FUEL STORAGE TANK REPLACEMENT

BRYAN, TX 77803

PREPARED FOR

AT&T CORPORATE
REAL ESTATE

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CIVIL / ARCHITECTURAL

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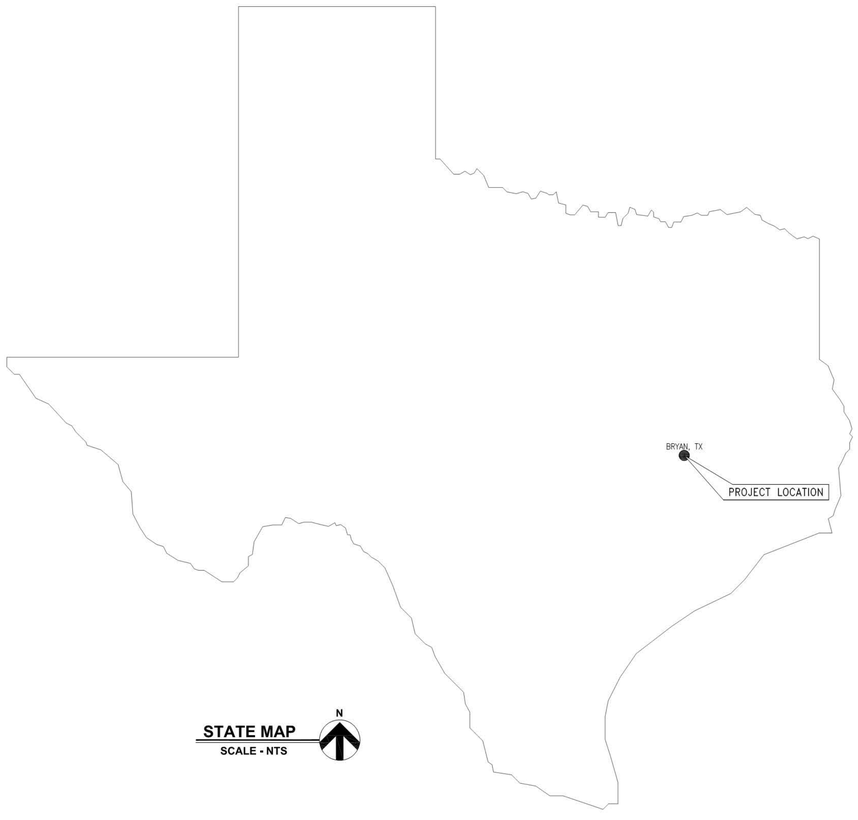
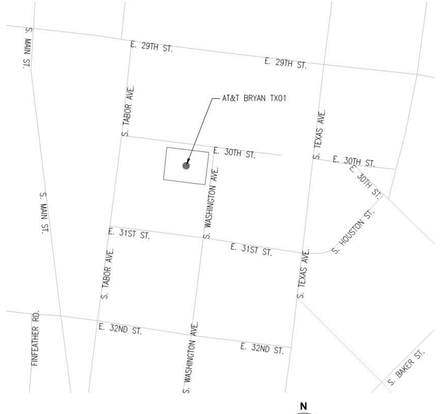


STATE MAP
SCALE - NTS



VICINITY MAP
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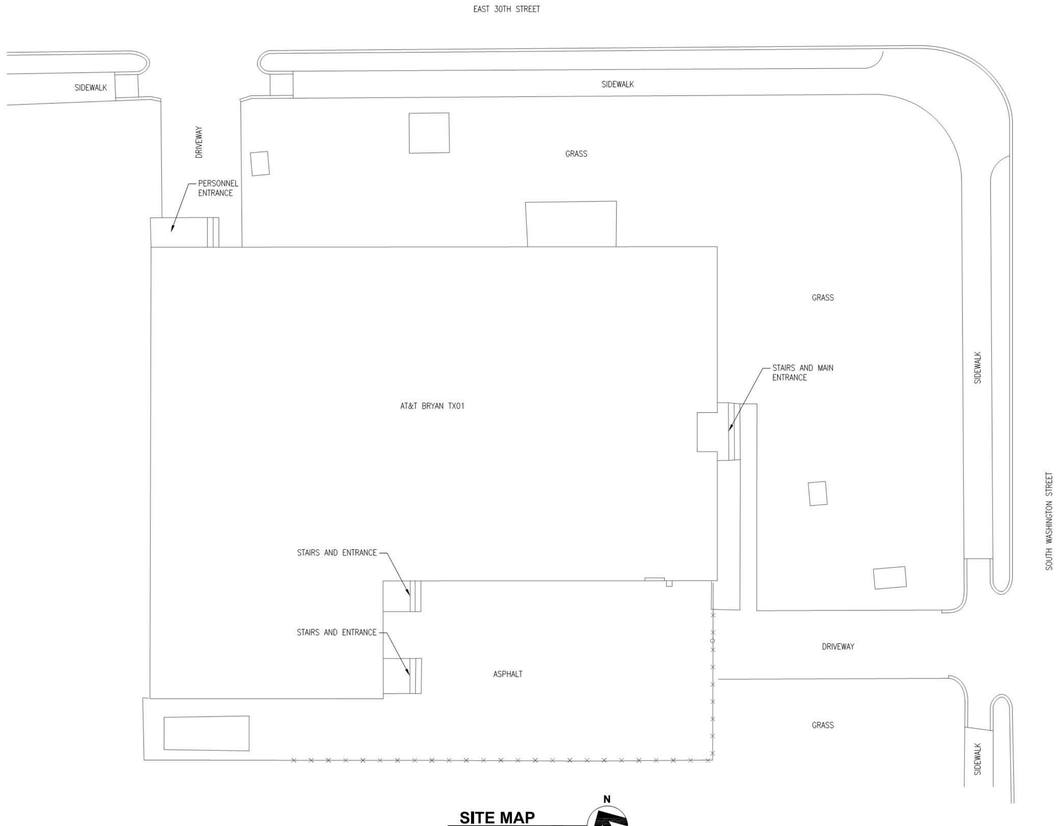

SITE MAP
SCALE - NTS

ALL SCALES ARE INDICATED FOR "E1" SIZE DRAWINGS.

at&t

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AT&T PROJECT NUMBER	AT&T AUTHORIZATION
GEOLOC #	RUBEN MARTINEZ AT&T PROJECT MANAGER

△	Issue	Date & Issue Description	By	Check
1	12/20/13	ISSUED FOR REVIEW	S.H.	S.H.
2	02/06/14	ISSUED FOR REVIEW	S.H.	S.H.
3	02/28/14	ISSUED FOR REVIEW	S.H.	A.W.
4	03/28/14	ISSUED FOR PERMIT, PRICING & CONSTRUCTION	S.H.	J.G.

Seal/Signature

Project Name
AT&T BRYANTX01

Project Number
151394

CAD File Name
K:\PROJECTS\151394_BRYAN ATT\CAD FILES\-WORKING

Description
TITLE PAGE AND DRAWINGS INDEX

Scale
AS-NOTED

COVER

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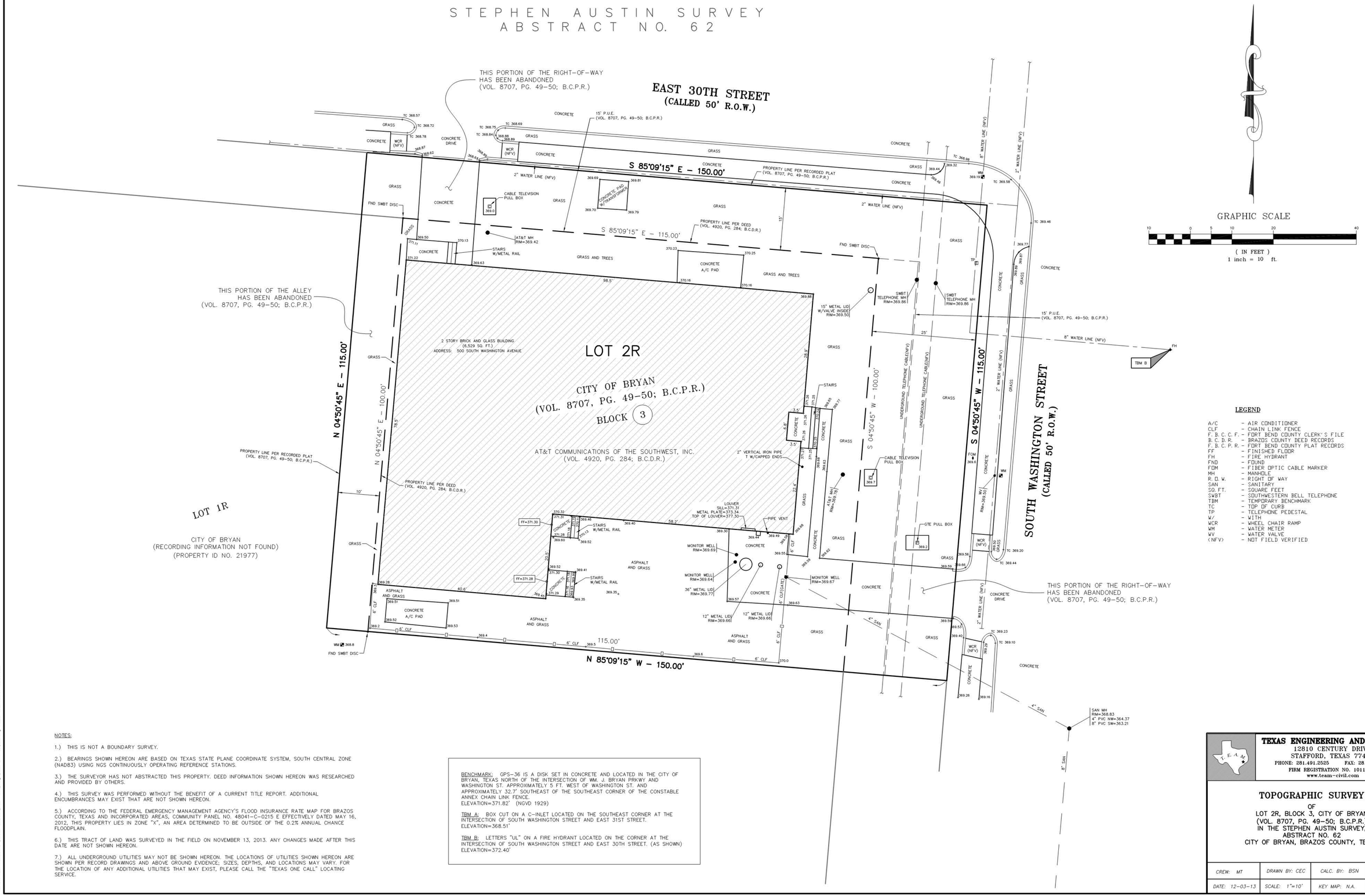
STEPHEN AUSTIN SURVEY
ABSTRACT NO. 62



LEGEND

A/C	- AIR CONDITIONER
CLF	- CHAIN LINK FENCE
F. B. C. C. F.	- FORT BEND COUNTY CLERK'S FILE
B. C. D. R.	- BRAZOS COUNTY DEED RECORDS
F. B. C. P. R.	- FORT BEND COUNTY PLAT RECORDS
FF	- FINISHED FLOOR
FH	- FIRE HYDRANT
FND	- FOUND
FOM	- FIBER OPTIC CABLE MARKER
MH	- MANHOLE
R. O. W.	- RIGHT OF WAY
SAN	- SANITARY
SQ. FT.	- SQUARE FEET
SWBT	- SOUTHWESTERN BELL TELEPHONE
TBM	- TEMPORARY BENCHMARK
TC	- TOP OF CURB
TP	- TELEPHONE PEDESTAL
W/	- WITH
WCR	- WHEEL CHAIR RAMP
WM	- WATER METER
WV	- WATER VALVE
(NFV)	- NOT FIELD VERIFIED

NOTES:

1.) THIS IS NOT A BOUNDARY SURVEY.

