# Renovate Fire Station 605 (75th Street & Shea Boulevard)

Estimated Project Cost: \$800,000

Staff Priority: 25 of 34

### PROJECT DETAILS

### **Project Summary**

Fire Station 605 was built in 1983 and needs extensive remodeling to allow for more efficient use of limited space and improve the bathrooms, locker rooms, bunk rooms, and kitchen. The renovated apparatus bay area also will include an OSHA compliant decontamination room and personal protective equipment storage.

### **Project Cost**

Design	\$87,000
Bond Issuance Cost	\$60,000
Construction	\$483,000
Administration	\$80,000
Contingency	\$95,000
Total Cost	\$805,000

### **Project Location**

75th Street and Shea Boulevard



### **ANALYSIS & ASSESSMENT**

### **Background**

Fire Station 605 was constructed in 1983 and is need of extensive interior remodeling to allow for more efficient use of the limited usable space within the structure.

### Safety

The current facility does not have OSHA-certified decontamination area or a storage area for personal protective equipment that meets industry standards as outlined in National Fire Protection Association 1500 and 1851 recommendations.

### What is the customer experience?

The current facility is not commensurate with contemporary industry standards or City of Scottsdale employee expectations.

### **Recent Staff Action**

The Scottsdale Fire Department, following the recommendations of COS Audit Report No. 1413, updated their Standard of Coverage and Deployment Plan document by contracting with Emergency Services Consulting International to provide a third-party perspective. The contractual scope of work identified three components to

### **ANALYSIS & ASSESSMENT**

be completed; Standard of Coverage, Facilities Assessment, and Fleet Assessment.

The consultant also hired a third-party architect to work with COS Facility personnel to complete the comprehensive fire facilities assessment. In the executive summary of the 'Fire Station Assessment' specific to FS605, "Scottsdale Fire Station No. 5 was constructed in the 1990's although the exact construction date could not be verified. The fire station floor plan is similar to several other fire stations constructed in Scottsdale between 1990 and 2002. Due to the heavy vehicle volume on Shea Blvd. ingress/egress can be difficult at certain times of the day although emergency apparatus egress was not mentioned as a concern. The facility has undergone minor renovation to include enclosing a Captain Dorm and the addition of a fairly large emergency generator that was relocated from another facility. The facility is functional but does not meet the current standards established by the City of Scottsdale Fire Dept. as is evident in their current fire station designs. Portions of facility

meet previous ADA standards but the entire facility is not ADA accessible. Issues of the facility include the lack of private dormitories which compromises the ability for male/female fire personnel; however male/female restrooms are available. The location of the physical fitness equipment, turn-out, laundry and ice storage bin in the apparatus bays does not meet current NFPA 1500 recommendations. Interior finishes are somewhat dated in appearance but in generally good condition. Mechanical systems, (2) 5-ton split systems were functional requiring general maintenance, but the evaporator cooler relief system was not adequate allowing humidified air to enter the living side of the facility through the man-doors. The overall assessment of the facility is fair and replacement/relocation due to facility condition is not presently warranted provided the facility is maintained"

#### **Council Goals**

The implementation of this project supports the Council Goal: Enhance Neighborhoods.

### **RESOURCE IMPACTS**

### **Operating Cost**

This is a facility asset staffed 24 hours per day 365 days per year and would be similar in ongoing operation costs of like sized fire stations housing four employees.

### Staffing, Workload Impact

There will be no impact on staffing or workload due to the new station.

### **Maintenance Requirements**

This is a facility asset that would fall into their normal and routine periodic maintenance schedule similar to other fire stations of like size.

### Impact if this project is not implemented

The fire department would continue to house employees and respond to customer needs from the current location; however the station would not meet OSHA and NFPA Standards.

