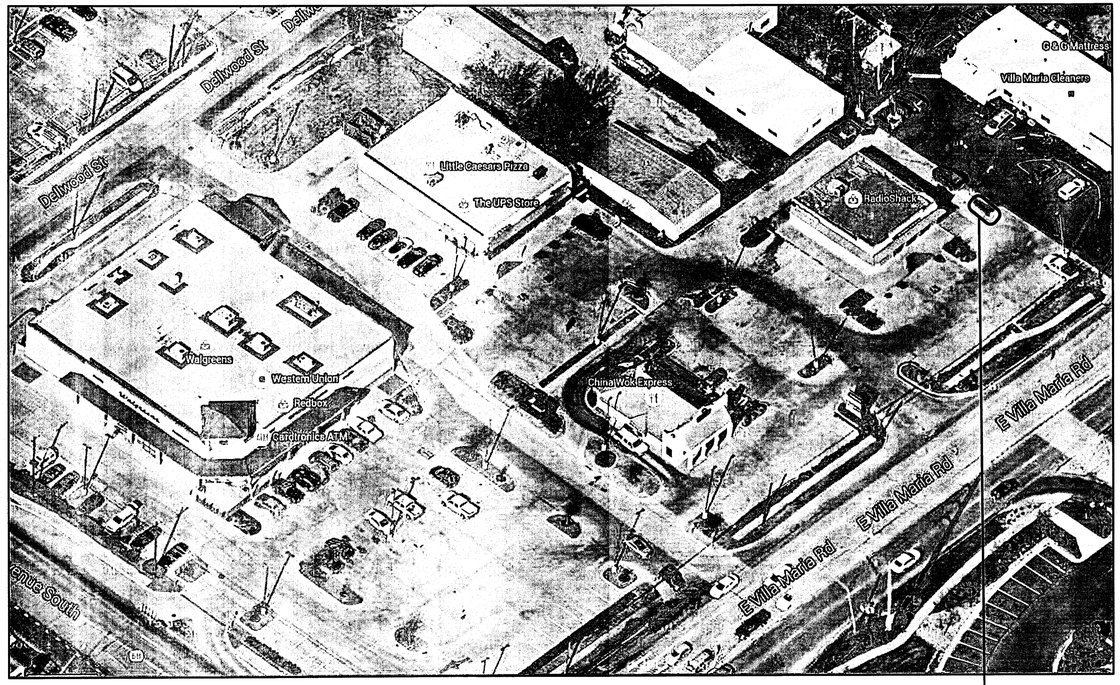


LOCATION MAP

AREA OF WORK

WELLS FARGO

"BRYAN VILLA MARIA"

614 E. VILLA MARIA RD.
BRYAN, TX 77802

SCOPE: INSTALL NEW DRIVE-UP ATM, ENCLOSURE, PEDESTAL, VHD, LIGHT POLE & BOLLARDS ON NEW FOUNDATION.

CLIENT

ONE SOURCE SECURITY
JON LINDSEY
2925 FM 1960 EAST
HUMBLE, TX. 77338
(713) 934-7400

ENGINEER

MDM SERVICES, INC.
RICHARD R. MORRIS, P.E.
3251 S.W. 13th DRIVE, SUITE "D"
DEERFIELD BEACH, FL. 33442
(954)-427-3076

OWNER

TEXAS - VILLA MARIA RETAIL LP
900 TOWN & COUNTRY LN,
STE 210
HOUSTON, TX 77024

CODE/ZONE SUMMARY:

BUILDING CODE:	2009 IBC
ACCESSIBILITY GUIDE:	ADAAG 2010
ELECTRICAL CODE:	2011 NFPA 70 NEC
ZONE / DISTRICT:	C-2, RETAIL DISTRIC (CITY OF BRYAN ZONING ORDINANCE, SECTION 130-14)

DRAWING LIST:

DRAWING NUMBER	TITLE
CV-0.0	COVER SHEET
SP-1.0	SITE PLAN - ATM ADDITION
SP-2.0	ENLARGED PLAN - EXISTING & PROPOSED
SP-2.1	ATM LAYOUT DETAILS
E-1.0	ELECTRICAL PLAN
SD-1.0	ATM ENCLOSURE DETAILS & SPECIFICATIONS - SHEET 1
SD-1.1	ATM ENCLOSURE DETAILS & SPECIFICATIONS - SHEET 2
LSR-1.0	LANDSCAPE RESTORATION, 2005 SITE LANDSCAPING
	RECORD DRAWING PER CITY ARCHIVE

WELLS FARGO BANK---ATM ADDITION

JUL 20 2016

COVER SHEET

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE: No.: REVISION: BY:

SCALE: DATE: 06-10-2016
DRAWN BY: AS PROPOSED GRADES BY:
CHECKED BY: S.S.#
APPROVED BY:

Do Not Scale—Use Dimensions Only
To the best of my knowledge, the plans and specifications submitted herein comply with applicable laws and provisions of the applicable Building Codes. No warranty expressed or implied is hereby given.

PLANS PREPARED BY:
MDM
engineering . environmental . construction
3251 SW 13th DRIVE, SUITE "D", DEERFIELD BEACH, FL. 33442
FL EB #004857 TX FR #F-13377 (954) 427-3076

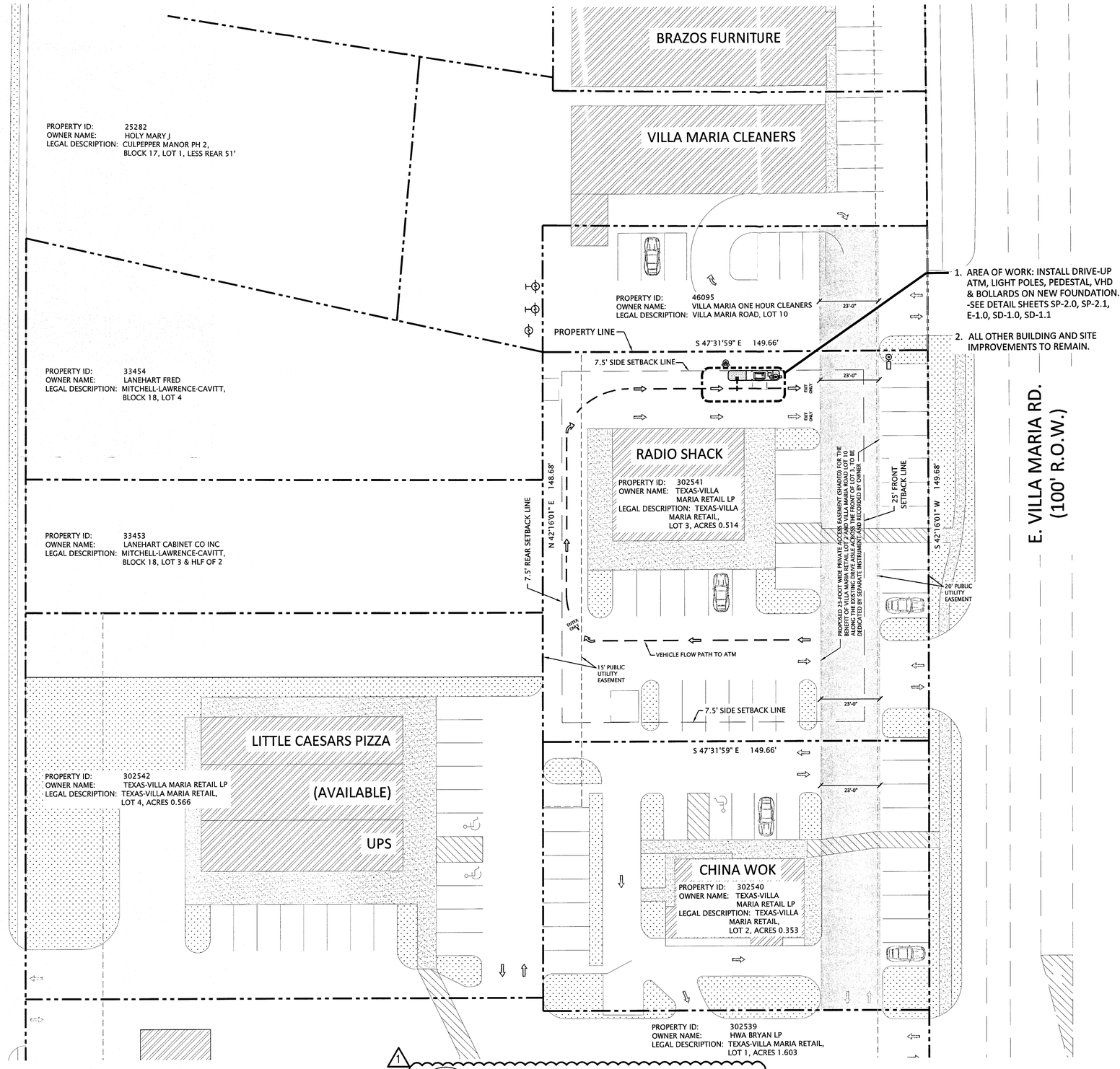
STATE OF TEXAS
RICHARD R. MORRIS
85957
LICENSED
PROFESSIONAL ENGINEER
JUL 14 2016

RICHARD R. MORRIS
TX REG # 85957

JOB # 16106

DWG # CV-0.0

SHEET NUMBER



1 **SITE PLAN---ATM ADDITION**
SCALE: 1" = 20'-0"

GENERAL NOTES:

1. THIS MAP IS NOT A CERTIFIED SURVEY, CONTRACTOR TO FIELD VERIFY SITE INFORMATION TO CONFIRM ACCURACY OF LOCATION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
2. THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THIS PLAN; THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED EXCAVATION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. PROVIDE MINIMUM OF 48 HOURS NOTICE TO OWNER OR REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY EXISTING UTILITY, IF BEING UTILIZED.
4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATION & PROTECTION OF EXISTING ABOVE & BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL MAINS OR INDIVIDUAL SERVICES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE UTILITY OWNER. ANY AND ALL MAINS OR INDIVIDUAL SERVICES PRESENTLY NOT IN SERVICE AND WHICH ARE TO BE REPLACED DURING THE COURSE OF CONSTRUCTION MAY BE REMOVED AND LEGALLY DISPOSED OF IF DAMAGED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR ALL UNDERGROUND AND OVERHEAD UTILITIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION. THESE PERMITS AND APPROVALS MAY INCLUDE BUT ARE NOT LIMITED TO GRADING, DEMOLITION, ZONING, BUILDING, DRIVEWAY, DETENTION, SUBDIVISION, SPECIAL USE, SEWER & WATER.
7. NO ADDITIONAL IMPERVIOUS PERCENTAGE INCREASE FOR THIS SITE.

