



Mark Armijo ACADEMY

MARK ARMIJO ACADEMY PORTABLE RELOCATION

CONSTRUCTION DOCUMENT SET

MAY 17, 2021

SHEET INDEX:

GENERAL

G-000 Cover Sheet

CIVIL

C-100 HYDROLOGY
C-101 GRADING AND DRAINAGE
AS-101 SITE PLAN

STRUCTURAL

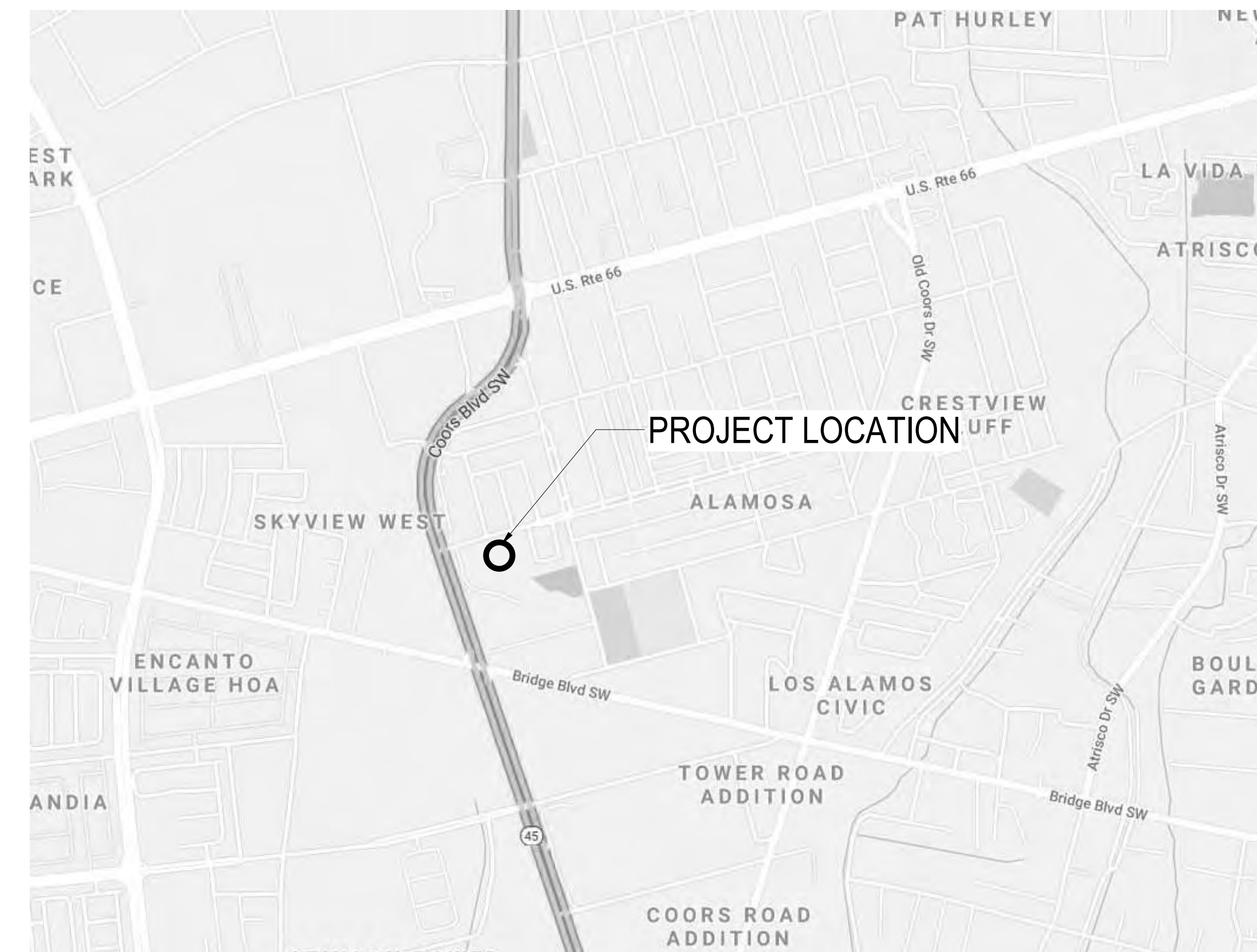
SKS-001 PORTABLE FOUNDATION PLAN
SKS-002 FOOTING DETAILS

ELECTRICAL

E-001 ELECTRICAL LEGEND
ES-101 ELECTRICAL SITE PLAN
E-601 ELECTRICAL DIAGRAMS

SCOPE OF WORK:

Project scope of work to include the placement of portable classroom building located on the south western portion of the campus. Scope to include the construction of foundations, utility connections, and site work around the portable location as shown within the drawings.



VICINITY MAP

6800 Gonzales Rd SW
Albuquerque, NM 87121

OWNER

Mark Armijo Academy
6800 Gonzales Rd. SW
Albuquerque, NM 87121
p_505.873.7758

CONSULTANTS

CIVIL
Miller Engineering Consultants
3500 Comanche NE, Bldg F
Albuquerque, New Mexico 87107
p_505.888.7500

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.881.3008

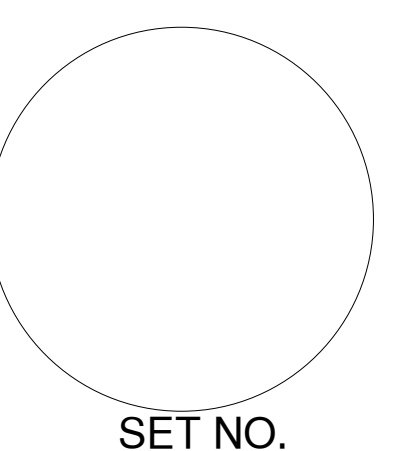
M/E/P/F
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
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fbt | architects

MAIL: 6501 Americas Pkwy NE Ste. 300
Albuquerque, NM 87110
p_505.883.5200 www.fbtarch.com



ARCHITECT



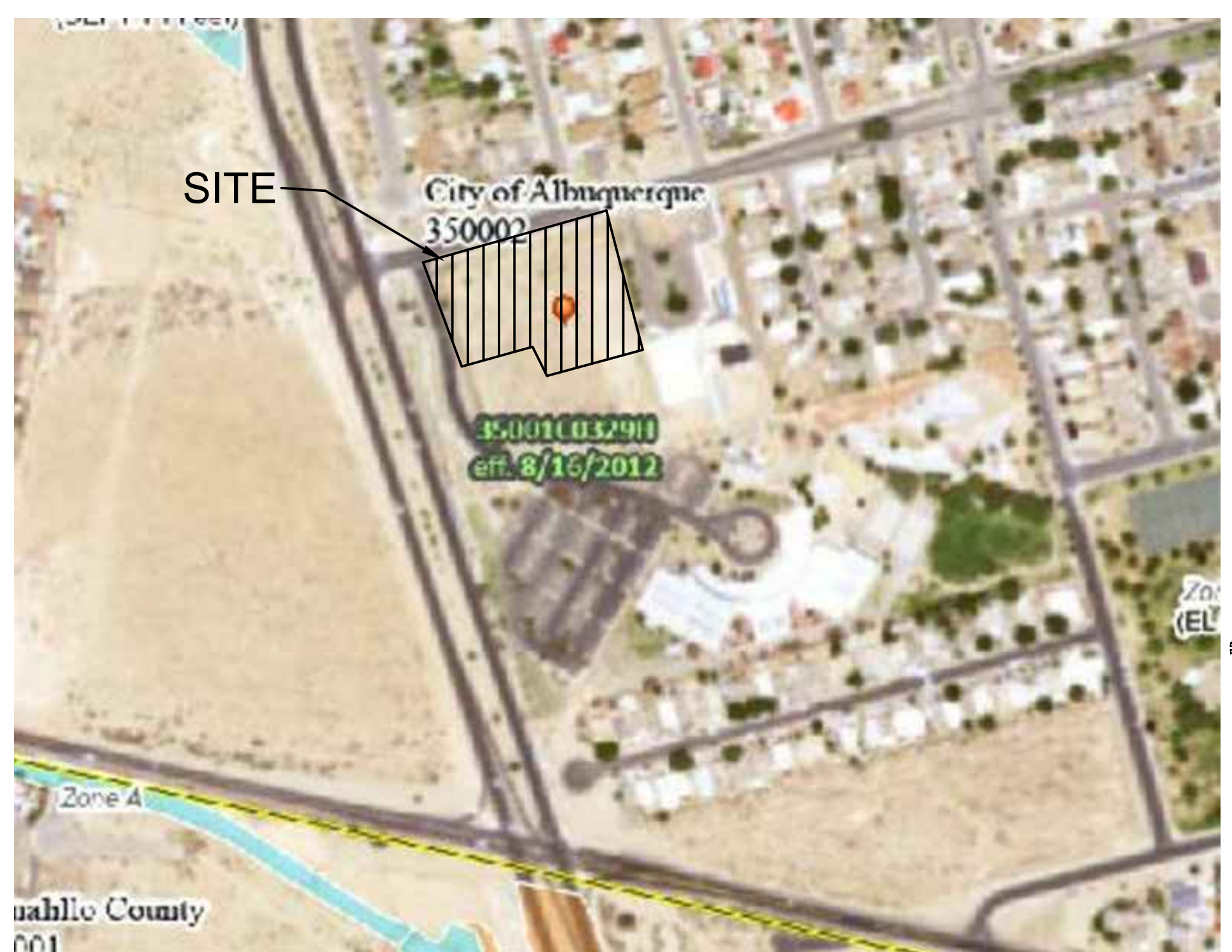
SET NO.