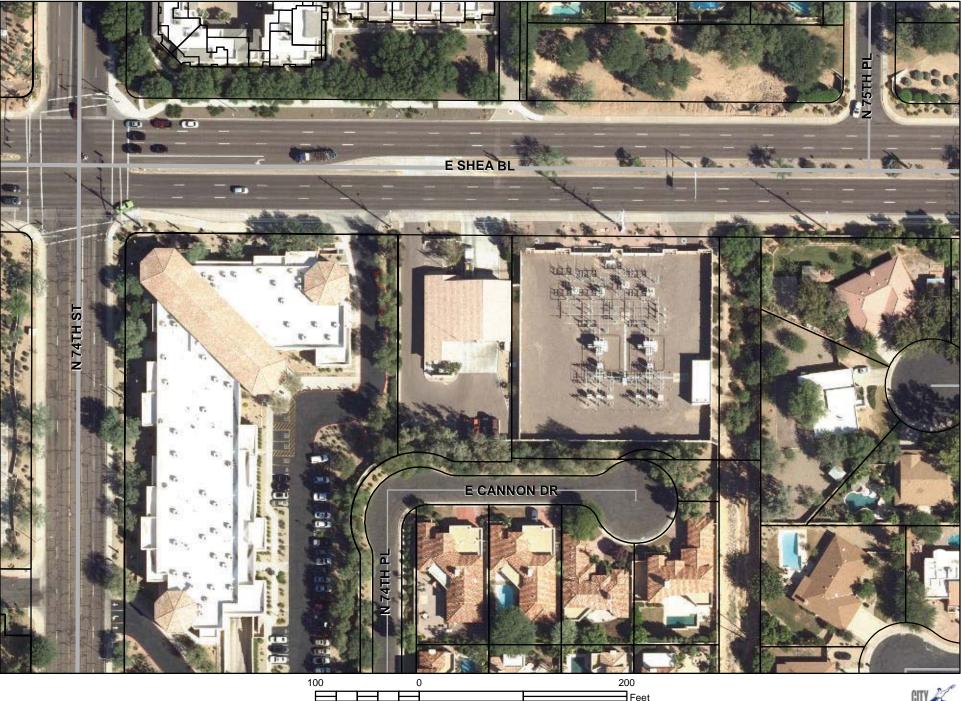
### **Supplemental Information:**

- 1. Picture of existing facility
- 2. Facility location maps
- 3. Design plans

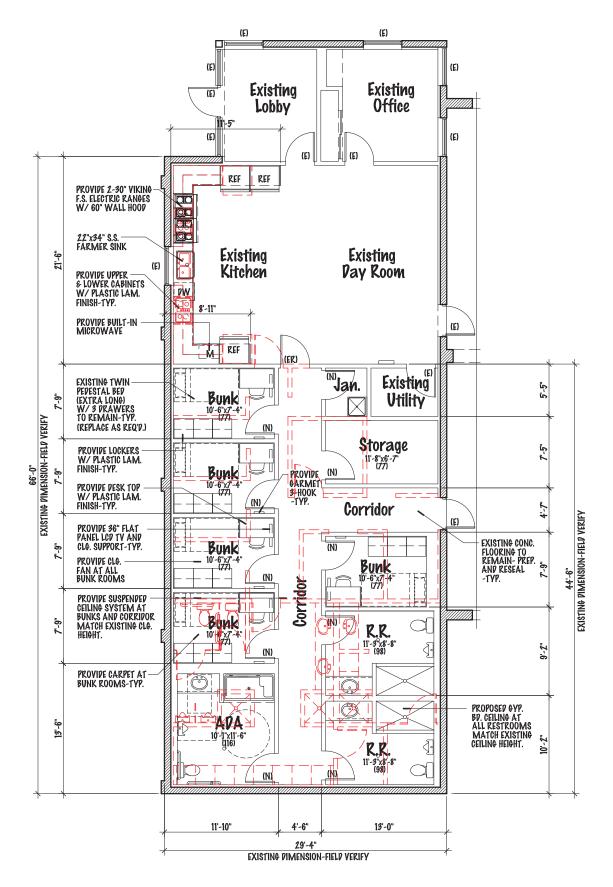
Google Maps

Page 1 of 1











### City of Scottsdale / Renovation with Pemolition

STA TION 605 SCALE: N.T.S.

41

11/14/12

Sheet Number



2 VICINITY MAP:

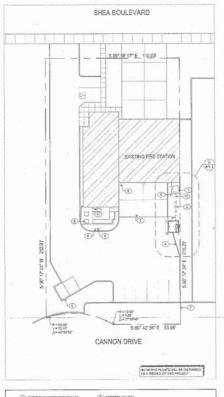
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PROJECT DATA:

