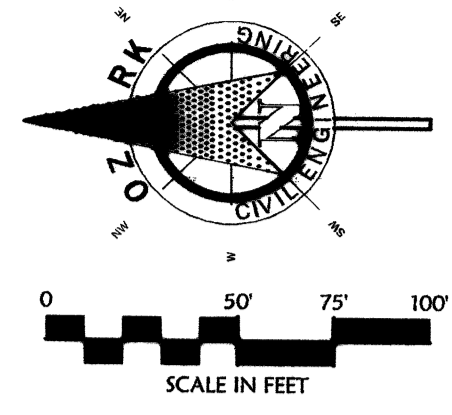


LOWE'S
117K DEEP
F.F.E. = 1353.00



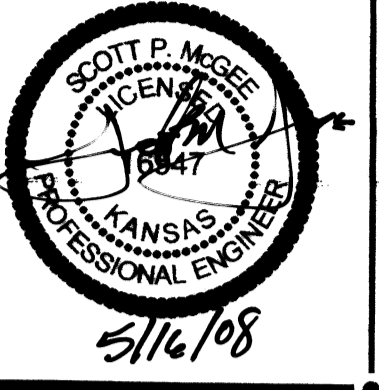
BENCHMARK
City of Wichita Disc on the northwest corner of 29th St. N. and Maize Rd.
Elevation = 1349.32 (M.S.L)
Elevation = 161.92 (City Datum)

UTILITY PROPOSED FEATURES

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	EASEMENT LINE
---	CONCRETE CURB AND GUTTER
X	FENCE
---	GUARD RAIL
---	RETAINING WALL
---	STORM DRAIN (SEE GRADING PLAN FOR SIZE)
---	SANITARY SEWER SERVICE
---	WATER SERVICE
---	UNDERGROUND ELECTRIC SERVICE
---	UNDERGROUND TELEPHONE SERVICE
---	OVERHEAD ELECTRIC SERVICE
---	OVERHEAD TELEPHONE SERVICE
---	FIBER OPTIC CABLE SERVICE
---	GAS SERVICE
---	DROP INLETS (SEE GRADING PLAN FOR TYPE)

REVISIONS

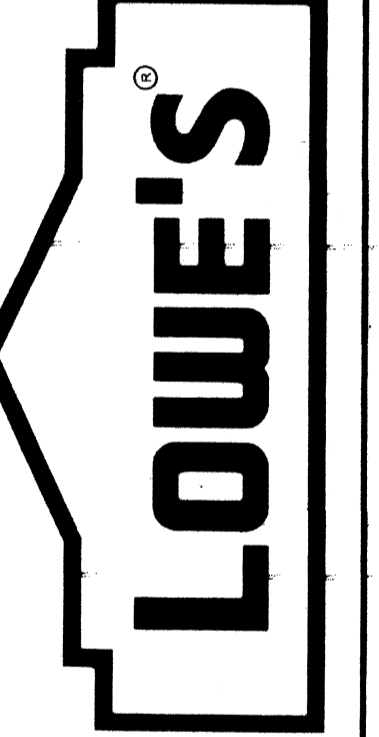
DATE	DESCRIPTION
4-08-06	REVISION 2



Clark
Civil Engineering Inc.
Bentonville • Kansas City • Austin

LOWE'S HOME CENTERS, INC.
1605 CURTIS BRIDGE ROAD
RETC DOCK
WILKESBORO, NC 28697

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SANITARY SEWER PLAN & PROFILE
LINE A
LINE B

LOWE'S OF N.W. WICHITA
MAIZE RD. & CENTRAL PARK ST.
WICHITA, KS.