DRAINAGE REPORT

GENERAL NOTES:

- EXISTING TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC, CORRALES, NEW MEXICO APRIL 2020. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- PROJECT BENCHMARK IS A CITY OF ALBUQUERQUE SURVEY BRASS DISC STAMPED "ACS BM 11-K10". TO REACH THE BENCHMARK FROM THE INTERSECTION OF CENTRAL AVENUE AND COORS BLVD. S.W., TRAVEL SOUTH ON COORS BLVD. 0.55 MILES TO THE INTERSECTION WITH GONZALES ROAD S.W. EPOXIED TO TOP OF S.S.E. CONCRETE CURB RETURN OF THE INTERSECTION. ELEVATION = 5,046.07 FEET (NAVD 1988 VERTICAL DATUM)
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND BUILDING.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
- ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2014 EDITION OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (GREY BOOK).
- ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.
- THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY NRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL.



FLOOD ZONE MAP
 FLOOD ZONE MAP 35001C0329H

SITE LOCATION

The proposed project is located on approximately 3.3-acres of the campus of Mark Armijo Charter school. The overall site is estimated at 6 acres and can be accessed from Gonzales Road SW.

EXISTING CONDITIONS

The overall existing site is estimated at 6 acres. The eastern 2.7 acres is currently partially developed with existing buildings and parking lot areas. There are two existing retention ponds that collect runoff from the eastern portion of this site. The pervious grading and drainage plan completed by Wooten Engineering in 2017 indicates that the two existing retention ponds can retain the 100-year, 10-day event. We have provided Sheet C-101 and C-102 prepared by Wooten Engineering as a part of this submittal for informational purposes only.

Based on the plan prepared by Wooten Engineering the western portion of the site to be developed under this project is called Basin C. For this submittal the site will be called Basin C to be consistent with the previously approved Wooten Plan.

Per the FMEA Panel on this sheet, the site does not lie within a 100-year FEMA floodplain and is not impacted by offsite flows.

PROPOSED CONDITIONS

The proposed project would consist of a mass grading plan for the western portion of the site (Basin C). This phase will include mass grading of the site and the construction of a new retention pond (Pond C). The buildings, parking lots, playfield, and other improvements on the site are all improvement to be constructed in the future. Individual grading and drainage plans will be required for each future phase of development.

Basin C under future fully developed conditions will generate 0.594-acre feet during the 100-year, 10-day event. Pond C will be size to retain 100% of this volume. Pond C will be connected to existing Pond B with a 24" pipe. The existing emergency overflow spillway will be used for any overtopping flows from these ponds.

CONCLUSIONS

When developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated at 4.37 cfs, and 0.232 acre-feet during the 100-year, 24-hour event. The first flush pond volume required for the project estimated at 1975 cf. The proposed retention Pond C has a capacity of 0.720 acre-feet and is capable of retaining 100% of the 100-year, 10-day volume from Basin C.

HYDROLOGY CALCULATIONS

Precipitation Zone 1 - 100-year Storm P(360) = 2.20 in P(1440) = 2.66 P(10 day) = 3.67

Basin	Basin Area (Ac)	Land Treatment Factors				Ew (in)	V(100-6) (af)	V(100-24) (af)	V(100-10 day) (af)	Q(100) (cfs)
		A	B	C	D					
Existing Conditions										
C	3.40	1.70	0.00	1.50	0.20	0.77	0.219	0.227	0.243	7.37
Total	3.40									7.37
Proposed Conditions										
C	3.40	0.00	0.50	1.30	1.60	1.40	0.398	0.459	0.594	11.74
Total	3.40									11.74

FIRST FLUSH CALCULATIONS

VFF = (69,696 SF * 0.34" / 12)

VFF = 1,975 CF

VOLUME PROVIDED (AT 5031 TOP OF POND) = 0.720AF = 31,636.20 CF

POND RATING CURVES

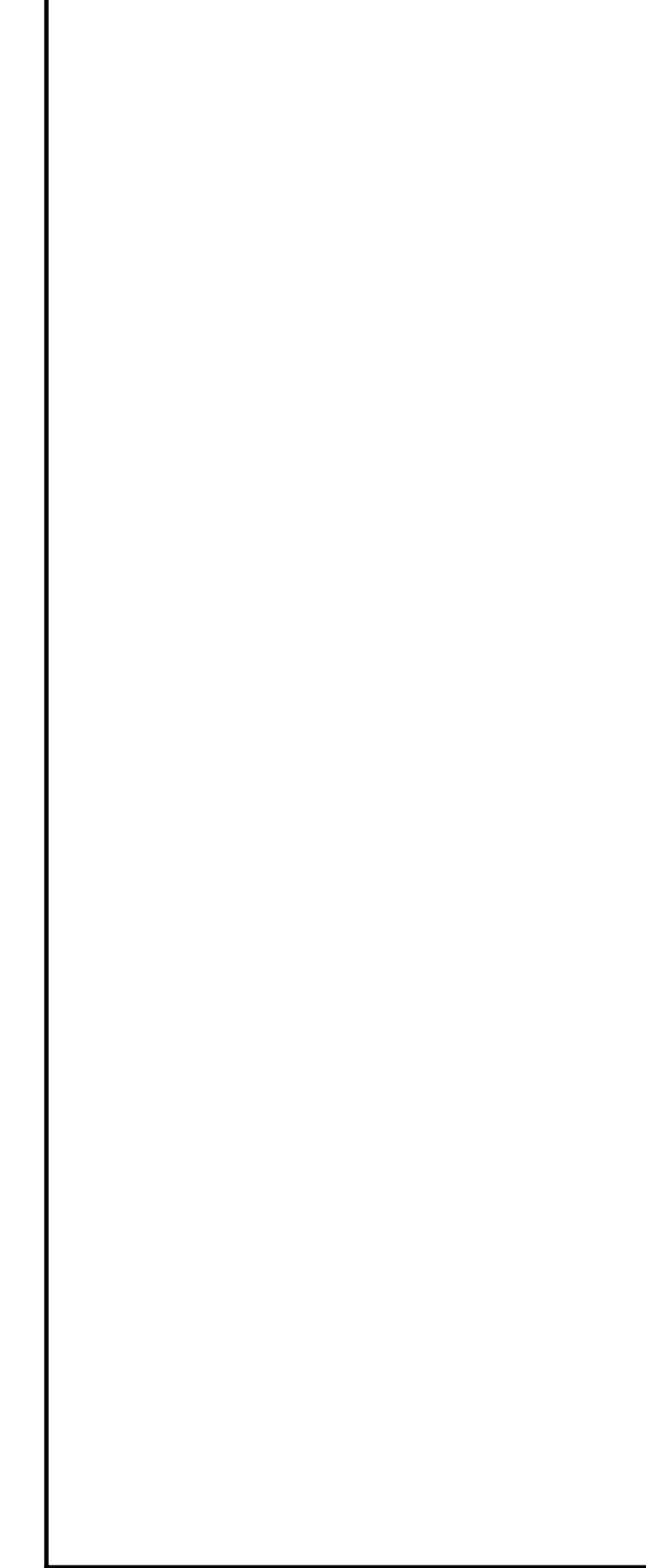
WATER HARVEST AREA				
Pond Rating Table				
Side Slope	3:1			
Depth (ft)	Area (sq ft)	Volume (ac-ft)	Cum Volume (ac-ft)	
5025	2856	0.066	0.000	0.000
5026	3537	0.081	0.073	0.073
5027	4290	0.098	0.090	0.163
5028	5117	0.117	0.108	0.271
5029	6010	0.138	0.128	0.399
5030	6987	0.160	0.149	0.548
5031	8021	0.184	0.172	0.720