1

8. PER CITY RECOMMENDATION, TO ENSURE ADEQUATE ON-SITE CIRCULATION, PROPOSE 23-FOOT WIDE PRIVATE ACCESS EASEMENT FOR THE BENEFIT OF VILLA MARIA RETAIL LOT 2 AND VILLA MARIA ROAD LOT 10 ALONG THE EXISTING DRIVE AISLE ACROSS THE FRONT OF LOT 3, DEDICATED BY SEPARATE INSTRUMENT, AND RECORDED BY OWNER.
9. ALL SIGNAGE SHALL BE PERMITTED SEPARATELY. APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY PROPOSED SIGNAGE.
10. PROVIDE/VERIFY THAT ALL LANDSCAPING INSTALLED DURING THE 2005 RENOVATION OF THE PROPERTY IS PRESENT AND HEALTHY. REPLACE LANDSCAPING MATERIALS NOT PRESENT AND HEALTHY. SEE 2005 SITE LANDSCAPING RECORD DRAWING FROM CITY ARCHIVE SHEET LSR-1.0.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTAINMENT AND PROPER DISPOSAL OF ALL LIQUID AND SOLID WASTE ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PREVENT THE OCCURRENCE OF WINDBLOWN LITTER FROM THE PROJECT SITE.

NOTE: DEMOLITION/CONSTRUCTION WASTE - SITE IS REQUIRED TO PROVIDE CONTAINMENT FOR WASTE PRIOR TO AND DURING DEMOLITION/CONSTRUCTION. SOLID WASTE ROLL OFF BOXES AND/OR METAL DUMPSTERS SHALL BE SUPPLIED BY CITY OR CITY PERMITTED CONTRACTOR(S) ONLY.

SITE DATA:

PROPERTY LEGAL DESCRIPTION: TEXAS-VILLA MARIA RETAIL, LOT 3, ACRES 0.514

ZONING CLASSIFICATION: C-2, RETAIL DISTRICT
SURROUNDING PROPERTIES: C-2, RETAIL DISTRICT

PROPERTY DOES NOT LIE WITHIN A DESIGNATED FLOOD PLAIN AREA ACCORDING TO THE F.I.R.M. MAPS, COMMUNITY PANEL NO. 48014C0141, DATED JULY 2, 1992

EASEMENTS IMPACTING THE PROPERTY FROM THE CITY OF BRYAN APPROVED "FINAL PLAT OF LOTS 1 - 4 TEXAS-VILLA MARIA RETAIL" DATED NOVEMBER 15, 2004, BY KERR SURVEYING. LLC.

PROJECT: WELLS FARGO BANK --- ATM ADDITION
614 E. VILLA MARIA RD.
BRYAN, TX 77802

CLIENT: ONE SOURCE SECURITY
JON LINDSEY
2925 FM 1960 EAST
HUMBLE, TX. 77338

ENGINEER: MDM SERVICES, INC.
RICHARD R. MORRIS, P.E.
3251 S.W. 13th DRIVE, SUITE "D"
DEERFIELD BEACH, FL. 33442
(954)-427-3076

OWNER: TEXAS-VILLA MARIA RETAIL LP
900 TOWN AND COUNTRY LN, SUITE 210
HOUSTON, TX 77024-2229

SITE PLAN - ATM ADDITION

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE:	NO.:	REVISION:	BY:
7/5/16	1	RESPONSE FOR SITE DEVELOPMENT REVIEW COMMITTEE COMMENTS	AS

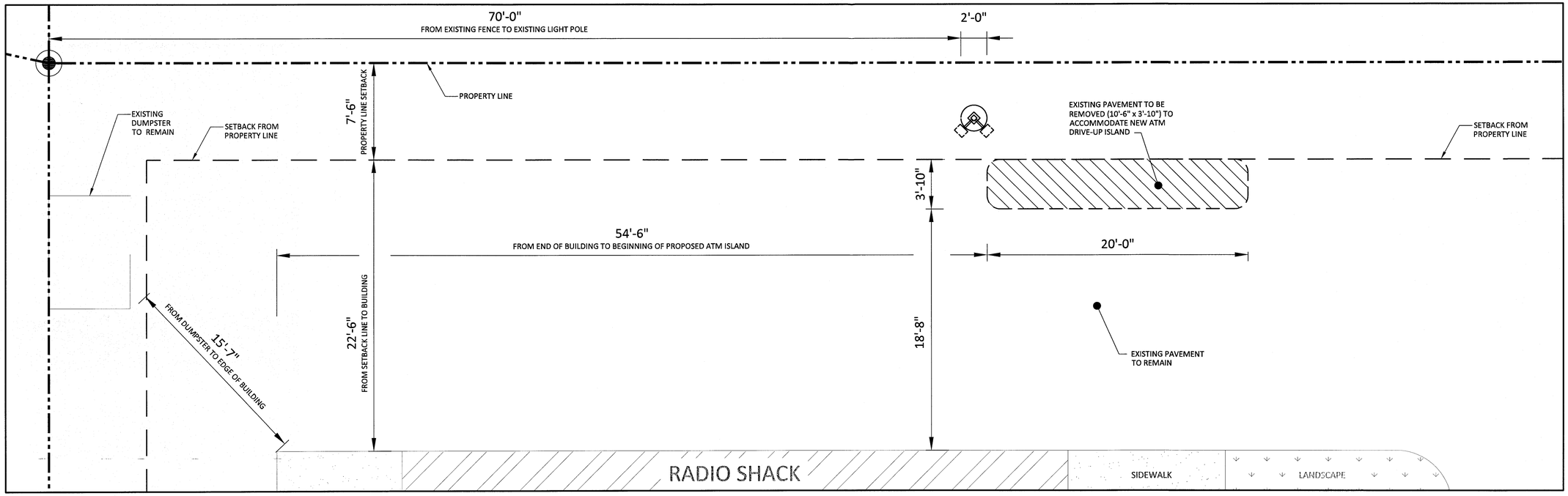
SCALE: AS SHOWN
DRAWN BY: AS
CHECKED BY:
APPROVED BY:
DATE: 06-10-2016
PROPOSED GRADES BY:
S.S.#

Do Not Scale-Use Dimensions Only
• To the best of our knowledge, the plans and specifications submitted herewith comply with existing interpretations and applicable codes, rules, regulations and laws. No other warranty expressed or implied is hereby given.

PLANS PREPARED BY:
MDM engineering • environmental • construction
3251 SW 13th Street, Suite D, Deerfield Beach, FL 33442
FL EB #004587 TX FR #F-13377 (954) 427-3076

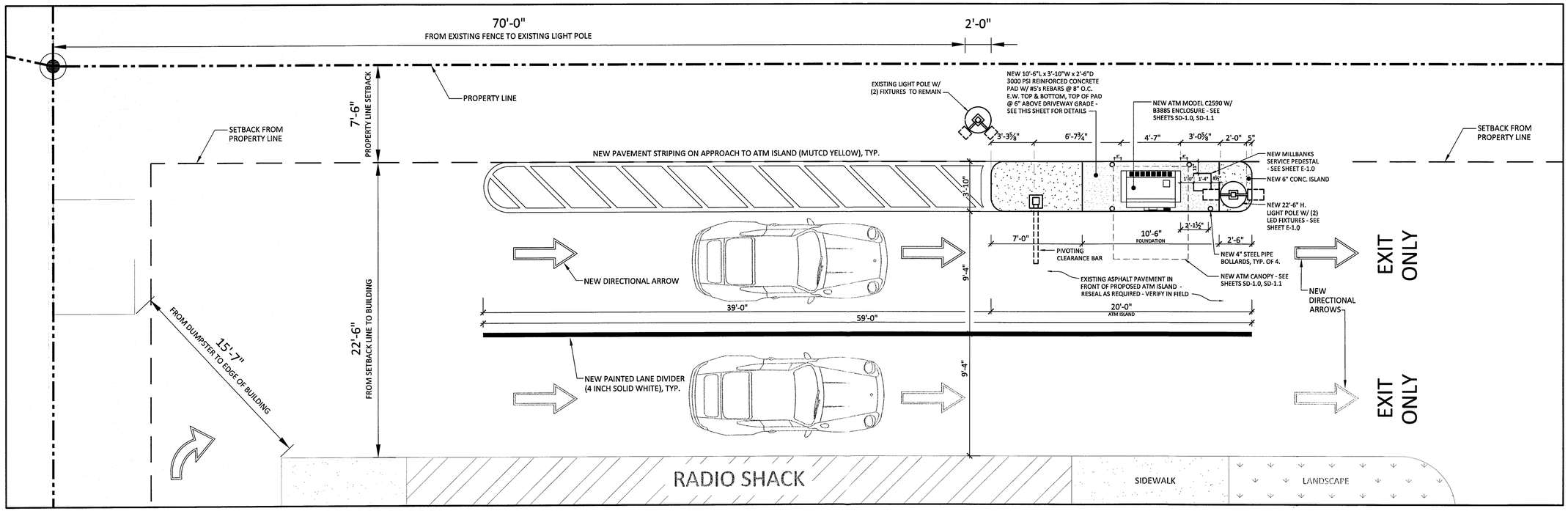
RICHARD R. MORRIS
85957
LICENSED PROFESSIONAL ENGINEER
JUL 17 2016
RICHARD R. MORRIS
TX REG # 85957

