

FUEL STORAGE TANK REPLACEMENT

BRYAN, TX 77803

PREPARED FOR



AT&T CORPORATE
REAL ESTATE



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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

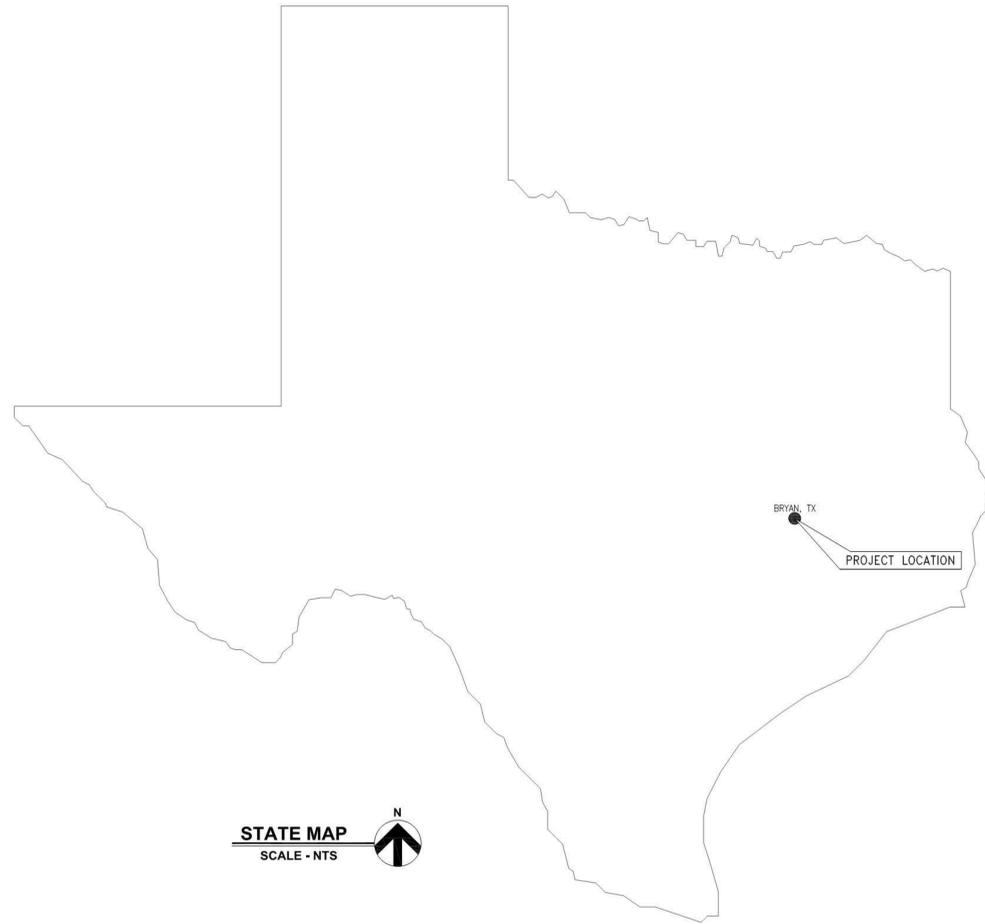
CAD File Name
K:\PROJECTS\151394_BRYAN ATTICAD FILES\WORKING

Description
TITLE PAGE AND DRAWINGS INDEX

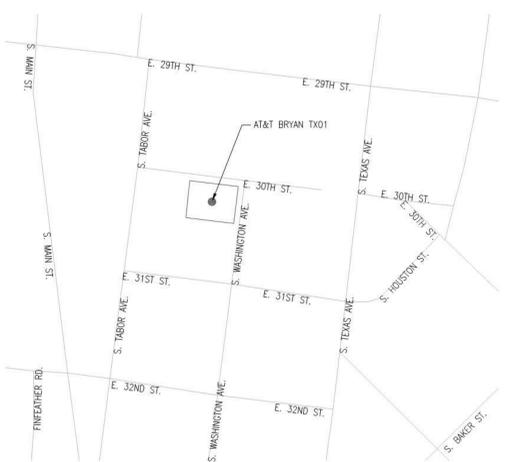
Scale
AS-NOTED

COVER

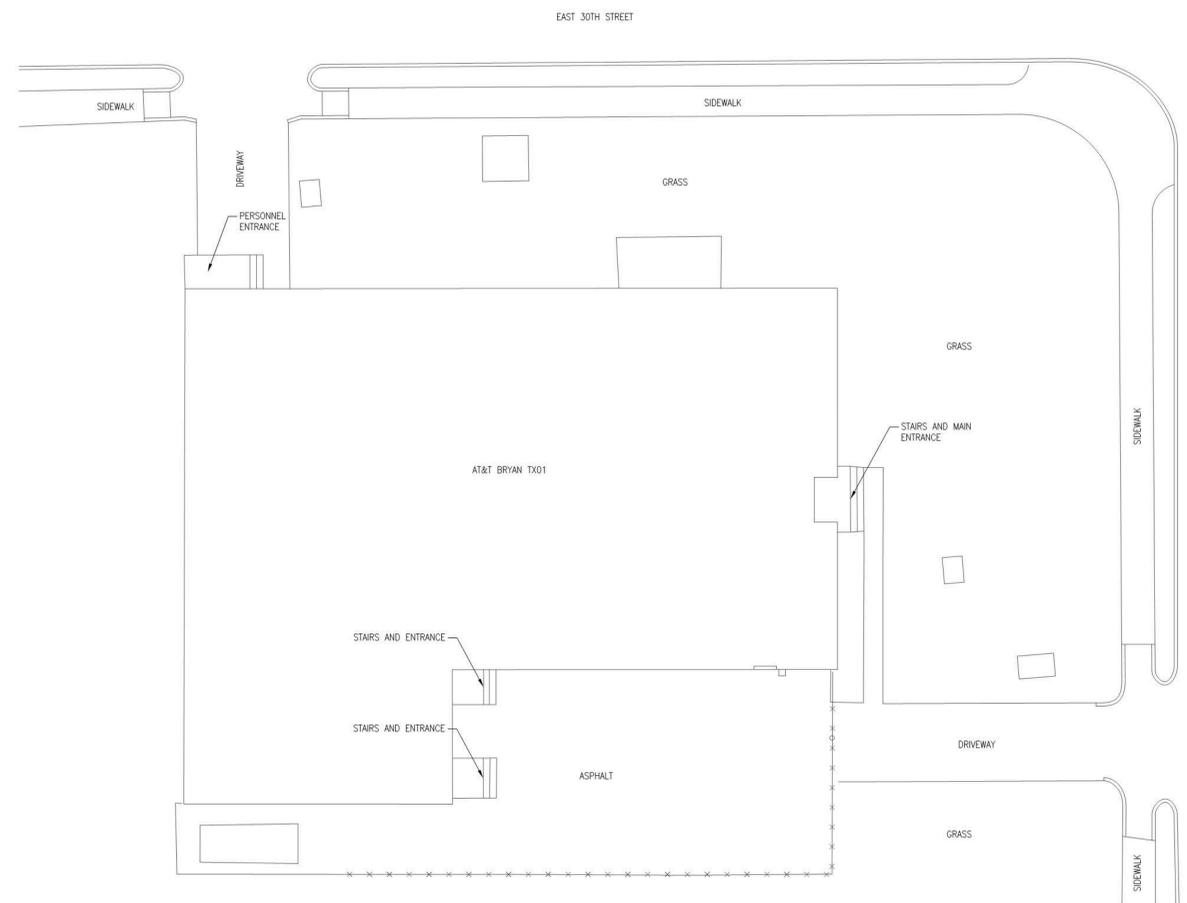
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STATE MAP
SCALE - NTS



