

three inches = one foot  
one and one-half inch = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot

GRADING, DRAINAGE AND UTILITY PLANS  
FOR  
DEPARTMENT OF VETERAN AFFAIRS  
VA-258-P-0196  
AMARILLO, TEXAS



VICINITY MAP  
N.T.S.

**OWNER:**  
U.S. DEPARTMENT OF VETERANS AFFAIRS  
VISN18  
6010 AMARILLO BLVD WEST  
AMARILLO, TEXAS 79106  
PHONE: (806) 354-7847  
FAX: (806) 354-7849  
CONTACT: DAVE READ

**CIVIL ENGINEER:**  
BRODERICK ENGINEERING  
6859 E. REMBRANDT AVE SUITE 124  
MESA, ARIZONA 85212  
PHONE: (480) 926-6333 EXT 205  
FAX: (480) 926-3999  
CONTACT: JEFF WIMMER

**BENCHMARK (SURVEY CONTROL KEY)**  
CONTROL POINT 1  
BOX W/"X" CUT ON TOP OF CURB  
NORTHING 5000.00  
EASTING 5000.00  
ELEVATION = 3649.35 (NAVD 88)

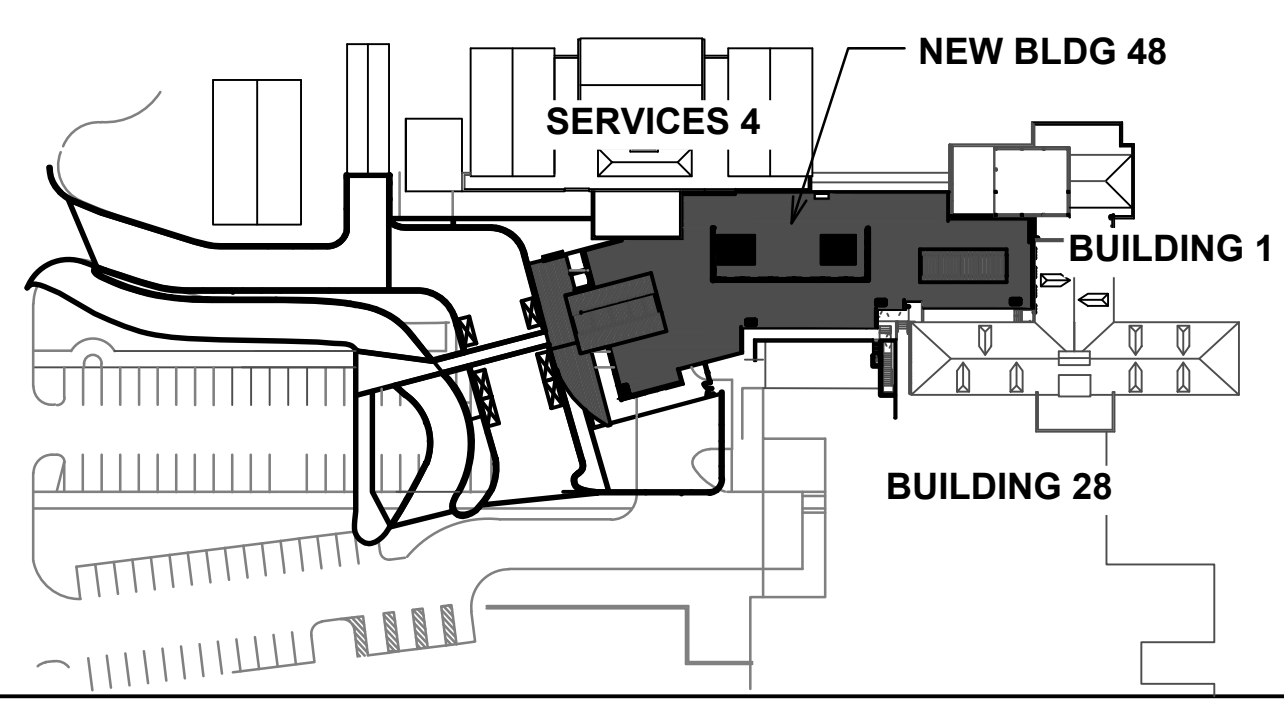
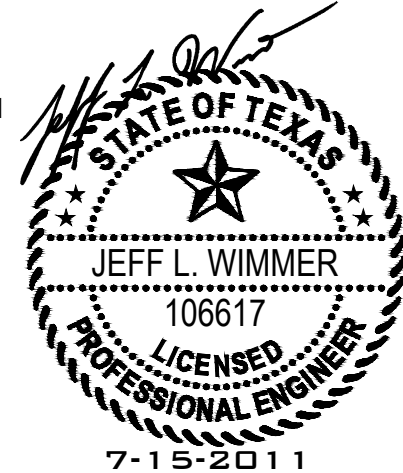
THE GEODETIC COORDINATE SHOWN HEREON WAS  
DETERMINED BY G.P.S. OBSERVATIONS USING THE TEXAS  
HIGHWAY DEPARTMENT'S CORS AMARILLO RRP AS A FIXED  
STATION.

