Omni SERVICES GROUP
11130 PETAL STREET, SUITE 300, DALLAS, TX 75238
(972) 235-4730 OFFICE, (972) 235-4570 FAX

RECORD DRAWINGS - 9/24/2013

NEED TO VERIFY THAT THE 30' POLES WILL CLEAR THE 7'6" CLEARANCE REQUIREMENTS PER NOTE 7 ON THE PLANS.

BELT LINE RD

DALLAS NORTH TOLLWAY ACCESS ROAD

RETAIL/REST. 14,175 SF

1032 AT&T 5,988 SF

1052 SLEEP EXPERTS 4,358 SF

1054 1,570 SF

1056 ZOES KITCHEN 2,361 SF

1012 GROCERY 40,000 SF 4,000 SF MEZZ

900

BLDG 800 REST./ RETAIL +16,700 SF (TENANT SCOPE)

852 840 836 832 820

796 776 795 764 400

EXISTING RISER POLE

EXISTING OHE TO RELOCATE

NEW UGE

EXISTING MAIN ENTRY SIGN FEATURE TO REMAIN

GAS SERVICE RE: P2.01

TELE. SERVICE RE: E2.01

ELEC. SERVICE RE: E2.01

EXISTING UGE TO BBB TO BE REMOVED

EXIST. AT&T TO BE ABANDONED AFTER RELOCATION.

NEW AT&T HANDHOLE, IF REQUIRED.

EXIST. AT&T TO REMAIN OPERATIONAL

NEW 2" GAS MAIN SERVICE LINE.

EXISTING 2" GAS MAIN SERVICE LINE.

EXISTING LIGHT FIXTURE TO BE REMOVED.

THIS AREA UNDER SEPARATE OWNERSHIP. NOT A PART

APPROX. DISTANCE BETWEEN SIGNS IS 570 FT. COORDINATE WITH GC FOR TRENCHING & EXISTING UTILITIES.

ELECTRICAL NOTES BY SYMBOL: '⟨#⟩'

1. ROUTING OF MAIN ELECTRICAL UTILITY PRIMARY, 36" DEEP. COORDINATE REQUIREMENTS & EXACT LOCATION OF ELECTRICAL UTILITY WITH ONCOR CONTACT, CHARLES THOMAS 817.355.7014, CHARLES.THOMAS@ONCOR.COM OR KAREN EASTMAN. COORDINATE ALL UTILITY REQUIREMENTS. PAY ALL FEES.
2. ROUTING OF MAIN TELEPHONE SERVICE, 24" DEEP. COORDINATE EXACT LOCATION OF TELEPHONE UTILITY WITH AT&T. CONTACT, CHAD COOPER, 972.234.7073 CC8656@ATT.COM COORDINATE ALL REQUIREMENTS. PROVIDE (2) 4" CONDUIT TO EACH TELEPHONE SERVICE LOCATION.
3. ROUTING OF MAIN GAS SERVICE, 36" DEEP. COORDINATE EXACT LOCATION OF TELEPHONE UTILITY WITH ATMOS ENERGY. CONTACT, GARY DICKINSON, 972.360.4428 GARY.DICKINSON@ATMOSENERGY.COM COORDINATE ALL REQUIREMENTS.
4. 480V, 3PH SECONDARY, UTILITY PAD MOUNTED TRANSFORMER. CLEARANCE IS SHOWN AS HATCHED.
5. 208V, 3PH SECONDARY, UTILITY COMPANY PAD MOUNTED TRANSFORMER. CLEARANCE IS SHOWN AS HATCHED.
6. PROVIDE POWER FOR INTERNALLY LIGHTED SIGN. VOLTAGE IS 277V, 1PH. ALLOWED WATTS FOR WEST & FAR EAST SIGNS IS 1500W ON #10 WIRE. IF ADDITIONAL WATTS ARE NEEDED, THEN PROVIDE #8 WIRE. COORDINATE REQUIREMENTS AND DISCONNECTING MEANS LOCATION WITH SIGN IN FIELD.
7. POLE MTD. LIGHT FIXTURE HEADS SHALL BE AT LEAST 7'-6" FROM OVERHEAD ELECTRICAL LINES "OHE".
8. EXISTING FIXTURE TO REMAIN.
9. PROVIDE (1)1¼"C & (1)¾"C TO EACH FUTURE, TENANT PROVIDED ELECTRIC CAR CHARGING STATIONS. STUB UP & CAP INSIDE BLDG. (AT 10' AFF) FOR FUTURE CONTIN. LABEL CONDUIT.
10. PROVIDE POWER FOR INTERNALLY LIGHTED SIGN. VOLTAGE IS 277V, 1PH. ALLOWED WATTS FOR FAR SOUTHEAST SIGN IS 1300W ON #8 WIRE. IF ADDITIONAL WATTS ARE NEEDED, THEN PROVIDE #6 WIRE. COORDINATE REQUIREMENTS AND DISCONNECTING MEANS LOCATION WITH SIGN IN FIELD.