top of pond



VICINITY MAP
 ZONE ATLAS K-10-Z

CONSULTANT



Mark Armijo Academy - Master Plan

Project Status

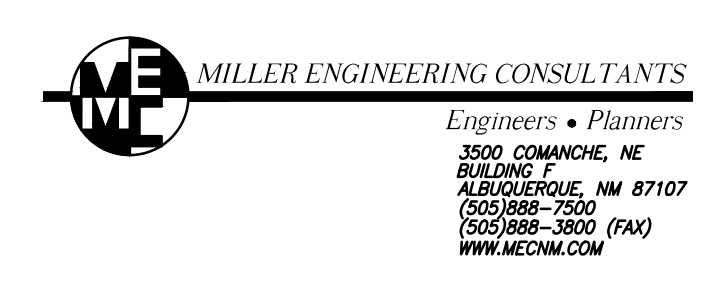
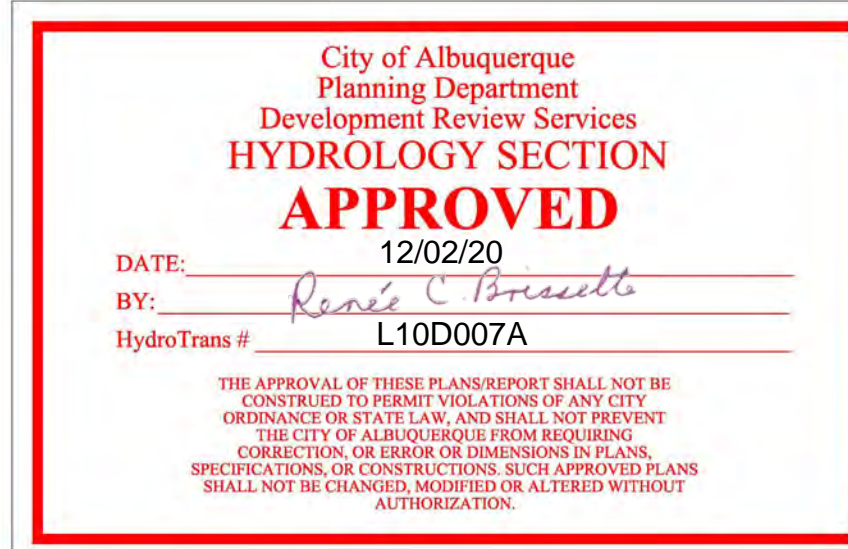
6800 Gonzales Rd SW
 Albuquerque, NM 87121

NOVEMBER 2020

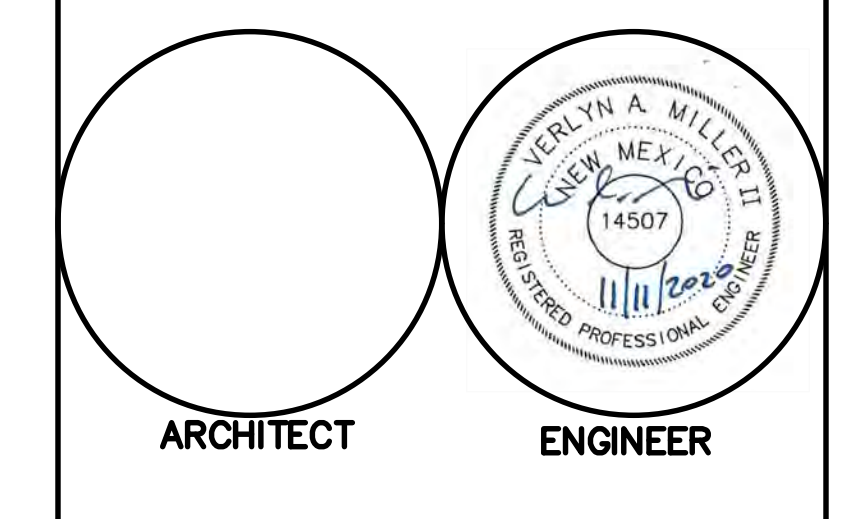
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ISSUE:	
DATE:	
PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE	
HYDROLOGY	



CONSULTANT



Mark Armijo Academy - Master Plan

Project Status

6800 Gonzales Rd SW
 Albuquerque, NM 87121

NOVEMBER 2020

MARK	DATE	DESCRIPTION

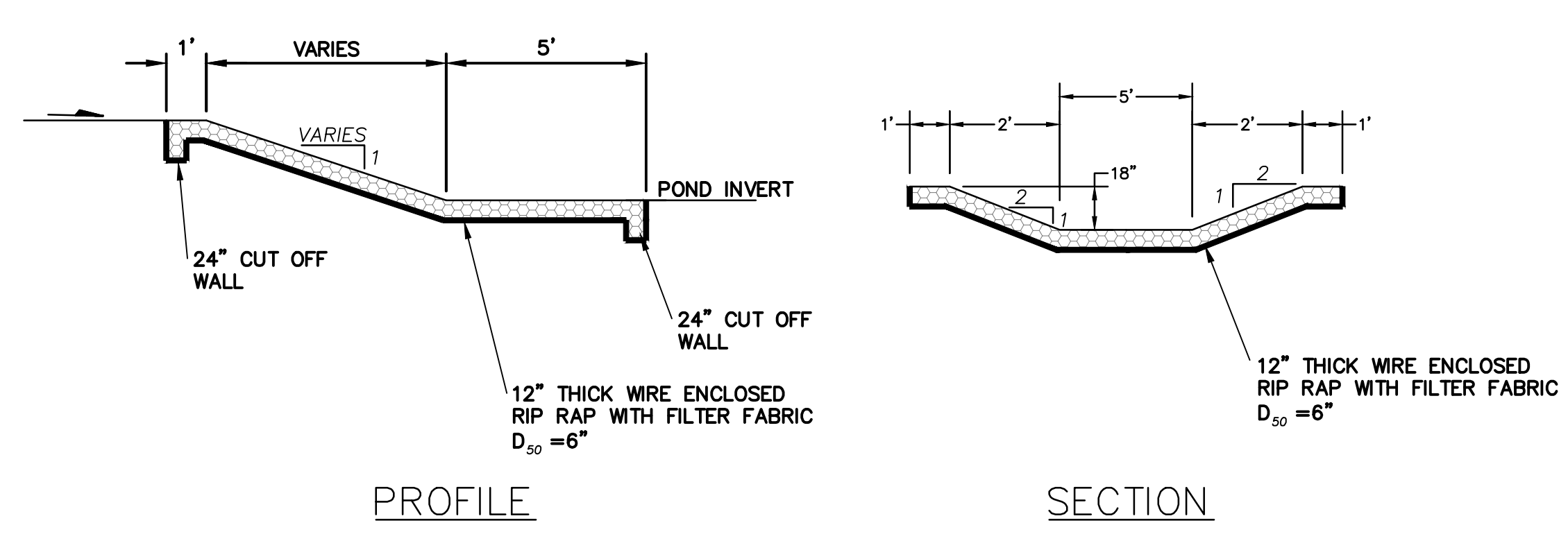
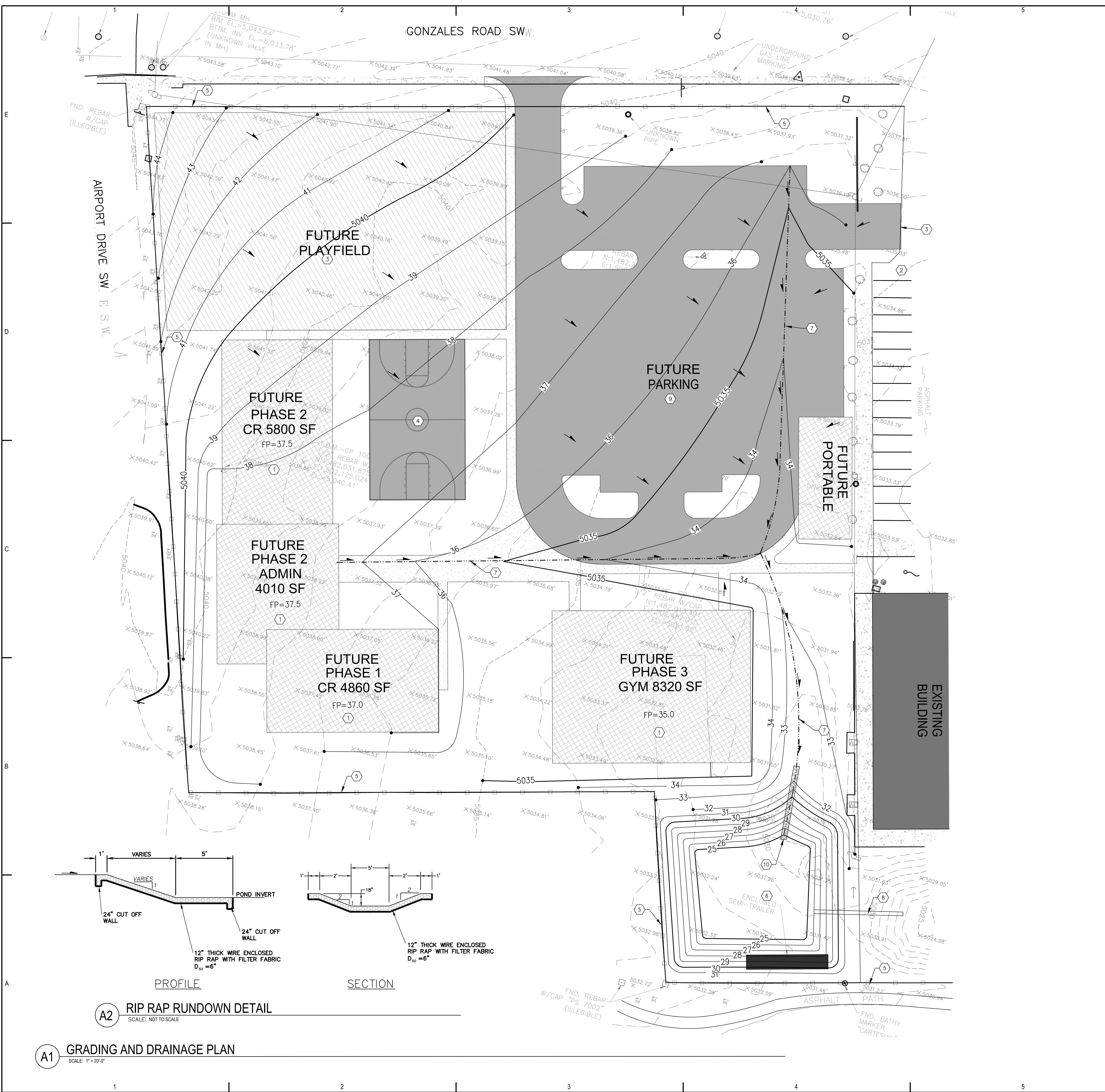
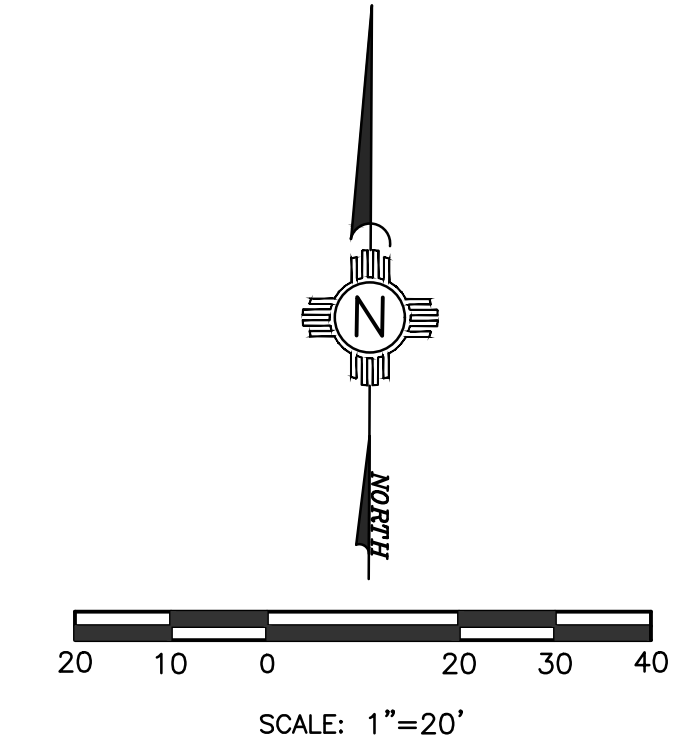
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DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
MASS GRADING PLAN