2.) BEARINGS SHOWN HEREON ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (NAD83) USING NGS CONTINUOUSLY OPERATING REFERENCE STATIONS.

3.) THE SURVEYOR HAS NOT ABSTRACTED THIS PROPERTY. DEED INFORMATION SHOWN HEREON WAS RESEARCHED AND PROVIDED BY OTHERS.

4.) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. ADDITIONAL ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.

5.) ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR BRAZOS COUNTY, TEXAS AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48041-C-0215 E EFFECTIVELY DATED MAY 16, 2012, THIS PROPERTY LIES IN ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

6.) THIS TRACT OF LAND WAS SURVEYED IN THE FIELD ON NOVEMBER 13, 2013. ANY CHANGES MADE AFTER THIS DATE ARE NOT SHOWN HEREON.

7.) ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN HEREON. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE SHOWN PER RECORD DRAWINGS AND ABOVE GROUND EVIDENCE; SIZES, DEPTHS, AND LOCATIONS MAY VARY. FOR THE LOCATION OF ANY ADDITIONAL UTILITIES THAT MAY EXIST, PLEASE CALL THE "TEXAS ONE CALL" LOCATING SERVICE.

BENCHMARK: GPS-36 IS A DISK SET IN CONCRETE AND LOCATED IN THE CITY OF BRYAN, TEXAS NORTH OF THE INTERSECTION OF WM. J. BRYAN PRKWY AND WASHINGTON ST. APPROXIMATELY 5 FT. WEST OF WASHINGTON ST. AND APPROXIMATELY 32.7' SOUTHEAST OF THE SOUTHEAST CORNER OF THE CONSTABLE ANNEX CHAIN LINK FENCE.
ELEVATION=371.82' (NGVD 1929)

TBM A: BOX CUT ON A C-INLET LOCATED ON THE SOUTHEAST CORNER AT THE INTERSECTION OF SOUTH WASHINGTON STREET AND EAST 31ST STREET.
ELEVATION=368.51'

TBM B: LETTERS "UL" ON A FIRE HYDRANT LOCATED ON THE CORNER AT THE INTERSECTION OF SOUTH WASHINGTON STREET AND EAST 30TH STREET. (AS SHOWN)
ELEVATION=372.40'

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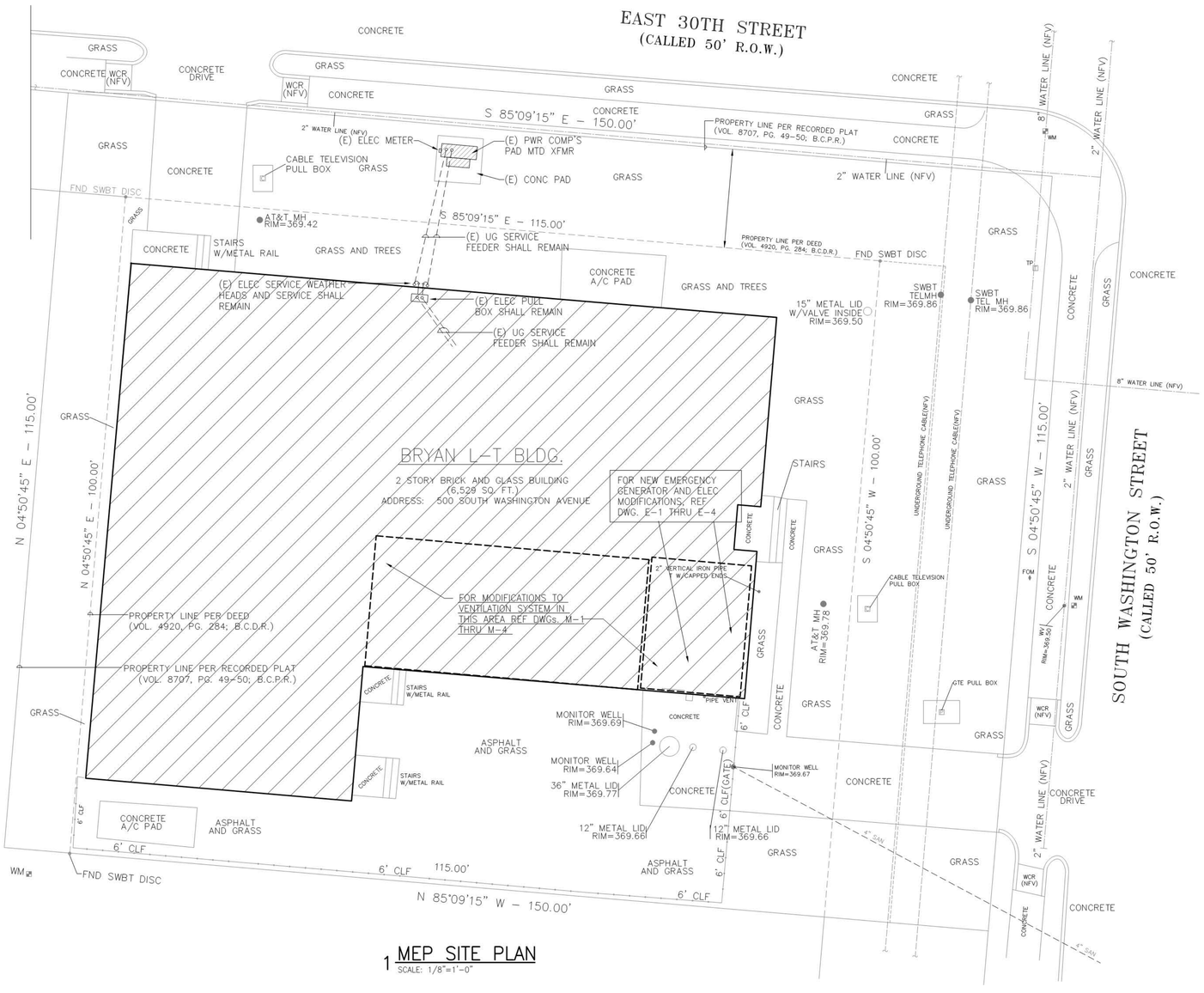
TOPOGRAPHIC SURVEY

OF
LOT 2R, BLOCK 3, CITY OF BRYAN
(VOL. 8707, PG. 49-50; B.C.P.R.)
IN THE STEPHEN AUSTIN SURVEY,
ABSTRACT NO. 62
CITY OF BRYAN, BRAZOS COUNTY, TEXAS

CREW: MT	DRAWN BY: CEC	CALC. BY: BSN	CK.BY: BSN
DATE: 12-03-13	SCALE: 1"=10'	KEY MAP: N.A.	JOB.NO.: 731-21

DRAWING INFO: F:\Work_TEAM\731-21\dwg\731-21_topo.dwg NOV 27, 2013 1:05 AM



1 MEP SITE PLAN
SCALE: 1/8"=1'-0"

AT&T

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AT&T PROJECT NUMBER 9311552 T18457	AT&T AUTHORIZATION RUBEN MARTINEZ
GEOLOC # TXJ260	AT&T PROJECT MANAGER

Issue	Date & Issue Description	By	Check
3/28/14	ISSUED FOR PRICING, PERMIT & CONSTRUCTION	S.D	M.D

Seal/Signature

STATE OF TEXAS
M. C. DABHI
42122
REGISTERED PROFESSIONAL ENGINEER
3/28/14

Project Name
BRYAN L-T POP BUILDING
BRYAN, TEXAS

Project Number 22.3180.000

CAD File Name D:/ACAD/AT&T/BRYAN L-T-2013

Description GENERATOR AND FUEL REPLACEMENT

MEP SITE PLAN

Scale AS NOTED

MEP-1

1 OF 11

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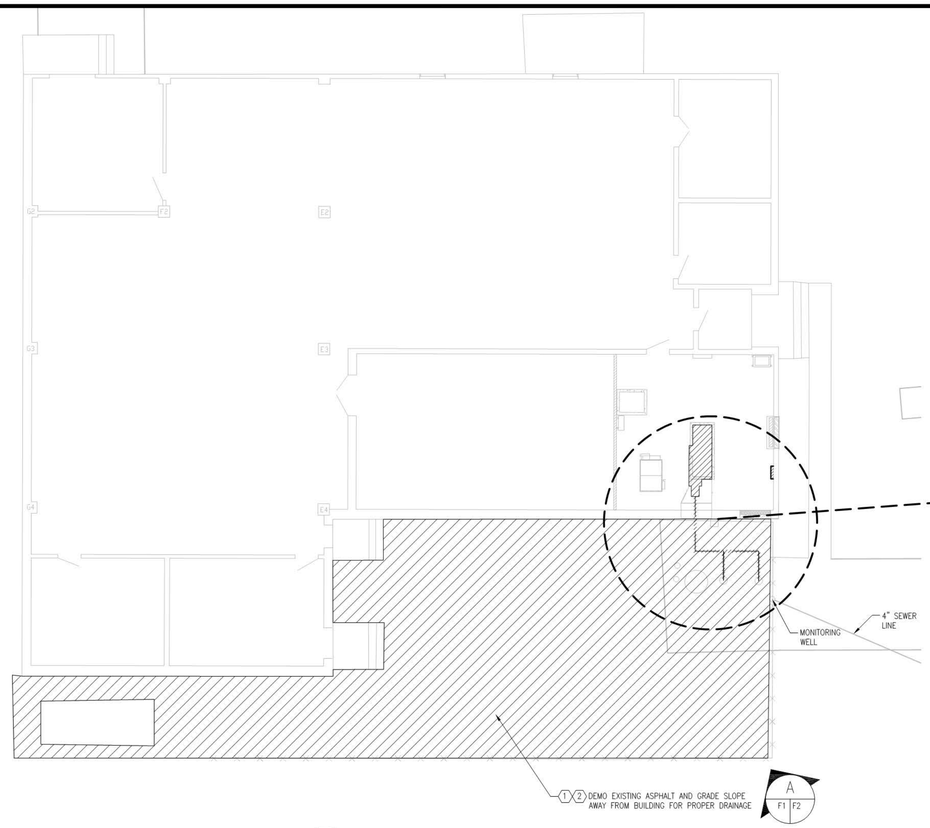
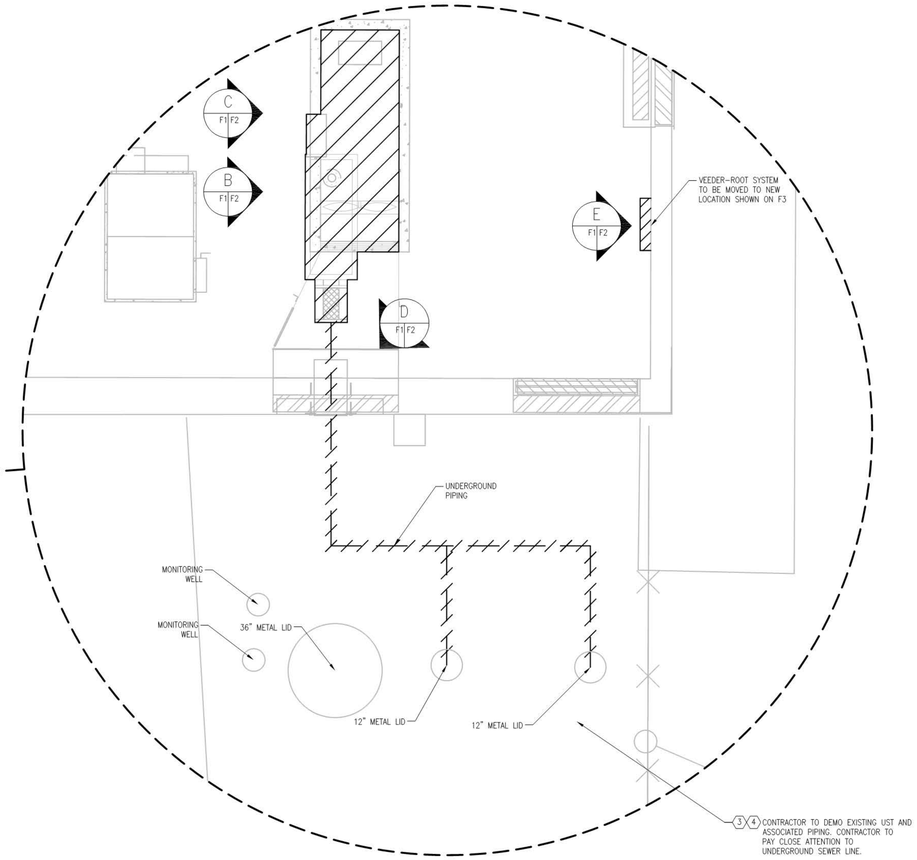
22.3180.000 AT&T BRYAN L-T POP - Generator and Fuel Replacement Project - 2013



A M-101 M-101 **DEMO PLAN**
SCALE 1/8" = 1'-0"



DEMO PLAN
SCALE - NTS

UNDERGROUND TANK DEMO & PIPE REMOVAL NOTES:

1. THE UNDERGROUND STORAGE TANK (UST) IS TO BE REMOVED ACCORDING TO ALL APPLICABLE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, AND IN ACCORDANCE WITH THE AT&T STANDARD FOR THE REMOVAL OF USTS AND RELATED PIPING COMPONENTS. THE FUEL SYSTEM REMOVAL GENERAL CONTRACTOR (GC) IS RESPONSIBLE FOR ALL NECESSARY FILINGS AND JURISDICTIONAL AGENCIES WITH THIS PROJECT. ALL NOTIFICATIONS ARE TO BE SENT CERTIFIED MAIL.