NORTH

1 SITE PLAN – ELECTRICAL & PLUMBING
SCALE: 1"=30'-0"

NORTH

2 PARTIAL SITE PLAN – ELECTRICAL
SCALE: 1"=30'-0"

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Dallas: 214.613.0501

VILLAGE ON THE PARKWAY
5100 BELT LINE ROAD
Addison, Texas 75254

No. Date Item
REVISIONS

BBM Drawn
BBM Checked
BBM Approved

STATE OF TEXAS BONNIE B. MCINNISH 83219 LICENSED PROFESSIONAL ENGINEER

SITE PLAN - ELEC. & PLUMBING

Project No. 11013.03
Date 05.25.12
Last Revision

EP1.01

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11130 PETAL STREET, SUITE 300, DALLAS, TX 75238
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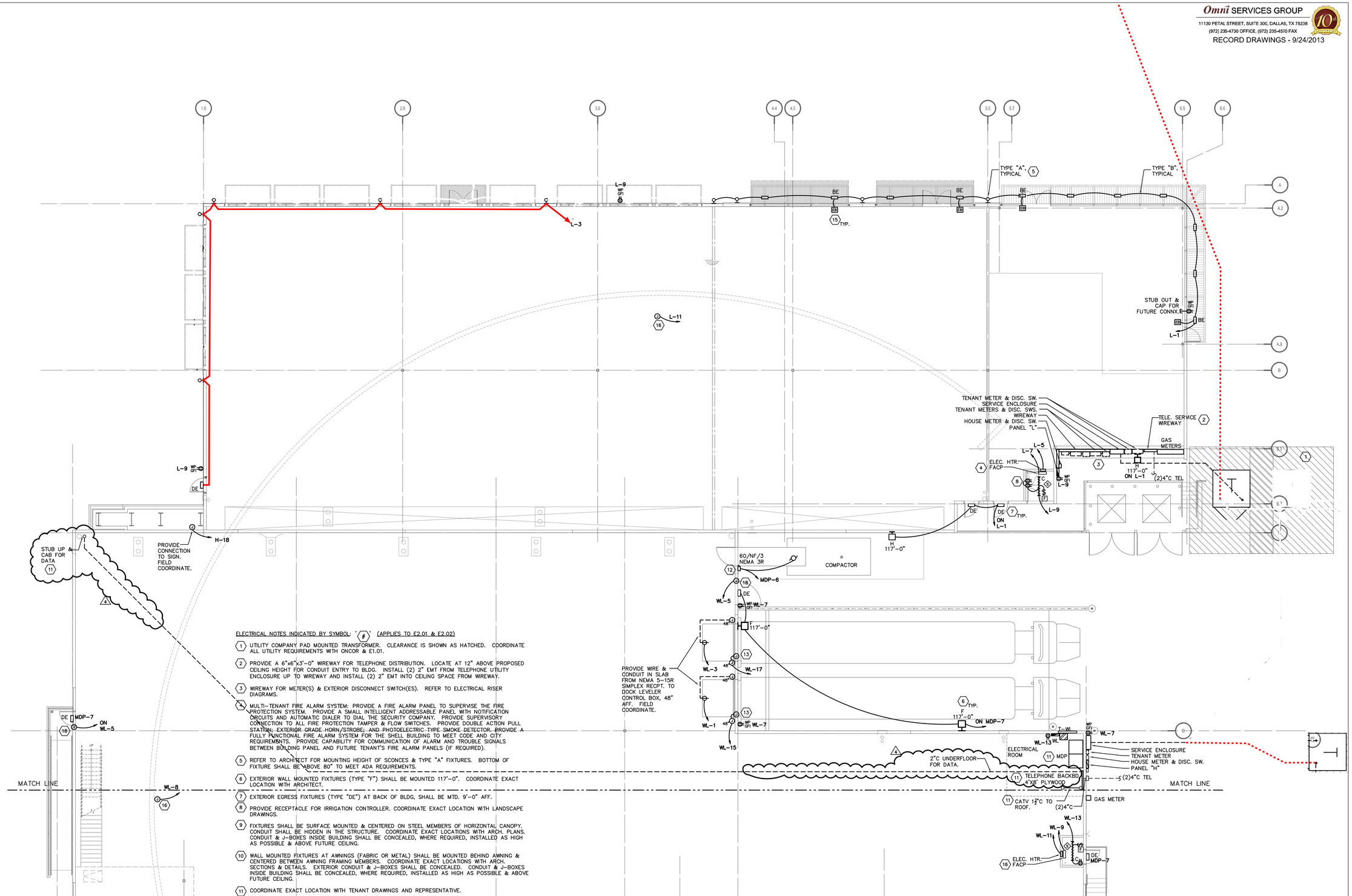
RECORD DRAWINGS - 9/24/2013



ELECTRICAL NOTES INDICATED BY SYMBOL: ⟨#⟩ (APPLIES TO E2.01 & E2.02)