C-101

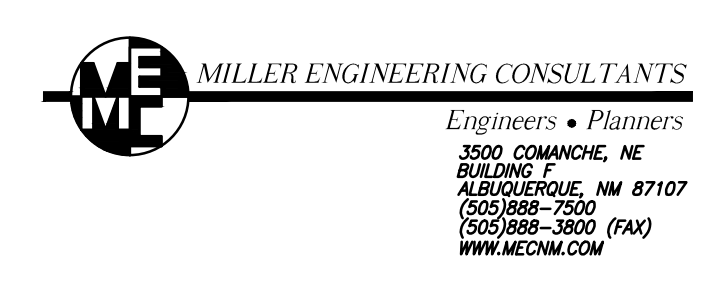
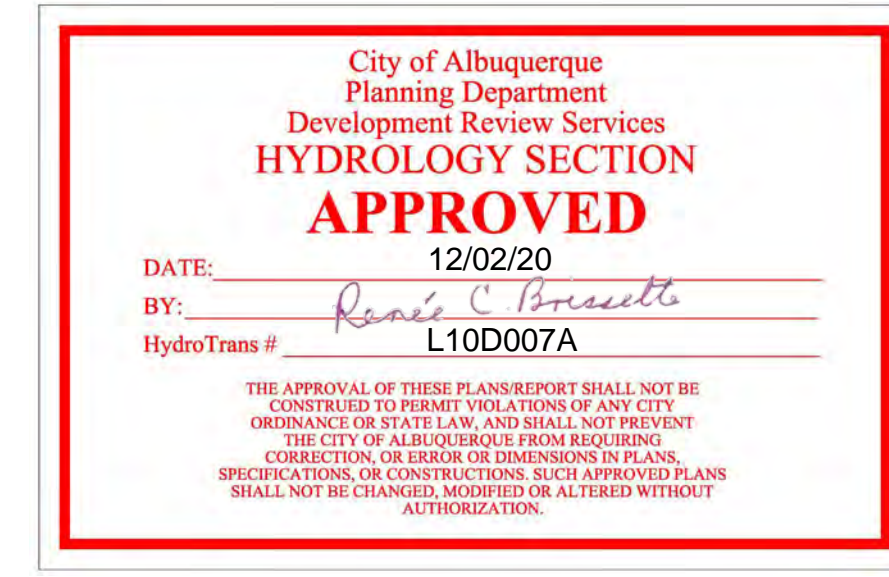
- LEGEND:**
- 38.00 PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
 - MATCH (95.19) MATCH EXISTING ELEVATIONS
 - TCON TOP OF CONCRETE
 - FL FLOW LINE, CURB
 - INVT INVERT
 - FG FINISH GRADE
 - TBC TOP OF BASE COURSE
 - TC TOP OF CURB
 - TG TOP OF GRATE
 - TA TOP OF ASPHALT
 - FLOW ARROW
 - ~ GRADE BREAK-HIGH POINT
 - SWALE
 - SD STORM DRAIN LINE
 - 5895 PROPOSED MAJOR CONTOUR
 - 5895 PROPOSED MINOR CONTOUR
 - 5895 EXISTING MAJOR CONTOUR
 - 5895 EXISTING MINOR CONTOUR

- KEYED NOTES:**
1. FUTURE BUILDING SEE ARCHITECTURAL DRAWINGS.
 2. EXISTING PARKING AND ASPHALT TO REMAIN.
 3. FUTURE PLAY FIELD SEE LANDSCAPING PLAN.
 4. FUTURE BASKETBALL COURT.
 5. EXISTING PROPERTY LINE.
 6. NEW RETENTION POND C. TOP=31.0, INV=25.0.
 7. EARTHEN SWALE
 8. NEW 24" ADS HP STORM DRAIN PIPE, L=47', S=0%, INV IN=26.0, INV OUT=26.0.
 9. FUTURE PARKING LOT.
 10. RIP RAP RUNDOWN, SEE DETAIL THIS SHEET.



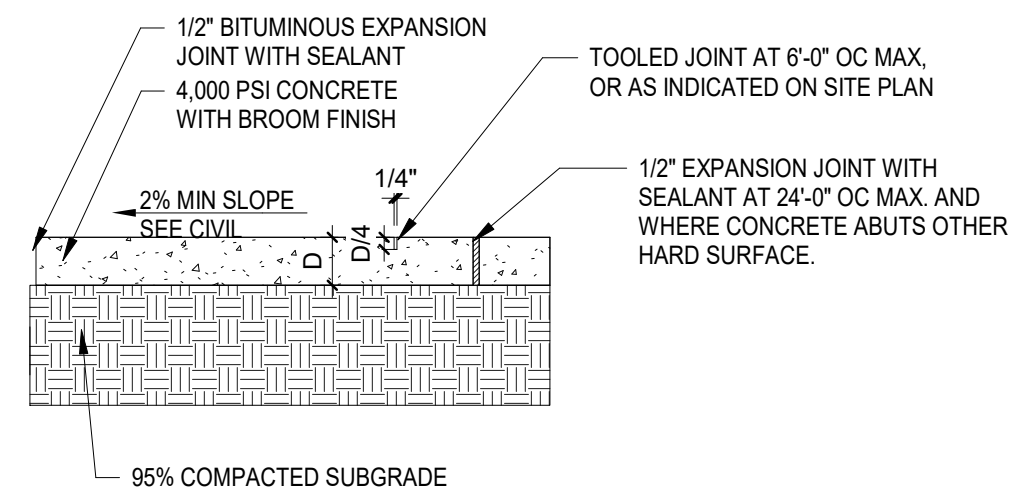
A2 RIP RAP RUNDOWN DETAIL
 SCALE: NOT TO SCALE