JOB # 16106
DWG # SP-1.0
SHEET NUMBER



ENLARGED PLAN---EXISTING

SCALE: 1/4" = 1'-0"



ENLARGED PLAN---PROPOSED

SCALE: 1/4" = 1'-0"

ENLARGED---EXISTING & PROPOSED

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE:	No:	REVISION:	BY:
7/5/16	1	REVISED PER SITE DEVELOPMENT REVIEW COMMITTEE COMMENTS	AS

SCALE: AS NOTED
DATE: 06-10-2016
DRAWN BY: AS
PROPOSED GRADES BY: S.S.#
CHECKED BY:
APPROVED BY:

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MDM
engineering environmental, construction
3251 SW 13th DRIVE, SUITE "D", DEERFIELD BEACH, FL 33442
FL EB #004857 TX FR #F-13377 (954) 427-3076

STATE OF TEXAS
RICHARD R. MORRIS
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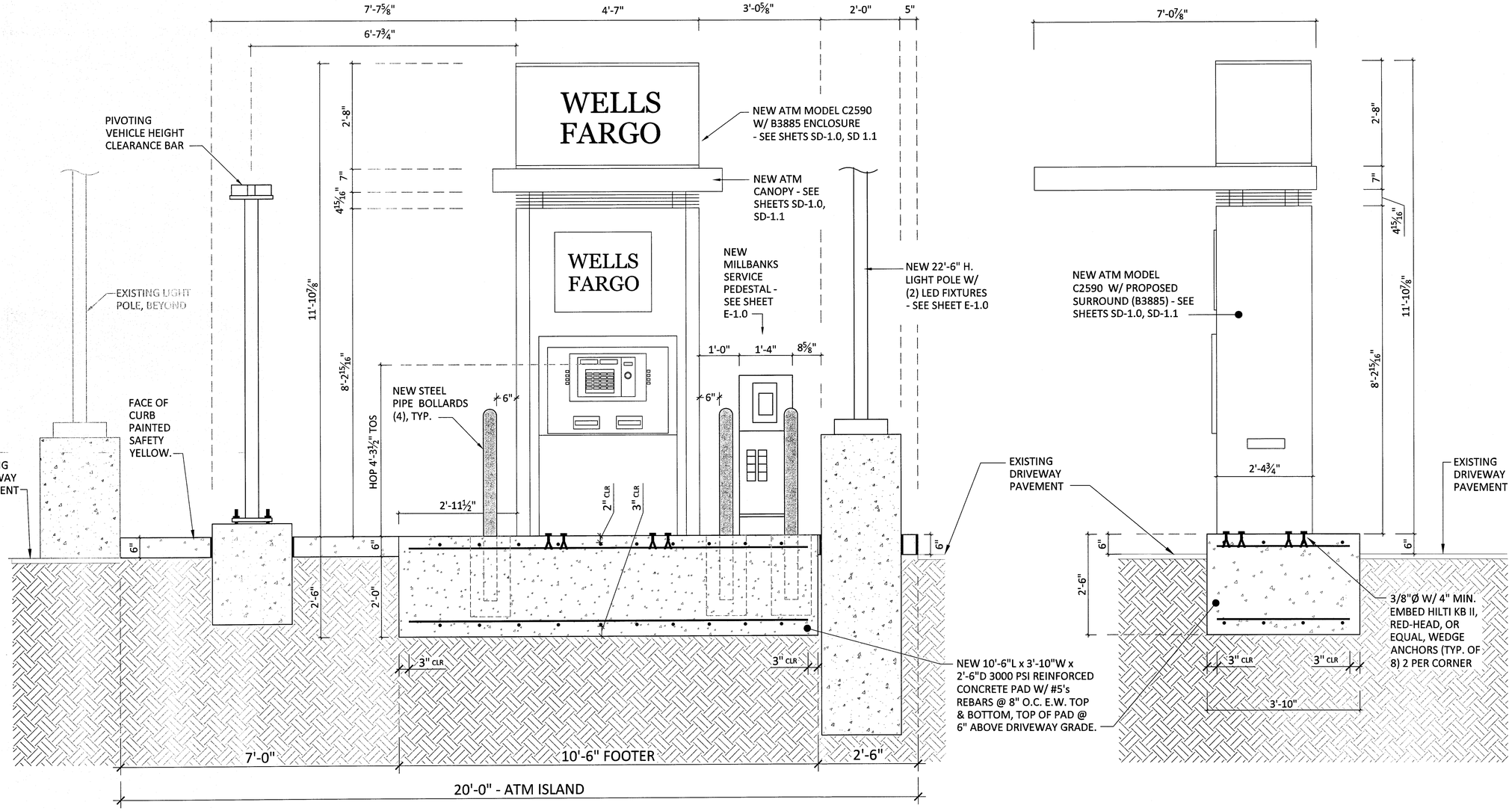
RICHARD R. MORRIS
TX REG # 85957

JUL 12 2016

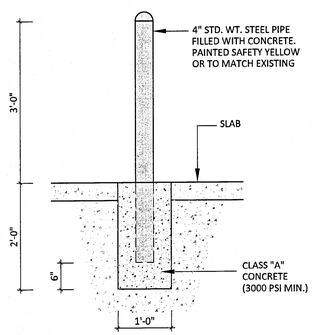
JOB # 16106
DWG # SP-2.0
SHEET NUMBER



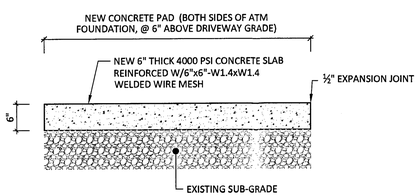
FRONT VIEW
SCALE: 3/4" = 1'-0"

SIDE VIEW
SCALE: 3/4" = 1'-0"

ELEVATIONS
SCALE: 3/4" = 1'-0"



BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



CONCRETE SLAB DETAIL
SCALE: 3/4" = 1'-0"

ATM DETAILS, ELEVATIONS

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE:	No.:	REVISION:	BY:

SCALE: AS NOTED
DATE: 06-10-2016
DRAWN BY: AS
PROPOSED GRADES BY:
CHECKED BY:
S.S.#
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STATE OF TEXAS
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JUL 17 2016
RICHARD R. MORRIS
TX REG # 85957

JOB # 16106
DWG # SP-2.1
SHEET NUMBER

DESIGN CRITERIA:

CODE: 2012 INTERNATIONAL BUILDING CODE

LOADS:

WIND: SEE WIND DESIGN CRITERIA CHART
ROOF LIVE LOAD: 20PSF UNIFORM LIVE LOAD

NOTES TO BUILDER AND/OR SITE DEVELOPER:
1.ALL SITE WORK, INCLUDING THE LOCATION OF THE BUILDING MAY BE REQUIRED TO BE REVIEWED AND APPROVED BY A LOCAL REGISTERED ARCHITECT OR ENGINEER TO VERIFY CODE COMPLIANCE INCLUDING, BUT NOT LIMITED TO FIRE, RESISTENCE RATING FOR EXTERIOR PROTECTION, MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS AND OTHER PERTINENT SITE-RELATED MATTERS.
2.WHERE APPLICABLE, CONSTRUCTION DOCUMENTS, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL BY THEM VIA THE NORMAL INSPECTION AND PERMIT PROCESS.

GENERAL NOTES:
1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR THE DESIGN AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," AISC, 13TH EDITION, AND THE 2012 IBC.
2. STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS:
A. PLATES, ANGLES, CHANNELS, TUBES - ASTM A36, FY=36 KSI
B. HSS (RECT.) - ASTM A500 GRADE B, FY=46 KSI
3. ALL WELDING SHALL BE PERFORMED BY EXPERIENCED, CERTIFIED WELDERS USING THE ELECTRIC ARC WELDINGPROCESS, E70XX SERIES ELECTRODES FOR WELDING STRUCTURAL STEEL, WELDING SHALL CONFORM TO AISC AND AWS STANDARD.
4. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, SIZE OF WELD SHALL BE BASED ON ASIC STANDARD FOR THICKER PART JOINED.
5. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED.
6.APPLY CORROSIVE RESISTANT PAINT TO ALL WELDS AND STEEL SURFACES. U.N.O.
7. ALL BOLTS MINIMUM GRADE A307
8. ENCLOSURE CLASSIFICATION: ENCLOSED.
9. MAXIMUM ROOF BUILDING HEIGHT = 10FT.