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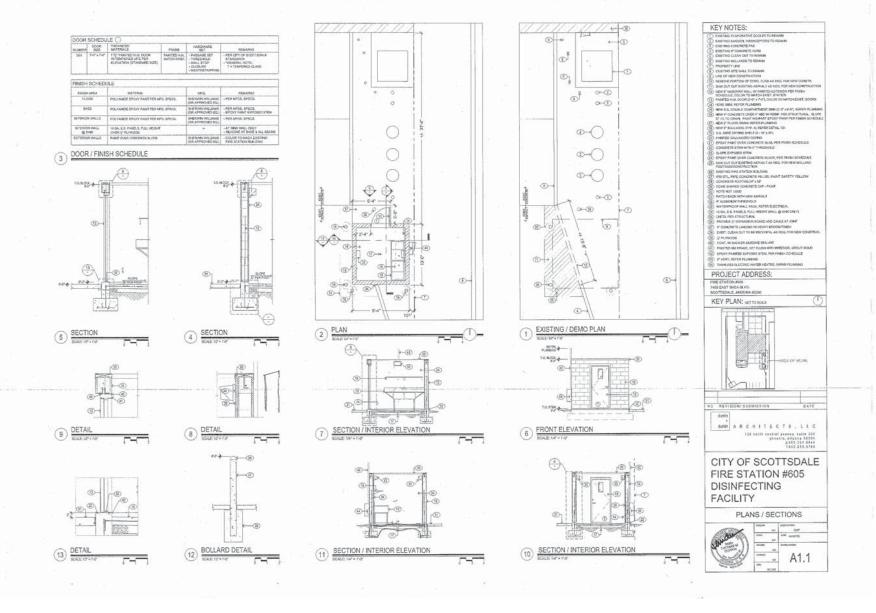


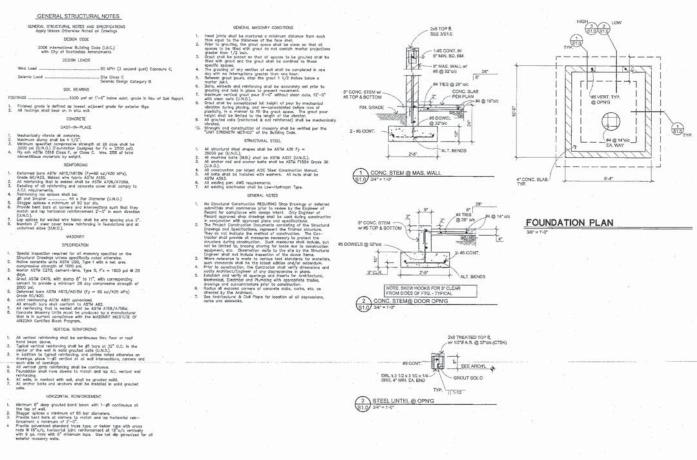


1) SITE PLAN:











CITY OF SCOTTSDALE FIRE STATION #605 DISINFECTING FACILITY

duskin ARCHITECTS, LLC

PROJECT ADDRESS:

NO REVISION/ SUSMISSION

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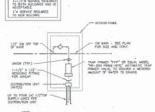
FOUNDATION PLAN / DETAILS







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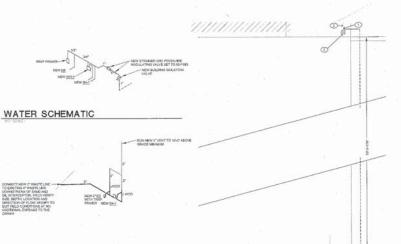
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2 PLAN

### WASTE AND VENT SCHEMATIC

FIXTURE UNIT CALCULATIONS

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			WATER	MASTE	WATER	WAST					
	EXISTING WATER CLOSET - NES.	3	2.2	3	6.6	- 1					
	EXECUTE LAVATORY - RES.	3	1	15	- 6	- 3					
	EXISTING KITCHEN SPIK - RES.	1	1.4	2	1.4	2					
	EGSTING SHOWER - MES.	- 2	1.4	2	4.2	- 6					
	EXISTEND HOSE BIRS	3	40		12						
	ENGINEER WASHING - RES.	1	1,6	2	1,4	- 2					
	EXISTING PROVATE DISHWASHER	1	1,4		1.4						
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	EXISTING EVAP. COOKER	1 .			. 1						
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KEY	