PROJECT No. 04-0460 DRAWN BY: JG CHECKED BY: SW

ORIGINAL ISSUE DATE:
PERMIT SET ISSUE DATE:
CONSTRUCTION SET ISSUE DATE: 8-17-07
DRAWING NUMBER:

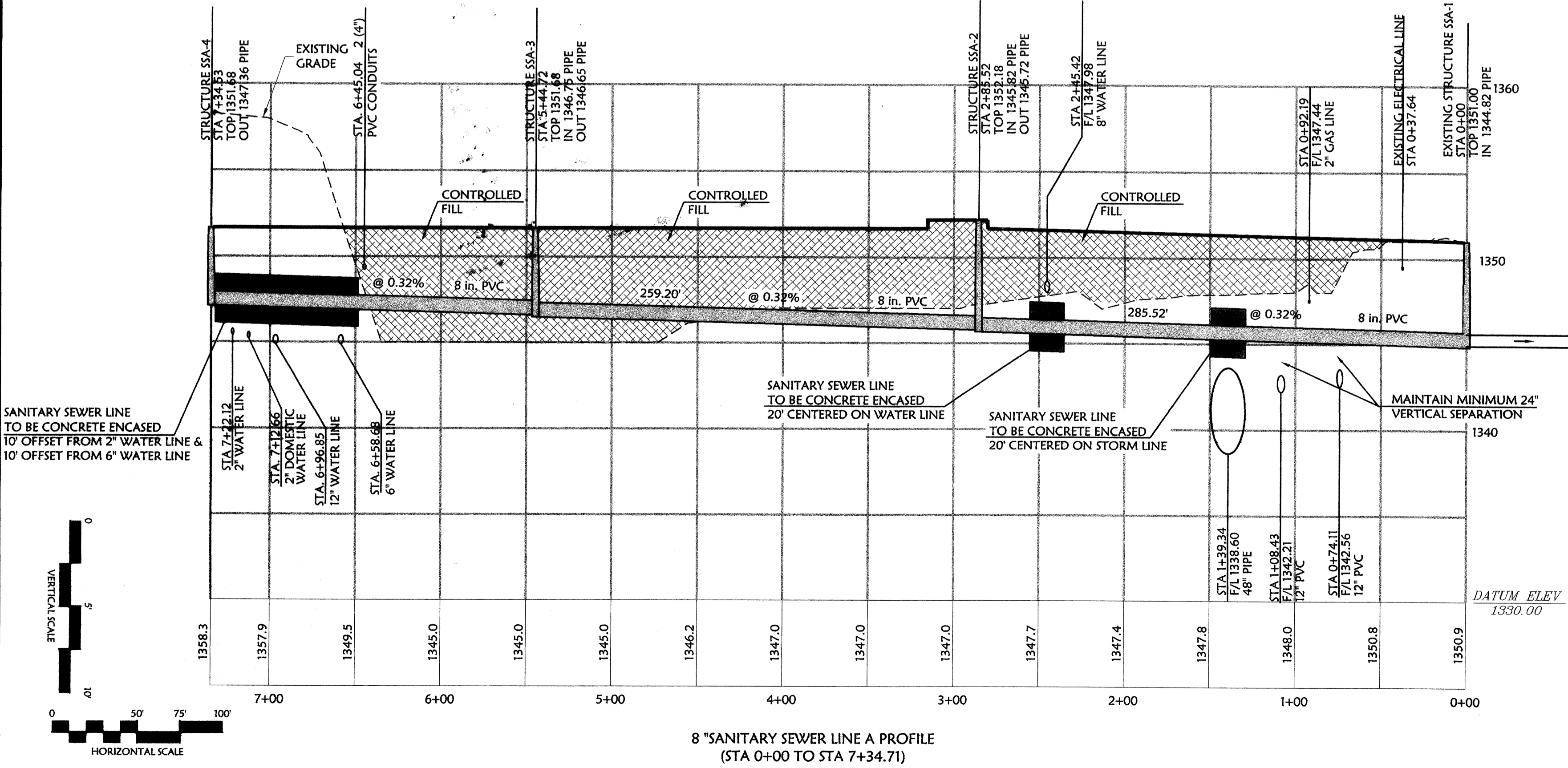
10

SANITARY SEWER SCHEDULE

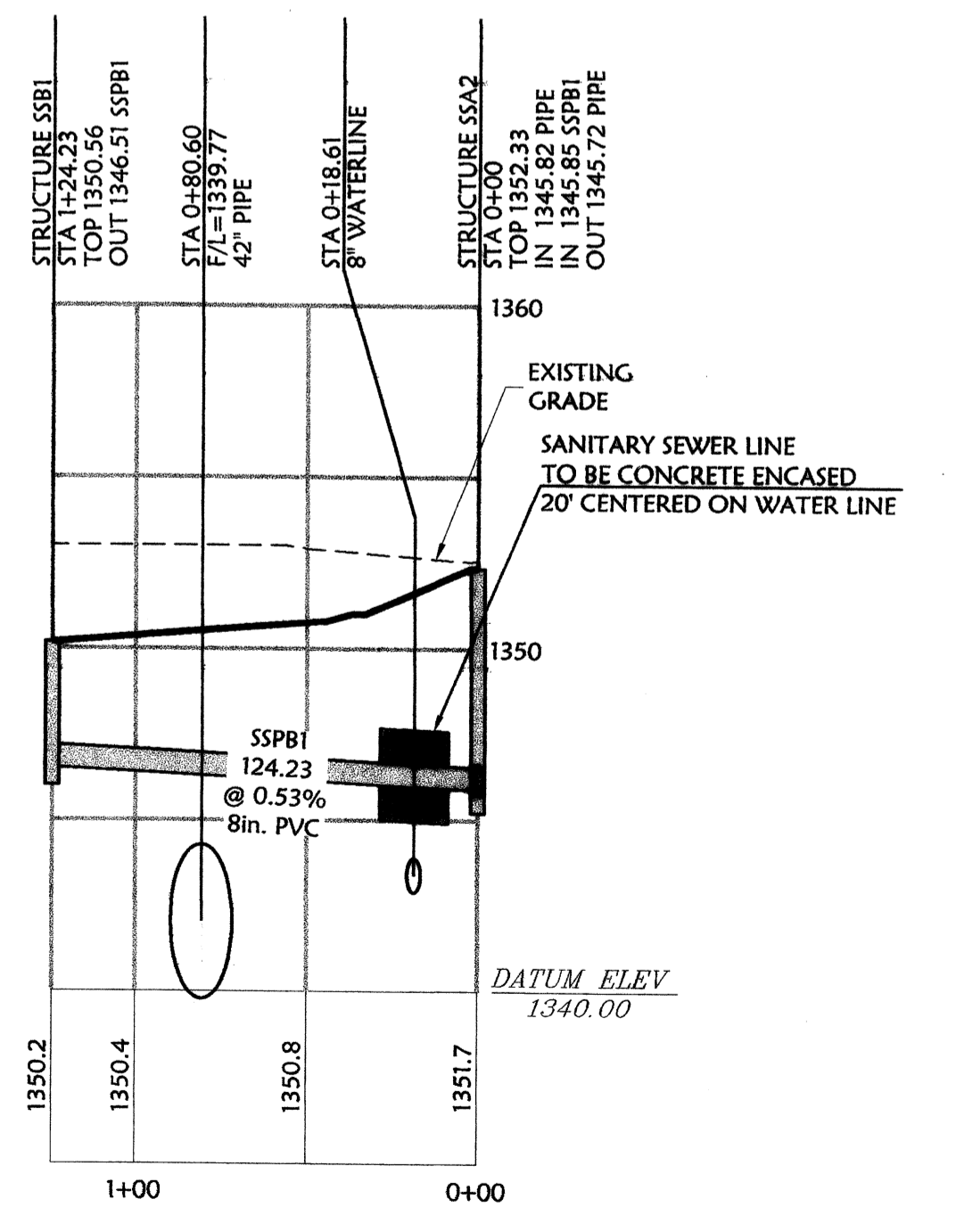
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF LID	DETAIL NUMBER	INV. IN (INLET & DIRECTION)	INV. IN (W/PIPE & DIRECTION)	INV. IN (OUTLET & DIRECTION)	PIPE NUMBER	PIPE LENGTH & SLOPE
SSAS	CONNECTION TO BUILDING					1348.00	SSPA	51 LF @ 1.00%
SSA4	PROPOSED MANHOLE	1351.68	D100	1347.46	8" PIPE	1347.36	SSPA	100 LF @ 0.32%
SSA3	PROPOSED MANHOLE	1351.68	D100	1346.75	8" PIPE	1346.65	SSPA	239 LF @ 0.32%
SSA2	PROPOSED MANHOLE	1352.18	D100	1348.82	8" PIPE	1348.72	SSPA	286 LF @ 0.32%
SSA1	EXISTING MANHOLE	1351.00		1348.82	8" PIPE			
SSB1	PROPOSED MANHOLE	1350.56	D100			1346.51	SSPB	24 LF @ 0.33%