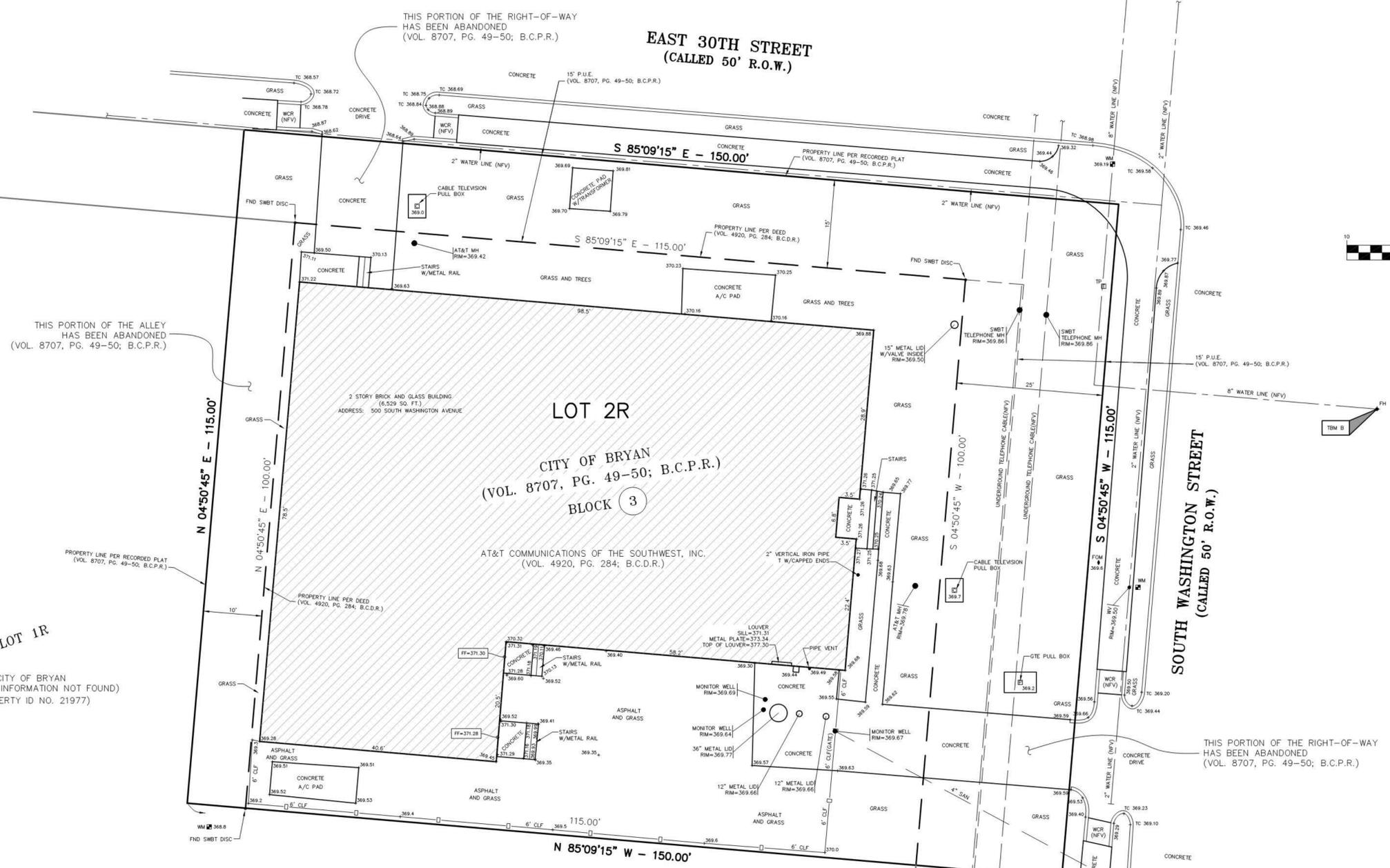
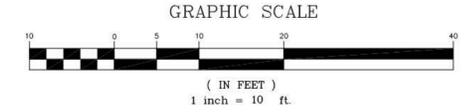
VICINITY MAP
SCALE - NTS



SITE MAP
SCALE - NTS

ALL SCALES ARE INDICATED FOR "E" SIZE DRAWINGS

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
 - SO. FT. - SQUARE FEET
 - SWBT - SOUTHWESTERN BELL TELEPHONE
 - TBM - TEMPORARY BENCHMARK
 - TC - TOP OF CURB
 - TE - TELEPHONE PEDESTAL
 - W - WITH
 - WCR - WHEEL CHAIR RAMP
 - WM - WATER METER
 - WV - WATER VALVE
 - (NFV) - NOT FIELD VERIFIED

LOT 1R
CITY OF BRYAN
(RECORDING INFORMATION NOT FOUND)
(PROPERTY ID NO. 21977)

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 PKWY 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'

- 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.

TEXAS ENGINEERING AND MAPPING
12810 CENTURY DRIVE
STAFFORD, TEXAS 77477
PHONE: 281.491.2525 FAX: 281.491.2535
FIRM REGISTRATION NO. 10119000
www.team-civil.com

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



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Gensler

DABHI ENGINEERING ASSOC INC.

19310 KESSINGTON LANE REGISTRATION NO. F-3576
HOUSTON, TEXAS 77094
281.492.6885 FAX: 281.492.8626
CONTACT: MADARSINH DABHI

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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



Project Name
3/28/14

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

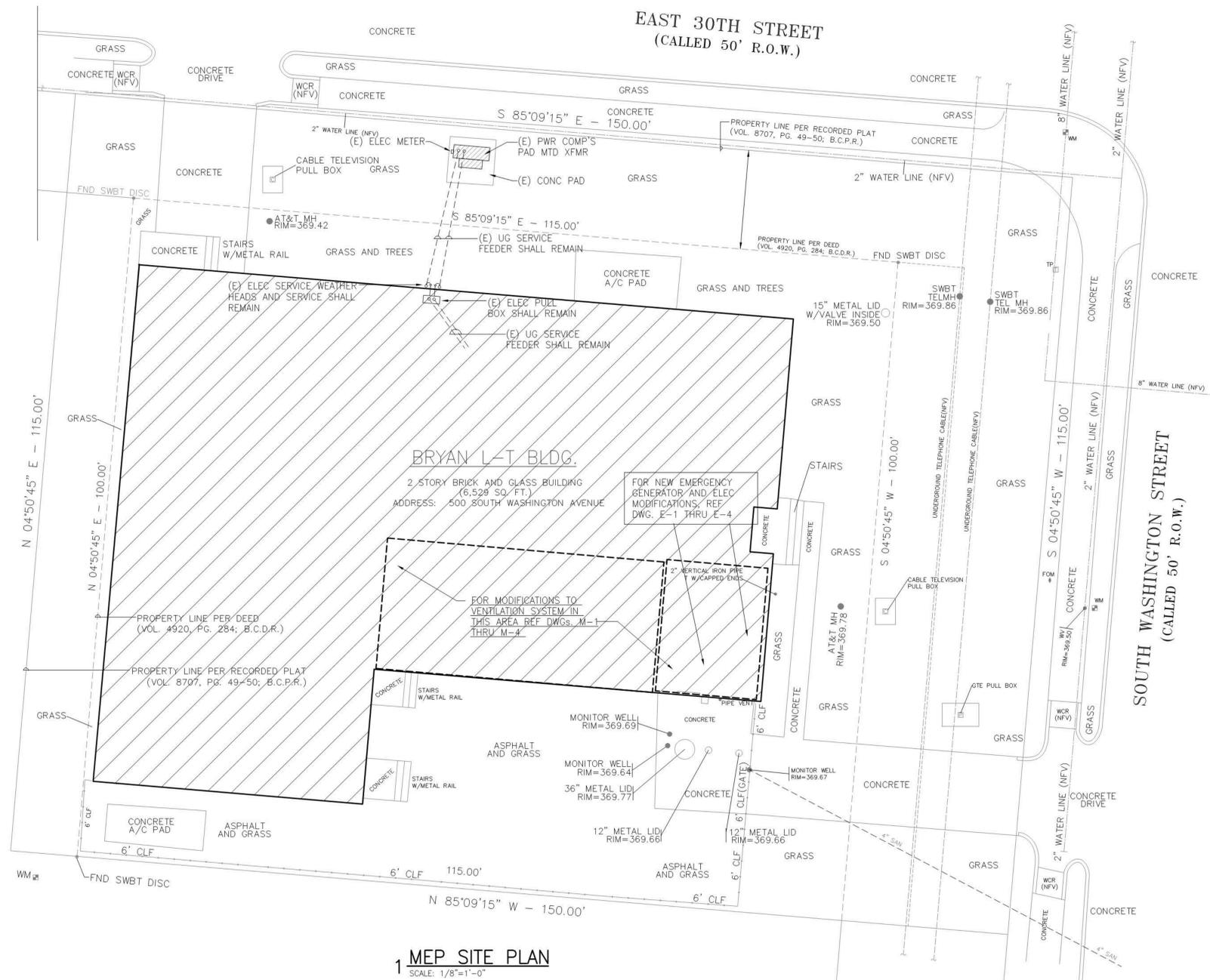
MEP SITE PLAN

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



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Table with 2 columns: AT&T PROJECT NUMBER, AT&T AUTHORIZATION. Includes GEOLC # and RUBEN MARTINEZ as AT&T PROJECT MANAGER.