PROJECT ADDRESS:	
FIRE STATION #605 7496 EAST SHEA BUVO. SCOTTSDALE, ARIZONA #6980	
KEY PLAN: NOT TO SCALE	



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CITY OF SCOTTSDALE FIRE STATION #605 DISINFECTING FACILITY

PLANS / CALCULATIONS



SCOPE: THE MORE UNDER THESE SECTIONS WILLISE PURPLEMENT AND INSTALLING PLUMENC SYSTEMS AS SHOWN ON THE GRAWINGS AND REQUIRED BY CODE. INSTALL ALL PIPING ABOVE FLOOR UNLESS NOTED OTHERWISE ON THE ORAWINGS. LISE MIGURIT COPPER SOLDER TIPE SITTINGS AT ALL COPPER PIPE CONNECTIONS.
THEE DRAWING IS NOT APPROVED. THE "L" HARD DRAWN CONTEN, CONFORMING TO ASTW SHE, FOR ALL WATER PIPE NOT SET IN OR UNSER CONCRETE OR IN SHE GROUND. TYPE 'N' HARD GRAWN COPPER, CONFORMING TO ASTA BES, FOR WHICH PIPE SET IN THE SHOUND BUT NOT SHORE CONCRETE FLOOR SLARS. THE "N" SOFT DRAWN COPPER, COMPORAND TO ASTN SIRE FOR ALL NATION PIPE SET BELOW CONCRETE FLOOR SLAW, MISTALL NO JOINTS BELOW FLOOR SLAW. SCOPE: ALL WASTE AND VENT PIPE SHALL BY OF WATERIALS COMPLYING METH THE IDDS BYC.
CAST BOD SOL PIPE COMPOSING WITH CORP SOL WASTE. 6. MOST LINES SHALL BY CALVANIES.
BOS NOT SCHOOLS, 40, COMPOSING TO ASSE ATOS. NO-HUE COURLESS FOR PIPE AROUS DEADE: BOURLE BARN, STAINLESS STEEL SHELD-CLAWP ASSEMBLY WITH RECIPIEDE CARRET CONFORMED TO COSP 301-477. SECTION 18400 PLUMBING EQUIPMENT NUMPL. ALL ELECTRICAL COLUMNOT AND CONTROLS SHALL HE UL LIERD. PROMOT ASME AMPRICES TRANSPORTATION AND INSISSING RELECT VISUES ON ALL DOMESTIC REATING COLUMNOT.

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ALL LAWTONES AND SINKS SHALL COME COMPLETE WITH HECKSTARY TIBM, TY TRAPS. TALPECE COMMECTIONS, SHATTON VALVES, AND REQUISED CARRIERS.

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SHAR ARE TO BE SUPPORTED ON A QUAN MODIC. LOCAL EMPAREE STEEL 1—5/9° OS. TURNAN LOCS, AN EMICE AMOUNTABLE SHALES SHAMES FAMILY HITTING CHARGE FACILITY, AND JOS LOSS SHAMES SHAMES CONTINUED SHOULD AN'S WORLD THE THE OWNER FACILITY OF THE THROUGH MARKETS. IN THE THROUGH ALL OFFI T

SUPPLIES EASTMAN COOK-20-LK 1/2" + 3/5" AND,E STOPS WITH FLERENE TIME RISERS.

TRAP HOSSING, 2" AGUISTABLE CAST BRASS BOOT P-TRAP WITH GLEANOUT PLUG, OWNING PLATED,

PLUMBING CONTRACTOR TO COORDINATE ALL LINES AND YOUTE WITH RELEY HONTS AND NECHANICAL COLOMBINS. ALL VENTS THEIR ROCK SHALL BE MERINAN TO'-O" FROM ALL FRESH ARR BITAKES. PLIMBNC CONTRACTOR SHALL VEREY, PROFE TO DRENGING, THAT THE DESIGNED SLOPE OF THE SENSE SHALL WORK URIGIN ACTUAL FIELD CONSTITUDE. IF THE DRESIGNED SLOPE WILL NOT WORK, THE PLUMBING CONTRACTOR SHALL CONTROL THE EMPHICE! PROVED ACCESS PARELS FOR ALL WATER HARMER ARRESTORS AND/OR SHAP PRINCES. ALL FLOOR DRAINS, FLOOR SINKS AND OTHER FIXTURES SLELECT TO NON-USE SHALL BE EXAMPLED WITH A TRAP PRINCE. ALL MATER CLOSES SHALL HE ELONGATED BONES WITH OPEN FRONT SEAT PER PC. ALL HEW FILMERS PIXEURES SHALL MEET SHE LOCAL MARGPAUTICS LOW WATER CONSIMPTION AND HANDICAP REQUIREMENTS. FLASH ALL PIPE PENETRATIONS THROUGH THE POOK RY A WATCH TIGHT MANNER. THE CONTRACTOR SHALL VERY ALL UTILITIES LOCATION, SIZES AND CONNECTION RECURRIENTS PRIOR TO BIG AND COMMONOMENT OF ANY WORK.

