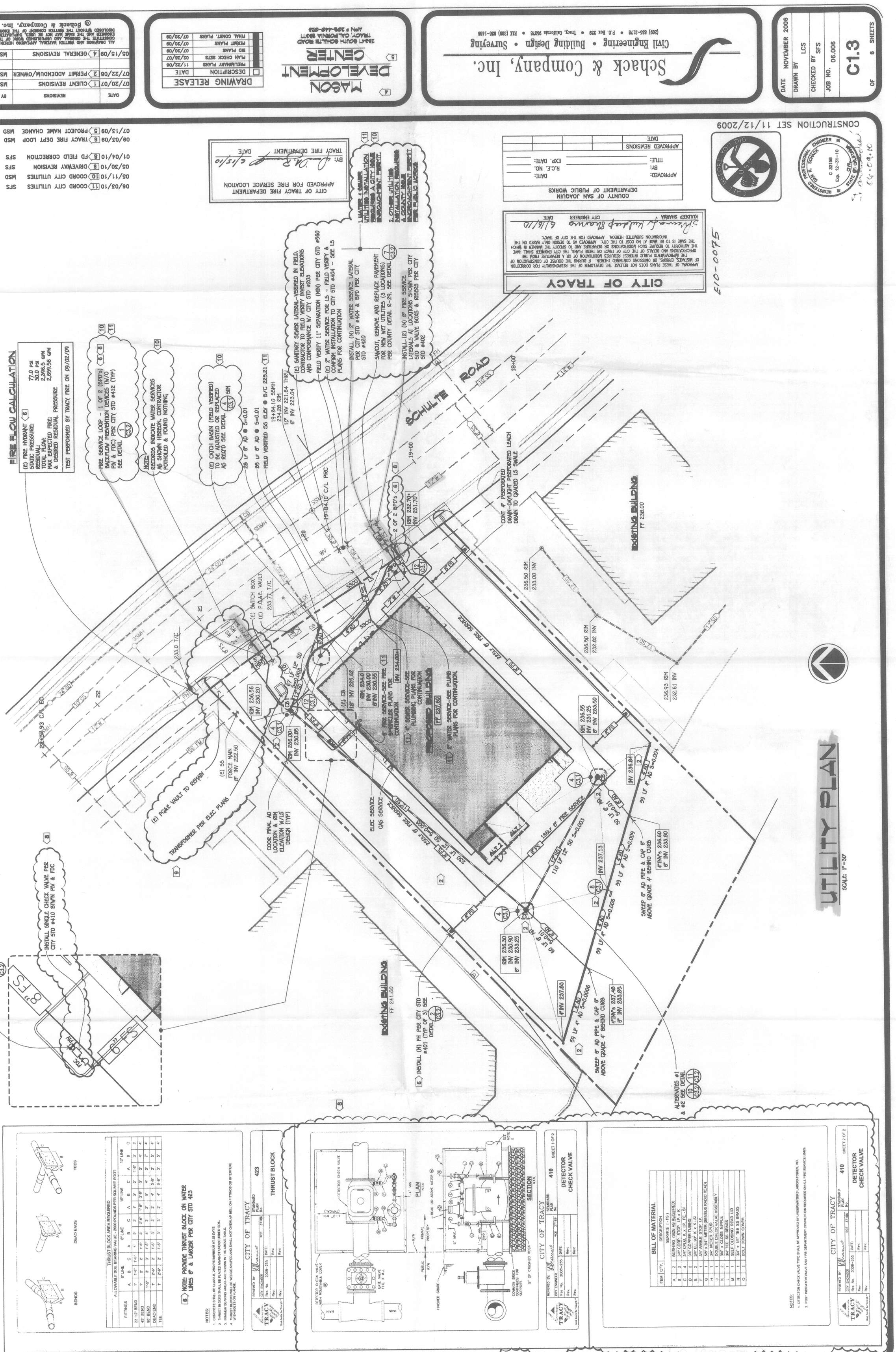
UTILITY PLAN
SCALE: 1"=30'
SCHULTE ROAD
EXISTING BUILDING
FIRE FLOW CALCULATION
(E) FIRE HYDRANT 6
STATIC PRESSURE: 77.0 PSI
RESIDUAL: 50.0 PSI
TOTAL FLOW: 2,396.5 GPM
MAX EXPECTED FIRE: 2,659.56 GPM
& DESIRED RESIDUAL PRESSURE
TEST PERFORMED BY TRACY FIRE ON 09/02/09
FIRE SERVICE LOOP - 1 OF 2 (BPD's) 6 8
BACKFLOW PREVENTION DEVICES (W/O PIV & FDC) PER CITY STD #412 (TYP)
SEE DETAIL 1 C3.7
NOTE: RECORDS INDICATE WATER SERVICES AS SHOWN HEREON. CONTRACTOR POTHOLED & FOUND NOTHING
(E) CATCH BASIN (FIELD VERIFIED) TO BE ADJUSTED OR REPLACED AS REQ'D SEE DETAIL 4 C3.7 SIM
29 LF 6" AD @ S=0.01
95 LF 6" AD @ S=0.01
FIELD VERIFIED SS ELEV @ S/C 225.21
19+84.10 SSMH 234.28 RIM
10" INV 221.64 THRU 6" INV 223.04
(E) SANITARY SEWER LATERAL-VERIFIED IN FIELD. CONTRACTOR TO FIELD VERIFY INVERT ELEVATIONS AND CONFORMANCE W/ CITY STD #203
FIELD VERIFY 11' SEPARATION (MIN) PER CITY STD #560
(E) 2" WATER SERVICE FOR L5 - FIELD VERIFY & CONFIRM INSTALLATION TO CITY STD #404 - SEE L5 PLANS FOR CONTINUATION
INSTALL (N) 2" WATER SERVICE LATERAL PER CITY STD #404 & BPD PER CITY STD #420
SAWCUT, REMOVE AND REPLACE PAVEMENT FOR NEW WET UTILITIES (3 LOCATIONS) PER COUNTY DETAIL R-29, SEE DETAIL 7 C3.7
INSTALL (2) (N) 6" FIRE SERVICE LATERALS AT LOCATIONS SHOWN PER CITY STD & VALVE BOXES & RISERS PER CITY STD #402
1. WATER & SEWER UTILITIES INSTALLATION REQUIRES A CITY WATER ENCROACHMENT PERMIT FOR PUBLIC WORKS
2. CITY OF TRACY UTILITIES INSTALLATION REQUIRES A COUNTY WATER ENCROACHMENT PERMIT FOR PUBLIC WORKS
CONT 4" PERFORATED DRAIN-DAYLIGHT PERFORATED LEACH DRAIN TO GRADED L5 SWALE
(E) PG&E VAULT TO REMAIN
TRANSFORMER PER ELEC PLANS
(E) 55 FORCE MAIN 6" INV 222.50
(E) SWITCH BOX P.G.&E. VAULT 233.77 T/C