A1 GRADING AND DRAINAGE PLAN
 SCALE: 1"=20'-0"



T:\Clients\BET_ARCH\Mark Armijo Charter School\CADD\SHEETS\C-101_GRADING AND DRAINAGE PLAN EARTH WORK ONLY_9-14-2020.dwg, C-101_5 & D Plan, 11/17/2020 13:55:35 PM

Mark Armijo Academy - Master Plan



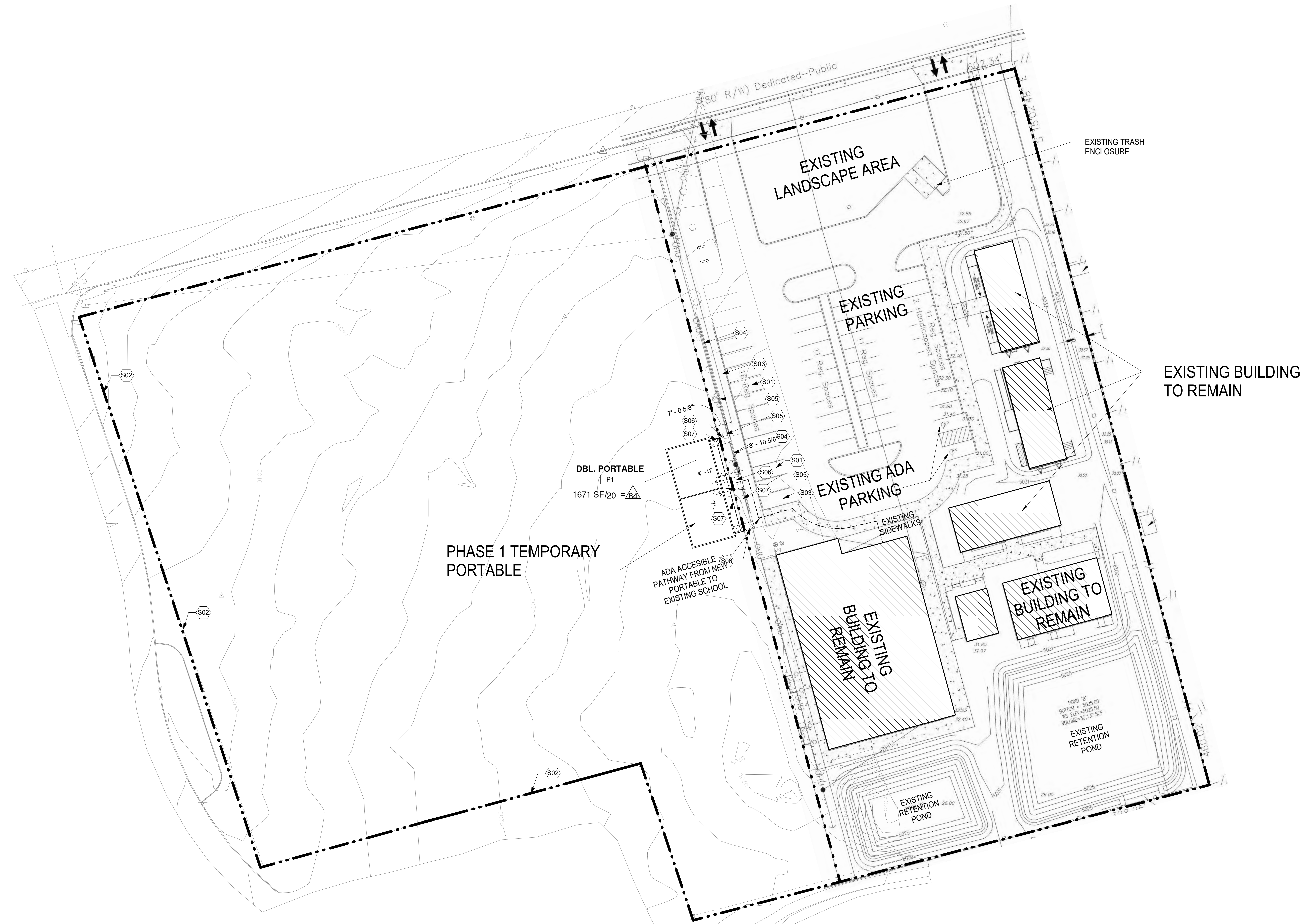
- NOTES:
- SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
 - SEE SITE PLAN FOR CONCRETE JOINT PATTERN.
 - VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.
 - HEAVY DUTY CONCRETE SHALL BE 6" THICK WITH 6X6X10 GA. WELDED WIRE FABRIC IN CENTER OF SLAB.
 - STANDARD DUTY CONCRETE SHALL BE 4" THICK.
 - TURN DOWN EDGE AT ALL EXPOSED EDGES OF CONCRETE PAVEMENT. SEE DETAIL E1 THIS SHEET.

GROSS FLOOR CHANGE CALCULATIONS		
GROSS BUILDING AREA	15,358 SF	
CAFETERIA	3,324 SF	
2,268 SF / 15 NET = 151 OCC.		
REQUIREMENTS (BASED ON 151 OCC)		
PARKINGS SPACES	1 SPACE FOR EA. 4 SEATS IN CAFETERIA	38
CREDITS	10% FOR PUBLIC BUS STOP NEARBY	
	38 * .1 = 4	34
ADA SPACES REQUIRED	(FOR 26 TO 35 PARKING SPACES)	2
ADA VAN SPACES	(1 FOR EA. OF 2 ADA SPACES)	1
BICYCLE SPACES	(1 SPACE FOR EA. 50 STUDENTS)	4
MOTORCYCLE SPACES	(FOR 26 TO 50 PARKING SPACES)	2
PROVIDED		
TOTAL SPACES		51
ADA SPACES PROVIDED		2
ADA VAN SPACES		1
BICYCLE RACK PROVIDED (CONTRACTOR TO ENSURE)		4
MOTORCYCLE SPACES PROVIDED		2

- | GENERAL NOTES | |
|---------------|--|
| A. | SUB GRADE PREPERATION AND SOIL COMPACTION AT ALL CONCRETE WORK SHALL COMPLY WITH REQUIREMENTS ON CIVIL DRAWINGS AND GEOTECHNICAL REPORT. |
| B. | PROVIDE BROOM FINISH ON CONCRETE SIDEWALKS, UNLESS NOTED OTHERWISE. |
| C. | VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS. |
| D. | FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET, CIVIL UTILITY PLANS, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. |
| E. | CONTRACTOR SHALL PAY FOR AND COORDINATE WITH LOCAL UTILITY COMPANIES FOR ALL UTILITY DISCONNECT, RECONNECT AND DEMO WORK. |
| F. | PATCH AND REPAIR ALL ASPHALT, CONCRETE, SOIL, OTHER SITE ELEMENTS AS NECESSARY AT ALL AREAS OF NEW WORK, UTILITY TRENCHING AND CONTRACTOR STAGING/PARKING. |
| G. | CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE FEATURES, PLANTINGS, AND UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING SITE FEATURES, PLANTINGS, AND UTILITIES TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. |
| H. | WHERE NEW CONCRETE PAVEMENT AND/OR CURBING IS SHOWN ADJACENT TO EXISTING, CONTRACTOR SHALL PROVIDE NEW CONCRETE PAVEMENT AND/OR CURBING UP TO AND FLUSH WITH EXISTING LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY. |
| I. | CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH THE SITE AND BUILDING ELEMENTS COORDINATE FIELD INFORMATION WITH THE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITY. |
| J. | ALL IRRIGATION SYSTEMS SHALL REMAIN ACTIVE THROUGH THE DURATION OF THE CONSTRUCTION PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALTERNATE IRRIGATION METHODS AS REQUIRED FOR THE CAMPUS AND FIELDS DURING ANY REQUIRED OUTAGES FOR NEW WORK. |
| K. | CONTRACTOR TO FIELD VERIFY ANY MODIFICATIONS WILL NOT COMPROMISE IRRIGATION SYSTEM ON ANY OTHER PORTION OF THE CAMPUS. |

KEYNOTE LEGEND	
VALUE	DESCRIPTION
S01	EXISTING ASPHALT PAVING TO REMAIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S02	EXISTING CHAIN-LINK FENCE TO REMAIN.
S03	EXISTING CONCRETE SIDEWALK TO REMAIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S04	EXISTING OVERHEAD UTILITY LINE. SEE SURVEY. SEE ELECTRICAL.
S05	EXISTING TREES AND LANDSCAPING TO REMAIN. PROTECT. DAMAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
S06	NEW CONCRETE PAVED SIDEWALK SEE DETAIL D1AS-101.
S07	NEW ADA RAMP AND LANDING BY BUILDING MANUFACTURER.