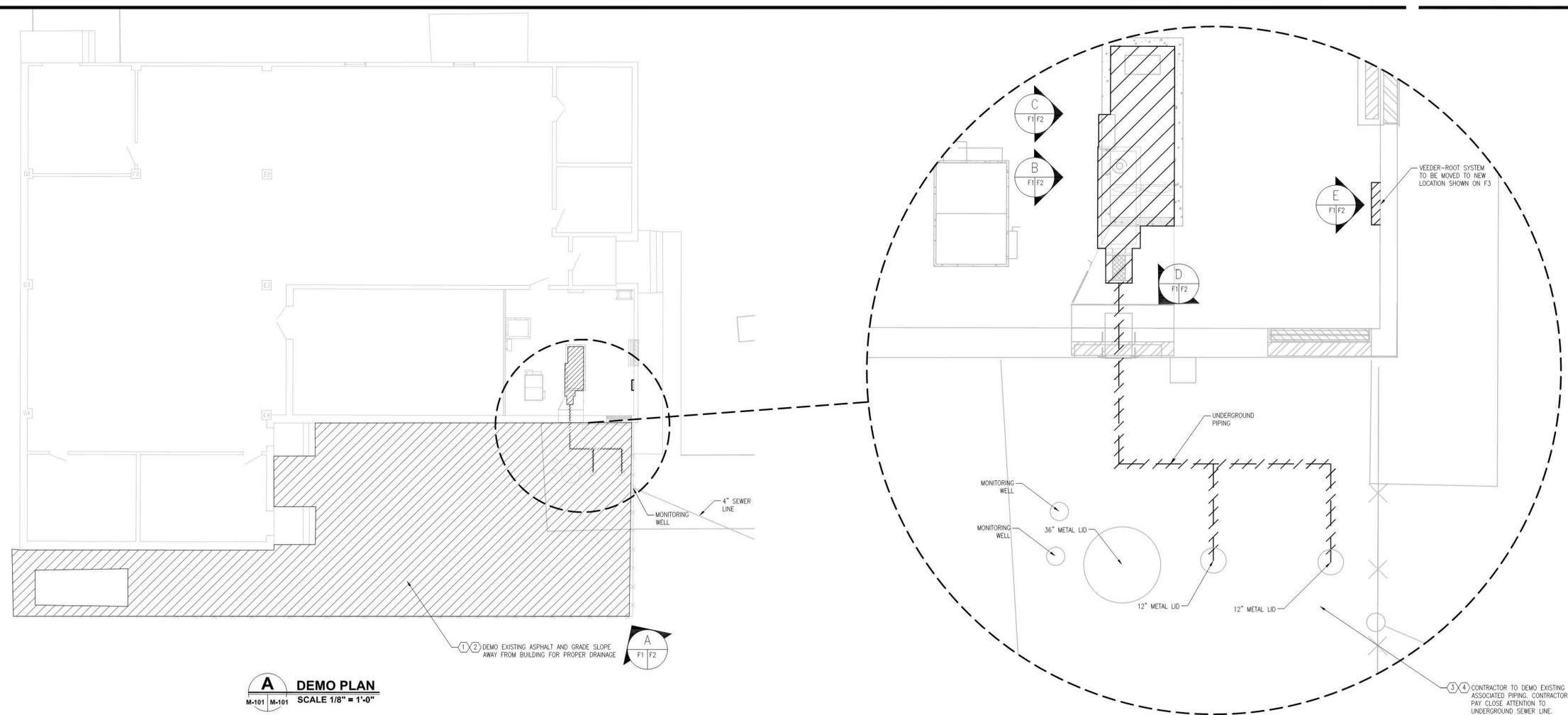
Table with 5 columns: Issue, Date & Issue Description, By, Check. Lists 4 issues related to UST and sewer line work.

Seal/Signature



Project Information Table including Project Name (AT&T BRYANTX01), Project Number (151394), CAD File Name, Description (K:\PROJECTS\151394_BRYAN ATTICAD FILES\WORKING), and Scale (AS-NOTED).

F-01
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A DEMO PLAN
SCALE 1/8" = 1'-0"

DEMOPLAN
SCALE - NTS

UNDERGROUND TANK DEMO & PIPE REMOVAL NOTES:

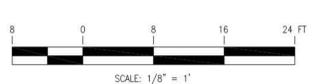
- 1. THE UNDERGROUND STORAGE TANK (UST) IS TO BE REMOVED ACCORDING TO ALL APPLICABLE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS...
2. PRE-CONSTRUCTION
A. COMPLETE A CONSTRUCTION NOTIFICATION FORM (TCEQ-0495) AND SUBMIT IT TO THE TCEQ REGISTRATION AND SELF-CERTIFICATION TEAM AT LEAST 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...
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...
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 (EXCAVATORS, TRANSPORTATION TRUCKS, TOOLS, ETC.) AND MATERIALS (STOCKPILES OF EXCAVATED SOILS, CLEAN IMPORTED SOILS, REMOVED UST/PIPING) 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...
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...
E. REMOVE SOIL OVERLYING THE UST AND PIPE CHASE TO A DEPTH OF FOUR FEET BELOW GRADE...
F. WHEN SOILS HAVE BEEN REMOVED FROM AROUND AND AROUND THE UST, ALL RISERS AND OTHER APPURTENANCES MUST BE REMOVED...
G. REMOVE PRODUCT LINES FROM THE EXCAVATION USING HAND DIGGING METHODS ONLY...
H. CONTRACTOR SHALL PROVIDE A VACUUM TRUCK TO COLLECT ALL RESIDUAL FLUIDS AND SLUDGE FROM THE UST...
I. PURGE ALL FLAMMABLE VAPORS TO LEVELS BELOW THE EXPLOSION LIMIT...
J. AFTER ALL VAPORS ARE REMOVED, PLUG ALL HOLES...
K. REMOVE THE TANK FROM THE GROUND AND LABEL IT...
L. TRANSPORT THE UST TO A CERTAIN TANK DESTRUCTION FACILITY...
M. SCREEN THE TANK HOLD SOILS FOR HYDROCARBONS USING A PHOTOIONIZATION DETECTOR (PID) AND NOTE ANY VISUAL AND/OR OLFACTORY INDICATION OF HYDROCARBON IMPACT...
6. SOIL SAMPLE COLLECTION
A. COLLECT SOIL SAMPLES FROM THE TANK BOTTOM, SIDEWALLS, AND PIPE CHASE FOR DETERMINATION OF HYDROCARBON IMPACTS...
7. BACKFILLING THE EXCAVATION
A. THE EXCAVATION SHOULD BE BACKFILLED WITH THE SAME NATIVE SOIL REMOVED...
8. REPORTING
A. IF NON-AQUEOUS-PHASE LIQUID (NAPL) IS OBSERVED IN THE EXCAVATION...
B. IF THE SOILS AND/OR INITIAL GROUNDWATER SAMPLE ARE DISCOVERED TO BE IMPACTED AT CONCENTRATIONS ABOVE ACTION LEVELS...
C. A SUMMARY REPORT DOCUMENTING ALL ASPECTS OF THE UST REMOVAL...

DEMOLITION NOTES:

- 1. CONTRACTOR TO FIELD VERIFY LOCATION OF TANK FOR PIPING ROUTE PRIOR TO DEMO...
2. CONTRACTOR TO FIELD VERIFY LOCATION OF PROPOSED NEW AST PRIOR TO DEMO OF ASPHALT...
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...

GRAPHIC SCALE



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 11" X 17" SIZE DRAWINGS



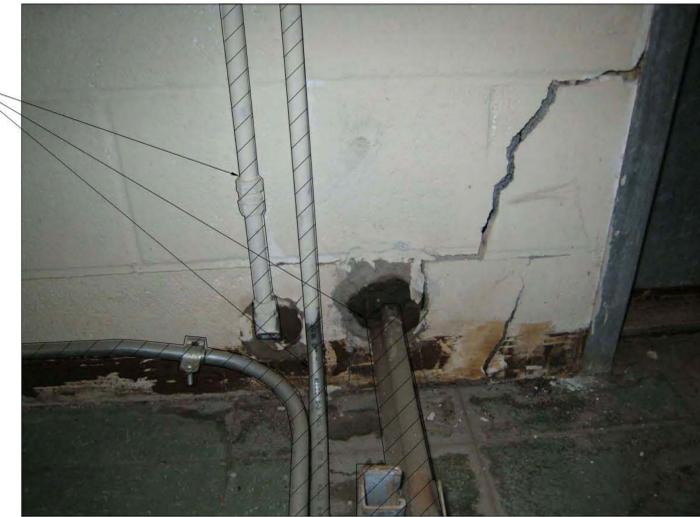
A UST DEMO
SCALE - N.T.S.



B GENERATOR DEMO
SCALE - N.T.S.