COORD FINAL AD LOCATION & RIM ELEVATION W/LS DESIGN (TYP)
ELEC SERVICE
GAS SERVICE
PROPOSED BUILDING
FF 237.50
6" FIRE SERVICE-SEE SPRINKLER PLANS FOR CONTINUATION
1" SERVICE SERVICE-SEE PLUMBING PLANS FOR CONTINUATION
1" WATER SERVICE-SEE PLUMB PLANS FOR CONTINUATION.
RIM 234.0 INV 230.00 6"INV 230.95
RIM 236.56 INV 230.20
RIM 236.00± INV 230.85
RIM 236.55 INV 231.25 6" INV 233.50
RIM 236.30 INV 230.90 6" INV 233.25
RIM 232.70± INV 231.70
INV 236.84
INV 237.13
INV 237.83
6"INV's 237.40 6" INV 233.85
6"INV's 236.60 6" INV 233.80
SWEEP 6" AD PIPE & CAP 6" ABOVE GRADE 4' BEHIND CURB
ALTERNATES #1 & #2 SEE DETAIL 10 C3.7 11 C3.7
INSTALL (N) FH PER CITY STD #401 (TYP OF 3) SEE DETAIL 2 C3.7
INSTALL SINGLE CHECK VALVE PER CITY STD #410 BTW'N PIV & FDC
FDC & PIV PER CITY STD #412 6
SEE DETAIL 1 C3.7
8" FS
6" FS
236.50 RIM 232.82 INV
236.50 RIM 233.00 INV
236.93 RIM 232.61 INV
233.0 T/C
233.93 C/L EG
19+00
18+00
19+84.10 C/L PRC
2 OF 2 BPD's 6 8
CONCRETE BUILDING
FF 238.00
EXISTING BUILDING
FF 241.00
ALT 1
ALT 2
230 LF 12" SD S=0.005
110 LF 12" SD S=0.003
50 LF 12" SD S=0.004
57 LF 12" SD S=0.004
59 LF 4" AD S=0.0006
59 LF 4" AD S=0.009
59 LF 4" AD S=0.004
30 LF 6" AD S=0.01
60 LF 6" AD S=0.01
186 LF 6" FIRE SERVICE
250 LF 6" FIRE SERVICE
THRUST BLOCK AREA REQUIRED
ALLOWABLE SOIL BEARING VALUE - 2500 POUNDS PER SQUARE FOOT
FITTINGS | 6" LINE A B C | 8" LINE A B C | 10" LINE A B C | 12" LINE A B C
22 1/2° BEND 1' 1'-6" 1'-6" 1' 2' 2' 1' 3' 2' 1'-6" 3' 3'
45° BEND 1' 2' 2' 1'-6" 3' 3' 2'-6" 1'-6" 3'-6" 3' 2' 4' 4'
90° BEND 1'-6" 3' 3' 1'-6" 4' 3' 3' 2' 5' 4' 2' 7' 4'
DEAD END 1' 2'-6" 2' 1'-6" 3' 3' 3' 2' 4' 3'-6" 2' 5' 4'
BENDS
DEAD ENDS
TEES
6 NOTE: PROVIDE THRUST BLOCK ON WATER LINES 6" & LARGER PER CITY STD 423
NOTES:
1. CONCRETE SHALL BE CLASS B, 2500 PSI MINIMUM AT 28 DAYS.
2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
3. MINIMUM BEARING AREAS ARE SHOWN IN THE ABOVE TABLE.
4. THRUST BLOCKS WILL BE WEDGE SHAPED AND SHALL NOT OVERLAP BELL OR FITTINGS OR INTERFERE WITH BOLTS OR VALVE.
CITY OF TRACY
STANDARD PLAN No. 423
THRUST BLOCK
DETECTOR CHECK VALVE WITH REMOVABLE COVER
GATE VALVE TYP. X MJ.
MAIN
PLAN N.T.S.
DETECTOR CHECK VALVE
READ LID ABOVE METER
PRIVATE PROPERTY
PUBLIC R/W
FINISHED GRADE
COMMON BRICK CONTINUOUS FOR SUPPORT
5" OF CRUSHED ROCK
SEE NOTE 2
SECTION N.T.S.
CITY OF TRACY
STANDARD PLAN No. 410 SHEET 1 OF 2
DETECTOR CHECK VALVE
BILL OF MATERIAL
ITEM | QTY. | DESCRIPTION
SERVICE (-FS)
A 2 BUSHING (SIZE AS REQUIRED)
B 2 3/4" CORP. STOP, I.P. x K
C 4 3/4" CPLG, K x I.P. PE - SI
D 2 3/4" COPPER TUBING
E 2 3/4" ELL 90° K x K - SI
F 1 5/8" x 3/4" METER (SENSUS RADIO READ)
G 1 3/4" METER SPUD
H 1 DOUBLE CHECK VALVE ASSEMBLY
J 1 3/4" x CLOSE NIPPLE
K 2 3/4" TEE SS BRASS
L 1 SELF CLOSING READ LID
M 1 3/4" x 1/4" TEE SS BRASS
N 1 BOLT DOWN COVER
O 1
NOTES:
1. DETECTOR CHECK VALVE TYPE SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC.
2. POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION REQUIRED ON ALL FIRE SERVICE LINES.
CITY OF TRACY
STANDARD PLAN No. 410 SHEET 2 OF 2
DETECTOR CHECK VALVE
CITY OF TRACY
APPROVAL OF THESE PLANS DOES NOT RELEASE THE DEVELOPER OF THE RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION THE IMPROVEMENTS PUBLIC INTEREST REQUIRES MODIFICATION OF OR A DEPARTURE FROM THE SPECIFICATIONS AND DETAILS OF THE CITY OF TRACY OR THESE PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE AT NO COST TO THE CITY. APPROVED AS TO DESIGN ONLY BASED ON THE INFORMATION SUBMITTED HEREON. APPROVED FOR THE CITY OF TRACY.
KULDEEP SHARMA CITY ENGINEER DATE
COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS
APPROVED: DATE:
BY: R.C.E. NO.
TITLE: EXP. DATE:
APPROVED REVISIONS
DATE
CITY OF TRACY FIRE DEPARTMENT
APPROVED FOR FIRE SERVICE LOCATION
BY: 6/15/10
TRACY FIRE DEPARTMENT DATE
CALL BEFORE YOU DIG USA
REGISTERED PROFESSIONAL ENGINEER DAN R. SCHACK C 32158 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA
CONSTRUCTION SET 11/12/2009
E10-0075
06/03/10 11 COORD CITY UTILITIES SFS SFS
05/11/10 10 COORD CITY UTILITIES MSD SFS
05/30/10 9 DRIVEWAY REVISION SFS SFS
01/04/10 8 FD FIELD CORRECTION SFS SFS
09/03/09 6 TRACY FIRE DEPT LOOP MSD SFS
07/13/09 5 PROJECT NAME CHANGE MSD SFS
07/20/07 1 CLIENT REVISIONS MSD SFS
07/22/08 2 PERMIT ADDENDUM/OWNER MSD SFS
05/15/09 4 GENERAL REVISIONS MSD SFS
DATE REVISIONS BY APP'D BY
MASON DEVELOPMENT CENTER
24647 SOUTH SCHULTE ROAD
TRACY, CALIFORNIA 95377
APN # 209-440-023
DRAWING RELEASE
DESCRIPTION DATE
PRELIMINARY PLANS 11/22/06
PLAN CHECK SETS 02/26/07
BID PLANS 07/20/09
PERMIT PLANS 07/20/09
FINAL CONST. PLANS 07/20/09
Schack & Company, Inc.
Civil Engineering • Building Design • Surveying
(209) 836-2178 • P.O. Box 339 • Tracy, California 95378 • FAX (209) 836-1466
DATE NOVEMBER 2006
DRAWN BY LCS
CHECKED BY SFS
JOB NO. 06.006
C1.3
OF 8 SHEETS
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