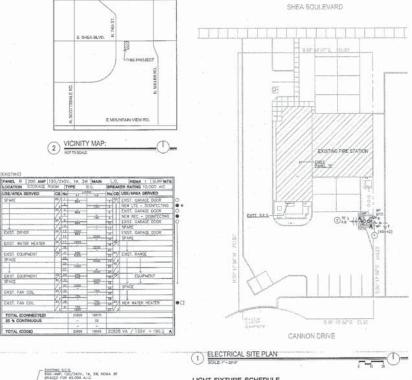


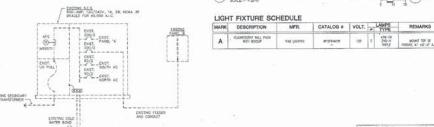


- 27.6 × 120X + 240 √3

TOTAL LOAD ON S.E.S.

NEW LOAD ADDED TO EXIST. PANEL TV = 14.5 AMPS





Degrae: Kondy Germon angine or na. inc.

428 UX 240-4 707LE

## 5. ALL GENERAL USE RECEPTACLES MOUNTED WITHIN 6" OF A BASIN OR SHALL SEE G.F.C.I. 6. CONTRACTOR IS TO PROVIDE HOND WHE IN ALL RACEWAYS, SZED PER H.E.C. ART. \$250. 7. ELECTRICAL CONTRACTOR SHALL PROPURLY SUPPORT ALL DISTING AND NEW CONDUIT FROM NEW SUPPORTS PER NEC 407 - 701-11 **OKEYED NOTES:** (1) AND CU CHO, 3/4°C. (2) #IT'S 3/4°C THRU-OUT. PROJECT ADDRESS: THIS EAST SHEARING. KEY PLAN: NOT TO SCALE ARCHITECTS, LLC

GENERAL NOTES:

#### CITY OF SCOTTSDALE FIRE STATION #605 DISINFECTING **FACILITY**

SITE PLAN / PROJECT DATA



ONE-LINE DIAGRAM EXISTING S.E.S.

#### ELECTRICAL SYSTEM SPECIFICATIONS - DIVISION 16000

SCORE OF WORK

DENOTAL DESCRIPTION The work in general shall consist of, but is not sorty finited to the following.

3.1.5 Include \$ funded dislam; oliowance for power and belephone company utility service charges. Difference between octual cost and allowance to be readlist or billed to the Owner.

3.1.8 Funishing and installing all motor starters and control components, not specifically specified to be furnished in accordance with other sections of the specifications.

3.1.7 Furnishing and installing all power and wiring except that which is pre-wired in factory assembled equipment

51.8 Installing all LINE VOLTAGE mechanical control wining and associated controls which are furnished by the Mechanical Contractor (line voltage control wining and controls shall be furnished and installed by the Mechanical Contractor).

3.1.13 Review of drowings and oil specifications for each section of two. Ourses specifically noted otherwise, herein or deswhere. Aurish and hatall items of any electrical nature required for completion of very for other trodes, whether or not, some is shearn or noted in this or other sections.

GENERAL PEQUADWONTS

activations or all egyptomic map as grapmy contributed.

2. All expenses familities did in the micros involved to the contribution with connection, etc., in the regard destroins said with connection, etc., or the regard destroins said with contribution of adolet the moner and method destroined to the contribution of adolet the moner and method destroined to the contribution of adolet the tigen and coult get microsid and evidentifies the sould. Where a conflict entits between the strongers and the sould. Where a conflict entit between the strongers and the sould. Where a conflict entit between the strongers and the sould. Where a conflict entit between the strongers and the sould be made and the strongers and the sould be sould be sould be conflicted. The confliction is behalf of the confliction of the confliction.

SERVICE ENTRANCE EQUIPMENT

7.2 Libel equipment and each individual eventurent device per Section 16003.22.

Label equipment par Section 16000.22

Approved manufacturers are: Square D, Cutter-Hammer, na/TIE, General Electric

-Per Secrotely mounted motor starters shall be ecross-ted to secretary and the secretary starters are secretary and secretary starters are secretary secretary and secretary se

Measual starters sholl be harsepower, voltage and rated with evertood protection and green "on" prior Surface mounted unless noted atherwise.