2. PRE-CONSTRUCTION

A. COMPLETE A CONSTRUCTION NOTIFICATION FORM (TCEQ-0495) AND SUBMIT IT TO THE TCEQ REGISTRATION AND SELF-CERTIFICATION TEAM AT LEAST 30 DAYS PRIOR TO UST REMOVAL.

B. MAKE ALL NECESSARY TELEPHONE CONTACTS AND OBTAIN WORK NUMBERS FROM AT&T CENTRAL SECURITY, NETWORK OPERATIONS CENTER, AND ENVIRONMENTAL MONITORING ALARM CENTER.

C. CALL THE LOCAL TCEQ REGIONAL OFFICE 24 TO 72 HOURS IN ADVANCE OF INITIATING CONSTRUCTION ACTIVITIES.

D. NOTIFY THE LOCAL FIRE MARSHAL OF THE PENDING UST REMOVAL ACTIVITIES AT LEAST ONE WEEK BEFORE THE TANKS ARE REMOVED.

E. CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES LOCATED BY THE STATE'S ONE CALL SYSTEM AND ALSO PREPARE AN EXCAVATION M.O.P. AND VERIFY LOCATIONS OF BURIED UTILITIES SHOWN ON THESE FIGURES AND AS PREVIOUSLY MARKED ON THE GROUND SURFACE. THE D&C PROJECT MANAGER WILL OBTAIN SIGNATURE AND APPROVAL AUTHORIZATIONS FROM THE FOLLOWING PERSONS BEFORE THE PROJECT COMMENCES:

-CONTRACTOR'S PROJECT MANAGER

-CONTRACTOR'S ON-SITE SUPERVISOR

-AT&T EH&S MANAGER

-AT&T PROPERTY MANAGER

-AT&T INSTALLATION AND REPAIR MANAGER

-AT&T ENGINEER COMMON SYSTEMS

-AT&T NETWORK MANAGER

3. PROJECT PREPARATION

A. AT THIS POINT, ALL NOTIFICATIONS SHOULD HAVE BEEN MADE, AND THE LOCAL FIRE MARSHAL AND TCEQ REPRESENTATIVE SHOULD BE INVITED TO WITNESS THE TANK REMOVAL. THE TANK CLEANING AND VAPOR PURGING PROCESS IS THE MOST DANGEROUS ASPECT OF THIS ACTIVITY DUE TO EXPLOSION HAZARDS. OFTEN THE FIRE MARSHAL AND TCEQ REPRESENTATIVES WILL DECLINE THE INVITATION TO WITNESS THE PURGING AND REMOVAL PROCESS, BUT THEY MUST BE NOTIFIED REGARDLESS.

B. PRIOR TO SITE MOBILIZATION, MAKE ARRANGEMENTS WITH AT&T'S LFO TO PUMP OUT AS MUCH FUEL AS POSSIBLE FROM THE UST AND GENERATOR BELLY TANK.

C. OBTAIN AUTHORIZATION FROM AT&T CLIENT GROUP FOR STORAGE OF EQUIPMENT (EXCAVATORS, TRANSPORTATION TRUCKS TOOLS) AND MATERIALS (STOCKPILES OF EXCAVATED SOILS, CLEAN IMPORTED SOILS, REMOVED UST/PIPING) THAT WILL NOT INTERFERE WITH AT&T OPERATIONS.

4. PROJECT COMMENCEMENT

A. ATTEND A PROJECT KICK-OFF MEETING ON THE FIRST DAY OF CONSTRUCTION TO ORIENTATE ALL PERSONNEL WITH THE SCOPE OF WORK, SAFETY ISSUES, AND E-MOP PARAMETERS AND NOTIFICATION PROCEDURE.

B. NOTIFY THE AT&T CLIENT GROUP THAT A TEMPORARY ENGINE AND FUEL SYSTEM ARE IN FULL OPERATION AND HAS BEEN PROPERLY COMMISSIONED.

C. OBTAIN AUTHORIZATION FROM THE AT&T CLIENT GROUP FOR STORAGE OF EQUIPMENT (TRANSPORTATION TRUCKS, TOOLS, ETC.) AND MATERIALS (SCRAP PIPE, VALVES AND PUMPS REMOVED FROM BUILDING) THAT WILL NOT INTERFERE WITH AT&T OPERATIONS.

5. TANK (UST) EXPOSURE AND REMOVAL

A. ESTABLISH A DESIGNATED WORK AREA AND MARK WITH LIGHTED BARRICADES. THE BARRICADES CAN BE REMOVED DURING CONSTRUCTION, BUT MUST BE REPLACED AT THE CLOSE OF EACH WORKDAY. THE CONTRACTOR WILL ENSURE THAT NO UNAUTHORIZED PERSONNEL WILL ENTER THE WORK AREA DURING NORMAL WORKING HOURS. ESTABLISH A SAFE WALKING ZONE TO THE ENTRANCE USING BARRICADES.

B. DISCONNECT ELECTRICAL POWER FROM THE UST SYSTEM, INCLUDING CATHODIC PROTECTION, LIQUID LEVEL PROBE, OR ANY OTHER ELECTRICAL COMPONENTS. VERIFY ELECTRICAL DISCONNECTION USING A VOLT METER, AND SUBSEQUENTLY DISCONNECT ALL ELECTRICAL WIRES FROM THEIR SOURCES INSIDE ELECTRICAL BOXES.

C. DISCONNECT AND/OR REMOVE ALL CHECK VALVES TO ALLOW RESIDUAL DIESEL WITHIN THE PRODUCT LINES AND GENERATOR TO FLOW BACK TO THE UST. IF NEEDED, INTRODUCE COMPRESSED NITROGEN IN THE LINES AT THE HIGHEST POINT TO FORCE DIESEL BACK TO THE UT.

D. REMOVE PAVEMENT OVERLYING THE UST AND PIPE CHASE AND STOCKPILE SEPARATELY FROM WASTE SOILS. IF PAVEMENT MUST BE REMOVED BEYOND THE LIMITS OF EXISTING EXPANSION JOINTS, THE PAVEMENT CONCRETE EDGES MUST BE SAW-CUT.

E. REMOVE SOIL OVERLYING THE UST AND PIPE CHASE TO A DEPTH OF FOUR FEET BELOW GRADE, USING CARE NOT TO PUNCTURE THE UST OR BREAK EXISTING PRODUCT PIPING. ALL SOILS WITHIN FIVE FEET OF UNDERGROUND UTILITIES SHALL BE REMOVED BY HAND DIGGING. PLACE THE SOIL ON/COVER THE SOIL WITH PLASTIC SHEETING IN CASE THE SOILS ARE IMPACTED ABOVE ACTION LEVELS. CONSTRUCT AN EARTHEN BERM COVERED WITH PLASTIC AROUND THE PERIMETER OF THE STOCKPILED SOILS TO PREVENT RAINWATER RUN-ON OR RUNOFF.

F. WHEN SOILS HAVE BEEN REMOVED FROM AROUND AND ATOP THE UST, ALL RISERS AND OTHER APPURTENANCES MUST BE REMOVED. THE TANK MUST REMAIN VENTED UNTIL IT IS PREPARED TO BE LIFTED FROM THE EXCAVATION. IF THE EXISTING VENTING SYSTEM CANNOT REMAIN IN PLACE, A TEMPORARY VENT RISER MAY BE INSTALLED AS LONG AS THE VENT EXTENDS AT LEAST 12 FEET ABOVE FINISHED GRADE, IS PLACED IN A LOCATION THAT WILL NOT ALLOW VAPORS TO ENTER THE BUILDING, AND IS PLACED IN A LOCATION AWAY FROM IGNITION SOURCES.

G. REMOVE PRODUCT LINES FROM THE EXCAVATION USING HAND DIGGING METHODS ONLY; REMOVAL OF PIPING FROM THE EXCAVATION USING AN EXCAVATOR BUCKET IS PROHIBITED.

H. CONTRACTOR SHALL PROVIDE A VACUUM TRUCK TO COLLECT ALL RESIDUAL FLUIDS AND SLUDGE FROM THE UST. THE INSIDE OF THE UST SHALL BE RINSED USING A SURFACTANT TO AID IN THE REMOVAL OF FUEL RESIDUES. PROPER WASTE MANIFESTING AND DISPOSAL PRACTICES SHALL BE USED FOR THE RESIDUAL FLUIDS.

I. PURGE ALL FLAMMABLE VAPORS TO LEVELS BELOW THE EXPLOSION LIMIT AND MONITOR THE PROGESS USING AN OXYGEN/EXPLOSION METER. THE UST'S INTERNAL ATMOSPHERE MUST BE LESS THAN 10% OF THE LOWER EXPLOSIVE LIMIT PRIOR TO REMOVING THE TANK FROM THE EXCAVATION.

J. AFTER ALL VAPORS ARE REMOVED, PLUG ALL HOLES. INSTALL ONE CAP WITH A 1/8-INCH DIAMETER VENT NEAR THE TOP OF THE TANK. ADD DRY ICE (CO_2) TO THE UST IMMEDIATELY BEFORE CAPPING THE HOLES TO FURTHER INSURE A NON-EXPLOSIVE INTERNAL TANK ATMOSPHERE, AT A RATE OF 1.5 POUNDS OF DRY ICE PER 100 GALLONS OF TANK CAPACITY, WITH A MINIMUM OF 50 POUNDS OF DRY ICE REGARDLESS OF TANK SIZE.

K. REMOVE THE TANK FROM THE GROUND AND LABEL IT (SPRAY-PAINT LETTERS ARE ACCEPTABLE) WITH THE FOLLOWING INFORMATION:

-TANK HAS CONTAINED DIESEL FUEL

-NOT VAPOR FREE

-NOT SUITABLE FOR STORAGE OF POTABLE WATER OR FOOD USED FOR HUMAN OR ANIMAL CONSUMPTION

-TANK REMOVED ON (DATE)

-AT&T BRYAN: 500 S. WASHINGTON AVENUE, BRYAN, TX 77803

L. TRANSPORT THE UST TO A CERTAIN TANK DESTRUCTION FACILITY AND OBTAIN A CERTIFICATE OF DESTRUCTION FOR PROPER DISPOSAL DOCUMENTATION WITHIN 14 DAYS OF THE UST REMOVAL. ALL TRANSPORTATION MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. TRANSPORTATION MUST BE PERFORMED ON THE SAME DAY THAT THE UST IS REMOVED.