1. UTILITY COMPANY PAD MOUNTED TRANSFORMER. CLEARANCE IS SHOWN AS HATCHED. COORDINATE ALL UTILITY REQUIREMENTS WITH ONCOR & E1.01.
2. PROVIDE A 6"x6"x3'-0" WIREWAY FOR TELEPHONE DISTRIBUTION. LOCATE AT 12" ABOVE PROPOSED CEILING HEIGHT FOR CONDUIT ENTRY TO BLDG. INSTALL (2) 2" EMT FROM TELEPHONE UTILITY ENCLOSURE UP TO WIREWAY AND INSTALL (2) 2" EMT INTO CEILING SPACE FROM WIREWAY.
3. WIREWAY FOR METER(S) & EXTERIOR DISCONNECT SWITCH(ES). REFER TO ELECTRICAL RISER DIAGRAMS.
4. MULTI-TENANT FIRE ALARM SYSTEM: PROVIDE A FIRE ALARM PANEL TO SUPERVISE THE FIRE PROTECTION SYSTEM. PROVIDE A SMALL INTELLIGENT ADDRESSABLE PANEL WITH NOTIFICATION CIRCUITS AND AUTOMATIC DIALER TO DIAL THE SECURITY COMPANY. PROVIDE SUPERVISORY CONNECTION TO ALL FIRE PROTECTION TAMPER & FLOW SWITCHES. PROVIDE DOUBLE ACTION PULL STATION; EXTERIOR GRADE HORN/STROBE; AND PHOTOELECTRIC TYPE SMOKE DETECTOR. PROVIDE A FULLY FUNCTIONAL FIRE ALARM SYSTEM FOR THE SHELL BUILDING TO MEET CODE AND CITY REQUIREMENTS. PROVIDE CAPABILITY FOR COMMUNICATION OF ALARM AND TROUBLE SIGNALS BETWEEN BUILDING PANEL AND FUTURE TENANT'S FIRE ALARM PANELS (IF REQUIRED).
5. REFER TO ARCHITECT FOR MOUNTING HEIGHT OF SCONCES & TYPE "A" FIXTURES. BOTTOM OF FIXTURE SHALL BE ABOVE 80" TO MEET ADA REQUIREMENTS.
6. EXTERIOR WALL MOUNTED FIXTURES (TYPE "F") SHALL BE MOUNTED 117'-0". COORDINATE EXACT LOCATION WITH ARCHITECT.
7. EXTERIOR EGRESS FIXTURES (TYPE "DE") AT BACK OF BLDG, SHALL BE MTD. 9'-0" AFF.
8. PROVIDE RECEPTACLE FOR IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH LANDSCAPE DRAWINGS.
9. FIXTURES SHALL BE SURFACE MOUNTED & CENTERED ON STEEL MEMBERS OF HORIZONTAL CANOPY. CONDUIT SHALL BE HIDDEN IN THE STRUCTURE. COORDINATE EXACT LOCATIONS WITH ARCH. PLANS. CONDUIT & J-BOXES INSIDE BUILDING SHALL BE CONCEALED, WHERE REQUIRED, INSTALLED AS HIGH AS POSSIBLE & ABOVE FUTURE CEILING.
10. WALL MOUNTED FIXTURES AT AWNINGS (FABRIC OR METAL) SHALL BE MOUNTED BEHIND AWNING & CENTERED BETWEEN AWNING FRAMING MEMBERS. COORDINATE EXACT LOCATIONS WITH ARCH. SECTIONS & DETAILS. EXTERIOR CONDUIT & J-BOXES SHALL BE CONCEALED. CONDUIT & J-BOXES INSIDE BUILDING SHALL BE CONCEALED, WHERE REQUIRED, INSTALLED AS HIGH AS POSSIBLE & ABOVE FUTURE CEILING.
11. COORDINATE EXACT LOCATION WITH TENANT DRAWINGS AND REPRESENTATIVE.
12. PROVIDE CONNECTION TO COMPACTOR. FIELD COORDINATE EXACT HP & SIZE OF BREAKER WITH EXACT UNIT.
13. PROVIDE CONNECTION TO OVERHEAD DOORS. FIELD COORDINATE EXACT REQUIREMENTS.
14. PROVIDE CONNECTION TO AUTOMATIC DOORS. FIELD COORDINATE EXACT REQUIREMENTS.
15. REMOTE EMERGENCY BATTERY PACK LOCATION. FIELD COORDINATE.
16. SINGLE TENANT FIRE ALARM SYSTEM: PROVIDE A FIRE ALARM PANEL TO SUPERVISE THE FIRE PROTECTION SYSTEM. PROVIDE A SMALL INTELLIGENT ADDRESSABLE PANEL WITH NOTIFICATION CIRCUITS AND AUTOMATIC DIALER TO DIAL THE SECURITY COMPANY. PROVIDE SUPERVISORY CONNECTION TO ALL FIRE PROTECTION TAMPER & FLOW SWITCHES. PROVIDE SINGLE ACTION PULL STATION; EXTERIOR GRADE HORN/STROBE; AND PHOTOELECTRIC TYPE SMOKE DETECTOR. PROVIDE A FULLY FUNCTIONAL FIRE ALARM SYSTEM FOR THE SHELL BUILDING TO MEET CODE AND CITY REQUIREMENTS. PROVIDE CAPABILITY FOR FUTURE EXPANSION BY TENANT FOR TENANT'S FUTURE AUDIBLE/VISUAL APPLIANCES, SMOKE & DUCT MTD. SMOKE DETECTORS, PULL STATIONS, ETC.
17. PROVIDE J-BOX AND CONNECTION TO FUTURE SIGN. FIELD COORDINATE EXACT REQUIREMENTS.
18. PROVIDE CONNECTION TO ELEC. LOCK AT DOOR. FIELD COORDINATE EXACT REQUIREMENTS.

NORTH

1 FLOOR PLAN – NORTH – ELECTRICAL
SCALE: 1/8"=1'-0"

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VILLAGE ON THE PARKWAY
5100 BELT LINE ROAD
Addison, Texas 75254