FOOTING NOTES:
1. SOIL SHALL BE CLEAN SAND WITH A MINIMUM ALLOWABLE BRNG PRESSURE OF 2000 PSF.
2. CONCRETE: SHALL BE 2500 P.S.I. @ 28 DAYS.
3. REINFORCING STEEL: SHALL BE GRADE 60.
4.SOIL TO BE COMPACTED TO AT LEAST 95% UNDER SLABS AND 98% UNDER FOOTINGS OF MAX DRY DENSITY AS DETERMINED BY ASTM-1557 (MODIFICTED PROCTOR)

ELECTRICAL NOTES:
1. ELECTRICAL STUBS TO EXTEND 16" BELOW GRADE FOR CLEARANCE OF ANCHOR BOLTS.
2. CONTRACTOR TO FURNISH ISOLATED GROUND FOR ATM IN ACCORDANCE WITH NEC AND LOCAL BUILDING CODES.
3. FINAL ELECTRICAL HOOK UP FOR ENCLOSURE TO BE DONE BY CONTRACTOR.
4. CONTRACTOR SHALL COORDINATE WITH ATM VENDOR SPECIFICATIONS FOR ELECTRICAL SUB-UP REQUIREMENTS.

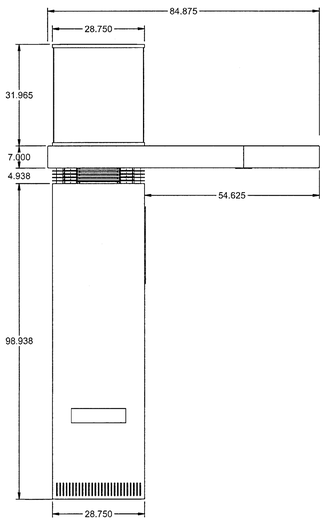
WELLS FARGO
BRYAN VILLA MARIA
614E VILLA MARIA
BRYAN, TX 77802
ATM ID: TMPATM28701

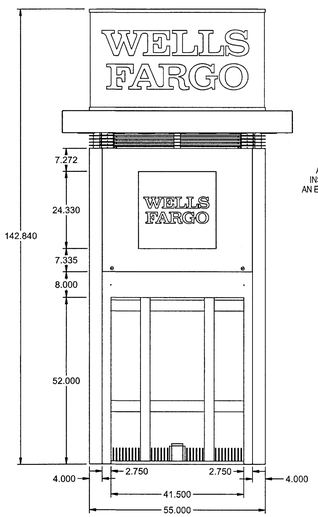
WIND DESIGN CRITERIA CHART (ASCE 7-10)	
WIND VELOCITY (MPH)	177 VULT
BUILDING CATEGORY	I
EXPOSURE CATEGORY (ALL SIDES)	C
ENCLOSED STRUCTURE INTERNAL PRESSURE COEFFICIENT	0.18 -0.18
COMPONENT & CLADDING PRESSURES	48 PSF
FORCE COEFFICIENT (Cf)	1.77
GUST FACTOR (G)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.0
WIND DIRECTIONAL FACTOR (Kd)	0.9
VELOCITY PRESSURE COEFFICIENT (Kz)	0.85

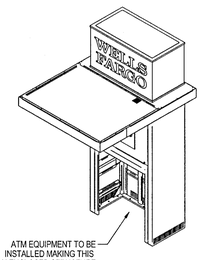
STATE OF TEXAS · WILLIAM O. WHISONANT · 108198 · LICENSED PROFESSIONAL ENGINEER · 6/7/16

CUSTOMER: WELLS FARGO
SITE ADDRESS: 614E VILLA MARIA, BRYAN, TX 77802
PROJECT NUMBER: TFC44122
PROJECT TITLE: WF83865 for NCR8638 / BRYAN VILLA MARIA / TMPATM28701
DRAWN BY: SAP 6/6/2016
CHECKED: DFS XXX
APPROVAL: SRF XXX
SCALE: NTS SHEET NO.
SIZE: 11" X 17" SHEET 1 OF 7
REVISIONS/PROJECT NOTES: 1. 2. 3. 4. 5. 6.

FITTS — THE FITTS COMPANY — 111 EXECUTIVE CIRCLE | CARY, NC 27511 — 441 INDUSTRIAL CIRCLE | LEXINGTON, NC 27292 — P: 800.336.0947 F: 800.336.0987

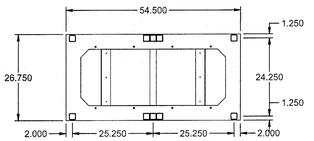


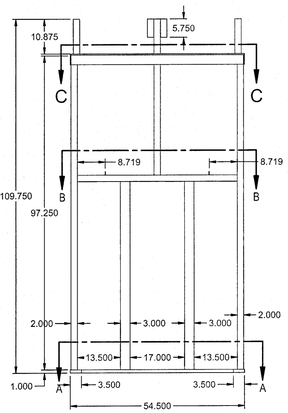


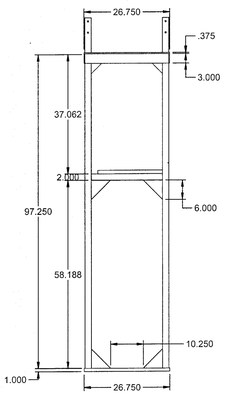


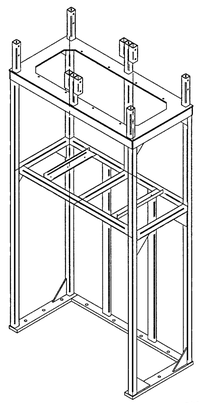
ATM EQUIPMENT TO BE INSTALLED MAKING THIS AN ENCLOSED STRUCTURE

STATE OF TEXAS · WILLIAM O. WHISONANT · 108198 · LICENSED PROFESSIONAL ENGINEER · 6/7/16

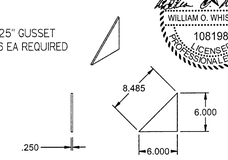








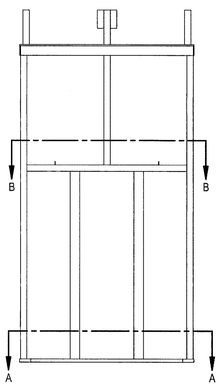
ISOMETRIC VIEW

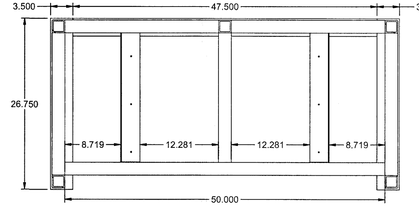


STATE OF TEXAS · WILLIAM O. WHISONANT · 108198 · LICENSED PROFESSIONAL ENGINEER · 6/7/16

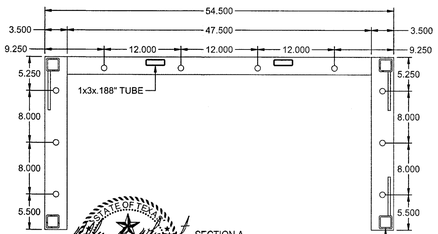
CUSTOMER: WELLS FARGO
SITE ADDRESS: 614E VILLA MARIA, BRYAN, TX 77802
PROJECT NUMBER: TFC44122
PROJECT TITLE: WF83865 for NCR8638 / BRYAN VILLA MARIA / TMPATM28701
DRAWN BY: SAP 6/6/2016
CHECKED: DFS XXX
APPROVAL: SRF XXX
SCALE: NTS SHEET NO.
SIZE: 11" X 17" SHEET 3 OF 7
REVISIONS/PROJECT NOTES: 1. 2. 3. 4. 5. 6.

FITTS — THE FITTS COMPANY — 111 EXECUTIVE CIRCLE | CARY, NC 27511 — 441 INDUSTRIAL CIRCLE | LEXINGTON, NC 27292 — P: 800.336.0947 F: 800.336.0987





SECTION B



SECTION A

STATE OF TEXAS · WILLIAM O. WHISONANT · 108198 · LICENSED PROFESSIONAL ENGINEER · 6/7/16

CUSTOMER: WELLS FARGO
SITE ADDRESS: 614E VILLA MARIA, BRYAN, TX 77802
PROJECT NUMBER: TFC44122
PROJECT TITLE: WF83865 for NCR8638 / BRYAN VILLA MARIA / TMPATM28701
DRAWN BY: SAP 6/6/2016
CHECKED: DFS XXX
APPROVAL: SRF XXX
SCALE: NTS SHEET NO.
SIZE: 11" X 17" SHEET 4 OF 7
REVISIONS/PROJECT NOTES: 1. 2. 3. 4. 5. 6.