M. SCREEN THE TANK HOLD SOILS FOR HYDROCARBONS USING A PHOTOIONIZATION DETECTOR (PID) AND NOTE ANY VISUAL AND/OR OLFACTORY INDICATION OF HYDROCARBON IMPACT. IF SOILS ARE NOTICEABLY IMPACTED HORIZONTALLY FROM THE UST, OR VERTICALLY BEYOND THE DEPTH OF THE CONCRETE BALLAST PAD BELOW THE TANK (IF ANY) THEN REMOVE THE BALLAST PAD TO EXCAVATE ADDITIONAL HYDROCARBON-IMPACTED SOILS. EXCAVATE (HORIZONTALLY AND VERTICALLY) AND STOCKPILE (ON PLASTIC SHEET) IMPACTED SOILS (IF ANY) UNTIL NATIVE SOILS HAVING RELATIVELY LESS HYDROCARBON IMPACT ARE ENCOUNTERED. THIS IS A RATHER SUBJECTIVE FIELD DETERMINATION AND IS LARGELY AN ISSUE OF THE AREA AROUND THE TANK THAT CAN BE REMOVED WITHOUT UNDERMINING THE STRUCTURAL INTEGRITY OF OTHER SITE FEATURES AND/OR COST OF SOIL DISPOSAL ASSOCIATED WITH EXCESSIVE EXCAVATION. EXCAVATION NEAR THE BUILDING (EVEN IF THE SOILS ARE NOTICED TO BE IMPACTED WITH HYDROCARBONS) MAY NOT BE POSSIBLE. CONSULT WITH THE AT&T CLIENT GROUP FOR SAFE EXCAVATION LIMITS RELATIVE TO BUILDING INTEGRITY. DEPENDING UPON THE DEPTH OF THE EXCAVATION NATURAL GROUNDWATER MAY BE ENCOUNTERED. FOLLOWING EXCAVATION TO THE MAXIMUM EXTENT ATTAINED, TAKE PHOTOGRAPHS OF THE TANK HOLD AND SITE CONDITIONS FOR DOCUMENTATION. IF AN OBVIOUS RELEASE HAS BEEN OBSERVED, THEN COMPLETE A PST PROGRAM INCIDENT REPORT FORM (TCEQ-20097) WITHIN 24 HOURS OF THE RELEASE DISCOVERY.

N. AFTER THE UST HAS BEEN REMOVED, A UST REGISTRATION & SELF-CERTIFICATION FORM (TCEQ-0724) MUST BE SUBMITTED TO THE TCEQ WITHIN 30 DAYS.

6. SOIL SAMPLE COLLECTION

A. COLLECT SOIL SAMPLES FROM THE TANK BOTTOM, SIDEWALLS, AND PIPE CHASE FOR DETERMINATION OF HYDROCARBON IMPACTS ABOVE ACTION LEVELS, SAMPLES OF THE EXCAVATED (STOCKPILED) MATERIAL SHOULD ALSO BE COLLECTED FOR DISPOSAL CHARACTERIZATION PURPOSES, AT A RATE OF ONE SAMPLE PER 50 CUBIC YARDS OF EXCAVATED MATERIAL. IF NO GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR WILL BE REQUIRED TO COLLECT TWO (2) SOIL SAMPLES UNDER THE FORMER UST AT BOTH ENDS AND ONE (1) SOIL SAMPLE DIRECTLY UNDER THE FILL PORT LOCATION. IF THE UST IS UNDERLAIN BY A CONCRETE BALLAST SLAB, AND IF THE BALLAST SLAB IN NOT REMOVED, THE BOTTOM SOIL SAMPLES WILL BE TAKEN AT THE EDGE OF THE BALLAST SLAB AT BOTH ENDS OF THE UST. IF GROUNDWATER IS ENCOUNTERED IN THE TANK HOLD, THEN A VACUUM TRUCK WILL BE USED TO REMOVE THE WATER. IF THE GROUNDWATER RECHARGES, THEN NO BOTTOM SOIL SAMPLES ARE REQUIRED, BUT FOUR (4) SAMPLES FROM EACH EXCAVATION WALL (ASSUMING A SQUARE EXCAVATION) WILL BE REQUIRED AT A LOCATION IMMEDIATELY ABOVE THE SOIL/GROUNDWATER INTERFACE, AND ONE GROUNDWATER SAMPLE WILL BE REQUIRED. FOR THE PIPE CHASE, COLLECT ONE SOIL SAMPLE PER 20 LINEAR FEET OF TRENCH, AND COLLECT ONE SOIL SAMPLE AT EACH PIPE CHASE DIRECTION CHANGE (PIPE ELBOWS).

B. SUBMIT SOIL AND WATER SAMPLES FOR ANALYSIS OF BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENE (BTEX) USING METHOD 8260B, AND TOTAL PETROLEUM HYDROCARBONS (TPH) USING METHOD TX1005. INFORM THE LABORATORY TO RETAIN THE TPH SAMPLE WITH THE HIGHEST CONCENTRATION, AND IF THE SAMPLE EXHIBITS A CARBON NUMBER GREATER THAN OR EQUAL TO C12, SUBMIT THE SAMPLE FOR ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) USING METHOD 8270.

7. BACKFILLING THE EXCAVATION

A. THE EXCAVATION SHOULD BE BACKFILLED WITH THE SAME NATIVE SOIL REMOVED (IF NOT NOTICEABLY IMPACTED), OR CLEAN SOIL TO AVOID SAFETY AND STRUCTURAL INTEGRITY CAVE-IN ISSUES. SINCE THE EXCAVATION IS NEAR AN EXISTING BUILDING BACKFILLING AND COMPACTING THE CLEAN MATERIALS IN LIFTS IN RECOMMENDED.

8. REPORTING

A. IF NON-AQUEOUS-PHASE LIQUID (NAPL) IS OBSERVED IN THE EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE AT&T EH&S MANAGER IMMEDIATELY UPON NAPL DISCOVERY, SUCH THAT A NAPL RECOVERY PROGRAM CAN BE IMPLEMENTED.

B. IF THE SOILS AND/OR INITIAL GROUNDWATER SAMPLE ARE DISCOVERED TO BE IMPACTED AT CONCENTRATIONS ABOVE ACTION LEVELS, THEN A RELEASE DETERMINATION REPORT FORM (TCEQ-0621) WILL REQUIRE COMPLETION AND SUBMITTAL TO THE TCEQ WITHIN 20 DAYS OF THE RELEASE DISCOVERY.

C. A SUMMARY REPORT DOCUMENTING ALL ASPECTS OF THE UST REMOVAL, ALONG WITH TEXT, FIGURES, SITE DRAWINGS, PHOTOGRAPHS, ANALYTICAL DATA, CORRESPONDENCE, TCEQ REPORTS, REGISTRATIONS, PERMITS, WASTE MANIFESTS/DESTRUCTION DOCUMENTS, AND ALL OTHER PERTINENT INFORMATION SHALL BE PREPARED FOR AT&T'S EH&S MANAGER.

DEMOLITION NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION OF TANK FOR PIPING ROUTE PRIOR TO DEMO. REFER TO F-03 FOR LOCATION OF NEW AST.

2. CONTRACTOR TO FIELD VERIFY LOCATION OF PROPOSED NEW AST PRIOR TO DEMO OF ASPHALT. REFER TO F-03 FOR LOCATION OF NEW AST.

3. CONTRACTOR TO VERIFY LOCATION OF SEWER LINE PRIOR TO EXCAVATION OF EXISTING UST.

4. CONTRACTOR SHALL HYDRO-EXCAVATE EXISTING UST, ROUTE OF NEARBY SEWER LINE IS UNKNOWN, CONTRACTOR IS TO PAY SPECIAL ATTENTION SO AS NOT TO DISTURB SAID SEWER LINE. SEE SHEET G-3 FOR SITE SURVEY.

GRAPHIC SCALE

8 0 8 16 24 FT

SCALE: 1/8" = 1'

GENERAL NOTES:

1. SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

2. DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.

//// INDICATES ITEMS TO BE ABANDONED OR DEMOLISHED AND REMOVED

ALL SCALES ARE INDICATED FOR "E1" SIZE DRAWINGS.

at&t

CORPORATE REAL ESTATE

AT&T BRYAN
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AT&T PROJECT NUMBER	AT&T AUTHORIZATION
GEOLOC #	RUBEN MARTINEZ AT&T PROJECT MANAGER

△	Issue	Date & Issue Description	By	Check
1	12/20/13	ISSUED FOR REVIEW	S.H.	S.H.
2	02/06/14	ISSUED FOR REVIEW	S.H.	S.H.
3	02/28/14	ISSUED FOR REVIEW	S.H.	A.W.
4	03/28/14	ISSUED FOR PERMIT, PRICING & CONSTRUCTION	S.H.	J.G.

Seal/Signature

SHAW, ENVIRONMENTAL & INFRASTRUCTURE
STATE OF TEXAS
JAMES E. GIBSON III
81952
LICENSED
PROFESSIONAL ENGINEER
F-009545

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Project Name
AT&T BRYANTX01

Project Number
151394

CAD File Name
K:\PROJECTS\151394_BRYAN ATT\CAD FILES\-WORKING

Description
DEMO PLAN

Scale
AS-NOTED

F-01

IF SHEET IS LESS THAN (30X42) IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY

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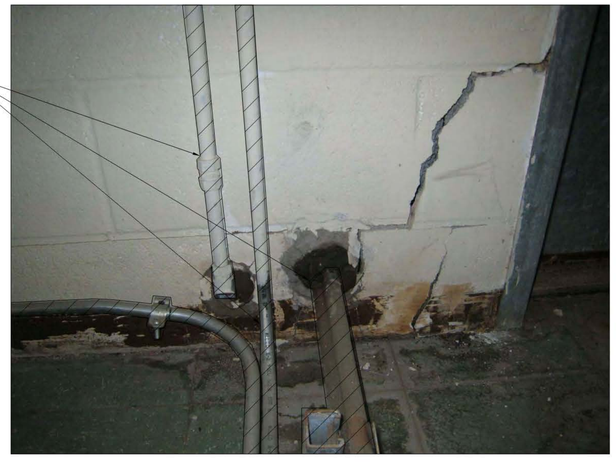
A UST DEMO
F1 F2 SCALE - N.T.S.

B GENERATOR DEMO
F1 F2 SCALE - N.T.S.

C GENERATOR EXHAUST DEMO
F1 F2 SCALE - N.T.S.



D FUEL LINE DEMO
F1 F2 SCALE - N.T.S.

REMOVE AND RELOCATE EXISTING VEEDER-ROOT
TO NEW LOCATION ON F-03

DEMO ALL EXISTING VEEDER-ROOT
CONNECTIONS AND CONDUIT.

E VEEDER-ROOT DEMO
F1 F2 SCALE - N.T.S.

GENERAL NOTES:

1. SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.

//// INDICATES ITEMS TO BE ABANDONED OR DEMOLISHED AND REMOVED

ALL SCALES ARE INDICATED FOR "E1" SIZE DRAWINGS.