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



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



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

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Seal/Signature



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Project Name
AT&T BRYANTX01

Project Number
151394

CAD File Name
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Description
DEMO PLAN PHOTO

Scale
NTS

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F-02
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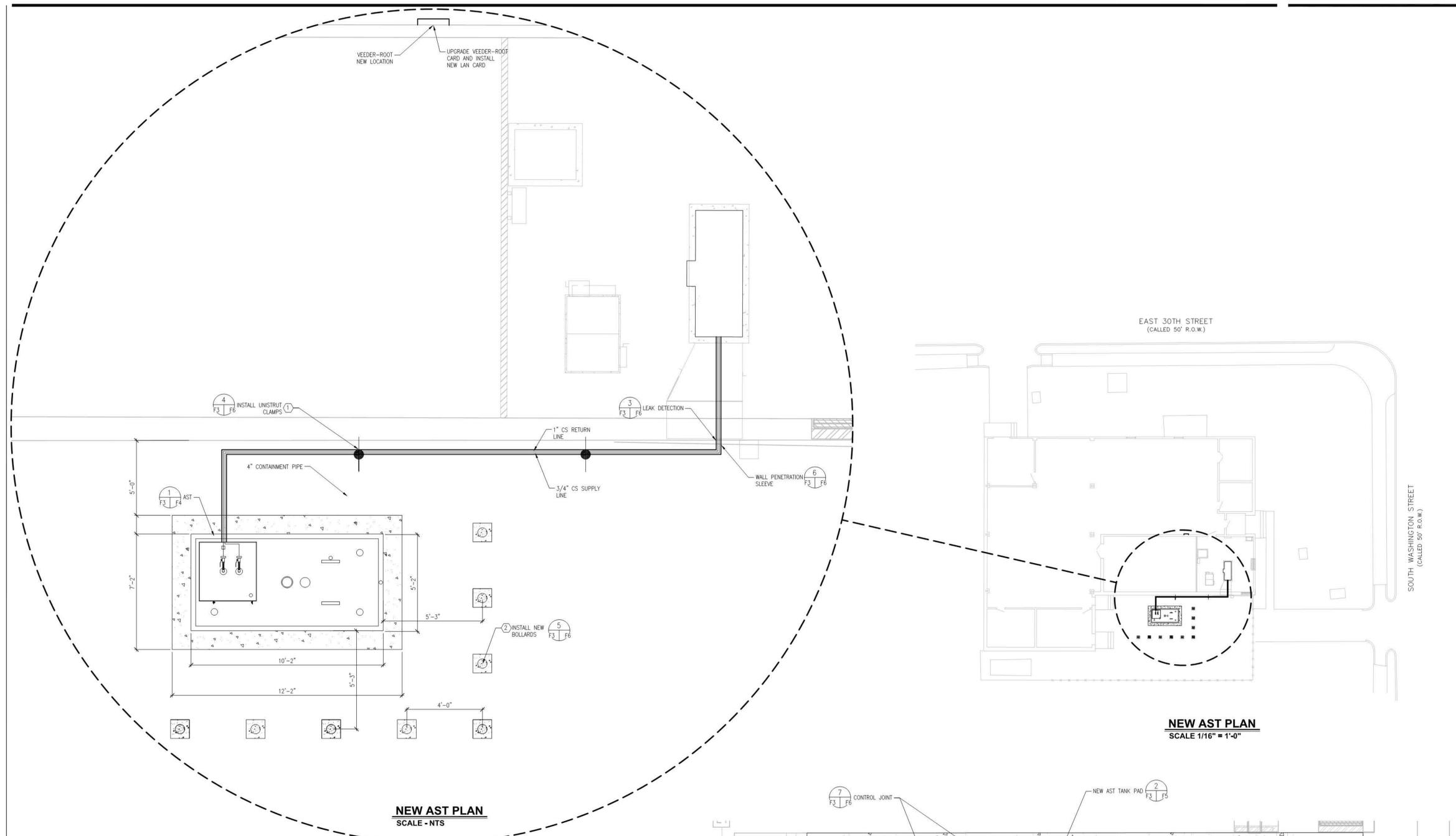
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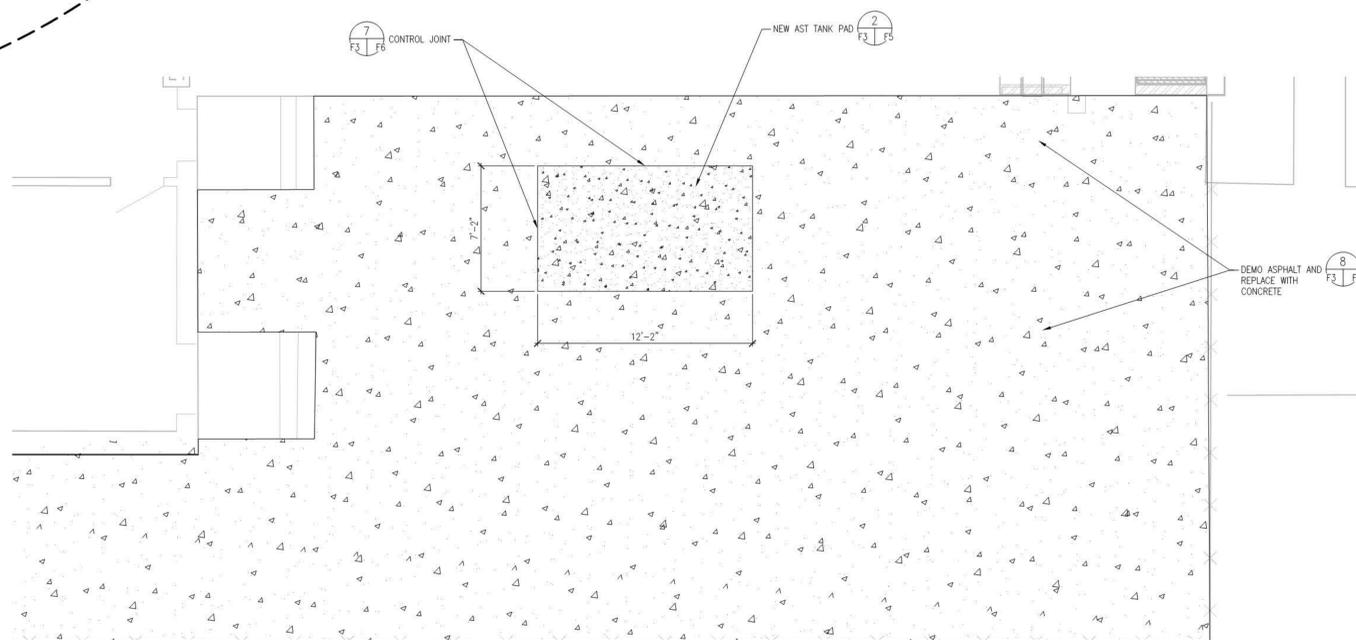
Description
 AST PLAN

Scale
 AS-NOTED

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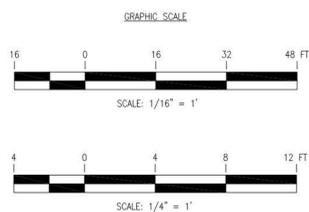


NEW AST PLAN
 SCALE 1/16" = 1'-0"

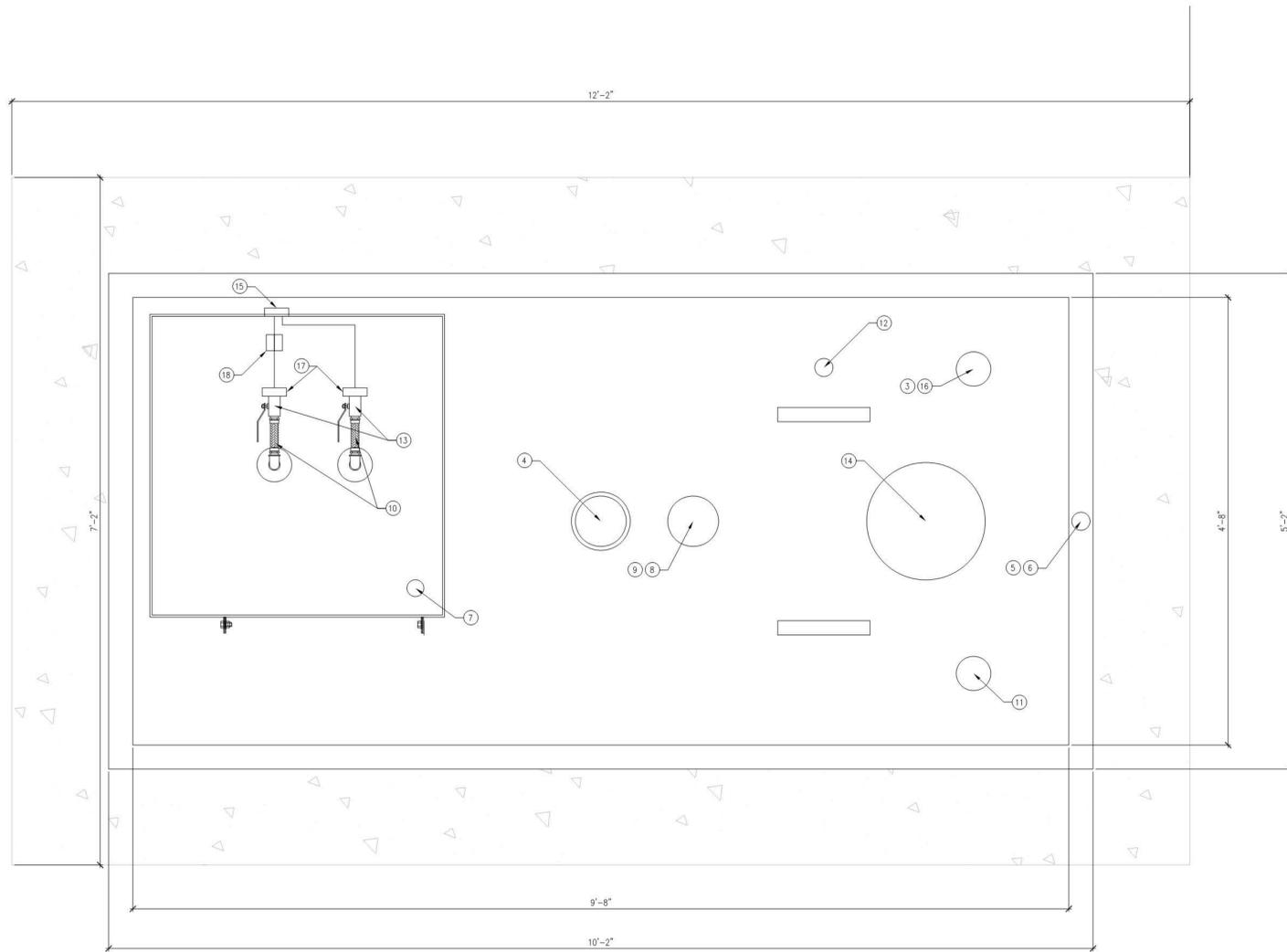


CONCRETE PLAN
 SCALE 1/4" = 1'-0"