No.	Date	Item
2	06.14.12	Addendum #2
3	08.17.12	ASI #1
4	10.07.12	ASI #2

REVISIONS

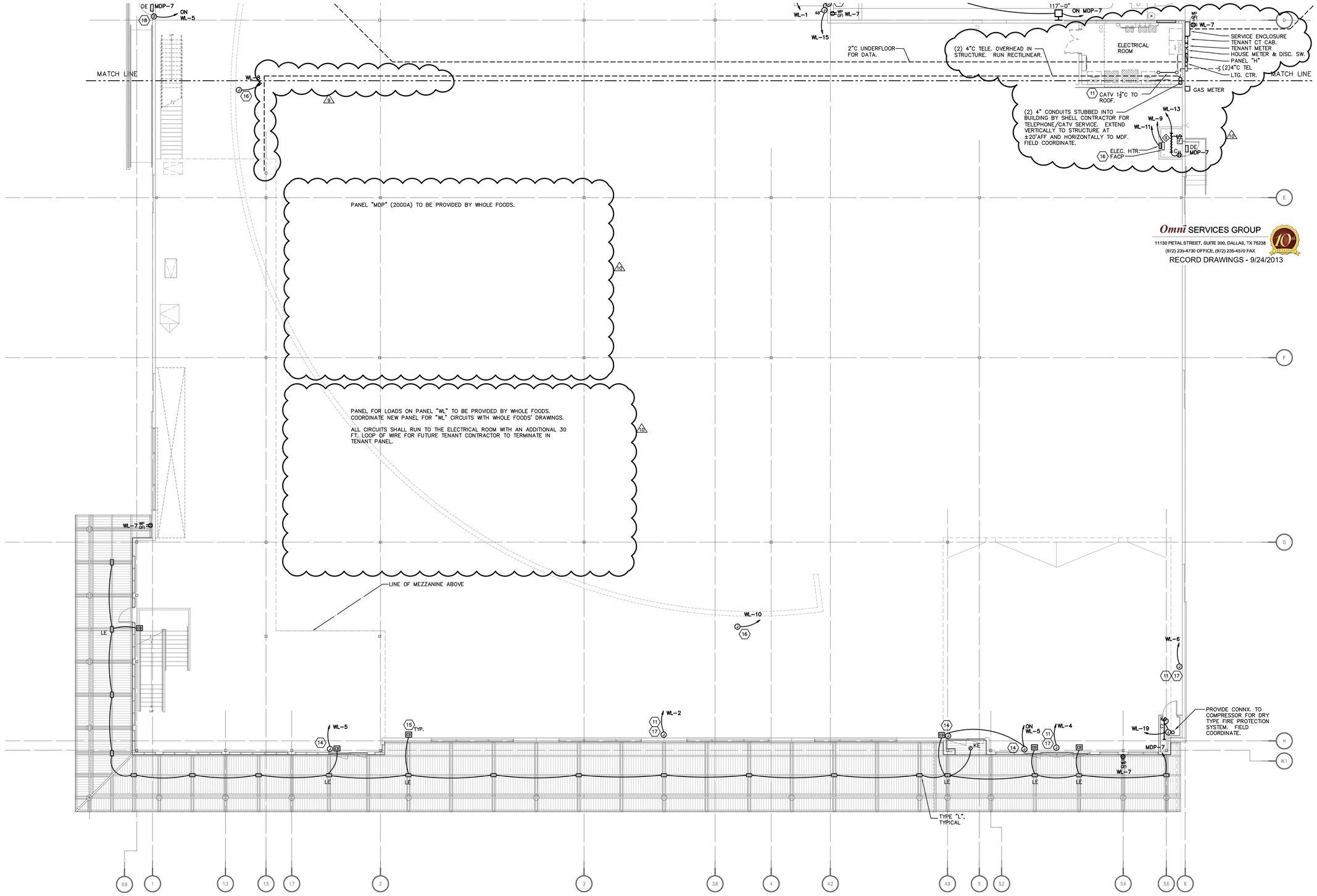
BBM Drawn
BBM Checked
BBM Approved

STATE OF TEXAS
BONNIE B. McINNISH
88219
LICENSED
PROFESSIONAL ENGINEER
10.09.12

FLOOR PLAN - NORTH ELECTRICAL

Project No.	11013.03
Date	05.25.12
Last Revision	10.07.12

E2.01



NORTH

1 FLOOR PLAN – SOUTH – ELECTRICAL

SCALE: 1/8"=1'-0"

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VILLAGE ON THE PARKWAY

5100 BELT LINE ROAD
Addison, Texas 75254

No.	Date	Item
2	06.14.12	Addendum #2
7	11.15.12	ASI #5
8	12.07.12	ASI #6
10	01.22.13	ASI #8

REVISIONS

BBM Drawn
BBM Checked
BBM Approved

STATE OF TEXAS – BRIAN M. McINNISH – 83219 – LICENSED PROFESSIONAL ENGINEER – 01.21.13

FLOOR PLAN - SOUTH ELECTRICAL

Project No.	11013.03
Date	05.25.12
Last Revision	01.21.13

E2.02

ELECTRICAL SYMBOLS

SYMBOLS	DESCRIPTION
○	CEILING LIGHTING FIXTURE
○	WALL MOUNTED LIGHTING FIXTURE
▭	FLUORESCENT LTG. FIXTURE OF TYPE INDICATED
⊘ ▨	FIXTURE ON NIGHT LTG. OR EMERGENCY CIRCUIT
⊗	EXIT LIGHT
○—○—○	TRACK WITH LIGHT FIXTURES
⟷	EMERGENCY BATTERY PACK LIGHT
⊙	JUNCTION BOX
⊖	DUPLEX RECEPTACLE
⊖	DUPLEX RECEPTACLE ABOVE COUNTER & BACKSPLASH
⊖	QUADRUPLEX RECEPTACLE
⊖	QUADRUPLEX RECEPTACLE ABOVE CTR. & BACKSPLASH
⊖IG	ISOLATED GROUND RECEPTACLE
⊖	DUPLEX RECEPTACLE IN FLOOR
⊖	SIMPLEX RECEPTACLE
⊖	SPECIAL PURPOSE OUTLET
◂	COMBINATION TELEPHONE/DATA OUTLET IN WALL
◂	COMBINATION TELEPHONE/DATA OUTLET IN FLOOR
◂	TELEPHONE OUTLET IN WALL
TV	CABLE TELEVISION OUTLET
◂	TELEPHONE OUTLET IN FLOOR
	CONDUIT HOMERUN TO PANEL INDICATED
	ELECTRICAL CONNECTION TO EQUIPMENT INDICATED
	MULTIOUTLET ASSEMBLY
	TELEPHONE BACKBOARD OR CABINET
	PANEL OR SWITCHBOARD – 250V. OR BELOW
	PANEL OR SWITCHBOARD – 480V. OR 600V.
	DRY TYPE TRANSFORMER
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
S	SINGLE POLE SWITCH
S_2	TWO POLE SWITCH
S_3	THREE–WAY SWITCH
S_4	FOUR–WAY SWITCH
S_P	SINGLE POLE SWITCH & PILOT
S_M	MOTOR STARTER SWITCH W/THERMAL OVERLOAD
S_W	OVERRIDE SWITCH
S_D	WALL DIMMER SWITCH
S_K	KEY OPERATED SWITCH
S_V	VOLUME CONTROL SWITCH
S_F	FAN SWITCH
S_{WP}	WEATHERPROOF SWITCH
	MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH
	COMBINATION MOTOR STARTER & DISCONNECT SWITCH
	MOTOR
	T.V. OUTLET
	SPEAKER
M	MICROPHONE JACK IN WALL OR FLOOR
	CLOCK
	CLOCK HANGER OUTLET
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM BELL
	VISUAL FIRE ALARM
	AUDIO–VISUAL FIRE ALARM
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	BELL
	HORN
	BUZZER
	PUSHBUTTON
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTOR
WP	WEATHERPROOF
NL	NIGHT LIGHT
ⓧ	SEE NOTE #3
REF: 2/E4	REFER TO DETAIL 2 ON SHEET E4
FACP	FIRE ALARM CONTROL PANEL
UNO	UNLESS NOTED OTHERWISE

ELECTRICAL GENERAL SPECIFICATION NOTES

G1. CONTRACTOR RESPONSIBILITY: THE ELECTRICAL NOTES, SPECIFICATIONS, AND PLANS ("THE DOCUMENTS") ADDRESS THE REQUIREMENTS AND RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK OF AN ELECTRICAL NATURE. THE TERM "PROVIDE" USED IN THESE DOCUMENTS SHALL BE DEFINED AS "FURNISH AND INSTALL."

G2. COMPLETE SYSTEMS: PROVIDE LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION TO RECEIVE, INSTALL, ADJUST, AND PUT INTO OPERATION COMPLETE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. PROVIDE PRODUCTS NOT MENTIONED BUT OBVIOUSLY NECESSARY AND INCIDENTAL TO THE COMPLETION OF THIS WORK.