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Project Number
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CAD File Name
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Description
DEMO PLAN PHOTO

Scale
NTS

F-02

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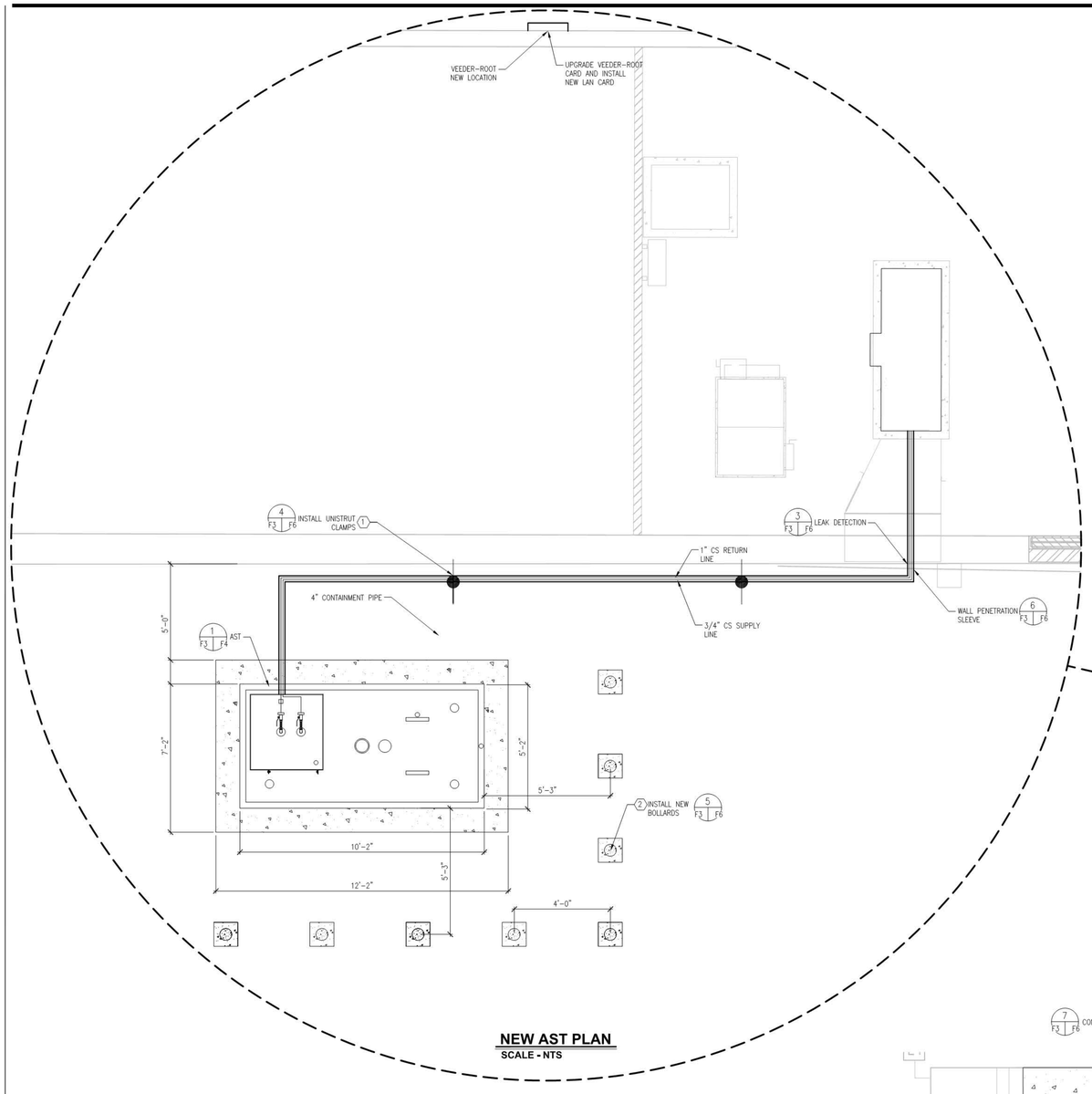
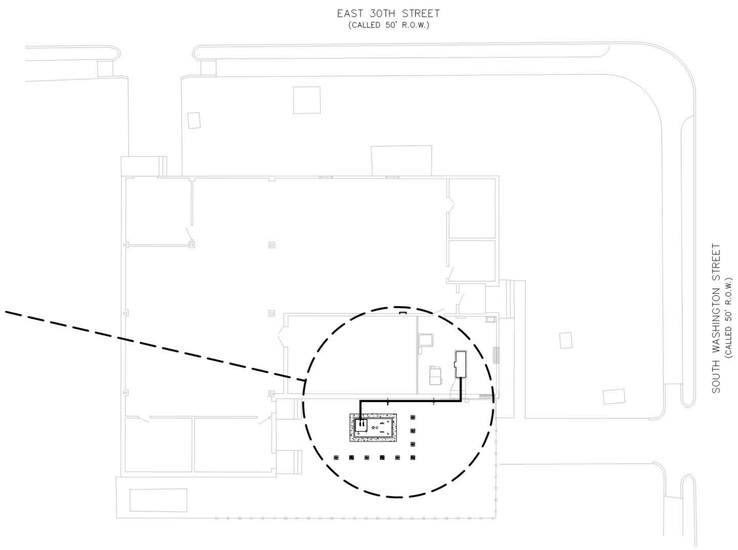
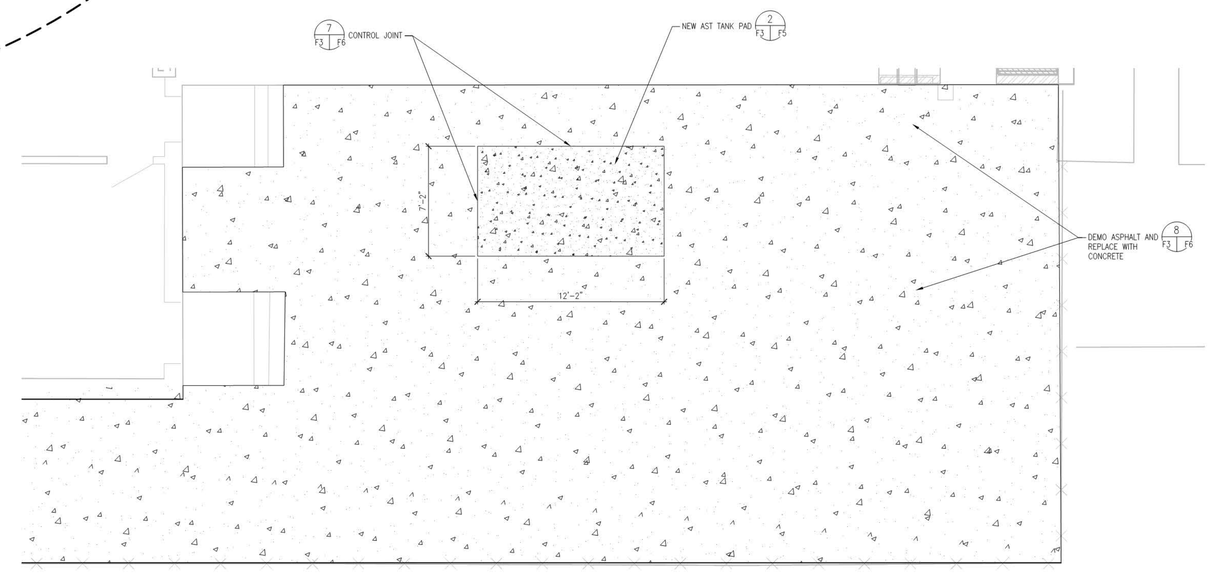


NEW AST PLAN
SCALE - NTS



NEW AST PLAN
SCALE 1/16" = 1'-0"



CONCRETE PLAN
SCALE 1/4" = 1'-0"

CONSTRUCTION NOTES:

1. INSTALL NEW SS UNISTRUTS WITH CLAMP (CTTP8) MIN. EVERY 15 FEET.
2. DESIGN INTENT IS TO HAVE MINIMUM 5'0" CLEAR BETWEEN BOLLARDS AND TANK.

GENERAL NOTES:

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2. DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.

—●— PIPE SUPPORTS

GRAPHIC SCALE

16 0 16 32 48 FT

SCALE: 1/16" = 1'

4 0 4 8 12 FT

SCALE: 1/4" = 1'

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AT&T BRYANTX01

Project Number
151394

CAD File Name
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Description
AST PLAN

Scale
AS-NOTED

F-03

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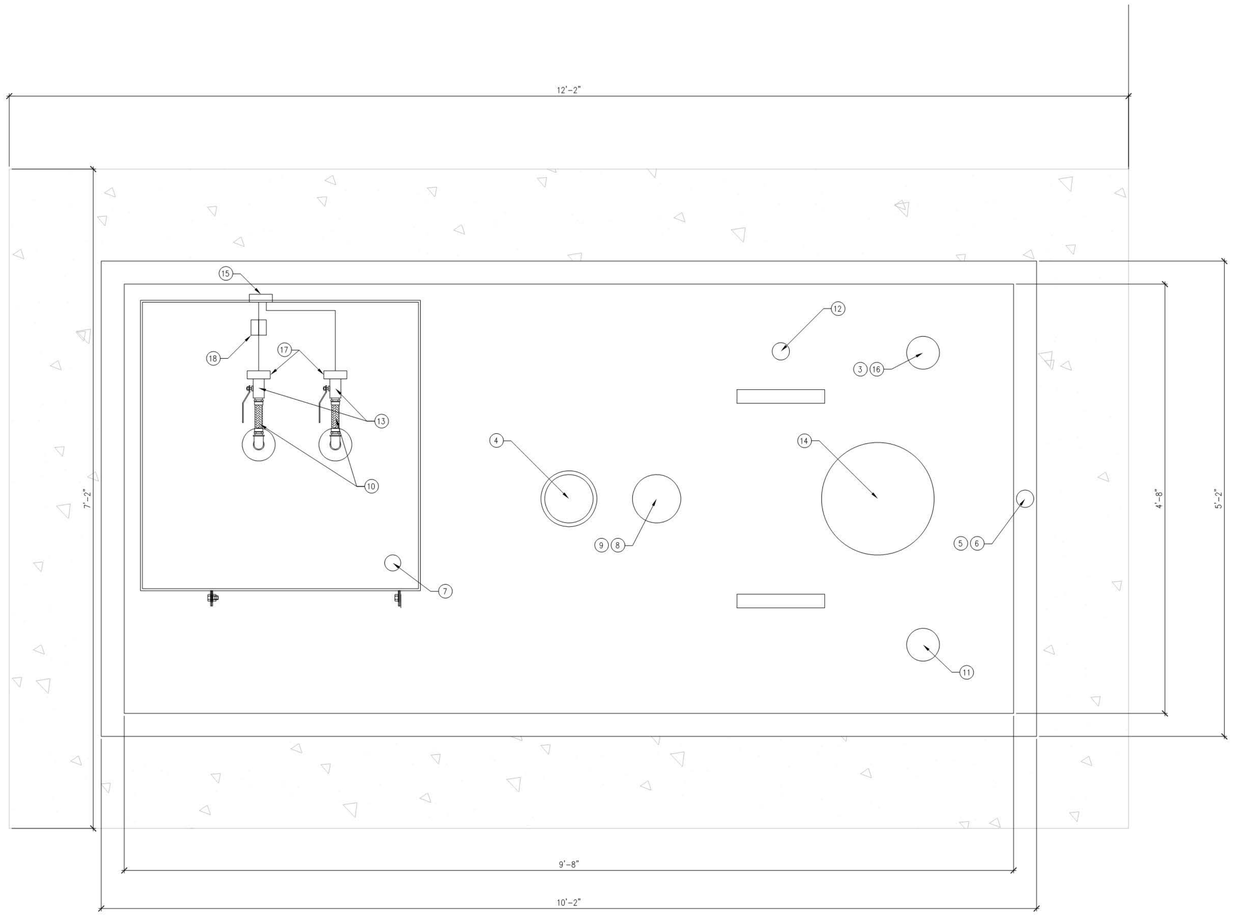
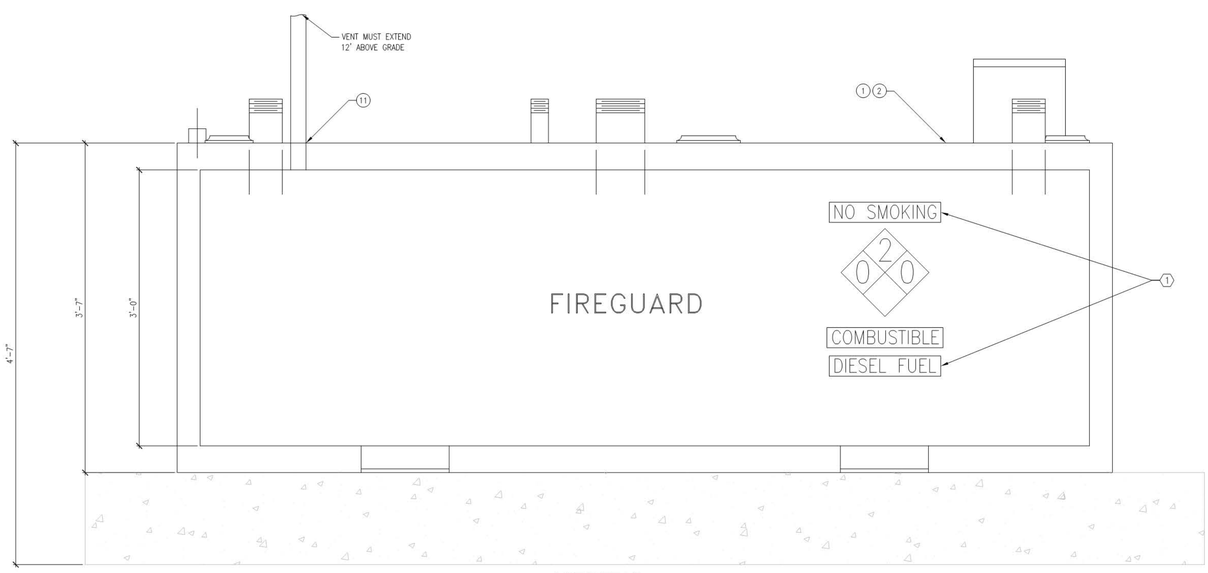