Lobel per Section 16000.22

Approved enterofacturers are: Square 0

TRANSFORMERS

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Lobel per Section 16000.22

conourt

11.1 Metallic condults shell be hot disped galvanized equal to LTV Steel.

IZ WE

 $12.2\,$  Insulation: Type THINI/THIMI, or 30HW for all branch blocks and feeder wing.

12.4 Feeter conductors \$2 and origin may be appear or 44-5000 testes students day. Assuminant consisters that be sead or large analysis to oppose. Conduct its shart not seed 40% factor as described in 2005 YEE, owner C, table C1 (copper) or C14 (distinguish).

13.1 Safety switches: Heavy duty, forsed rejection type, minimum 200,000 A.I.C. roted. "NP" indicates not fused.

13.1.1 Label per Section 16000.22

13.3 Conduit strep: Heavy gouge steel anep-on type. Electrical metaliic fubling fittings: Equal to T&B essions type. Compectors shall have insulated bushings.

13.5 Rigid condult lookeuts and bushings: Equal to T&S. 13.6 Rankle conduit and fittings: Equal to California Conduit and Cable Company, Inc.

13.7 Liquid light conduit and fittings for all exterior and equipment connections.

13.6.1 For all light fictures: Octogon or 4" square boxes.

13.6.2 For switches and receptacles: 4" or 4-11/16"

13.9 Contribute: Exact to Orouse-Ninds.

Mrw and Cable: Epid to General Cable and/or

13.11 Devices: "Hubbell", "Leviton", or approved equal Receptocless Duples—2D arts \$5582, isolated ground = 20 arts \$5582, isolated ground = 20 are \$65-5582, Self-times. 20 arep \$7 sergle pole. 1222 double pole. 1223 drue way, 1224 four way. Colors to be specified by Author/Overer/Tennet.

2 Device plotes: "Hubball", "Lewton", or equal project in Hubball areas or as nated on drawings. Ent

(SOME SECTIONS MAY NOT APPLY)

13.13. Lighting Indures: Equal to as shows on fiabu-schedule of depotabed on drawings, complete with lumps in origined, sortions and all complets, etems, hangers and accessories including oil structural members required for program mounting. All fluorescent future beloads shall be emergy sorting lips. Submit shap drawings to Architect/Re for opported by the same. Next the CEC, approved in CC.

SLODIES, INSERTS, OPENINGS

15.1 The Contractor shall include in his bid all exception, coreportion, till, book IR, outling, filting, requiring and finishing of all work necessary for the interlation of of apparent under this specificate but no outling of the week of other Contractors shall be done #Thought accessed of the Generic Contractor.

15.2 Earthwark shall be done in accordance with Intest Industry standards.

CLEANING OF DOCUMENTS Contractor stuff of all times heap the premises or of waste motarids and deshire coursed by his employees and redion. Egylament and required in the work shall be removed or to the termination of the costract.

TESTS AND INSPECTIONS

17.2 Furnish of meters, cable, connections and opporatus necessary for making tests.

17.3 Seal system for shorts and grounds. Foulty wiring shall be removed and replaced. Any device, apportunit or flature hallofied sheeting substandord performance shall be removed and replaced so directed by the Mrchitect/Eugheur.

17.4 Megger all systems neutrals to insure the neutral is not grounded within the system.

5.1 All data shall be submitted at one time, bound and indeed is no enterly monent. Prior to starting the sorts, administration of the starting time of the start of sold of the starting time of the starting time of the sections, split failures, matter control casters, for domi-position, dismens, sound system, emergency generator, division, transformers, leders at required by 16000.22, and all other enginees to be ferritable.

As-built drawings shall be submitted in accordance with and if required by Chisics 1 — General Requirements.

21.2 Contractor strall provide two (2) sets of operating and resintaneous manufal for each place of equipment provided by this discipline, only when such manufactors evaluate from the manufactors.

20. QUARANTEE



7455 EAST SHEA BLVO.



NO REVISION/SUBMISSIO durkle defin ARCHITECTS, LLC

CITY OF SCOTTSDALE FIRE STATION #605 DISINFECTING **FACILITY** 

**ELECTRICAL SPECIFICATIONS** 



E2.0

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