G3. SCOPE: WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: POWER DISTRIBUTION AND LIGHTING.

G4. UTILITIES: COORDINATE WITH ALL BUILDING SERVICES AS REQUIRED. NOTIFY LANDLORD OF COMMENCEMENT OF WORK. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLY WITH ALL UTILITY COMPANY REGULATIONS AND REQUIREMENTS.

G5. PERMITS: OBTAIN ALL NECESSARY PERMITS TO BEGIN AND CONTINUE WITH WORK. PAY ALL ASSOCIATED FEES FOR PERMITS AND OTHER MUNICIPAL AND GOVERNING REQUIREMENTS.

G6. EXPERIENCE: ALL WORK DONE SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS UNDER THE SUPERVISION AND DIRECTION OF A SUPERINTENDENT HAVING SUCCESSFUL EXPERIENCE INSTALLING AND SUPERVISING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AND SIZE AS INDICATED BY CONTRACT DOCUMENTS.

G7. REGULATIONS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT RULES, REGULATIONS, AND INDUSTRY STANDARDS OF THE 2008 NATIONAL ELECTRICAL CODE (NEC), UL, NEMA, NFPA, OSHA, NATIONAL ELECTRICAL SAFETY CODE, 2009 INTERNATIONAL ENERGY CONSERVATION CODE, 2009 IBC, ADA, AND ANY LOCAL CODES, LAWS OR ORDINANCES. IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

G8. COSTS AND CONDITIONS: EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE PROJECT AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED. ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

G9. SPECIFICATIONS: BECOME FAMILIAR WITH ALL SPECIFICATIONS, INSTALLATION REQUIREMENTS, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. REFERENCE SPECIFICATIONS FOR DEVICES, MATERIALS, AND WORKMANSHIP REQUIREMENTS. ADDITIONAL REQUIREMENTS ARE GIVEN IN THESE NOTES AND THE DRAWINGS. THERE SHALL BE NO DEVIATIONS FROM SPECIFICATIONS WITHOUT THE APPROVAL OF THE ARCHITECT AND THE ENGINEER.

G10. COORDINATION: COORDINATE WORK AND SCHEDULING WITH ALL OTHER TRADES. GIVE SPECIAL CONSIDERATION TO COORDINATING INSTALLATION OF LIGHTING, & PLUMBING PIPING. VERIFY EXACT LOCATION, COLOR, AND FINISH OF LIGHT FIXTURES WITH THE ARCHITECT.

G11. PRODUCTS: ALL PRODUCTS SHALL BE NEW (UNLESS NOTED OTHERWISE), U.L. APPROVED, AND OF A SPECIFICATION GRADE. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS. ALL PRODUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NATIONALLY RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES. COMPLY WITH ALL MANUFACTURERS' REQUIREMENTS AND RECOMMENDATIONS. CONTRACTOR SHALL NOT MAKE PRODUCT SUBSTITUTIONS WITHOUT PRIOR APPROVAL.

G12. IDENTIFICATION: ALL PANELBOARDS AND CIRCUIT BREAKERS, SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS.

G13. BRANCH CIRCUIT IDENTIFICATION: EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND TYPED SCHEDULED INSIDE PANEL DOOR. EACH BRANCH CIRCUIT TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR. EACH CONDUCTOR TERMINATION SHALL BE IDENTIFIED BY NUMBER AT EACH DEVICE, INSIDE BOX, ON WIRE BY APPROVED MEANS.

G14. WIRING: ALL CONDUCTORS CARRYING GREATER THAN 50 VOLTS SHALL BE MINIMUM #12 AWG, SOLID COPPER, SOFT DRAWN OF 98% CONDUCTIVITY, UNLESS NOTED OTHERWISE. CONDUCTORS OF SIZE #8 AWG OR LARGER SHALL BE CONCENTRIC LAY STRANDED. PROVIDE MINIMUM #14 AWG CONDUCTORS, CARRYING LESS THAN LINE VOLTAGE, FOR COMMUNICATIONS, CONTROLS, OR LOW VOLTAGE LIGHTING, UNLESS NOTED OTHERWISE.

G15. INSULATION: PROVIDE TYPE THHN/THWN OR THW, TYPE INSULATION COORDINATE INSULATION TYPES WITH CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FILL REQUIREMENTS. ALL WIRING SIZES ARE BASED ON 60C OR 75C INSULATION ACCORDING TO CURRENT, REGARDLESS OF ACTUAL INSULATION USED. COMPLY WITH ALL UL "GREEN BOOK" REQUIREMENTS. REFERENCE CONDUIT NOTES BELOW.

G16. NEUTRALS: SIZE ALL NEUTRALS FULL UNLESS SPECIFICALLY REDUCED ON PLANS.

G19. GROUNDING: ALL CIRCUITS SHALL BE RUN WITH A MINIMUM #12 AWG INSULATED GREEN COPPER EQUIPMENT GROUND WIRE, UNLESS OTHER WIRE SIZE IS NOTED. USE OF CONDUIT AS SOLE GROUND IS UNACCEPTABLE. DO NOT BOND NEUTRAL TO GROUND AT ANY POINT IN THIS INSTALLATION. WHERE ISOLATED GROUND RECEPTACLES ARE SHOWN, PROVIDE AN ADDITIONAL #12 GROUND WIRE (IG).

G20. CONDUIT: ALL WIRING SHALL BE IN METAL CONDUIT. MINIMUM 1/2" EMT CONDUIT IS ACCEPTABLE INDOORS FOR SIZES UP TO 3" IN DIAMETER. MINIMUM 1/2" FLEXIBLE METAL CONDUIT IS ACCEPTABLE ONLY WITH SEPARATE INSULATED GROUND WIRE FOR BRANCH CIRCUITS (MC CABLE). ENT, ALUMINUM CONDUIT, NM ("ROMEX"), NMC, AND SNM ARE NOT ACCEPTABLE.