1 AST DETAIL
F3 F4
SCALE 1-1/2" = 1'-0"



AST DETAIL
SCALE 1-1/2" = 1'-0"

MATERIAL LIST

1. 800 GALLON RECTANGULAR DOUBLE WALL STEEL UL-2085 FIRE RATED TANK. (10'-2"L X 5'-2"W X 3'-7"H) MODERN WELDING "FIREGUARD"
2. COATING SHALL BE AS FOLLOWS:
   A: PRIMER – IP86 ZINC (2-3 MILS OF DFT)
   B: INTERMEDIATE – IP66 EPOXY (3-4 MILS DFT)
   C: TOP – IF 168 POLYURETHANE (2-3 MILS DFT, WHITE)
3. 2" OVERFILL PREVENTION VALVE & DROP TUBE WITHIN 6" OF TANK BOTTOM. SET AT 95% TANK CAPACITY. OPW CH STOP-1000
4. 8" EMERGENCY VENT FOR PRIMARY TANK. MORRISON 244
5. 2" INTERSTITIAL RISER CAP & ADAPTOR KIT. VEEDER-ROOT
6. TANK ANNULAR SPACE SENSOR. VEEDER-ROOT
7. SUMP SENSOR. VEEDER-ROOT
8. MAG PLUS TLM PROBE WITH AST INSTALL KIT AND DIESEL FLOATS. VEEDER-ROOT
9. 4" PROBE RISER CAP & RING KIT. VEEDER-ROOT
10. FLEX CONNECTOR. FLEX-ING "FIRE-FLEX"
11. 2" PRESSURE / VACUUM VENT CAP MIN 12'-0" HIGH FROM GROUND LEVEL. MORRISON 749
12. CLOCK GAUGE. MARK FACE AT 85% TANK CAPACITY. MORRISON 818
13. BRASS BALL VALVE, LOCKABLE. OPW 218V (SIZE) LH
14. 36" MANWAY. MODERN WELDING
15. PIPE PENETRATION FITTING. DIVERSIFIED PRODUCT BS
16. 4" BRONZE FILL ADAPTOR & TOP, SEAL CAP. OPW 633T & 634TT
17. REDUCING BOOT WITH TEST PORT. DIVERSIFIED PRODUCTS RA
18. ELECTRONIC ANTI-SIPHON VALVE

CONSTRUCTION NOTES:

1. ALL TANK HAZARD SIGNAGE SHALL BE IAW NFPA 704, CHAPTER G. SIGNS SHALL BE INSTALLED ON ALL VISIBLE SIDES. CONTRACTOR RESPONSIBLE FOR PROVIDING & APPLYING SIGNAGE.

GENERAL NOTES:

1. SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.

GRAPHIC SCALE

1 0 1 2 3 FT

SCALE: 1-1/2" = 1'

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Project Name
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Project Number
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CAD File Name
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Description
AST DETAILS

Scale
AS-NOTED

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F-04

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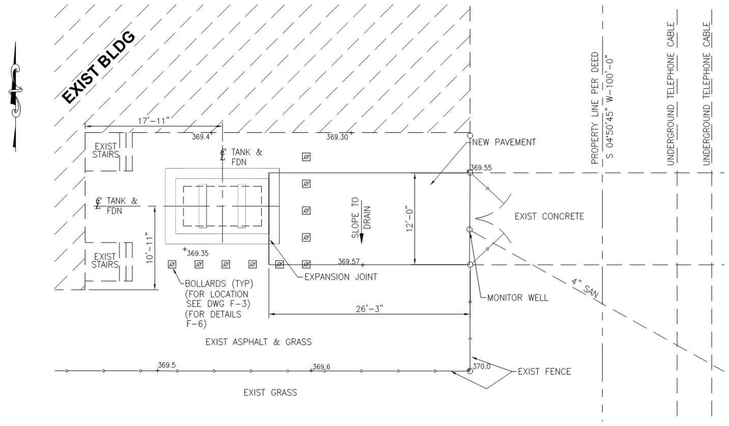
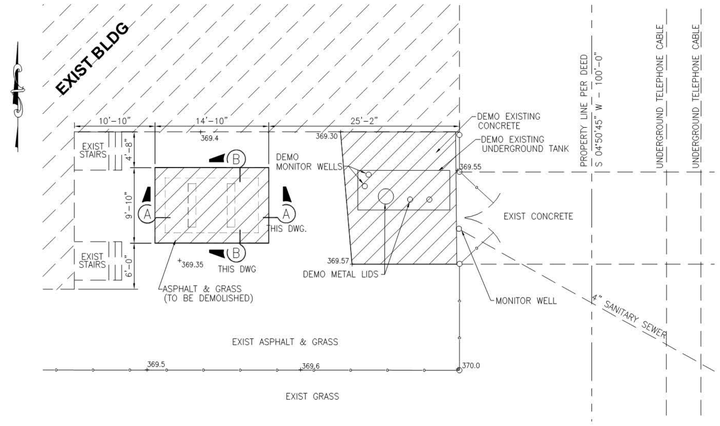


2 FUEL TANK PAD LAYOUT

F3 F5

SCALE 1/8" = 1'-0"



EXCAVATION LIMITS FOR FUEL TANK PAD LAYOUT

SCALE 1/8" = 1'-0"

CONCRETE NOTES & SPECIFICATIONS

1. DESIGN, FABRICATION AND ERECTION OF WORK SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), LATEST ADDITION.
2. MINIMUM CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH AND 2" FOR ALL OTHER CASES.
3. ADMIXTURE
   A. ALL PAVEMENT AND CURBS – USE WATER REDUCING AND RETARDING ADMIXTURE (2 HOUR RETARDATION).
   B. OTHER CONCRETE – USE OF ADMIXTURE AT CONTRACTOR'S OPTION, BUT SUBJECT TO ENGINEER'S APPROVAL.
4. ALL CONCRETE TO ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS AND REBAR IS TO BE GRADE 60 ksi.
5. REINFORCED CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI–318), LATEST EDITION.
6. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AS UNCHARTED OBSTRUCTIONS MAY BE ENCOUNTERED. IF UNCHARTED OBSTRUCTIONS ARE DISCOVERED, CONTACT ENGINEER FOR DIRECTION.
7. A MINIMUM OF 1" NON–SHRINK GROUT SHALL BE USED FOR TANK SUPPORT BASE AS SHOWN ON DRAWINGS.
8. IF REINFORCEMENT CAUSES INTERFERENCE WITH ANCHOR BOLTS, ADJUST THE REINFORCING, NOT THE ANCHOR BOLTS.
9. ANCHOR BOLT AND THREADED ROD SHALL BE ASTM A193, GRADE B8. NUTS SHALL BE HEAVY HEX CONFORMING TO ASTM A194, GRADE 8F AND STAINLESS STEEL WASHERS.
10. SPLICES: – IN ACCORDANCE WITH ACI–350.
11. BAR BENDS, HOOKS AND OFFSETS SHALL BE IN ACCORDANCE WITH THE ACI 350 RECOMMENDATIONS.

DEMOLITION NOTES:

1. SAW CUT EXISTING PAVING AS REQUIRED TO INSTALL NEW PAVING AND FOUNDATIONS.
2. EXCAVATED SPOIL TRANSPORTATION OFFSITE IS BY CONTRACTOR.

EXCAVATION, FILL & BACKFILL:

1. FILL MATERIAL SHALL BE NON–ERODIBLE, FREE FROM ROOTS AND OTHER ORGANIC MATTER, TRASH, DEBRIS AND STONES LARGER THAN 3" IN ANY DIRECTION. NEW OR EXISTING FILL BELOW FOUNDATIONS TO 95% DENSITY (MOD. PROCTOR).
2. TOP 2 FEET OF EXCAVATION TO BE DONE CAREFULLY TO LOCATE ANY UNDERGROUND CABLES & ELECTRICAL EQUIPMENT. ANY ITEMS LOCATED REQUIRING DISCONNECTING OR REMOVAL SHALL HAVE AT&T APPROVAL BEFORE PROCEEDING.
3. THE FILL MATERIAL SHALL CONSIST OF LOW PLASTICITY SANDY CLAYS WITH PLASTICITY INDICES RANGING BETWEEN 12 AND 20, OR COMPACTED GRANULAR FILL USED AT THE NEW FOUNDATIONS AND BENEATH PAVED AREAS.
4. OVER EXCAVATED AREAS (6" CONCRETE PAVING DEMO.) BETWEEN EXISTING PAVING AND NEW CONCRETE CONSTRUCTION TO BE REPLACED IN–KIND WITH CONCRETE PAVING.

LOADS / DESCRIPTION:

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AMD APPLIED AS REQUIRED BY: 2009 INTERNATIONAL BUILDING CODE AND ASCE 7–10.

SITE COORDINATES: 30.67° N, 96.73° W

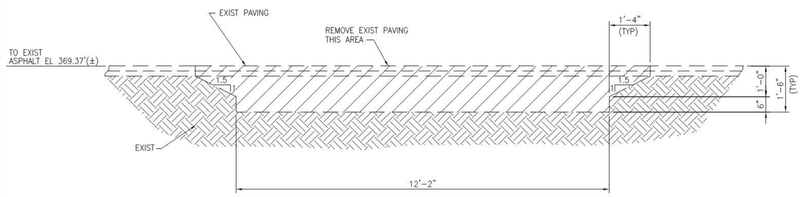
OCCUPANCY CATAGORY: IV

SITE SOIL CLASSIFICATION CATAGORY: OSHA SITE CLASS D

SEISMIC LOADS:

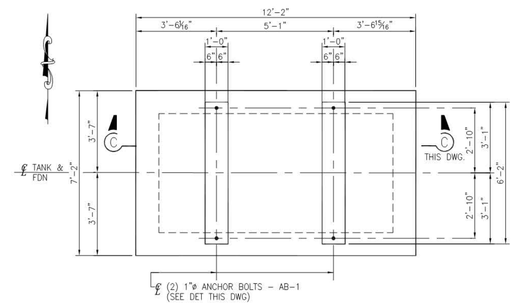
S_S :	0.074g	S_{MS} :	0.113g	S_{DS} :	0.079g
S_1 :	0.041g	S_{M1} :	0.097g	S_{D1} :	0.065g

IBC–2009 WIND SPEEDS (3–SEC PEAK GUST): 120 MPH



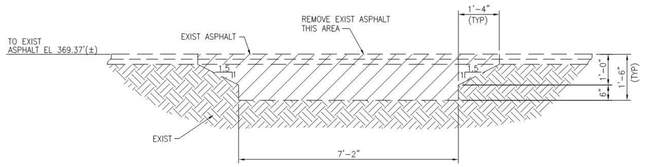
SECTION A-A

SCALE 1/2" = 1'-0"