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ATM ENCLOSURE SPECIFICATIONS - SHEET 1

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE: | NO.: | REVISION: | BY:

SCALE: AS NOTED
DATE: 06-10-2016
DRAWN BY: AS
PROPOSED GRADES BY:
CHECKED BY:
S.S.#
APPROVED BY:

Do Not Scale-Use Dimensions Only
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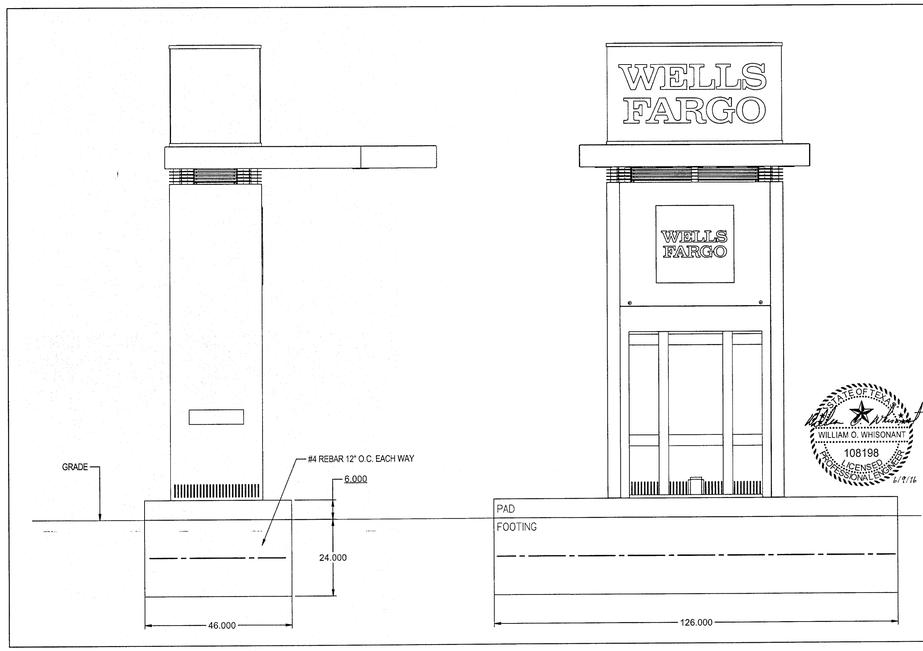
PLANS PREPARED BY:
MDM
engineering · environmental · construction
3251 SW 15th DRIVE, SUITE 107, DEERFIELD BEACH, FL 33442
FL EB #00487 TX FIR-#F-13377
(954) 427-3076

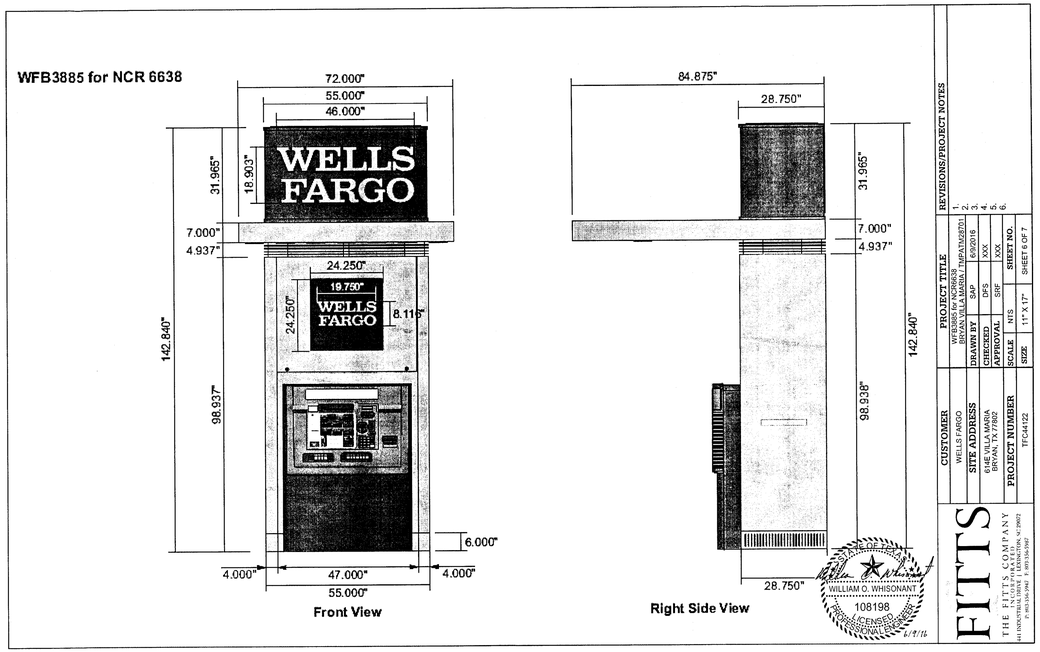
STATE OF TEXAS · RICHARD R. MORRIS · 85957 · LICENSED PROFESSIONAL ENGINEER · JUL 12 2016
RICHARD R. MORRIS
TX REG # 85957

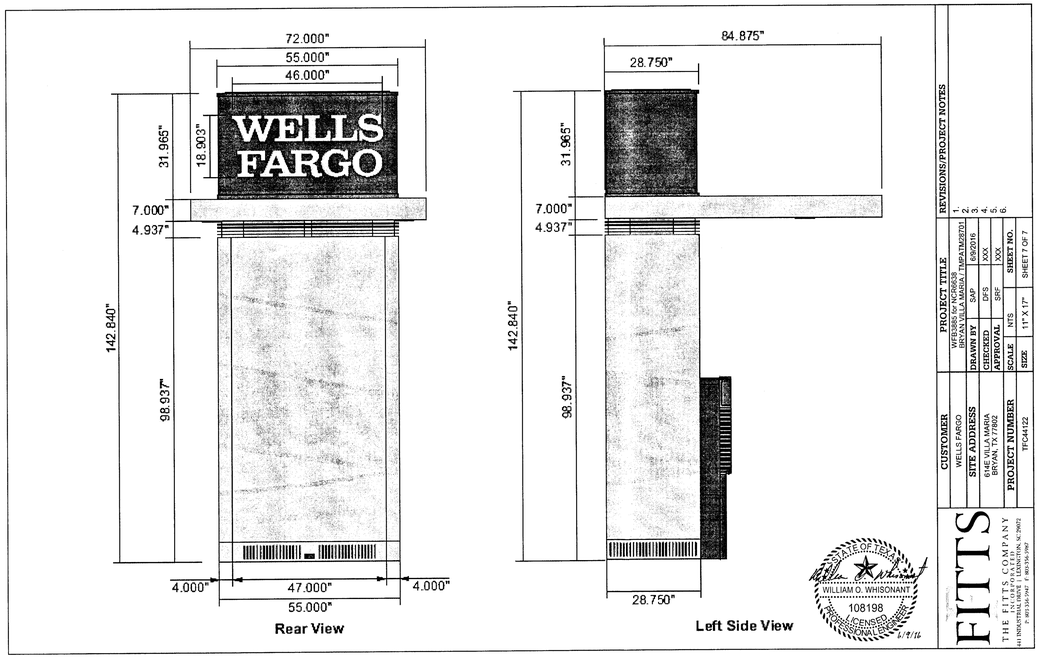
JOB # 16106

DWG # SD-1.0

SHEET NUMBER







CUSTOMER	PROJECT TITLE	REVISIONS/PROJECT NOTES
WELLS FARGO	WFB3885 for NCR6638	1.
SITE ADDRESS	BRYAN VILLA MARIA / TMPA#TMS6701	2.
614E VILLA MARIA	DRAWN BY: SAP 6/9/2016	3.
BRYAN, TX 77802	CHECKED: DFS XXX	4.
	APPROVAL: SRF XXX	5.
PROJECT NUMBER	SCALE: NTS SHEET NO.	6.
TFC44122	SIZE: 11" X 17" SHEET 5 OF 7	

FITTS
THE FITTS COMPANY
141 INDUSTRIAL DRIVE I LEXINGTON, SC 29072
p (803) 359-2962 f (803) 359-5967

STATE OF TEXAS
WILLIAM O. WHISONANT
108198
LICENSED PROFESSIONAL ENGINEER
6/9/16

CUSTOMER	PROJECT TITLE	REVISIONS/PROJECT NOTES
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SITE ADDRESS	BRYAN VILLA MARIA / TMPA#TMS6701	2.
614E VILLA MARIA	DRAWN BY: SAP 6/9/2016	3.
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CUSTOMER	PROJECT TITLE	REVISIONS/PROJECT NOTES
WELLS FARGO	WFB3885 for NCR6638	1.
SITE ADDRESS	BRYAN VILLA MARIA / TMPA#TMS6701	2.
614E VILLA MARIA	DRAWN BY: SAP 6/9/2016	3.
BRYAN, TX 77802	CHECKED: DFS XXX	4.
	APPROVAL: SRF XXX	5.
PROJECT NUMBER	SCALE: NTS SHEET NO.	6.
TFC44122	SIZE: 11" X 17" SHEET 7 OF 7	

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WILLIAM O. WHISONANT
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LICENSED PROFESSIONAL ENGINEER
6/9/16

ATM ENCLOSURE SPECIFICATIONS - SHEET 2

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE: No.: REVISION: BY:

SCALE: AS NOTED
DRAWN BY: AS
CHECKED BY:
APPROVED BY:
DATE: 08-10-2016
PROPOSED GRADES BY:
S.S.#

Do Not Scale—Use Dimensions Only.
Verify all dimensions on the plans and specifications submitted herewith comply with existing conditions and applicable codes. Any discrepancies, omissions or expressed or implied is hereby given.