G21. ROUTING: CONDUIT ROUTING SHOWN IS SYMBOLIC AND DIAGRAMMATIC. INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS. COORDINATE ROUTING IN FIELD WITH ACTUAL CONDITIONS. RUN ALL CONDUIT RECTILINEAR AND IN A NEAT WORKMANLIKE MANNER . CONDUIT SHALL NOT BE RUN IN OR THROUGH DUCTWORK.

G22. FITTINGS: USE ONLY FITTINGS APPROPRIATE FOR TYPES OF CONNECTIONS TO BE MADE. ALL FITTINGS SHALL BE COMPRESSION OR THREADED TYPE. USE OF SET SCREW FITTINGS IS ACCEPTABLE ONLY IF APPROVED BY LOCAL AUTHORITIES. FITTINGS FOR PVC, WHEN ALLOWED, SHALL BE APPROVED FOR USE WITH PVC AND WATERTIGHT. ALL FITTINGS MADE BELOW GRADE SHALL BE WATERTIGHT.

ELECTRICAL GENERAL SPECIFICATION NOTES, CONTINUED

G23. CONDUIT FILL: CONDUIT FILL IS CALCULATED BASED ON TYPE THW INSULATION AND CONCENTRIC STRANDED CONDUCTORS. IF ALTERNATE CONDUIT SIZING IS DESIRED BY CONTRACTOR BASED ON THHN INSULATION, CONTRACTOR IS RESPONSIBLE FOR CALCULATING ALTERNATE CONDUIT SIZES, SUBJECT TO APPROVAL BY ENGINEER.

G24. CIRCUIT BREAKERS: ALL BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES (CIRCUIT BREAKERS) SHALL BE INVERSE TIME THERMAL MAGNETIC BOLT–ON CIRCUIT BREAKERS, RATED 20 AMPERES, UNLESS OTHER AMPACITY IS NOTED. MULTI–POLE BREAKERS SHALL BE INTEGRAL UNITS. USE OF HANDLE TIES IS NOT ACCEPTABLE. CIRCUIT BREAKERS FOR LIGHTING CIRCUITS SHALL BE RATED FOR USE AS A SWITCH. CIRCUIT BREAKER MANUFACTURER SHALL BE THE SAME AS THE EXISTING PANELBOARD.

G25. BRANCH CIRCUIT AND LIGHTING PANELBOARDS: PANELBOARDS SHALL CONSIST OF A BOX, FRONT, INTERIOR, AND CIRCUIT PROTECTIVE DEVICES AND BE MANUFACTURED IN ACCORDANCE WITH NEMA AND UL. THE DEAD FRONT INTERIOR SHALL HAVE A MAXIMUM OF 42–POLES WITH COPPER BUSSING, COPPER NEUTRAL AND GROUND BARS. CIRCUIT BREAKERS SHALL BE AS REQUIRED BELOW AND SHALL BE FULLY AIC RATED. SERIES RATING IS NOT ACCEPTABLE. PANELBOARDS DESIGNED FOR 14KAIC, 277/480V, 3–PHASE, 4–WIRE SERVICE SHALL BE SIEMENS SENTRON SERIES, BOLT–IN BRANCH BREAKERS OR EQUAL.

G26. LOADING: ELECTRICAL LOADS SHALL BE APPROXIMATELY BALANCED ACROSS ALL THREE PHASES WITH 10% VARIANCE.

G27. LOW VOLTAGE REQUIREMENTS: PROVIDE CONDUIT UP TO ACCESSIBLE CEILING FOR DATA, TELEPHONE, SPEAKERS, BELL SYSTEMS AND ETC. COORDINATE ROUTIN^

^DINATE WITH ALL LOCAL REGULATIONS AND ORDINANCES.

G29. PROJECT RECORD DOCUMENTS: UPON COMPLETION OF WORK, PREPARE LIGHTING AND POWER PROJECT RECORD DOCUMENTS ("AS–BUILTS") ON A SUITABLE REPRODUCIBLE MEDIUM. PRESENT COMPLETED DRAWINGS TO OWNER. "AS–BUILT" DRAWINGS SHALL INCLUDE ALL BRANCH CIRCUIT WORK, ALL PANELBOARD INFORMATION AVAILABLE, AND ALL SUBMITTAL AND SHOP DRAWING MATERIALS.

G30. WARRANTY: WARRANT ALL MATERIALS, EQUIPMENT, AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY TENANT.

GENERAL LIGHTING NOTES

L1. FIXTURES TYPES: IN GENERAL, FIXTURE TYPES ARE TO BE AS SPECIFIED OR APPROVED EQUAL. VERIFY REQUIREMENTS WITH ARCHITECT.

L2. DESIGNATIONS: REFERENCE LIGHTING FIXTURE SCHEDULE FOR COMPLETE DESCRIPTION OF EACH FIXTURE TYPE. LIGHT FIXTURES ARE IDENTIFIED BY LETTERS AND SYMBOLS.

L3. FIXTURE LOCATIONS: REFERENCE ARCHITECTURAL PLANS & ELEVATIONS FOR EXACT LOCATIONS OF LIGHT FIXTURES. COORDINATE INSTALLATION IN FIELD WITH ARCHITECT.

PANEL H • INDICATES 2#12, #12G, 3/4"C

MAIN SIZE: 100A AIC RATING: 25K | MAIN TYPE: MLO MOUNTING: SURFACE | VOLTAGE: 277/480 V 3PH, 4W ACCESSORIES: NEMA 3R

SERVES	FEEDER	TRIP	KVA A	KVA B	KVA C			KVA A	KVA B	KVA C	TRIP	FEEDER	SERVES
SITE LTS – EAST	2#12,#12G,1"C	20–2	3.27			1	2	2.45			20–2	2#12,#12G,1"C	SITE LTS – NORTH
–		–		3.27		3	4		2.45		–		–
SITE LTS – SOUTH	2#12,#12G,1"C	20–2			2.05	5	6			2.30	20–2	2#12,#12G,1"C	SITE LTS – FAR EAST
–		–	2.05			7	8	2.30			–		–
SITE LTS – SOUTH	2#12,#12G,1"C	20–2		2.45		9	10		1.00		20–1	2#10,#10G,1"C	SITE SIGN – FAR EAST
–		–			2.45	11	12			1.00	20–1	•	SITE SIGN – EAST
SITE LTS – WEST	2#12,#12G,1"C	20–2	1.227			13	14	1.00			20–1	2#8,#10G,1"C	SITE SIGN – FAR S.E.
–		–		1.227		15	16		0.77		20–1	•	LTS – CANOPY
SITE SIGN – WEST	2#10,#10G,1"C	20–1			1.00	17	18			1	20–1	•	SIGN – BLDG TWR
SPARE		20–1				19	20				20–1		SPARE
SPARE		20–1				21	22				20–1		SPARE
SPARE		20–1				23	24				20–1		SPARE
SPACE ONLY						25	26						SPACE ONLY
SPACE ONLY						27	28						SPACE ONLY
SPACE ONLY						29	30						SPACE ONLY
DEMAND KVA:	41.6											DEMAND AMPS:	50.1