- CONSTRUCTION NOTES:**
- INSTALL NEW SS UNISTRUTS WITH CLAMP (CTTP8) MIN. EVERY 15 FEET.
 - DESIGN INTENT IS TO HAVE MINIMUM 5'0" CLEAR BETWEEN BOLLARDS AND TANK.
- GENERAL NOTES:**
- SEE G2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - DISPOSE OF ALL MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.
- PIPE SUPPORTS

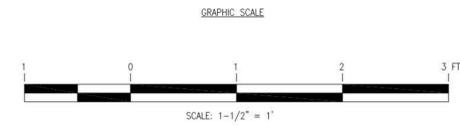


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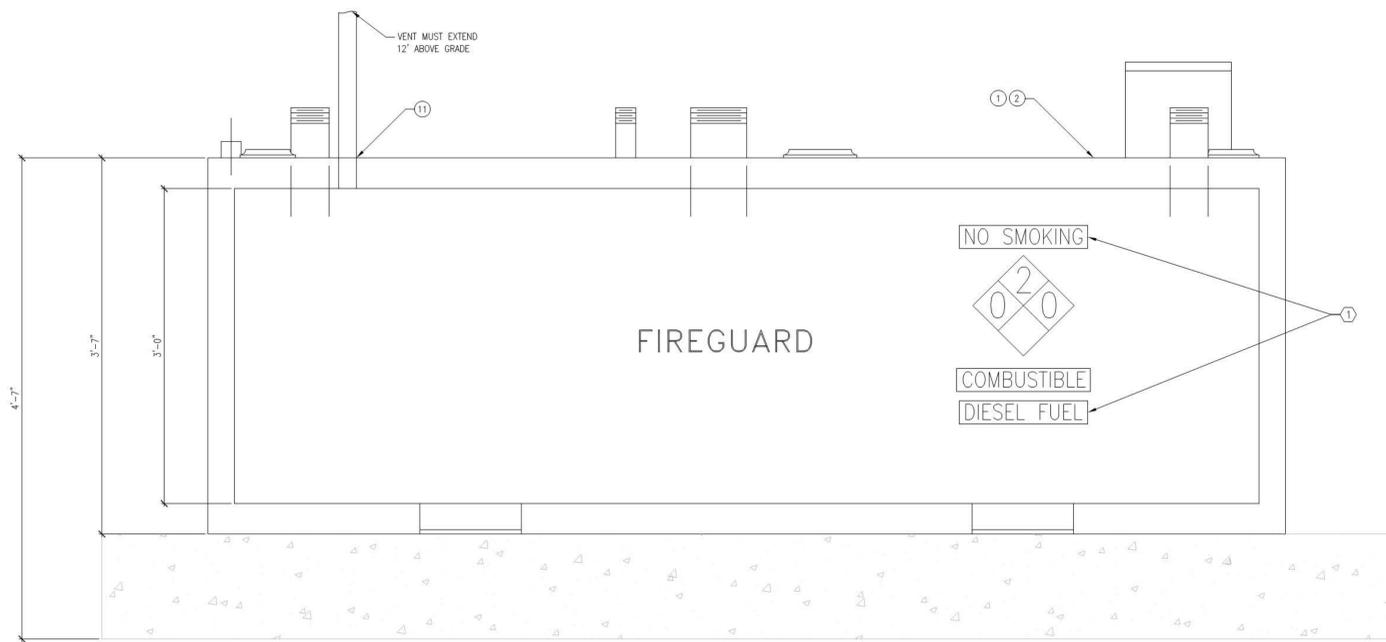


- MATERIAL LIST**
- 1 800 GALLON RECTANGULAR DOUBLE WALL STEEL UL-2085 FIRE RATED TANK. (10'-2" L X 5'-2" W X 3'-7" H) MODERN WELDING "FIREGUARD"
 - 2 COATING SHALL BE AS FOLLOWS:
A: PRIMER - IP66 ZINC (2-3 MILS OF DFT)
B: INTERMEDIATE - IP66 EPOXY (3-4 MILS DFT)
C: TOP - IP 168 POLYURETHANE (2-3 MILS DFT, WHITE)
 - 3 2" OVERFILL PREVENTION VALVE & DROP TUBE WITHIN 6" OF TANK BOTTOM. SET AT 95% TANK CAPACITY. SEW OH 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 SLUMP 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 PRODUCTS 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.
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1 AST DETAIL
SCALE 1-1/2" = 1'-0"



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



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4	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	K:\PROJECTS\151394_BRYAN ATTICAD FILES\WORKING
Description	AST DETAILS
Scale	AS-NOTED

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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 & COMMENT	G.L.H.	L.B./L.K.
2	02/28/14 ISSUED FOR REVIEW	S.H.	A.W.

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Project Name
AT&T BRYANTX01

Project Number
151394

CAD File Name
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Description
TANK FOUNDATION - PLANS, SECTIONS & DETAILS

Scale
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F-05
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CONCRETE NOTES & SPECIFICATIONS

- DESIGN, FABRICATION AND ERECTION OF WORK SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), LATEST ADDITION.
- MINIMUM CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH AND 2" FOR ALL OTHER CASES.
- ADMIXTURE
 - ALL PAVEMENT AND CURBS - USE WATER REDUCING AND RETARDING ADMIXTURE (2 HOUR RETARDATION).
 - OTHER CONCRETE - USE OF ADMIXTURE AT CONTRACTOR'S OPTION, BUT SUBJECT TO ENGINEER'S APPROVAL.
- ALL CONCRETE TO ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS AND REBAR IS TO BE GRADE 60 ksi.
- REINFORCED CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318), LATEST EDITION.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AS UNCHARTED OBSTRUCTIONS MAY BE ENCOUNTERED. IF UNCHARTED OBSTRUCTIONS ARE DISCOVERED, CONTACT ENGINEER FOR DIRECTION.
- A MINIMUM OF 1" NON-SHRINK GROUT SHALL BE USED FOR TANK SUPPORT BASE AS SHOWN ON DRAWINGS.
- IF REINFORCEMENT CAUSES INTERFERENCE WITH ANCHOR BOLTS, ADJUST THE REINFORCEMENT, NOT THE ANCHOR BOLTS.
- 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.
- SPLICES - IN ACCORDANCE WITH ACI-308.
- BAR BENDS, HOOKS AND OFFSETS SHALL BE IN ACCORDANCE WITH THE ACI 350 RECOMMENDATIONS.

DEMOLITION NOTES:

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

EXCAVATION, FILL & BACKFILL:

- 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).
- 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.
- 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.
- 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 AND APPLIED AS REQUIRED BY: 2009 INTERNATIONAL BUILDING CODE AND ASCE 7-10.

SITE COORDINATES: 30.67° N, 96.73° W

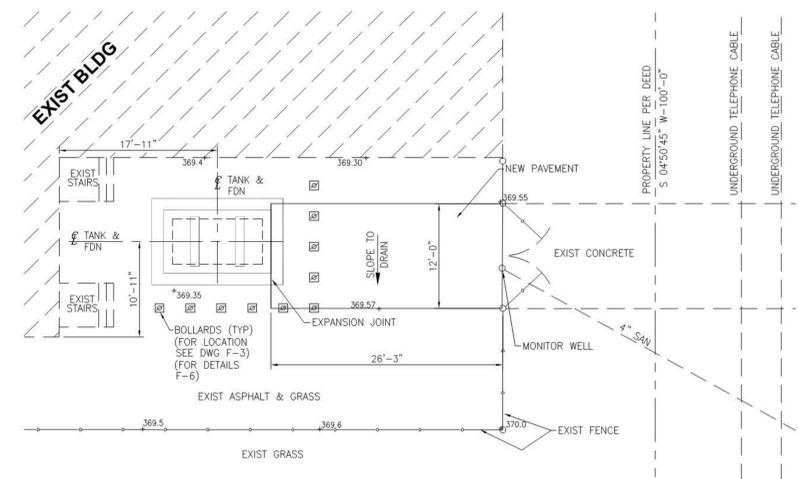
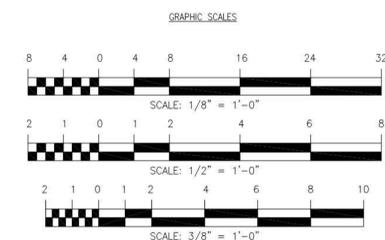
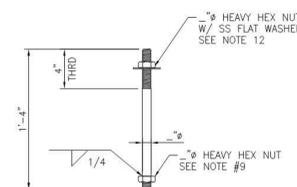
OCCUPANCY CATEGORY: IV