PLANS PREPARED BY:

MDM
engineering · environmental · construction
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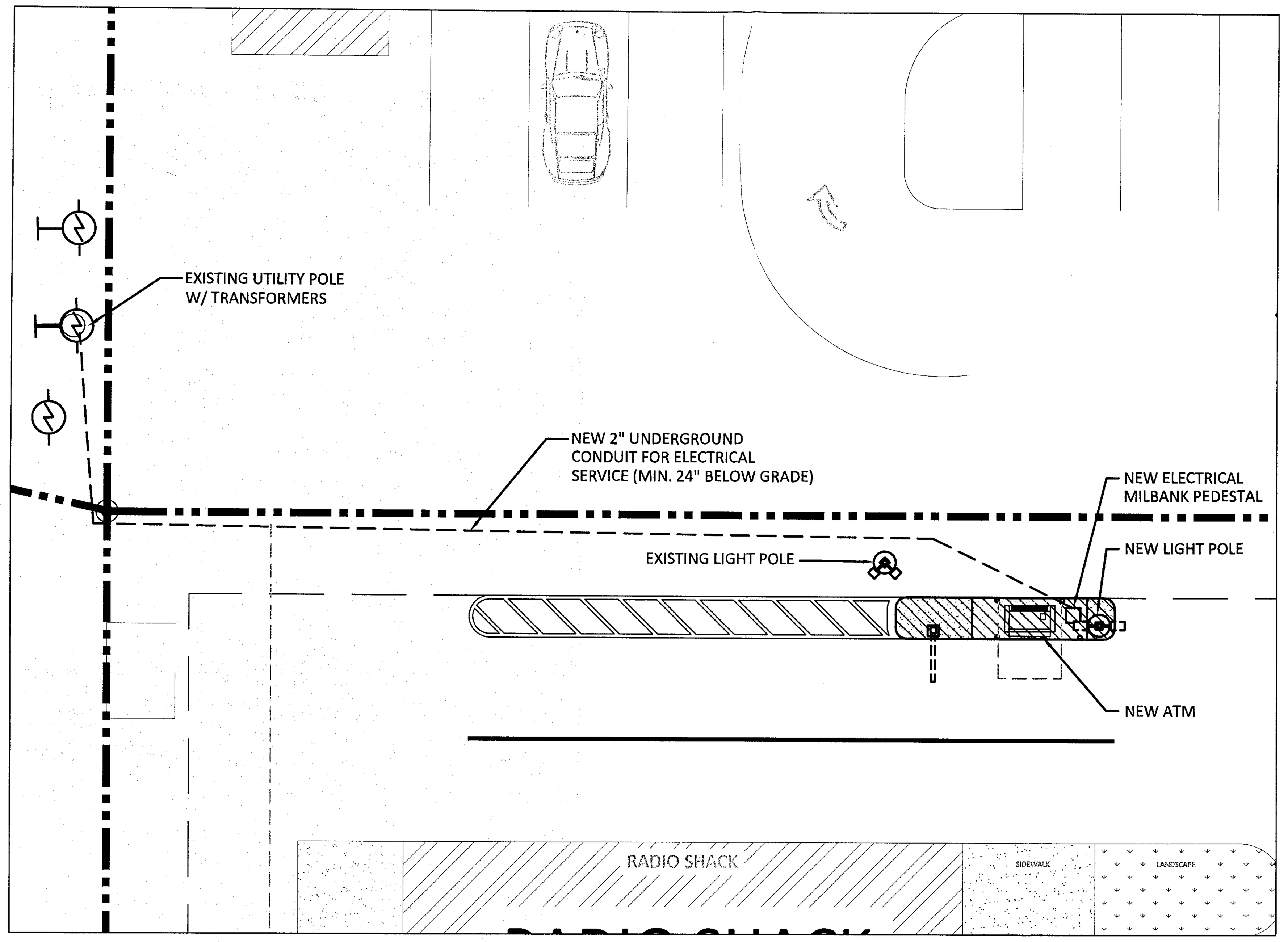
JUL 12 2016
RICHARD R. MORRIS
TX REG # 85957

JOB # 16106

DWG # SD-1.1

SHEET NUMBER



ELECTRICAL PLAN

SCALE: 1" = 10"

MILBANK CP3B11119A42SGSP9		120/208 1-PHASE			PANEL A								PLUG-IN			NEUTRAL BAR	
100 AMP MAIN BREAKER		42,000 AIC			NEW								SURFACE-NEMA 3R			EQUIPMENT GRND BAR	
CIRCUIT DESCRIPTION	*	VA LOAD											VA LOAD			*	CIRCUIT DESCRIPTION
		A	C	N	Brk.	Wire	Cond.	Num.		Cond.	Wire	Brk.	N	A	C		
ATM POWER	1	1560		1560	30/1	10	1.25"	1	2	.75"	12	20/1	210	210		2	ATM POLE LIGHTS
ATM RECEPTACLE	1		180	180	20/1	12	1.25"	3	4	1.25"	12	20/1	420		420	2	ATM LIGHTS
								5	6								
								7	8								
								9	10								
								11	12								
								13	14								
								15	16								
								17	18								
		1560	180	1740									630	210	420		

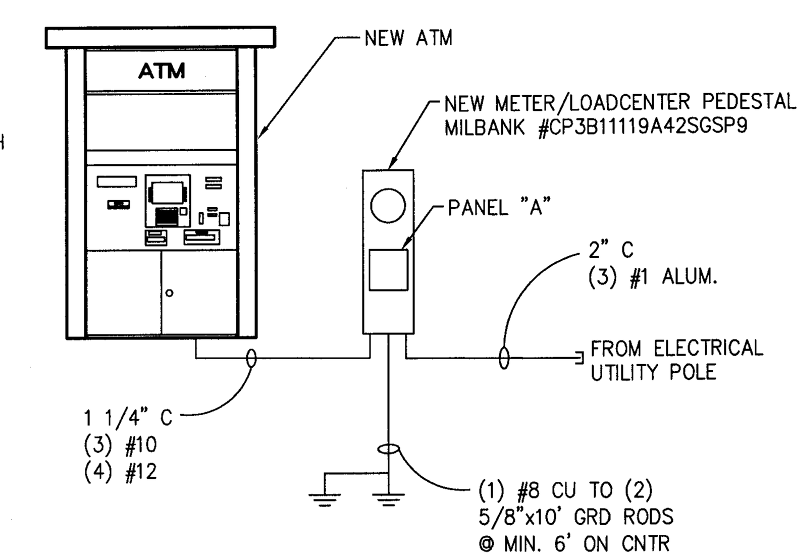
CONNECTED VA (A)		1770		
CONNECTED VA (C)		600		
CONNECTED VA (A,C)		2370		
		CONNECTED		DEMAND
NON-CONTINUOUS	*1	1740	100%	1740
CONTINUOUS	*2	630	125%	788
KITCHEN EQUIPMENT	*3	0	65%	0
SUBTOTAL		2370		2527.5
NON-COINCIDENTAL		0		0
TOTAL		2370		2527.5

TOTAL NEUTRAL LOAD: 2,370 / 208 = 11.4 AMPS

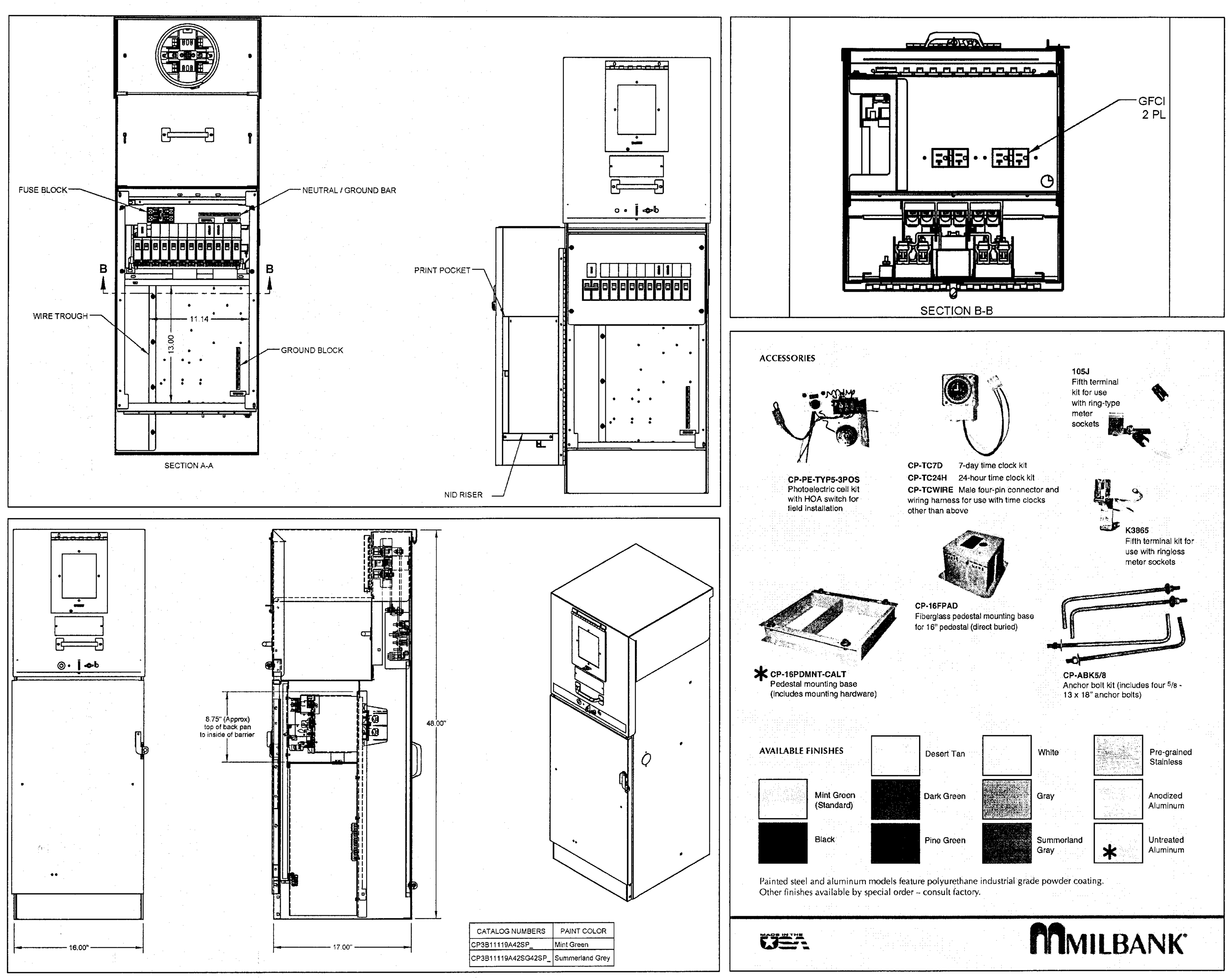
TOTAL DEMAND LOAD: 2,528 / 208 = 12.2 AMPS