2 Concrete Pavement
3/4" = 1'-0"



A1 OVERALL SITE PLAN
1" = 30'-0"

CONSULTANTS

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Walla Engineering
6501 Americas Parkway, Ste 301
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Mark Armijo Academy - Site Development Plan

CONSTRUCTION DOCUMENTS

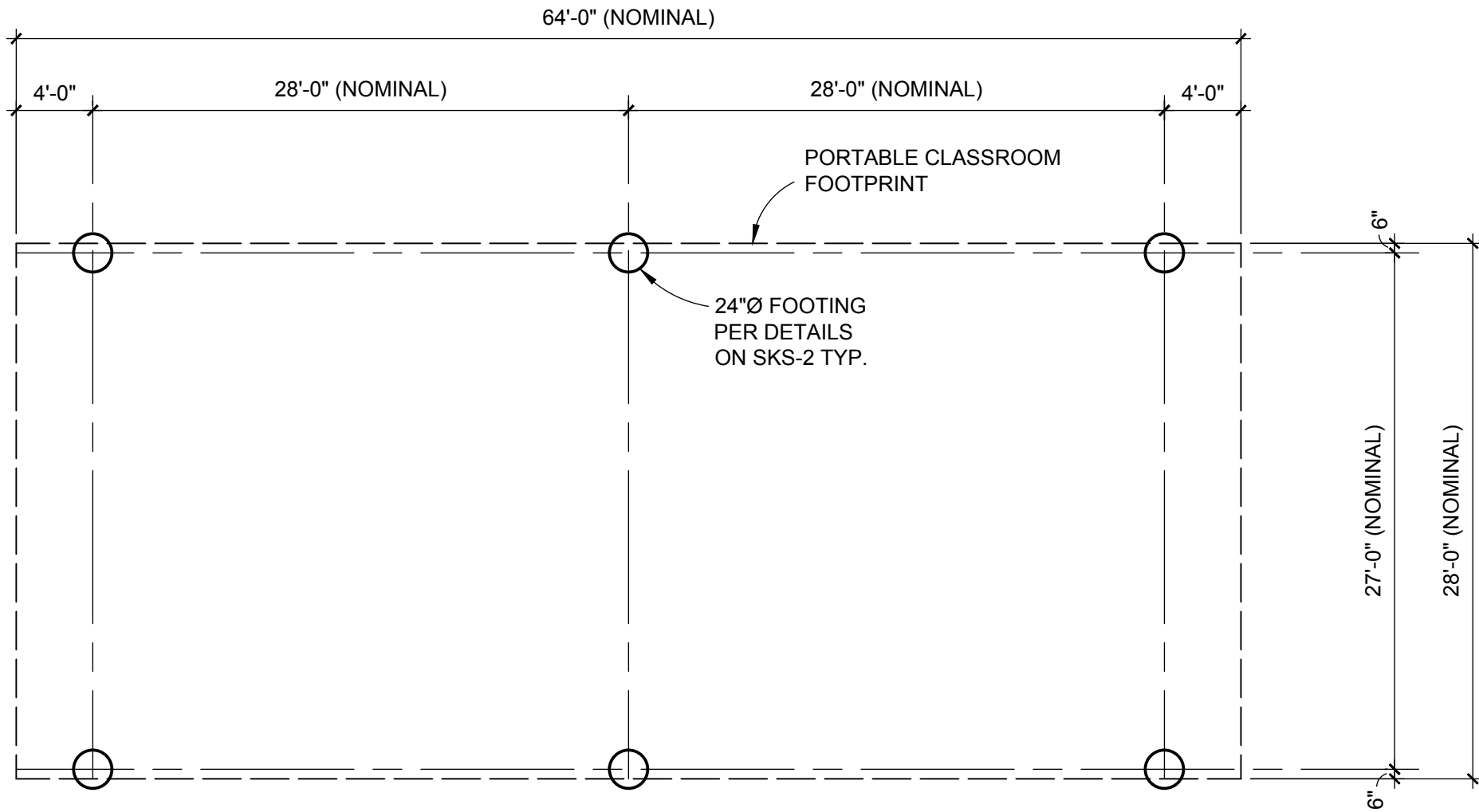
6800 Gonzales Rd SW
Albuquerque, NM 87121

JUNE 2021

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	JUNE 2021
PROJECT NO:	Project Number
DRAWN BY:	A.A
CHECKED BY:	JTT

SHEET TITLE
OVERALL SITE PLAN

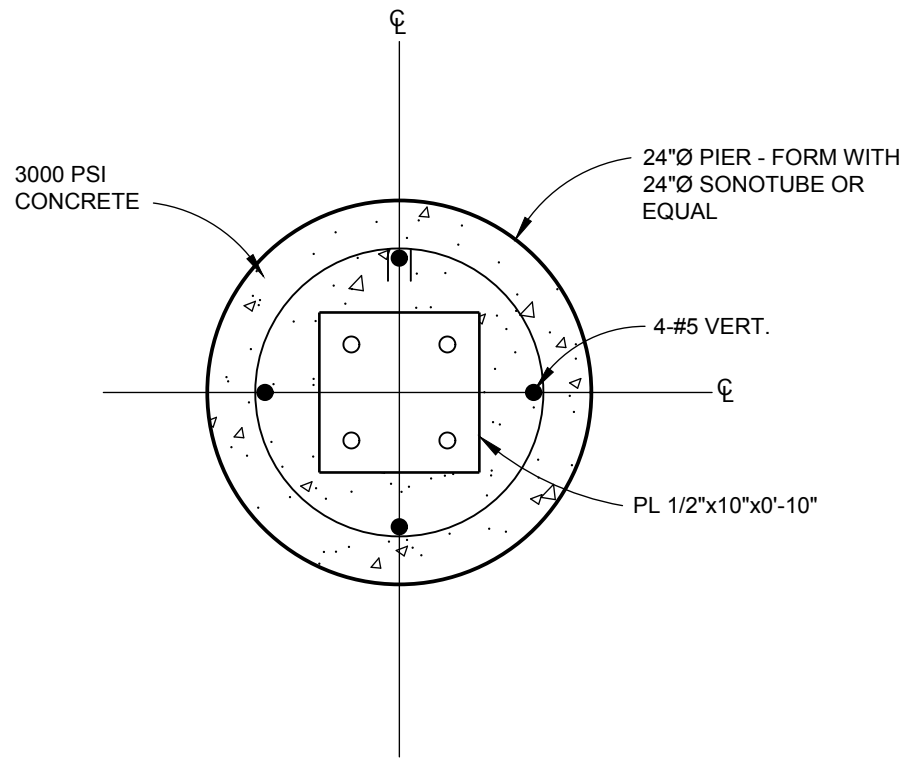


DOUBLE PORTABLE CLASSROOM FOUNDATION PLAN

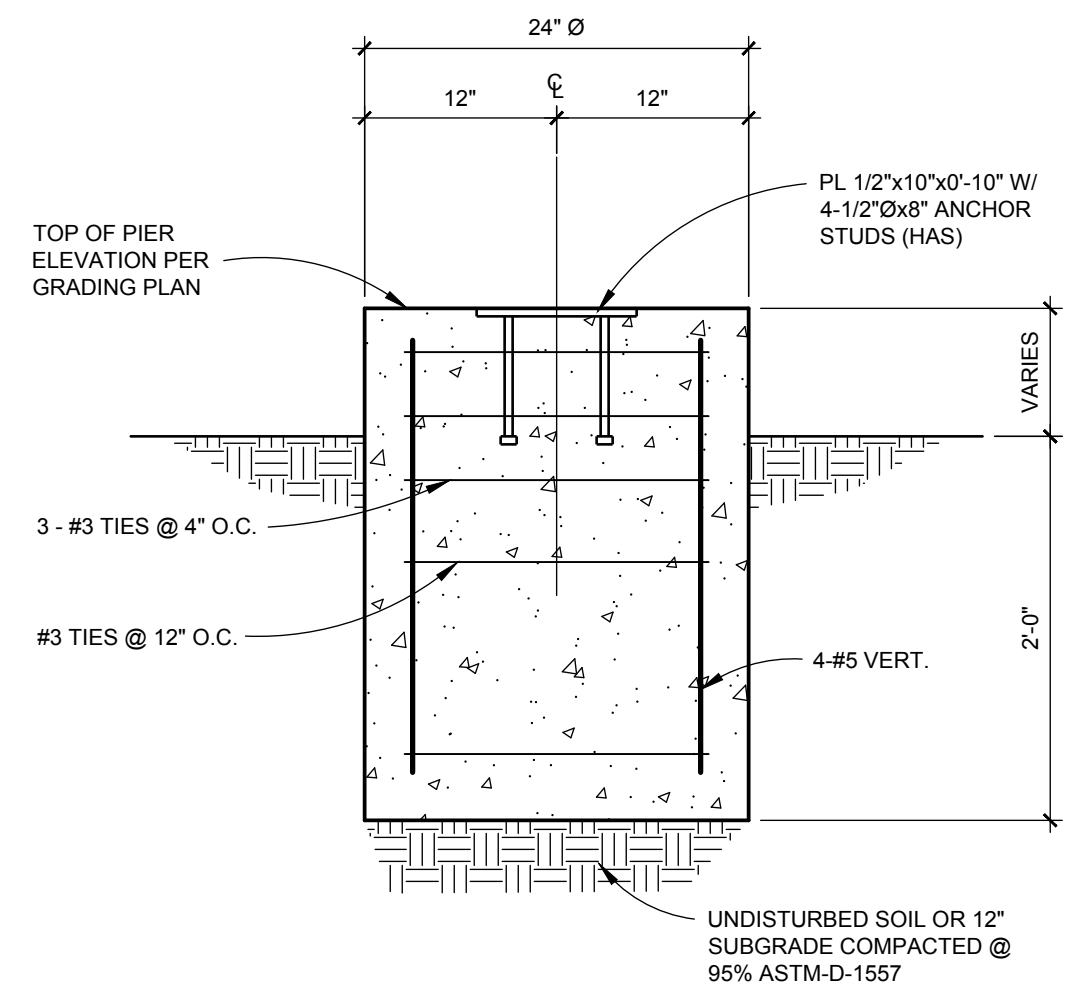
1/8" = 1'-0"