**SHEET INDEX:**  
48-GS-1.1 COVER SHEET  
48-GS-1.2 GRADING AND DRAINAGE PLAN  
48-GS-1.3 GRADING AND DRAINAGE PLAN  
48-GS-1.4 WATER AND SEWER PLAN  
48-GS-1.5 CIVIL DETAILS  
48-GS-1.6 CIVIL DETAILS  
48-GS-1.7 CROSS SECTIONS  
48-GS-1.8 CROSS SECTIONS

B.E.L. JOB NO. 10-111

**BRODERICK  
ENGINEERING  
L.L.C.**

**CIVIL & STRUCTURAL ENGINEERS**  
6859 E. REMBRANDT AVE. SUITE 124  
MESA, AZ 85212  
PH 480-926-6333  
FAX 480-926-3999



KEY PLAN

**BRODERICK ENGINEERING STANDARD ENGINEERING NOTES**

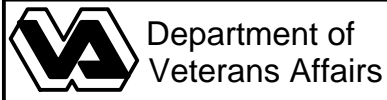
- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST APPLICABLE MUNICIPALITY AND/OR JURISDICTION OF GOVERNMENT'S STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE SOIL INVESTIGATION REPORT OR LETTER, AS PREPARED BY CORNERSTONE TESTING & ENGINEERING INC., PHONE NO. (806)374-8378, PROJECT NO. 15333, DATED SEPTEMBER 27, 2010.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING. PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION, SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY AND BY A PRIVATE UTILITY LOCATOR. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT TO BE CONSIDERED ACCURATE FOR CONSTRUCTION PURPOSES. CALL TEXAS "ONE CALL FOR FIELD LOCATION AT 811 OR (800) 245-4848. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, ETC.).
- ALL UNDERGROUND UTILITIES SHALL BE FULLY MARKED BY PUBLIC AGENCIES AND AS NEEDED, A PRIVATE UTILITY COMPANY PRIOR TO COMMENCING CONSTRUCTION RELATED ACTIVITIES.

CONTEXT MAP  
N.T.S.

**SYMBOL LEGEND**

- NEW DOMESTIC WATER
- NEW FIRE LINE
- NEW SEWER LINE
- NEW STORM DRAIN LINE
- NEW STORM DRAIN STRUCTURE
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW CANOPY FOOTING AND LOCATIONS
- GRADE BREAK LINE
- PROPOSED DRAINAGE FLOW AND SLOPE
- EXISTING GAS OR OXYGEN
- EXISTING WATER
- EXISTING STORM DRAIN
- EXISTING COMMUNICATIONS
- EXISTING ELECTRIC
- EXISTING SEWER
- EXISTING STEAM TUNNEL
- SOIL BORE LOCATION
- EXISTING PARKING/AREA LIGHT
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING TREES
- EXISTING ELECTRIC MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- POTHOLE LOCATION

VA-258-P-0196



ARCHITECT OF RECORD:

**SBBL Architecture + Planning**  
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T 520.620.0535 F 520.620.0535 E info@sbbllaz



EMERGENCY  
DEPARTMENT

AMARILLO VA HEALTH CARE SYSTEM  
AMARILLO, TEXAS

Approved: VA Area Proj. Mgr.

V.A. PROJECT NO: VA258-P-0196

SBBL PROJECT NO:1010

DRAWN BY: MPZ

CHECKED BY: JLW

DATE: 07/15/2011

Date	Revision

Approved: Med. Ctr. Director

Approved: Asst. Admin  
Engineering Service

Approved: Asst. VA Medical  
Director

Approved: Chief of Facilities

Approved: Chief of Engineering

Approved: Chief of Projects

CIVIL COVER  
SHEET

48-GS-1.1