UTILITY GENERAL NOTES:

ALL WATER LINES SHALL HAVE A MINIMUM OF 3'-0" COVER ABOVE TOP OF PIPE.
ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM COVER OF 3'-0" COVER ABOVE TOP OF PIPE.
PROPOSED UTILITIES TO BE BURIED IN THE SAME TRENCH INSTALLATION SHALL BE COORDINATED AND APPROVED BY LOCAL UTILITY COMPANIES.
VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTING PROPOSED UTILITY.
CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TWENTY FOUR INCHES (24"). IF WATER IS NOT 24" ABOVE SEWER, THE SEWER SHALL BE CONCRETE ENCASED TO EACH DIRECTION FROM WATERLINE.
ALL TRENCHING, PIPE LAYING, AND BACK FILLING PROCEDURES SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY FORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE ABOVE UTILITIES, THE CONTRACTOR SHALL VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CLARK CIVIL ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CLARK CIVIL ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL (D126 ADDS DETAIL SHEETS), OR APPROVED EQUIVALENT ANCHOR.
ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL (D126 SEE DETAIL SHEETS).
ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL (D126 SEE DETAIL SHEETS).
CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY CONSTRUCTION DIVISION TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON THIS PROJECT.
CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THESE PLANS. CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM OR DESIGNATED UTILITY COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING SPRING OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER FLAGGING AND PUMPING EQUIPMENT NECESSARY TO AVOID SPILLAGE. CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS.
THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORD AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY REVISIONS SHALL BE MADE BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION WORK WHICH IS REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
CONTRACTOR SHALL MATCH TOP OF PROPOSED SANITARY SEWER MANHOLE TO PROPOSED GRADE, IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOP, THE GRADING SHALL CONTROL. IF THE DISCREPANCY IS MORE THAN 4" INCHES THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S OR THE GOVERNING AGENCY'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
IF SANITARY SEWER MANHOLE IS LOCATED IN A GRASS AREA OR SLOPE, CONTRACTOR SHALL CONSTRUCT MANHOLE TOP TO AN ELEVATION 6" HIGHER THAN THE PROPOSED GRADE. IF THIS CANNOT BE ACHIEVED THEN CONTRACTOR SHALL USE A WATER TIGHT MANHOLE COVER THAT MEETS OR EXCEEDS THE OWNER'S/DEVELOPER'S STANDARD SITE SPECIFICATIONS.
ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.
CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ARCHITECT SHOULD ANY LIGHT POLE OR SIGN FOUNDATIONS CONFLICT WITH ANY UTILITY AND/OR STORM SEWER SYSTEM.
GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 4" THICK CONCRETE AREAS AT ALL CLEANOUTS, GATE VALVES, AND METER BOXES ETC. OUTSIDE OF BUILDING AND IN PAVED AREAS.
GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND, FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY GENERAL CONTRACTOR.
UTILITY CONTRACTOR SHALL FURNISH (2) - 4" TELEPHONE CONDUITS AS SHOWN ON PLAN, VERIFY LOCATION OF THE IN AT TELEPHONE COMPANIES SERVICE LINE, PROVIDE IN-TRENCH FIBER OPTIC CONDUIT.
DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING UNLESS OTHERWISE NOTED.
ALL WATER AND SANITARY LEADS TO BUILDING SHALL END" OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY FLUX AT END. DISPOST THE FIBER LINE SHOULD BE STUBBED UP 7" ABOVE F.F.E.
ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE ANCHORED AT MAIN PER CITY DETAIL.
REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD IN FIRE LINE SHOULD BE STUBBED UP 7" ABOVE F.F.E. IN SPRINKLER ROOM.
REFER TO PLUMBING SHEETS FOR LOCATION OF SEWER, DOMESTIC, AND IRRIGATION CONNECTIONS
ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH DIVISION 2 OF LOWE'S STANDARD SITE SPECIFICATIONS.



8" SANITARY SEWER LINE A PROFILE
(STA 0+00 TO STA 7+34.71)



8" SANITARY SEWER LINE B PROFILE
(STA 0+00 TO STA 1+24.23)