PANEL L • INDICATES 2#12, #12G, 3/4"C

MAIN SIZE: 60A AIC RATING: 25K | MAIN TYPE: MLO MOUNTING: SURFACE | VOLTAGE: 120/208 V 3PH, 4W ACCESSORIES: NEMA 3R

SERVES	FEEDER	TRIP	KVA A	KVA B	KVA C			KVA A	KVA B	KVA C	TRIP	FEEDER	SERVES
SCONCE–EAST, WALL	•	20–1	0.87			1	2						SPACE ONLY
SCONCE–WEST	•	20–1		0.61		3	4						SPACE ONLY
ELEC. HTR.	•	20–1			1.5	5	6						SPACE ONLY
FIRE ALARM PANEL	•	20–1	0.5			7	8						SPACE ONLY
LTS/RECPT – FIRE SP.	•	20–1		0.79		9	10						SPACE ONLY
SIGN–ROOF	•	20–1			0.50	11	12						SPACE ONLY
DEMAND KVA:	5.5											DEMAND AMPS:	15.1

SITE LIGHTING FIXTURE SCHEDULE MCINNISH ENGINEERING, PLLC

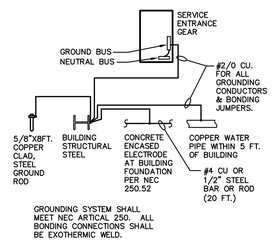
TYPE	DESCRIPTION	CATALOG NO.	LAMP	VOLTAGE	REMARKS
SA	SITE POLE MOUNTED FIXTURE WITH 3 HEADS, TYPE V, 30' POLE	GARDCO #HPV23–3–5XVF–750PSMH–BRP POLE: KW #SSP30–5.0–7–DM3090–BC–BRP	(1) 750W PSMH	480V, 1PH	1 2, 3
SB	SITE POLE MOUNTED FIXTURE WITH 2 HEADS, TYPE V, 30' POLE	GARDCO #HPV23–2–5XVF–750PSMH–BRP POLE: KW #SSP30–5.0–7–DM2180–BC–BRP	(1) 750W PSMH	480V, 1PH	1 2, 3
SC	SITE POLE MOUNTED FIXTURE WITH 1 HEAD, TYPE III, 30' POLE	GARDCO #HPV23–1–3XVF–750MH–BRP POLE: KW #SSP30–5.0–11–DM10–BC–BRP	(1) 750W PSMH	480V, 1PH	1 2, 3
SD	SITE POLE MOUNTED FIXTURE WITH 1 HEAD, TYPE III, 30' POLE	EMCO #ECA18–1–3H–400PSMH–BRP POLE: KW #SSP30–5.0–11–DM10–BC–BRP	(1) 400W PSMH	480V, 1PH	1 2, 3
SE	EXISTING POLE MOUNTED FIXTURE 5 SPHERE HEADS, 12'+/– POLE	EXISTING	(5) CFL LAMPS		1 2, 3
SF	SITE POLE MOUNTED FIXTURE WITH 1 HEAD, TYPE V, 30' POLE	EMCO #ECA18–1–QH–400PSMH–BRP POLE: KW #SSP30–5.0–11–DM10–BC–BRP	(1) 400W PSMH	480V, 1PH	1 2, 3

REMARKS
1 DARK BRONZE PAINT – EXIST. CENTER FIXTURES ARE DRB.
2 CONTRACTOR TO COORDINATE DRILLING OF POLES.
3 PAINT COLOR OF POLES SHALL MATCH FIXTURE COLOR.
4 U.L. DAMP LOCATION LISTED