SITE SOIL CLASSIFICATION CATEGORY: OSHA SITE CLASS D

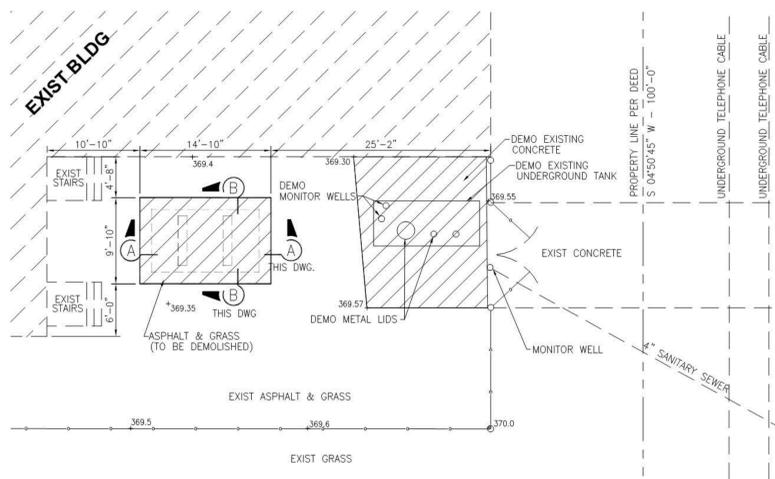
SEISMIC LOADS:
 S_s : 0.074g S_{ws} : 0.113g S_{ps} : 0.079g
 S_1 : 0.041g S_{w1} : 0.097g S_{p1} : 0.065g

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

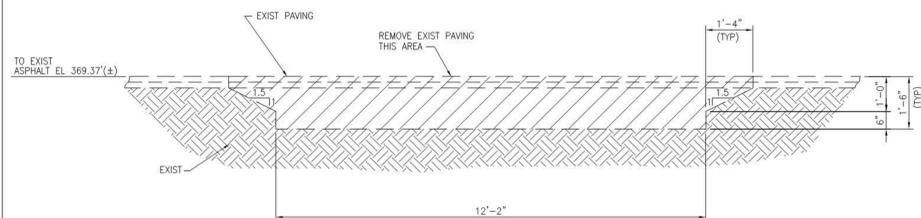
ANCHOR BOLT - AB-1
 SCALE NTS
 (4) REQ'D



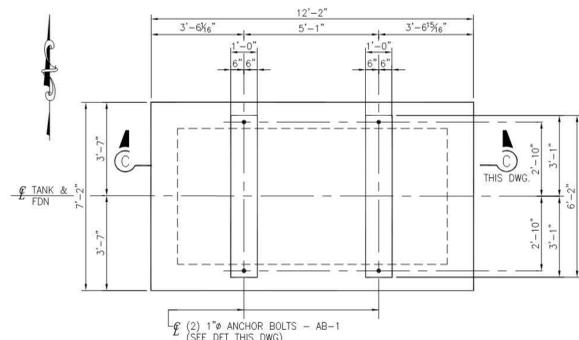
2 FUEL TANK PAD LAYOUT
 SCALE 1/8" = 1'-0"



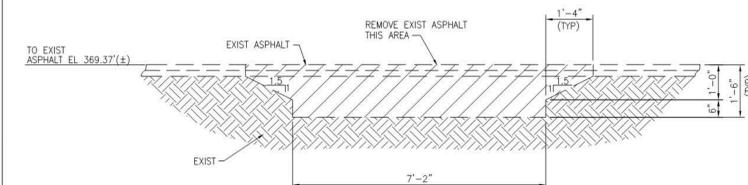
EXCAVATION LIMITS FOR FUEL TANK PAD LAYOUT
 SCALE 1/8" = 1'-0"



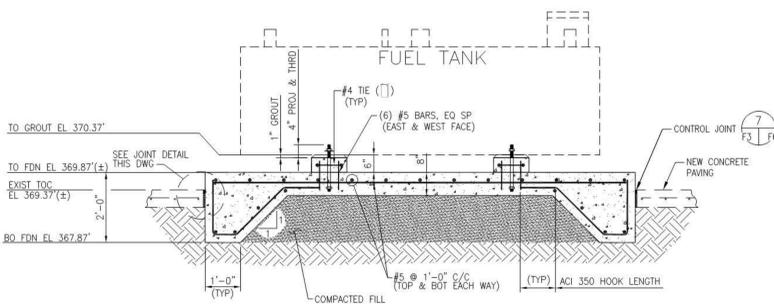
SECTION A-A
 SCALE 1/2" = 1'-0"



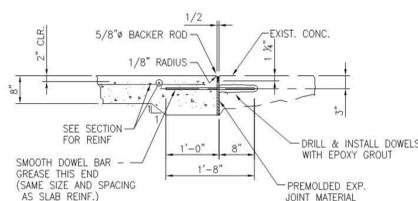
FUEL TANK PAD PLAN DIMENSIONS
 SCALE 3/8" = 1'-0"



SECTION B-B
 SCALE 1/2" = 1'-0"



SECTION C-C
 SCALE 1/2" = 1'-0"



PAVEMENT JOINT DETAIL
DOWELED TO EXISTING CONCRETE
 SCALE NTS

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GEOLOC #	RUBEN MARTINEZ
	AT&T PROJECT MANAGER

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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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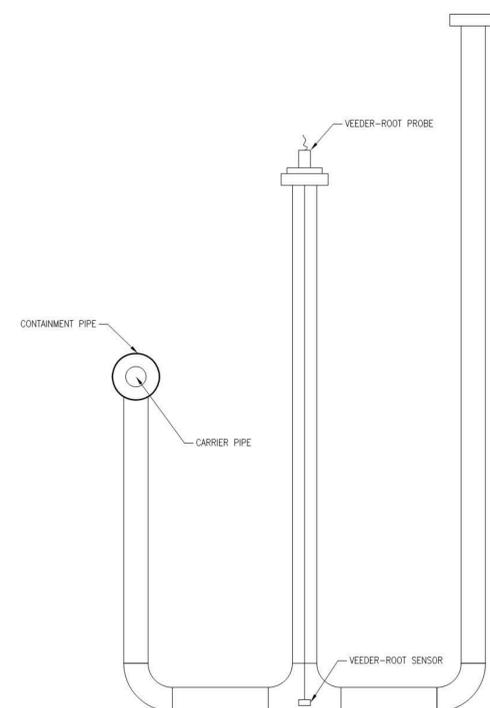
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Description
 DETAILS PAGE

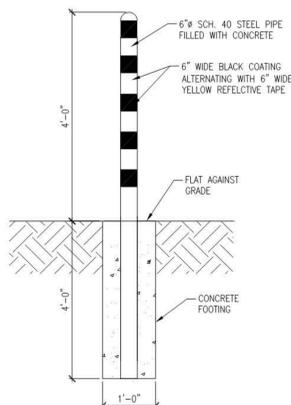
Scale
 NTS

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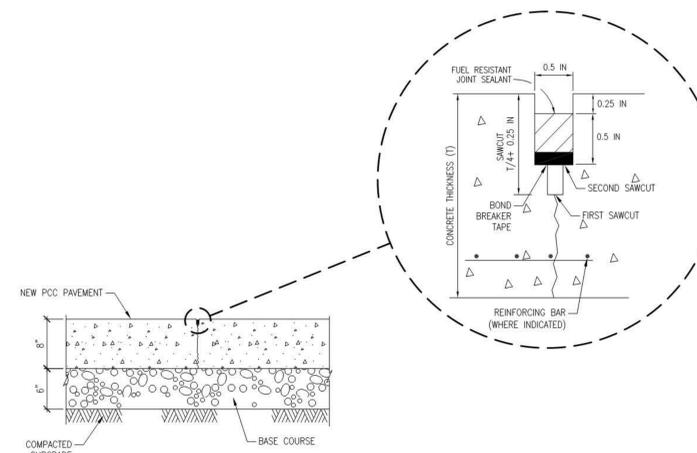
F-06
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3 PIPE LEAK DETECTION
 SCALE - N.T.S.