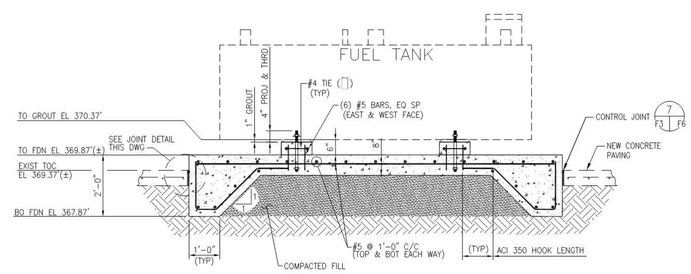
FUEL TANK PAD PLAN DIMENSIONS

SCALE 3/8" = 1'-0"



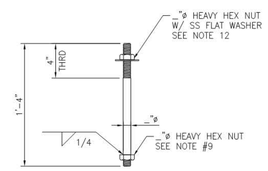
SECTION B-B

SCALE 1/2" = 1'-0"



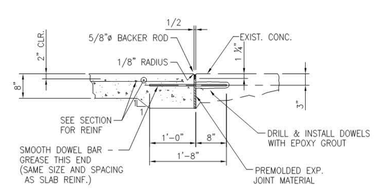
SECTION C-C

SCALE 1/2" = 1'-0"



ANCHOR BOLT - AB-1

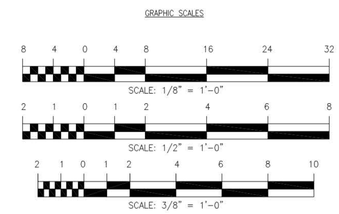
SCALE NTS
(4) REQ'D



PAVEMENT JOINT DETAIL DOWELED TO EXISTING CONCRETE

SCALE NTS

GRAPHIC SCALES



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Description
TANK FOUNDATION - PLANS, SECTIONS & DETAILS

Scale
AS-NOTED

F-05

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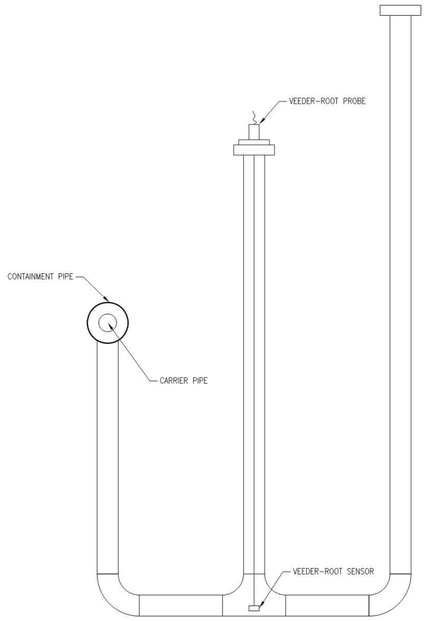
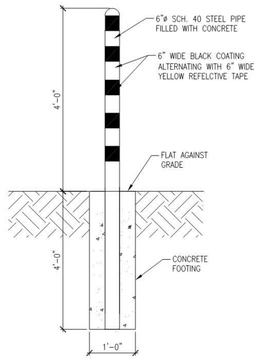
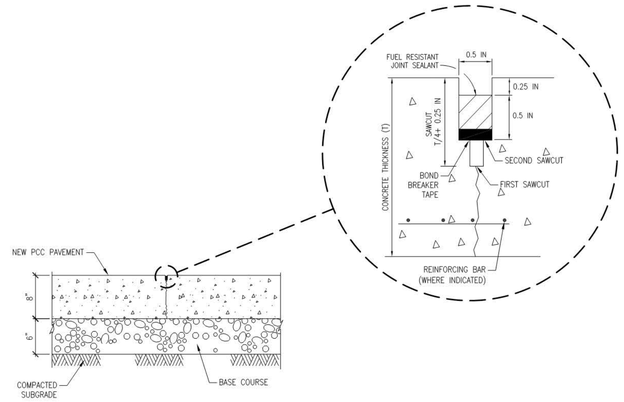


3 F3 F6 **PIPE LEAK DETECTION**
SCALE - N.T.S.



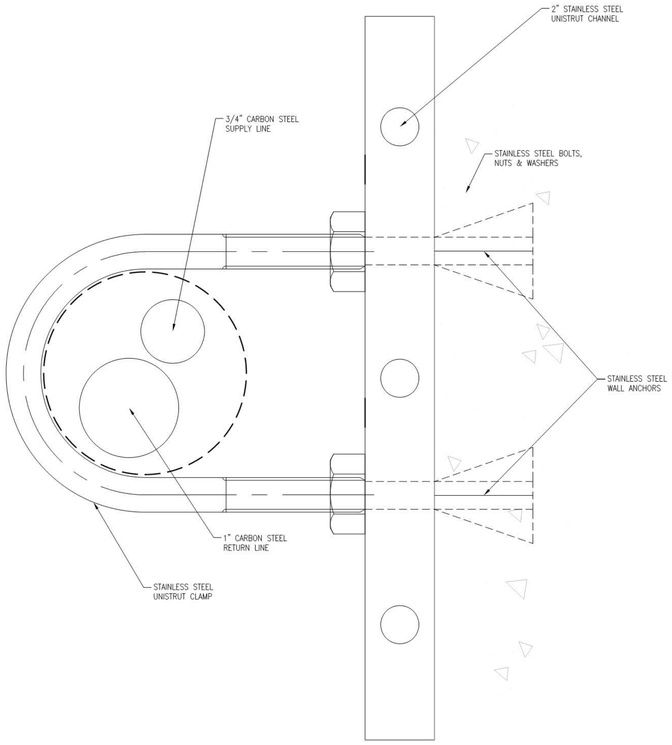
5 F3 F6 **BOLLARD DETAIL**
SCALE - N.T.S.



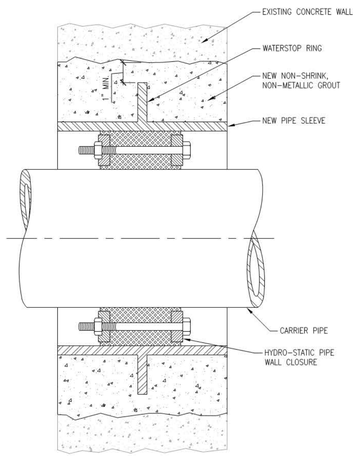
GENERAL NOTES:

1. TOP OF JOINT SEALANT WILL BE 1/4-INCH BELOW TOP OF PAVEMENT.
2. JOINT SEALANT SHALL BE NON-SHRINK FUEL RESISTANT, POURABLE OR PREFORMED TYPE.
3. PREFORMED SEALANT SHALL HAVE AN UNCOMPRESSED WIDTH OF NOT LESS THAN TWICE THE WIDTH OF THE JOINT SEALANT RESERVOIR.
4. NONABSORPTIVE MATERIAL REQUIRED TO PREVENT JOINT SEALANT FROM FLOWING INTO SAWCUT AND TO SEPARATE NONCOMPATABLE MATERIALS.

7 F3 F6 **CONTROL JOINT DETAIL**
SCALE - N.T.S.

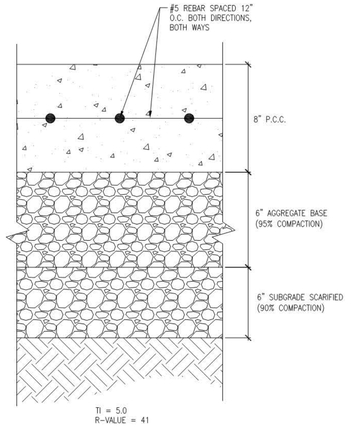


4 F3 F6 **UNISTRUT CLAMP DETAIL**
SCALE - N.T.S.



PRODUCT CARRIER PIPE	WALL SLEEVE DIAMETER
4"	8" DIA.

6 F3 F6 **LINK-SEAL DETAIL**
SCALE - N.T.S.



TI = 5.0
R-VALUE = 41

8 F3 F6 **PAVEMENT INSTALLATION DETAIL**
SCALE - N.T.S.

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AT&T PROJECT NUMBER	AT&T AUTHORIZATION
GEOLOC #	RUBEN MARTINEZ AT&T PROJECT MANAGER

△	Issue	Date & Issue Description	By	Check
1	01/14/14	ISSUED FOR REVIEW	S.H.	S.H.
2	02/28/14	ISSUED FOR REVIEW	S.H.	A.W.
3	03/28/14	ISSUED FOR PERMIT, PRICING & CONSTRUCTION	S.H.	J.G.

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Project Name
AT&T BRYANTX01

Project Number
151394

CAD File Name
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Description
DETAILS PAGE

Scale
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F-06

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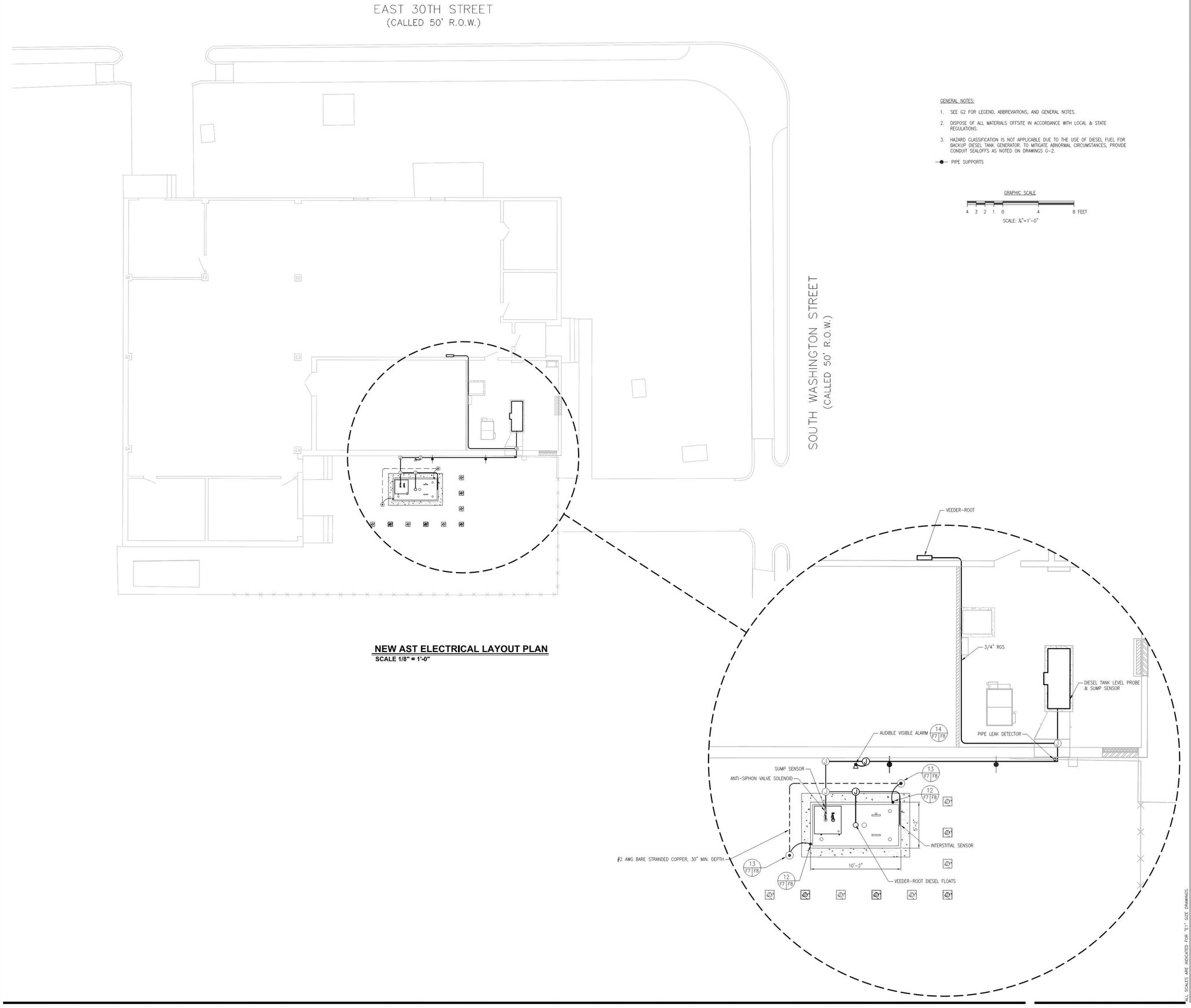

NEW AST ELECTRICAL LAYOUT PLAN

SCALE 1/8" = 1'-0"

GENERAL NOTES:

1. SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.
3. HAZARD CLASSIFICATION IS NOT APPLICABLE DUE TO THE USE OF DIESEL FUEL FOR BACKUP DIESEL TANK GENERATOR. TO MITIGATE ABNORMAL CIRCUMSTANCES, PROVIDE CONDUIT SEALOFFS AS NOTED ON DRAWINGS G-2.