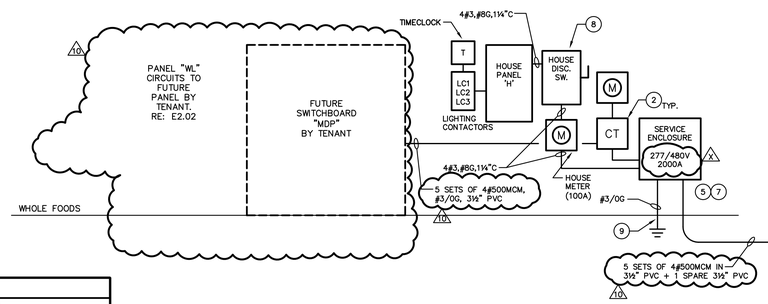
BUILDING LIGHTING FIXTURE SCHEDULE MCINNISH ENGINEERING, PLLC

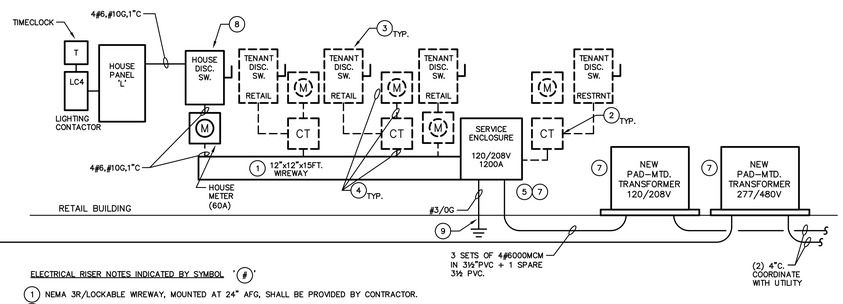
TYPE	DESCRIPTION	CATALOG NO.	LAMP	VOLTAGE	REMARKS
A	ASYMMETRICAL SCONCE	BEGA # 6890–P–BRZ	(1) 42W CFTRT 835	UNIV.	1
B	EXTERIOR SURFACE MTD. RECTANGULAR FIXTURE	BEGA # 2709–P–BRZ	(1) 32W CFTRT 835	UNIV.	1, 3
BE	SAME AS "B", EXCEPT WITH CONTR. WIRED REMOTE EMERG. BALLAST	BODINE #B94CG OR AS REQUIRED		UNIV.	1, 3
C	4' STRIP W/EM. BATTERY CHAIN HUNG	DAY–BRITE # T–132–277–FKR–126–EM	(1) F32T8 735	120	1, 3
D	TRAPEZOIDAL SCONCE, SMALL	GARDCO #	(1) 32W CFTRT	120–277	1, 3
DE	MEDIUM THROW (INTEGRAL EM BALL.)	111–MT–32TRV–UNV–BRP–(EM)	835		
F	TRAPEZOIDAL SCONCE, LARGE FORWARD THROW	GARDCO # 141–FT–250MH–QUAD–BRP	(1) BT28/E28 250W MH	120/208/ 240/277	1
G	BULLET LIGHT, WALL MTD.	BEGA # 6585P–BRZ	(1) 32W CFTRT 835	UNIV.	1
GE	SAME AS "G", EXCEPT WITH CONTR. WIRED REMOTE EMERG. BALLAST	BODINE #B94CG OR AS REQUIRED		UNIV.	1, 3
H	TRAPEZOIDAL SCONCE, SMALL WIDE THROW	GARDCO # 111–WT–70MH–120–BRP	(1) 70W MH	120	1
KE	RECESSED 6" DOWNLIGHT W/INTEGRAL EMERG. BALLAST	OMEGA # S6–1H32PLT–IE–U–T6–1H–CSS–IE	(1) 32W CFTRT 835	UNIV.	1, 3
L (LE)	EXTERIOR PENDANT W/CONTR. WIRED REMOTE EMERG. BALLAST	PER WHOLE FOODS SPEC. INTRIGUE #ELPM–32CFL–GRY–277 WITH IOTA #1420–EM–A	(1) 32W CFTRT 835	277	1, 3

REMARKS
1 COLOR SELECTION DARK BRONZE PER ARCHITECT.
2 COORDINATE LAMP WITH MANUFACTURER'S REQUIREMENTS – ALL FIXTURES.
3 PROVIDE EMERGENCY BATTERY BALLAST (90 MIN.) FOR FIXTURES INDICATED AS CROSS–HATCHED OR WITH "E" DESIGNATION.



2 GROUNDING SYSTEM DETAIL
NOT TO SCALE





LIGHTING CONTACTOR SCHEDULE

NAME	DESCRIPTION	CONTACTOR TYPE	CIRCUIT NUMBERS	CONTROL
LC1	SITE LIGHTS	ELECTRICALLY HELD 10 POLE, NEMA 3R	H–1,3,5,7,9,11,13,15 SP, SP	DUSK ON VIA PHOTOCELL NIGHT OFF VIA TIMECLOCK 1
LC2	SITE & CANOPY LIGHTS	ELECTRICALLY HELD 6 POLE, NEMA 3R	H–2,4,6,8,16 SP	DUSK ON VIA PHOTOCELL NIGHT OFF VIA TIMECLOCK 1
LC3	SIGN LIGHTS	ELECTRICALLY HELD 6 POLE, NEMA 3R	H–17,10,12,14,18 SP	DUSK ON VIA PHOTOCELL NIGHT OFF VIA PHOTOCELL
LC4	CANOPY LIGHTS	ELECTRICALLY HELD 4 POLE, NEMA 3R	L–1,3 SP, SP	DUSK ON VIA PHOTOCELL NIGHT OFF VIA TIMECLOCK 2

REMARKS
1 SP = SPARE CONTACTOR
2 PROVIDE CIRCUIT FOR COIL.
3 PROVIDE PHOTOCELL AND TIMECLOCKS – DIGITAL 365 DAY, 24 HR. ASTRONOMICAL W/HOLIDAY TORK #DWZ100A OR EQUAL.

1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

ELECTRICAL RISER NOTES INDICATED BY SYMBOL '(#)'

1. NEMA 3R/LOCKABLE WIREWAY, MOUNTED AT 24" AFG, SHALL BE PROVIDED BY CONTRACTOR.
2. FUTURE TENANT METER BASE.
3. FUTURE TENANT SERVICE ENTRANCE RATED, FUSED WITH SOLID NEUTRAL, NEMA 3R, HEAVY DUTY, DISCONNECT SWITCH FOR TENANTS. DISCONNECT SWITCH HANDLES SHALL NOT EXCEED 7–6" AFF.
4. FUTURE CONDUIT & WIRE TO BE SIZED BASED ON RATING OF DISCONNECT SWITCH.
5. WEATHERPROOF SERVICE ENCLOSURE WITH BUS BARS AND SET SCREW CONNECTORS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR PER THE UTILITY'S REQUIREMENTS. LEAVE SPACE FOR A POSSIBLE FUTURE TENANT AT EACH ENCLOSURE.
6. TIMECLOCK(S) & LIGHTING CONTACTOR(S) (NEMA 3R) FOR BUILDING AND EXTERIOR LIGHTING. REFER TO LIGHTING CONTACTOR SCHEDULE.
7. COORDINATE ALL WORK ASSOCIATED WITH UTILITY WITH ALL UTILITY REQUIREMENTS.
8. HOUSE DISC. SW. – 60/60/3P WITH SOLID NEUTRAL. SERVICE ENTRANCE RATED, NEMA 3R, LOCKABLE.
9. 8'–0" X 3/8" GROUND ROD. BOND TO BUILDING STEEL & WATER PIPING.

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RECORD DRAWINGS - 9/24/2013

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No.	Date	Item
7	11.15.12	ASI #5
10	01.22.13	ASI #8

REVISIONS

BBM Drawn
BBM Checked
BBM Approved

STATE OF TEXAS — JAMES E. McINNISH — 83219 — LICENSED PROFESSIONAL ENGINEER — 01.7.13

ELEC. DETAILS & SPECIFICATIONS

Project No.	11013.03
Date	05.25.12
Last Revision	01.21.13

E3.01