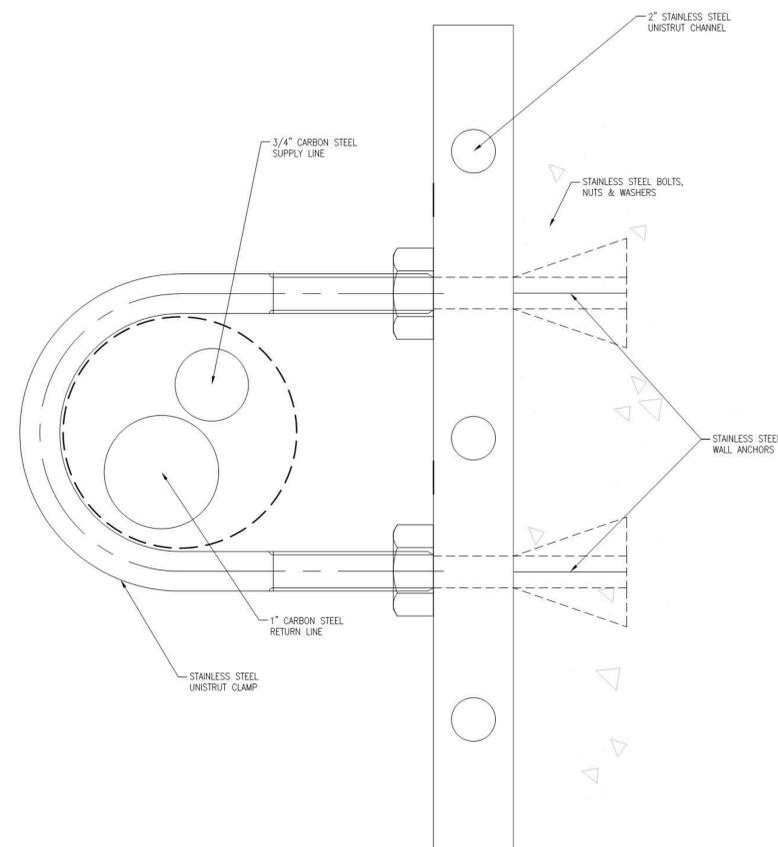


5 BOLLARD DETAIL
 SCALE - N.T.S.

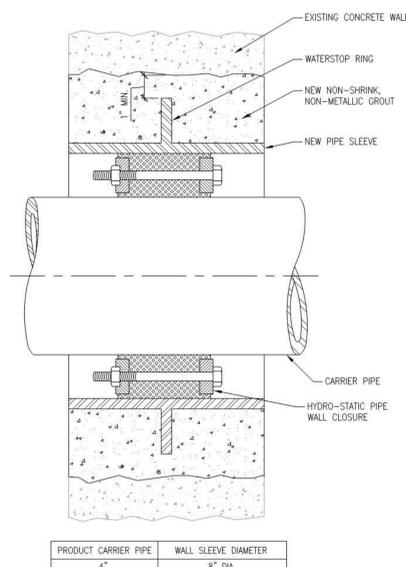


- GENERAL NOTES:**
- TOP OF JOINT SEALANT WILL BE 1/4-INCH BELOW TOP OF PAVEMENT.
 - JOINT SEALANT SHALL BE NON-SHRINK FUEL RESISTANT, POURABLE OR PREFORMED TYPE.
 - PREFORMED SEALANT SHALL HAVE AN UNCOMPRESSED WIDTH OF NOT LESS THAN TWICE THE WIDTH OF THE JOINT SEALANT RESERVOIR.
 - NONABSORPTIVE MATERIAL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

7 CONTROL JOINT DETAIL
 SCALE - N.T.S.

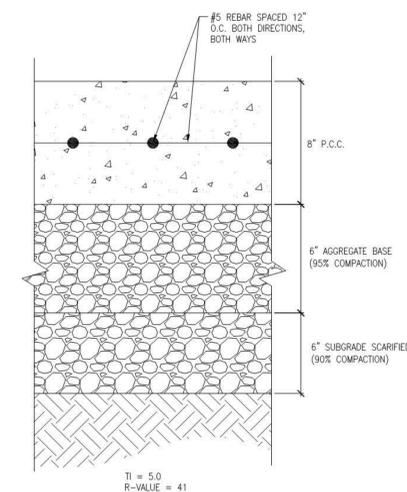


4 UNISTRUT CLAMP DETAIL
 SCALE - N.T.S.



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

6 LINK-SEAL DETAIL
 SCALE - N.T.S.

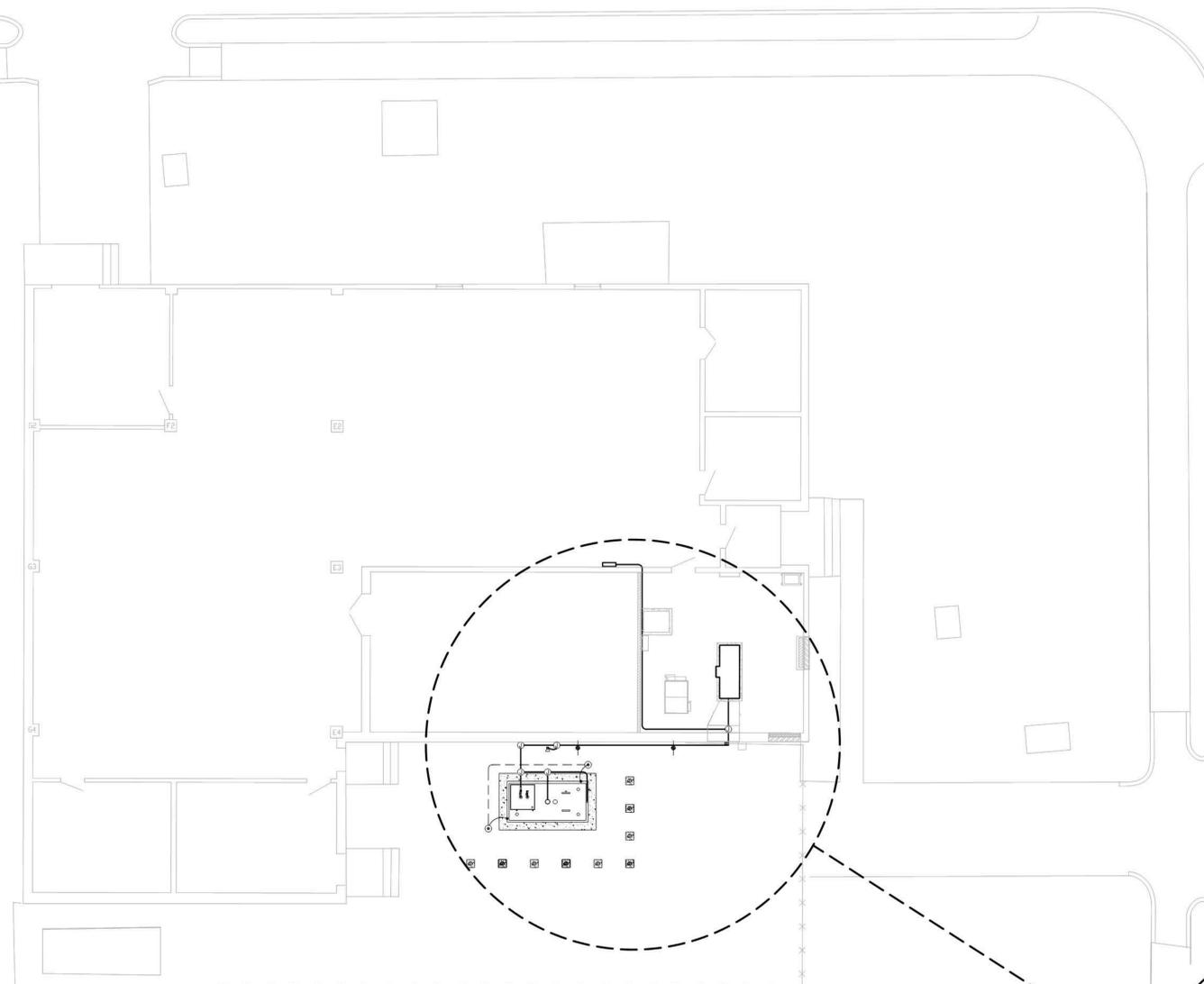
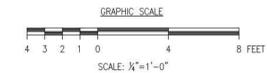