SHEET NO. SKS-1 OF 2
 JOB MARK ARMILJO ACADEMY
 SUBJECT PORTABLE CLASSROOM FOUNDATION
 CLIENT FBI JOB NO. F01-1620
 BY LEK DATE 12-31-2020
 CHECKED BY MJW DATE 12-31-2020



PLAN



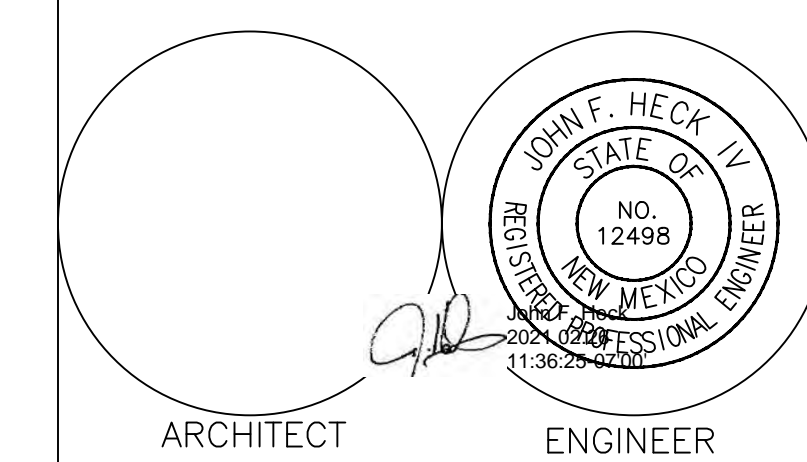
SECTION

FOOTING DETAILS

SCALE: 1"=1'-0"



SHEET NO.	SKS-2	OF	2
JOB	MARK ARMIJO ACADEMY		
SUBJECT	PORTABLE CLASSROOM FOUNDATION		
CLIENT	FBT	JOB NO.	F01-1620
BY	LEK	DATE	12-31-2020
CHECKED BY	MJW	DATE	12-31-2020