ELECTRICAL NOTES:

1. INSTALL (1) MILBANK PEDESTAL AT NEW ATM.
2. INSTALL (1) 2" UNDERGROUND CONDUIT FROM EXISTING UTILITY POLE WITH TRANSFORMER TO NEW MILBANK PEDESTAL FOR ELECTRICAL SERVICE.
3. INSTALL (1) 1 1/4" CONDUIT FROM MILBANK PEDESTAL TO NEW ATM FOR POWER & LIGHTS.
4. INSTALL (1) NEW LIGHT POLE FOUNDATION AND LIGHT POLE WITH (2) LED LIGHT FIXTURES ON POLE.
5. FEED NEW LIGHT POLE FROM PANEL "A" WITH A 3/4" CONDUIT.
6. NEW LIGHT FIXTURES TO BE PHOTO CELL CONTROLLED.
7. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT CONDUITS.
8. ELECTRICAL UTILITY SERVICE CONDUCTORS TO BE ALUMINUM.
9. ALL FEEDER & BRANCH CIRCUIT CONDUCTORS TO BE COPPER.



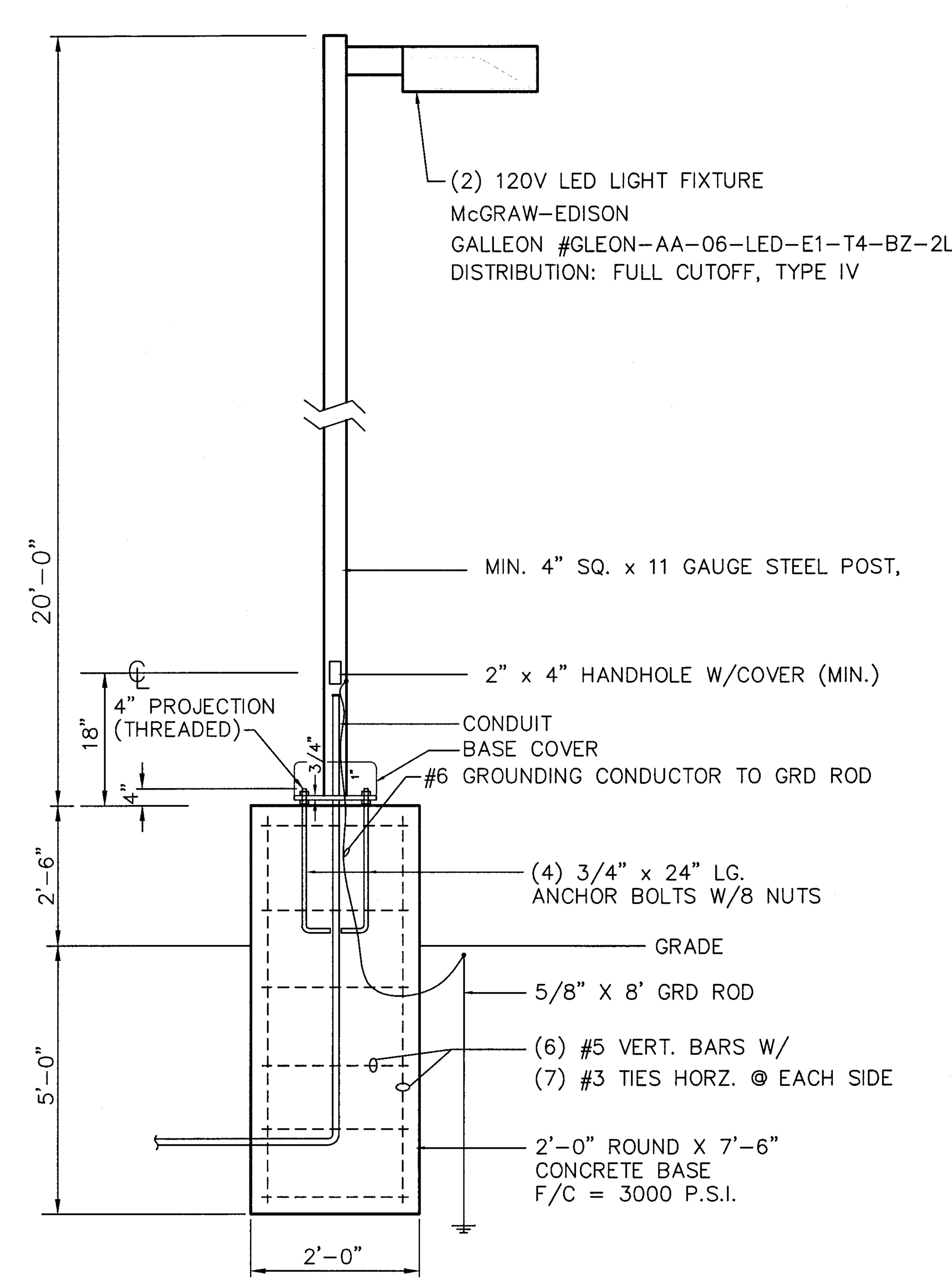
RISER DIAGRAM
120/208 VOLT 1 PHASE 100 AMP



NOTES:

1. WHEN ORDERING A PEDESTAL FOR A LOCATION, CONTACT MILBANK TO VERIFY THE LOCAL UTILITY'S REQUIREMENTS FOR A PARTICULAR CITY OR STATE.
2. SPECIFY "SUMMERLAND GRAY" AS PEDESTAL COLOR.

MILBANK CENTER & METER



NEW AREA LIGHT - SIDE VIEW

AREA LIGHT WINDLOAD
ASCE 7-10, 115 MPH

Design Windload based on ASCE 7-10 (Sq. Straight Pole)

Risk Category: II
Exposure Category: C

HAG	Kz
0 - 15'	0.85
16 - 20'	0.90
20 - 25'	0.94
26 - 30'	0.98
31 - 35'	1.01

Design Windspeed (mph): V := 115
Velocity Pressure Coefficient: Kz := 0.9 Based on Table 29.3-1
Topographic Factor: Kzt := 1.0 Based Table 26.8-1
Wind Directionality Factor: Kd := 1 Based on Table 26.6-1
Velocity Conversion Factor: VCF := 0.9
Velocity Pressure: qz := 0.00256*Kz*Kzt*Kd*(V*VCF)^2 = # PSF Based on 29.3-1
Force Coefficent for Pole: PoleCf := 2.00 Based on Figure 29.5-1
Force Coefficient for Fixtures: FxtrCf := 1.10 Based on Figure 29.4-1
Gust Effect Factor: G := 0.85 Based on 26.9.4 for Other Structures
Pole Design Pressure: PoleF := qz * G * PoleCf = # PSF Based on 29.5-1
Fixture/Arm Design Pressure: FxtrF := qz * G *FxtrCf = # PSF Based on 29.5-1
Reference : Manual of Steel Construction, AISC 13th Edition

Pipe: ASTM - 50 ksi specification (compact sections)
PipeFy := #### (psi)
PipeFb := PipeFy * 0.66 = #### (psi)
PipeFv := PipeFy * 0.40 = #### (psi)

Plate: ASTM A-36
PltFy := #### (psi)
PltFb := PltFy * 0.75 = #### (psi)

Anchor Bolts: ASTM F-1554 Gr. 36
ABFu := #### (psi)
ABFt := ABFu * 0.33 = #### (psi)
ABFy := #### (psi)
ABFv := ABFy * 0.40 = #### (psi)

Pole Height: PoleHt := 20 ft.
Pole Size: PoleSq := 4 in.
Pole Wall Thickness: PoleWThk := 0.120 in.
Number of Fixtures: NoFxtrs := 2
Fixture Windload Area: (Including brackets and arms) FxtArea := 1.5 ft^2 per fixture

Design Load at Base Plate:

Fixtures: Fxt := (NoFxtrs * FxtArea * FxtF) * (PoleHt) = # ft.-lbs.
Pole: P := [(PoleSq/12) * PoleHt * PoleF]*(PoleHt/2) = # ft.-lbs.
Moment: MtBase := Fxt + P = # ft.-lbs.
Shear: ShrBase := (NoFxtrs * FixArea *FxtF) + [(PoleSq/12) * PoleHt * PoleF] = # lbs.