—●— PIPE SUPPORTS

GRAPHIC SCALE

4 3 2 1 0 4 8 FEET

SCALE: ¼"=1'-0"

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1	1/15/14	ISSUED FOR REVIEW	TMB	KCB
2	2/26/14	ISSUED FOR 95% REVIEW	TMB	KCB
3	3/28/14	ISSUED FOR PERMIT, PRICING & CONSTRUCTION	TMB	KCB

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STATE OF TEXAS
JAMES E. GIBSON III
81952
LICENSED
PROFESSIONAL ENGINEER
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Project Name
AT&T BRYANTX01

Project Number
150028

CAD File Name
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Description
ELECTRICAL PLAN

Scale
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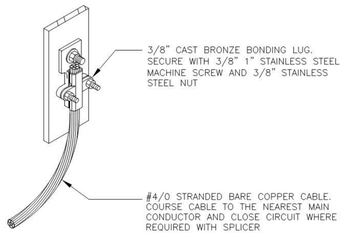
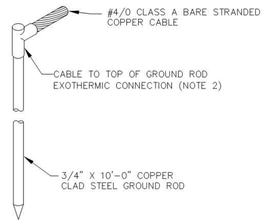


12 F7 F8 **METAL EQUIPMENT BONDING DETAIL**
SCALE - N.T.S.

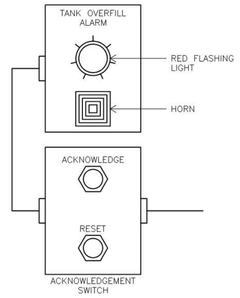
DRAWING SYMBOL

TOP OF RODS TO BE 12" MINIMUM BELOW FINISHED GRADE.



13 F7 F8 **TYPICAL GROUNDING ROD**
SCALE - N.T.S.

DRAWING SYMBOL



14 F7 F8 **AUDIO / VISUAL ALARM DETAIL**
SCALE - N.T.S.

GROUNDING NOTES:

1. GROUNDING SYSTEM TO COMPLY WITH THE 2011 NATIONAL ELECTRICAL CODE, THE 2011 CITY OF BRYAN ELECTRICAL CODE, NFPA 780, AND ALL OTHER APPLICABLE STATE, LOCAL AND SITE REQUIREMENTS.
2. ALL COMPONENTS SHALL BE LISTED FOR THEIR INTENDED USE AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.
3. ALL BELOW GRADE OR EMBEDDED GROUNDING CONNECTIONS SHALL BE "EXOTHERMIC WELDING PROCESS".
4. ALL EXPOSED GROUND CONNECTIONS SHALL BE EXOTHERMIC OR APPROVED MECHANICAL TYPE.
5. SURFACES WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEAN AND DRY:
   A. STEEL SURFACES SHALL BE GROUND OR FILED TO BRIGHT METAL, REMOVING ALL SCALE, RUST, GREASE AND DIRT.
   B. COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY CLOTH TO REMOVE OXIDES BEFORE MAKING CONNECTIONS.

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GEOLOC #	RUBEN MARTINEZ AT&T PROJECT MANAGER

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2	2/28/14	ISSUED FOR 95% REVIEW	TMB	KCB
3	3/28/14	ISSUED FOR PERMIT, PRICING & PRICING	TMB	KCB

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STATE OF TEXAS
JAMES E. GIBSON III.
81952
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PROFESSIONAL ENGINEER
F-009545

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Project Name
AT&T BRYANTX01

Project Number

CAD File Name
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Description
ELECTRICAL DETAILS

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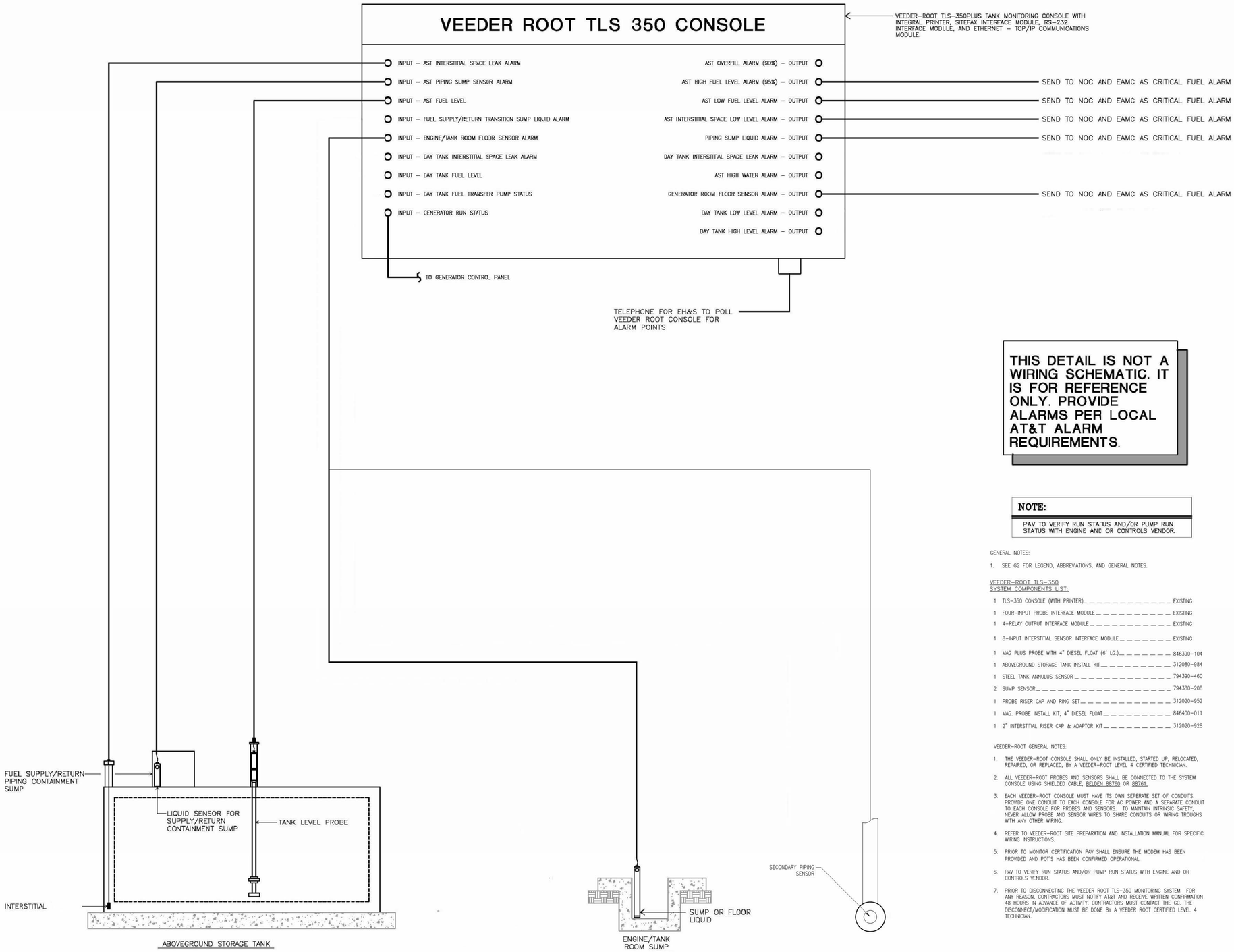

THIS DETAIL IS NOT A WIRING SCHEMATIC. IT IS FOR REFERENCE ONLY. PROVIDE ALARMS PER LOCAL AT&T ALARM REQUIREMENTS.

NOTE:

PAV TO VERIFY RUN STATUS AND/OR PUMP RUN STATUS WITH ENGINE AND OR CONTROLS VENDOR.

GENERAL NOTES:

1. SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

VEEDER-ROOT TLS-350
SYSTEM COMPONENTS LIST:

1	TLS-350 CONSOLE (WITH PRINTER)	EXISTING
1	FOUR-INPUT PROBE INTERFACE MODULE	EXISTING
1	4-RELAY OUTPUT INTERFACE MODULE	EXISTING
1	8-INPUT INTERSTITIAL SENSOR INTERFACE MODULE	EXISTING
1	MAG PLUS PROBE WITH 4" DIESEL FLOAT (6' LG.)	846390-104
1	ABOVEGROUND STORAGE TANK INSTALL KIT	312080-984
1	STEEL TANK ANNULUS SENSOR	794390-460
2	SUMP SENSOR	794380-208
1	PROBE RISER CAP AND RING SET	312020-952
1	MAG. PROBE INSTALL KIT, 4" DIESEL FLOAT	846400-011
1	2" INTERSTITIAL RISER CAP & ADAPTOR KIT	312020-928

VEEDER-ROOT GENERAL NOTES:

1. THE VEEDER-ROOT CONSOLE SHALL ONLY BE INSTALLED, STARTED UP, RELOCATED, REPAIRED, OR REPLACED, BY A VEEDER-ROOT LEVEL 4 CERTIFIED TECHNICIAN.
2. ALL VEEDER-ROOT PROBES AND SENSORS SHALL BE CONNECTED TO THE SYSTEM CONSOLE USING SHIELDED CABLE, BELDEN 88760 OR 88761.
3. EACH VEEDER-ROOT CONSOLE MUST HAVE ITS OWN SEPERATE SET OF CONDUITS. PROVIDE ONE CONDUIT TO EACH CONSOLE FOR AC POWER AND A SEPARATE CONDUIT TO EACH CONSOLE FOR PROBES AND SENSORS. TO MAINTAIN INTRINSIC SAFETY, NEVER ALLOW PROBE AND SENSOR WIRES TO SHARE CONDUITS OR WIRING TROUGHS WITH ANY OTHER WIRING.
4. REFER TO VEEDER-ROOT SITE PREPARATION AND INSTALLATION MANUAL FOR SPECIFIC WIRING INSTRUCTIONS.
5. PRIOR TO MONITOR CERTIFICATION PAV SHALL ENSURE THE MODEM HAS BEEN PROVIDED AND POT'S HAS BEEN CONFIRMED OPERATIONAL.
6. PAV TO VERIFY RUN STATUS AND/OR PUMP RUN STATUS WITH ENGINE AND OR CONTROLS VENDOR.
7. PRIOR TO DISCONNECTING THE VEEDER ROOT TLS-350 MONITORING SYSTEM FOR ANY REASON, CONTRACTORS MUST NOTIFY AT&T AND RECEIVE WRITTEN CONFIRMATION 48 HOURS IN ADVANCE OF ACTIVITY. CONTRACTORS MUST CONTACT THE GC. THE DISCONNECT/MODIFICATION MUST BE DONE BY A VEEDER ROOT CERTIFIED LEVEL 4 TECHNICIAN.

TANK MONITORING AND LEAK DETECTION SYSTEM DIAGRAM

SCALE: NOT TO SCALE

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Project Name
AT&T BRYANTX01

Project Number

CAD File Name
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Description
VEEDER-ROOT DIAGRAM

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