8 PAVEMENT INSTALLATION DETAIL
 SCALE - N.T.S.

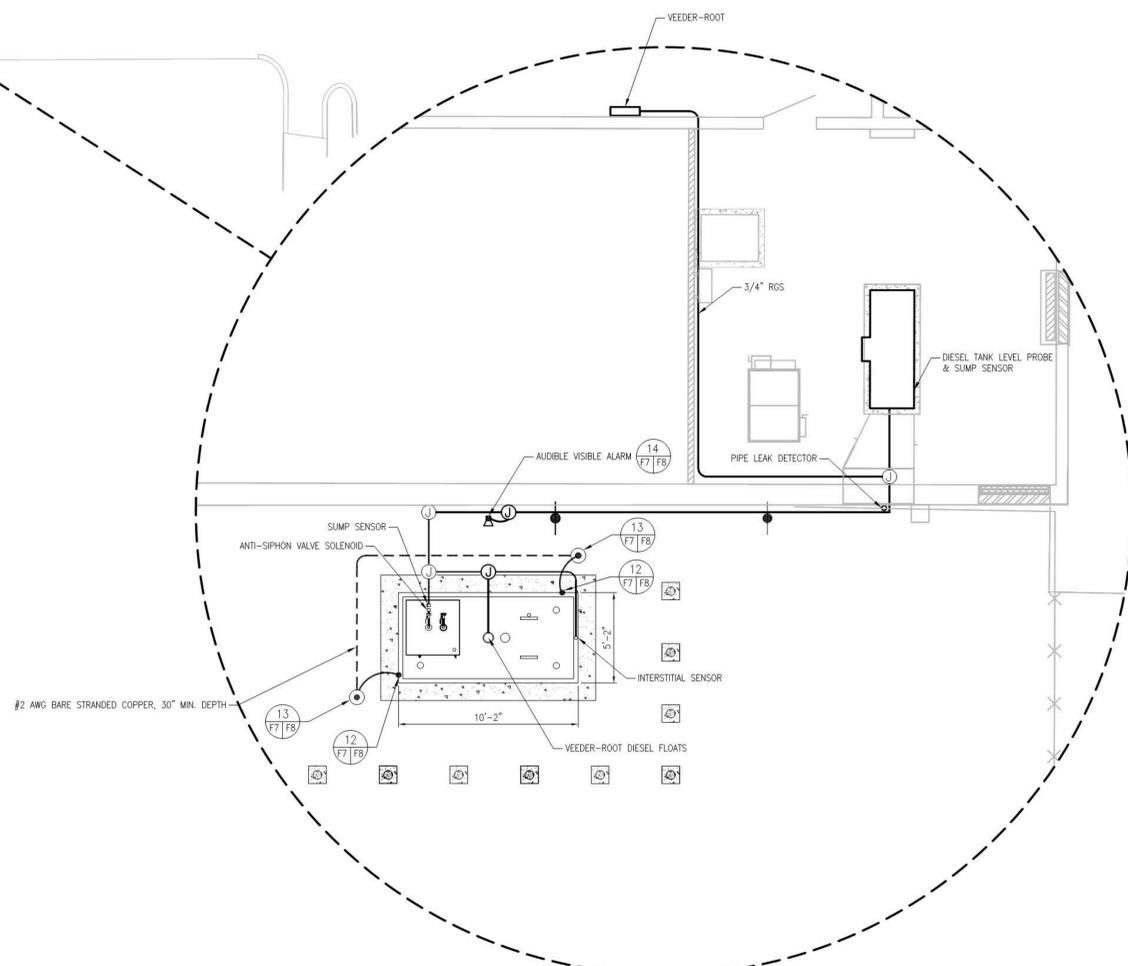
EAST 30TH STREET
(CALLED 50' R.O.W.)

SOUTH WASHINGTON STREET
(CALLED 50' R.O.W.)

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



NEW AST ELECTRICAL LAYOUT PLAN
SCALE 1/8" = 1'-0"



#2 AWG BARE STRANDED COPPER, 30" MIN. DEPTH



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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	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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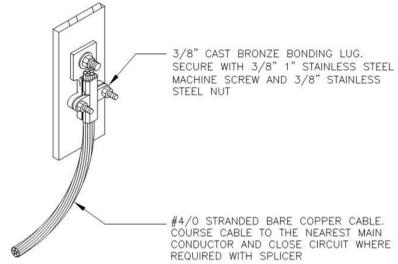
Description
COCAD FILES-WORKING
ELECTRICAL PLAN

Scale
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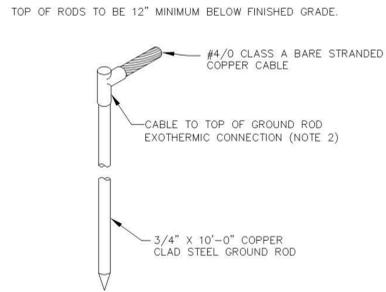
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12 METAL EQUIPMENT BONDING DETAIL
SCALE - N.T.S.

F7 F8

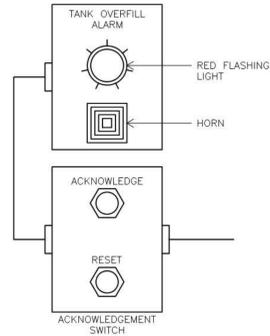
DRAWING SYMBOL
●



13 TYPICAL GROUNDING ROD
SCALE - N.T.S.

F7 F8

DRAWING SYMBOL
●



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

F7 F8

DRAWING SYMBOL
●

GROUNDING NOTES:

- 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.
- ALL COMPONENTS SHALL BE LISTED FOR THEIR INTENDED USE AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.
- ALL BELOW GRADE OR EMBEDDED GROUNDING CONNECTIONS SHALL BE "EXOTHERMIC WELDING PROCESS".
- ALL EXPOSED GROUND CONNECTIONS SHALL BE EXOTHERMIC OR APPROVED MECHANICAL TYPE.
- SURFACES WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEAN AND DRY:
 - STEEL SURFACES SHALL BE GROUND OR FILED TO BRIGHT METAL, REMOVING ALL SCALE, RUST, GREASE AND DIRT.
 - COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY CLOTH TO REMOVE OXIDES BEFORE MAKING CONNECTIONS.



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3	3/28/14 ISSUED FOR PERMIT, PRICING & PRICING	TMB	KCB

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Project Name
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Project Number

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Description
ELECTRICAL DETAILS

Scale
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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	02/28/14 ISSUED FOR REVIEW	S.H.	A.W.
2	03/28/14 ISSUED FOR PERMIT, PRICING & CONSTRUCTION	S.H.	J.G.

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Project Name
AT&T BRYANTX01

Project Number

CAD File Name
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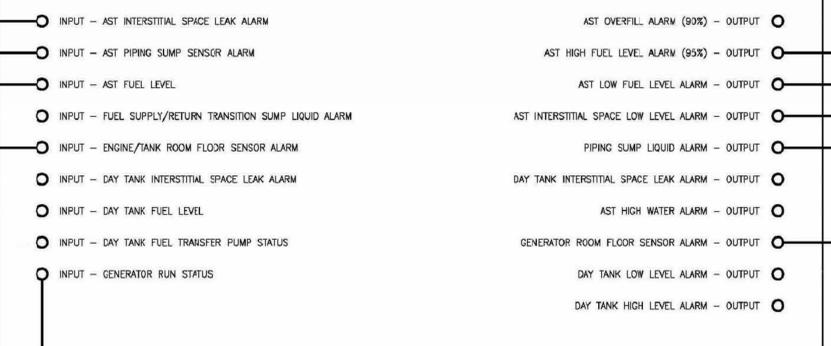
Description
 VEEDER-ROOT DIAGRAM

Scale
 AS-NOTED

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VEEDER ROOT TLS 350 CONSOLE

VEEDER-ROOT TLS-350PLUS TANK MONITORING CONSOLE WITH INTEGRAL PRINTER, SITEFAX INTERFACE MODULE, RS-232 INTERFACE MODULE, AND ETHERNET - TCP/IP COMMUNICATIONS MODULE.



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

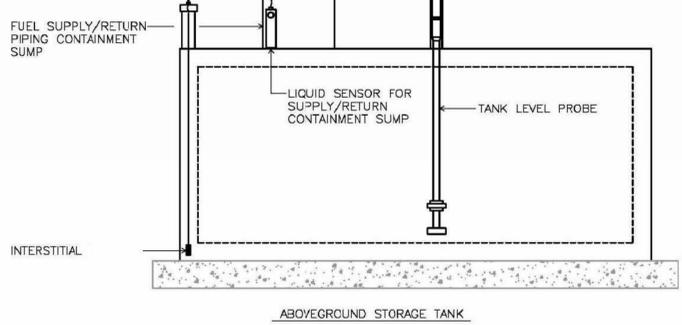
NOTE:
 PAV TO VERIFY RUN STATUS AND/OR PUMP RUN STATUS WITH ENGINE AND/OR CONTROLS VENDOR.

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:
- THE VEEDER-ROOT CONSOLE SHALL ONLY BE INSTALLED, STARTED UP, RELOCATED, REPAIRED, OR REPLACED, BY A VEEDER-ROOT LEVEL 4 CERTIFIED TECHNICIAN.
 - ALL VEEDER-ROOT PROBES AND SENSORS SHALL BE CONNECTED TO THE SYSTEM CONSOLE USING SHIELDED CABLE, BELDEN 88760 OR 88761.
 - EACH VEEDER-ROOT CONSOLE MUST HAVE ITS OWN SEPARATE 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.
 - REFER TO VEEDER-ROOT SITE PREPARATION AND INSTALLATION MANUAL FOR SPECIFIC WIRING INSTRUCTIONS.
 - PRIOR TO MONITOR CERTIFICATION PAV SHALL ENSURE THE MODEM HAS BEEN PROVIDED AND POT'S HAS BEEN CONFIRMED OPERATIONAL.
 - PAV TO VERIFY RUN STATUS AND/OR PUMP RUN STATUS WITH ENGINE AND/OR CONTROLS VENDOR.
 - 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

ALL SCALES ARE INDICATED FOR "E" SIZE DRAWINGS