Check Pole at Base Plate:

Section Modulus of Pole: $PoleSM := \left[\frac{PoleSq^4 - [(PoleSq - (2*PoleWThk)]^4}{(6 * PoleSq)}\right] * 0.95 =$ 2.2217 $in.^3$
Bending Stress: f_b := (MtBase * 12) / PoleSM = ##### psi
Area of Pole: PoleArea := [PoleSq² - [PoleSq - (2 * PoleWThk)]²] * 0.95 = 1.7693 $in.^2$
Shear Stress: f_v := ShrBase / PoleArea = ##### psi
Unity Check, Pole: UCPole := (fb/PipeFb) + (fv/PipeFv) = 0.644 (< 1.0, OK)

Check Anchor Bolts:

Number of Anchor Bolts: 4
Anchor Bolt Diameter: 3 / 4 AnchBltDia := 0.750 in. (Based on nominal diameter per AISC 4-3)
Stress Area (= Anch Bolt Area): AnchBltArea := 0.442 $in.^2$
Anchor Bolt Length: AnchBltL := 24.00 in. plus 6" hook
Allowable Tension: AllwTen := ABFt * AnchBltArea = # lbs.
Allowable Shear: AllwShr := ABFv * AnchBltAre = # lbs.
Number of Anchor Bolts in Tension: NoTen := 2
Number of Anchor Bolts in Shear: NoShr := 4
Bolt Circle: BltCir := in.
Lever Arm: $LvrArm := \left[\frac{BltCir^2}{2}\right]^{0.5} :=$ 7.78 in.
Tension Load per Anchor Bolt: TenAncBlt := (MtBase * 12) / (NoLev * LevrArm) = # lbs.
Shear Load per Anchor Bolt: ShrAncBlt := ShrBase / NoShr = # lbs.
Unity Check, Anchor Bolts: UCAncBlts := (TenAncBlt / AllwTen) + (ShrAncBlt / AllwShr) = 0.3664 (< 1.0, OK)

Check Anchor Bolt Embedment:

Concrete, psi compressive strength: ConcFc := 3000 psi
Allowable Bond Stress: $U := (0.5)\left[\frac{4.8\,(ConcFc)^{0.5}}{AnchBltDia}\right] =$ 175.271 lbs./$in.^2$
Development Length: $Ld := \frac{TenAncBlt}{U * \pi * AnchBltDia} =$ 7.242 in.
Embedment Length: AncBltEmb := AncBltL - 4.5" thread allow = 19.5 $in.^2$
Unity Check, Anchor Bolt Embedment: UCABEmb := Ld / AncBltEmb = 0.371 (< 1.0, OK)

Check Base Plate:

Plate Thickness: PltThk := 3 / 4 in., = 0.75 in.
Plate Width: PltWdth := 10.125 in.
Plate Specimen: $PLS := \frac{BltCir\sqrt{(PoleSq^2 + PoleSq^2)}}{2} =$ 2.672 in.
Minimum Thickness Required:
$ReqdThk := \sqrt{\left[\frac{TenAncBlt * NoTen * PLS * 6}{(PltWdth * PltFb)}\right]} =$ 0.592 in.
Unity Check, Base Plate Thickness: UCPltThk := ReqdThk / PltThk = 0.79 (< 1.0, OK)

Design Caisson Footing:

Overturning Moment (ft lbs) = MtBase = 3877.26 ft lbs
Shear (lbs) = ShrBase = 323.54 lbs
Applied Force (lbs): = P := Va = 323.54 lbs
Allowable Lateral Soil Bearing Pressure:
2012 IBC, Section 1805.7, Table 1804.2
2010 FBC, Section 1819.7, Table 1819.6
For: Sandy Gravel = 200 lbs./ft² per ft., use 150 LP = 150.00 lbs./ft² per ft.
Diameter of Round Footing: (ft.) b1 = 2.000 ft
Distance in feet from ground surface to point of application of "P": (ft.) = h := MtBase / ShrBase = 11.98 ft
Depth of Footing Below Grade: (ft) = d1 := 5.0 ft
Allowable Lateral Soil Bearing Pressure: S1 = d1 * [(LP*1.33) / 3] = 332.5
2012 IBC, Section 1805.7, Table 1804.2
2010 FBC, Section 1819.7, Table 1819.6 A = 2.34 * (P / (S1 * b1)) = 1.138
d2 = (A/2)* [1 +((1+ 4.36*(h/A))^.5] = 3.94 (=< d1, OK)

Check Tensile Stress in Footing:

Overturning Moment @ Heel Point (ft. lbs.): Mh: = MtBase + (ShrBase * d1) = 5495 ft lbs
Treat as a cantilever at bottom.
Compression Strength of Concrete: fc := 3000 psi
Yield Strength of Rebar: fy := 60000 psi
Section Modulus of Footing: S = (π * (b1 * 12)³) / 32 = 1357 in³
Tensile Stress in Concrete: ft := [(Mh * 12) / S] = 48.587 psi
Allowable Concrete Stress: ΦFt := 0.65 * (5 * fc^.5) = 178.01 psi (> ft, no rebar required for stress)

Design of Temperature and Shrinkage Steel in Caisson:

Moment USD Design: Mu:= 1.7 Mh = 9341.4
d := [(b1 * 12) *0.8] - 3 = 16.2
ju := 0.56
Required Area: (in) As := [Mu *12] / [ju * fy * d * .90] 0.229
Rebar Size: Number = 5
Rebar Area: Area = [π * (Number/8)²] / 4 = 0.31
Number Required: = (As / Area) * 2 = 1.491683

ELECTRICAL PLAN

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE:	No.:	REVISION:	BY:

SCALE: AS NOTED	DATE: 06-10-2016
DRAWN BY: AS	PROPOSED GRADES BY:
CHECKED BY:	S.S.#
APPROVED BY:	

Do Not Scale–Use Dimensions Only
* To the best of my knowledge, the plans and specifications submitted herewith comply with existing interpretations and provisions of the applicable Building Codes. no warranty expressed or implied is hereby given.

PLANS PREPARED BY:
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3251 SW 13th DRIVE, SUITE "D", DEERFIELD BEACH, FL. 33442
FL EB #004857 TX FR #F-13377 (954) 427-3076

STATE OF TEXAS
RICHARD R. MORRIS
85957
LICENSED
PROFESSIONAL ENGINEER
JUL 12 2016

RICHARD R. MORRIS
TX REG # 85957

JOB # 16106

DWG # E-1.0

SHEET NUMBER

DELLWOOD STREET

S. TEXAS AVENUE. (40 MPH)
25,000 CARS/DAY

N 42°16'01" E 325.00'

Walgreens
14,820 SF

80.00
114.00
E window
130.00

LANDSCAPING SOD, TYP., TYPE F

LANDSCAPING NON-CANOPY TREE, TYPE A.

PROVIDE 1'-6" OF SOD BETWEEN CURB AND SHRUB BED (TYPICAL)

LANDSCAPING CANOPY TREE, TYPE B.

LANDSCAPE SHRUB TYPE C, (TYP -UNO)

LANDSCAPE SHRUB TYPE D

LOCATE SPRINKLER HEADS 1'-0" FROM BACK OF CURB IN ALL AREAS WITH HEAD-IN PARKING SPACES (TYPICAL)

N 47°31'59" W 305.66'

LOT 1
1.603 acres
69829 sq ft

LANDSCAPING SOD, TYP., TYPE E

LANDSCAPE SHRUB TYPE D

LOT 4
0.566 acres
24636 sq ft

S 47°34'57" E 199.86'

RETAIL
4,800 SF

80.00
60.00

MITCHELL-LAWRENCE-CAVITT (COMMERCIAL)

N/F LANEHART COMPANY 409/603 CABINET INCORPORATED

N 42°20'46" E 102.84'

L1

LOT 2
0.353 acres
15388 sq ft

CHINA WOK
1,604 SF
612 E. VILLA MARIA RD

S 47°31'59" E 149.66'

LOT 3
0.514 acres
22401 sq ft

RADIO SHACK
2,260 SF
614 E. VILLA MARIA ROAD

N/F VILLA MARIA CLEANERS
LOTS 10 & 11
529/ARQ

S 47°31'59" E 149.66'

VILLA MARIA ROAD SUBDIVISION (COMMERCIAL)

S 42°16'01" W 449.40'

E. VILLA MARIA RD. (35 MPH)
35,000 CARS/DAY

PROVIDE/VERIFY THAT ALL LANDSCAPING INSTALLED DURING THE 2005 RENOVATION OF THE PROPERTY IS PRESENT AND HEALTHY. REPLACE LANDSCAPING MATERIALS NOT PRESENT AND HEALTHY. SEE 2005 SITE LANDSCAPING RECORD DRAWING FROM CITY ARCHIVE SHEET LSR-1.0.

NORTH

1 SITE LANDSCAPING PLAN *
1" = 30'-0" (22x34) OR 1" = 60'-0" (11x17)

*(RECORD DRAWING FROM CITY ARCHIVE)

RECORD DRAWING
CITY ARCHIVE

WELLS FARGO
614 E. VILLA MARIA RD.
BRYAN, TX 77802

DATE: No.: REVISION: BY:

SCALE: AS SHOWN
DRAWN BY: AS
CHECKED BY:
APPROVED BY:
DATE: 06-10-2016
PROPOSED GRADES BY:
S.S.#

Do Not Scale-Use Dimensions Only
1. To the best of my knowledge, information and belief, the work described in these plans substantially complies with applicable requirements and does not violate any known, existing restrictions and easements. The interpretations and opinions expressed or implied is hereby given. No warranty is expressed or implied.

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JUNE 7, 2016

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JOB # 16106

DWG # LSR-1.0

SHEET NUMBER