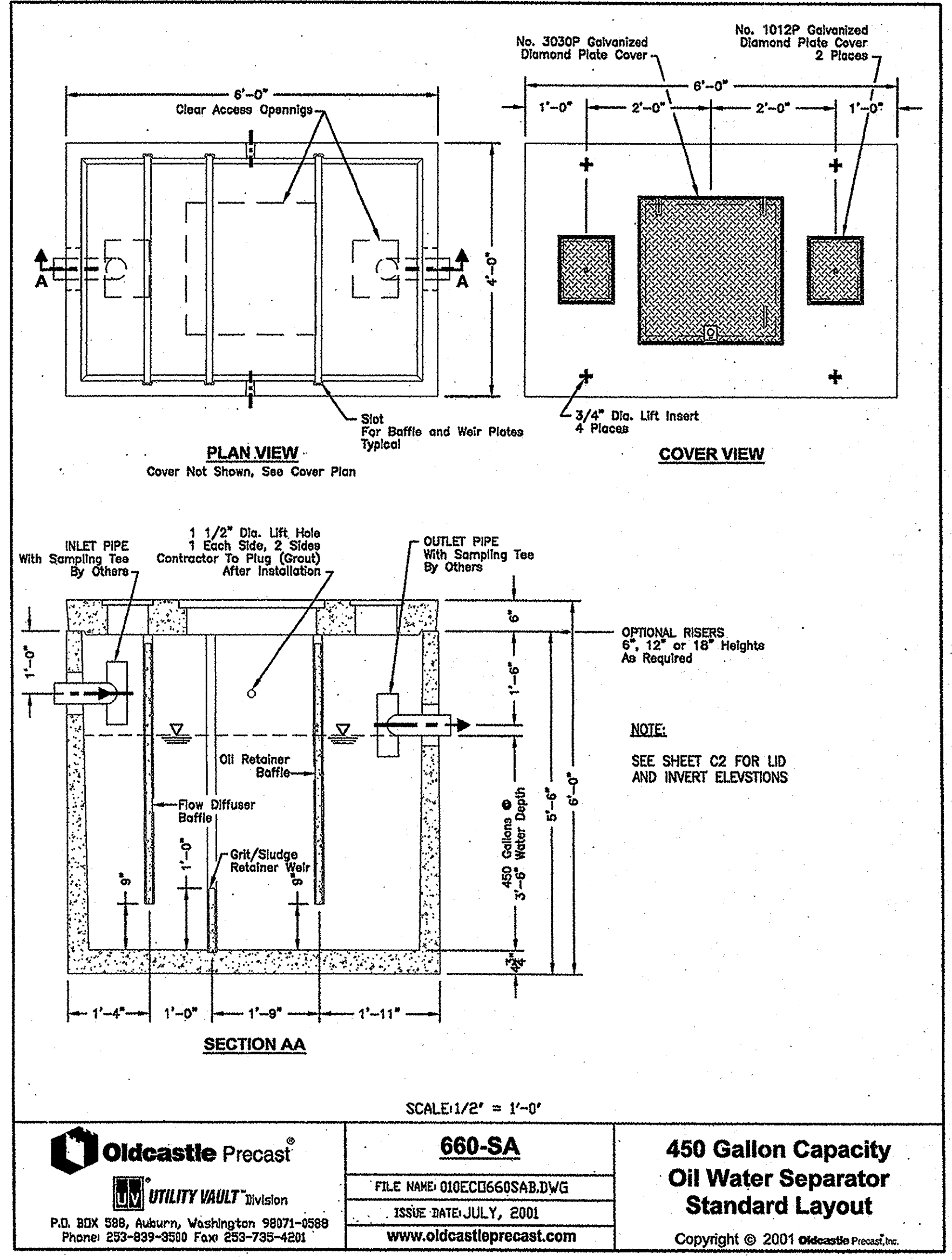
Kimley-Horn and Associates, Inc.

5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No. (972) 335-3980
Fax No. (972) 335-3779

STATE OF TEXAS
DAVID K. KOCHALKA
87781
REGISTERED PROFESSIONAL ENGINEER
1-26

COSTCO WHOLESALE
ROCKWALL, TEXAS

GAS STATION PAVING AND DIMENSION CONTROL PLAN



03/06/09
RECORD DRAWING
THIS RECORD DRAWING REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

BM: SQUARE CUT W/ "X" SET ON TOP OF CONCRETE HEADWALL 15' NORTH OF THE NORTH EDGE OF PAVEMENT OF FM 276, 375' WEST OF SOUTHWEST PROPERTY CORNER ELEV. = 552.00
 BM: CITY OF ROCKWALL CONTROL MONUMENT #2 ELEV. = 609.39
 BM: 604 SET ON TOP OF CONCRETE HEADWALL 400' NORTH HWY 30 ELEV. = 552.00

① OIL WATER SEPARATOR
NOT TO SCALE
UTILITY VAULT COMPANY MODEL NO. "660 SA" OR EQUAL