Mark Armijo Academy - Master Plan

100% CD
 6800 Gonzales Rd SW
 Albuquerque, NM 87121

FEBRUARY 2021

MARK	DATE	DESCRIPTION

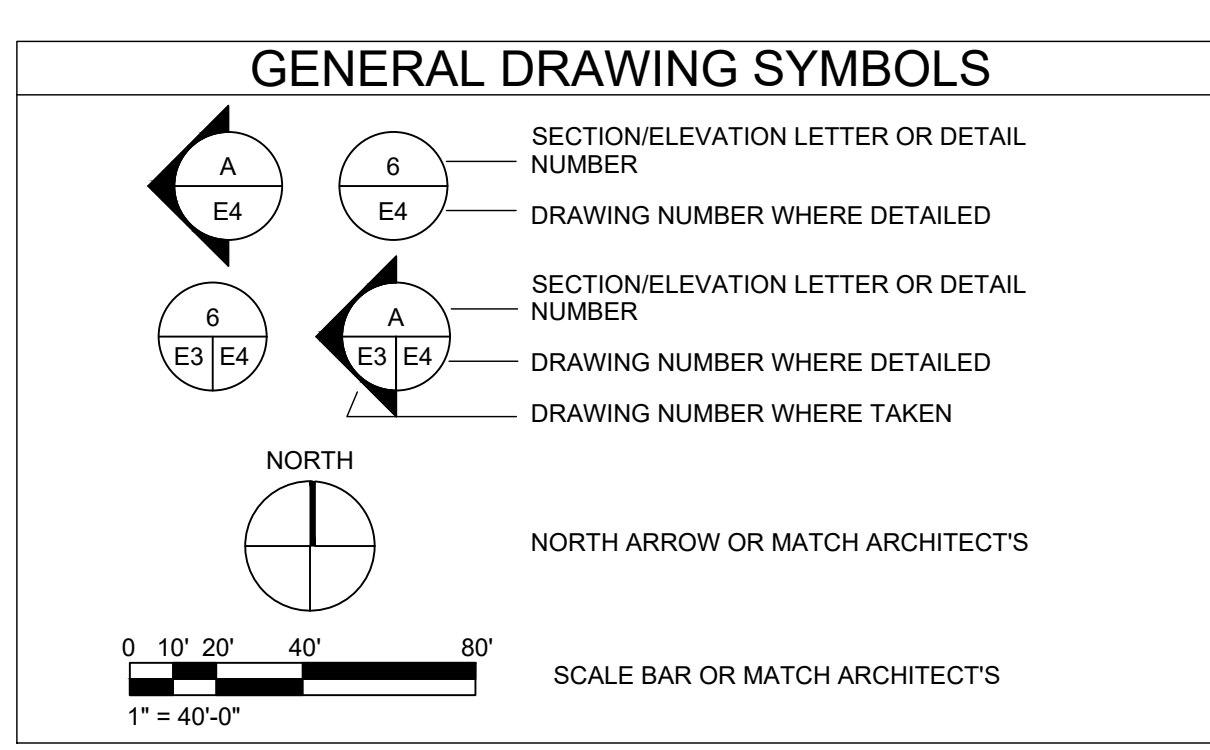
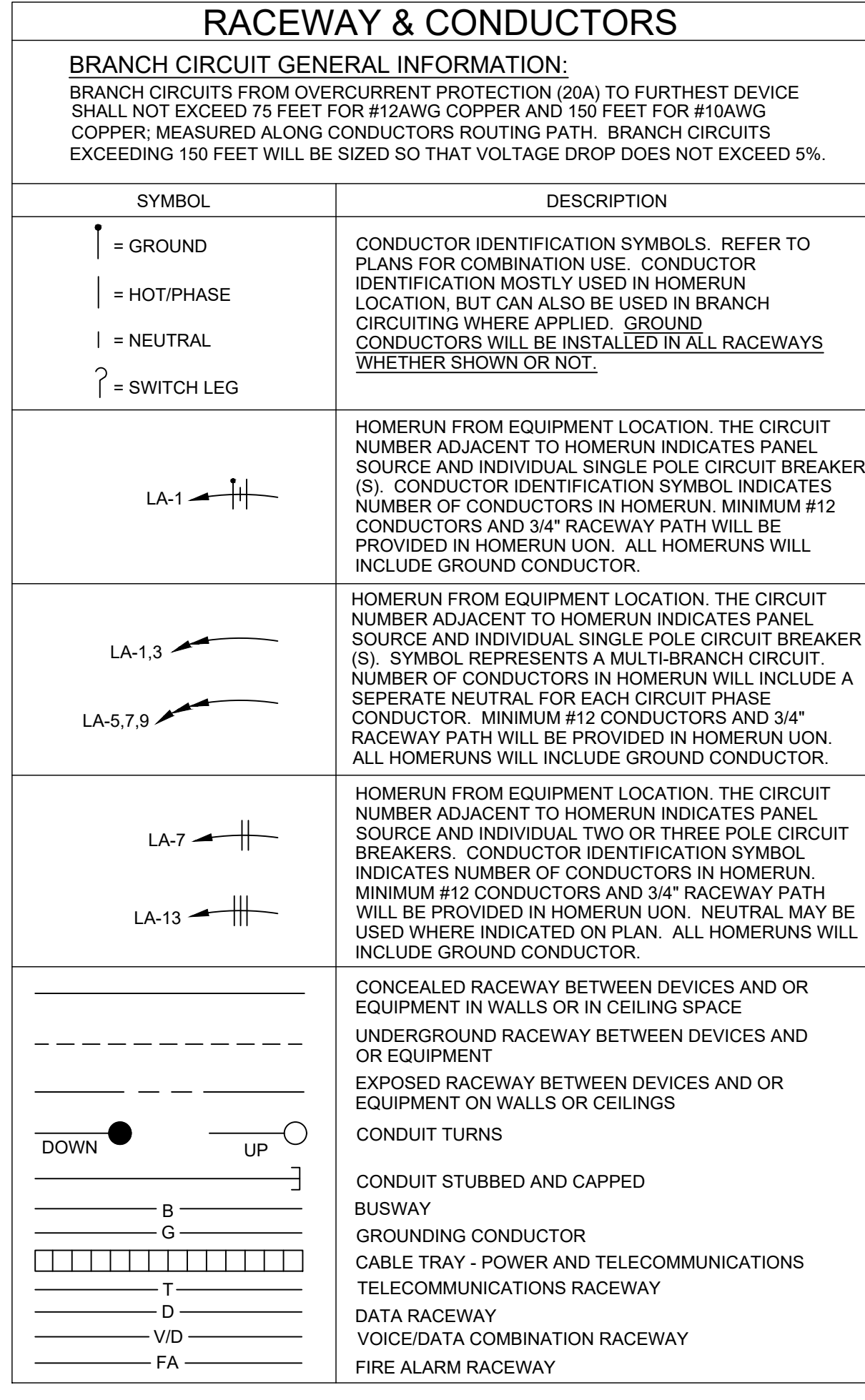
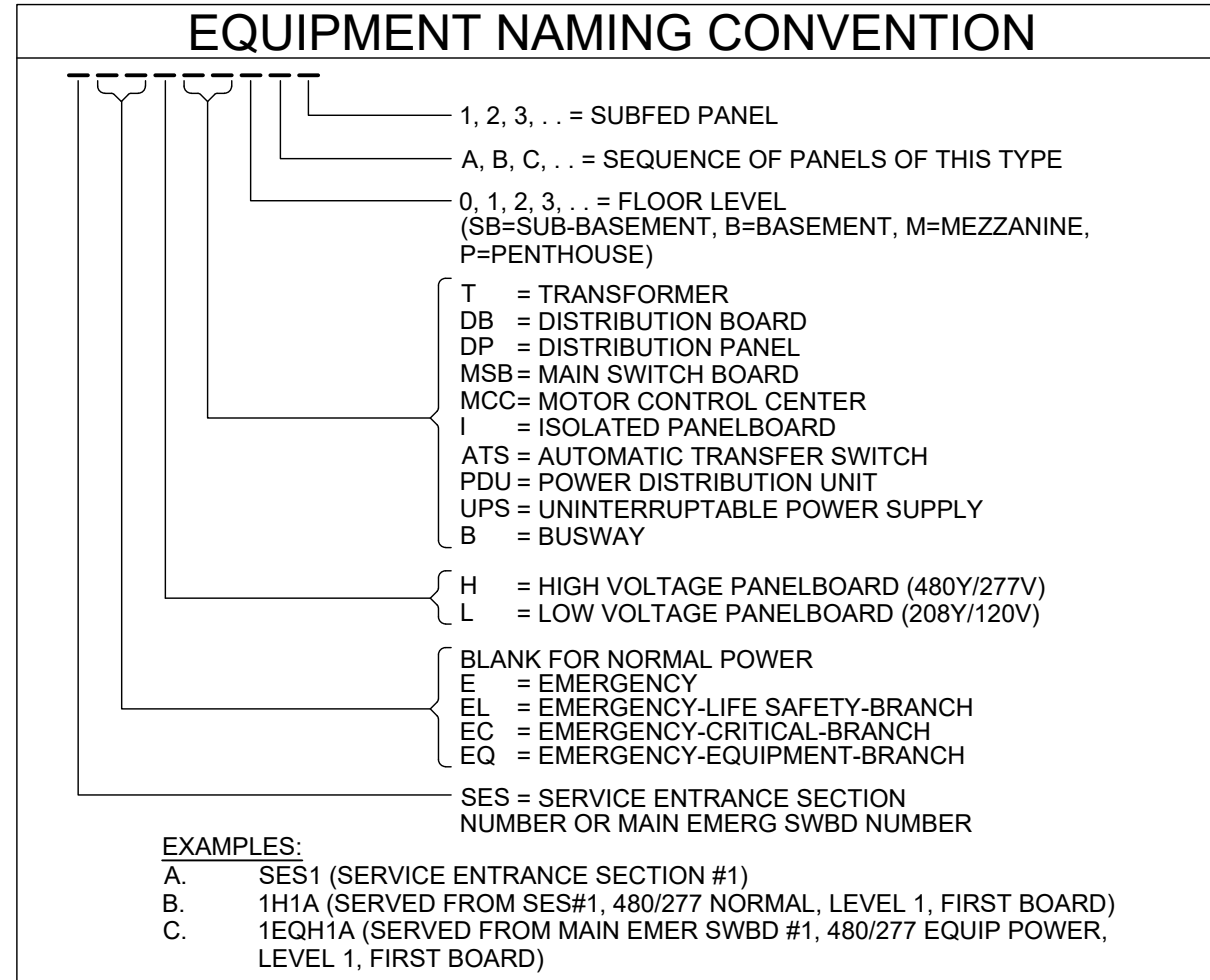
ISSUE:
 DATE:
 PROJECT NO: Project Number
 CAD DWG FILE:
 DRAWN BY:
 CHECKED BY:

SHEET TITLE
ELECTRICAL LEGEND
 E-001

ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS APPLY TO THIS PROJECT)

UPDATED: 09/07/2016

ABBREVIATION	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CIRCUIT BREAKER
CB	CLOSED CIRCUIT TELEVISION
CCTV	CIRCUIT
CL	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND
HOA	HAND-OFF, AUTOMATIC
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERS REACTIVE
KWH	KILOWATT HOUR
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND SHORT FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPERS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NM	NORMAL
NO	NORMALLY OPEN
O/H	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP.	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFR	TRANSFER
XFMR (TRANSF)	TRANSFORMER



DEMOLITION

SYMBOL	DESCRIPTION	NOTES
⊖	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
R	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	
⊖	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
EX	EXISTING CONDUIT TO BE REUSED	

DEVICES

DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES):
 BLANK FOR NORMAL POWER
 G = GFCI RATED
 IG = ISOLATED GROUND
 T = TAMPERPROOF
 WG = WEATHERPROOF AND GFCI
 WP = WEATHERPROOF (IN-USE COVER)
 CL = CLOCK
 TV = TELEVISION

SYMBOL	DESCRIPTION	LOC.	MOUNTING HT.
⊖	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
⊖	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
⊖	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
⊖	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
⊖	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.	FLOOR	VARIES
⊖	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING	VARIES
⊖	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	CEILING	VARIES
⊖	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE	CEILING	FLUSH
⊖	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	CEILING	FLUSH
⊖	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS	CEILING	FLUSH
⊖	SIMPLEX RECEPTACLE	WALL	+18" UON
⊖	DUPLEX RECEPTACLE	WALL	+18" UON
⊖	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	WALL	+18" UON
⊖	EMERGENCY DUPLEX RECEPTACLE	WALL	+18" UON
⊖	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	WALL	+18" UON
⊖	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS	WALL	+18" UON
⊖	MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIES	VARIES
⊖	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS	VARIES	VARIES
⊖	WALL MOUNTED CODE SIZE J-BOX	WALL	+44" UON
⊖	CODE SIZE JUNCTION BOX	VARIES	VARIES
⊖	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)	VARIES	VARIES
⊖	FUSHBUTTON (EMERGENCY POWER OFF - EPO)	WALL	+44" UON
⊖	PHOTOCELL	ROOF	VARIES
⊖	LIGHTNING PROTECTION AIR TERMINAL	WALL	+44" UON
⊖	THERMOSTAT	WALL	+44" UON
⊖	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
⊖	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
⊖	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
⊖	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING. SINGLE SPEED UON	VARIES	VARIES
⊖	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
⊖	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER	N/A	N/A
⊖	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER	N/A	N/A

EQUIPMENT

SYMBOL	DESCRIPTION
MSB	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES.
DB	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEARANCES.
H1A	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
L1A	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
MCC	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
T1A	DRY TYPE TRANSFORMER (15KVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
T	DRY TYPE TRANSFORMER (LESS THAN 15KVA), WITH NO EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
VFD	VARIABLE FREQUENCY DRIVE
UPS-A	UNINTERRUPTIBLE POWER SUPPLY. DASHED LINES INDICATE CLEARANCES.
ATS-1	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES.
G	GROUND BAR

LIGHTING

REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.

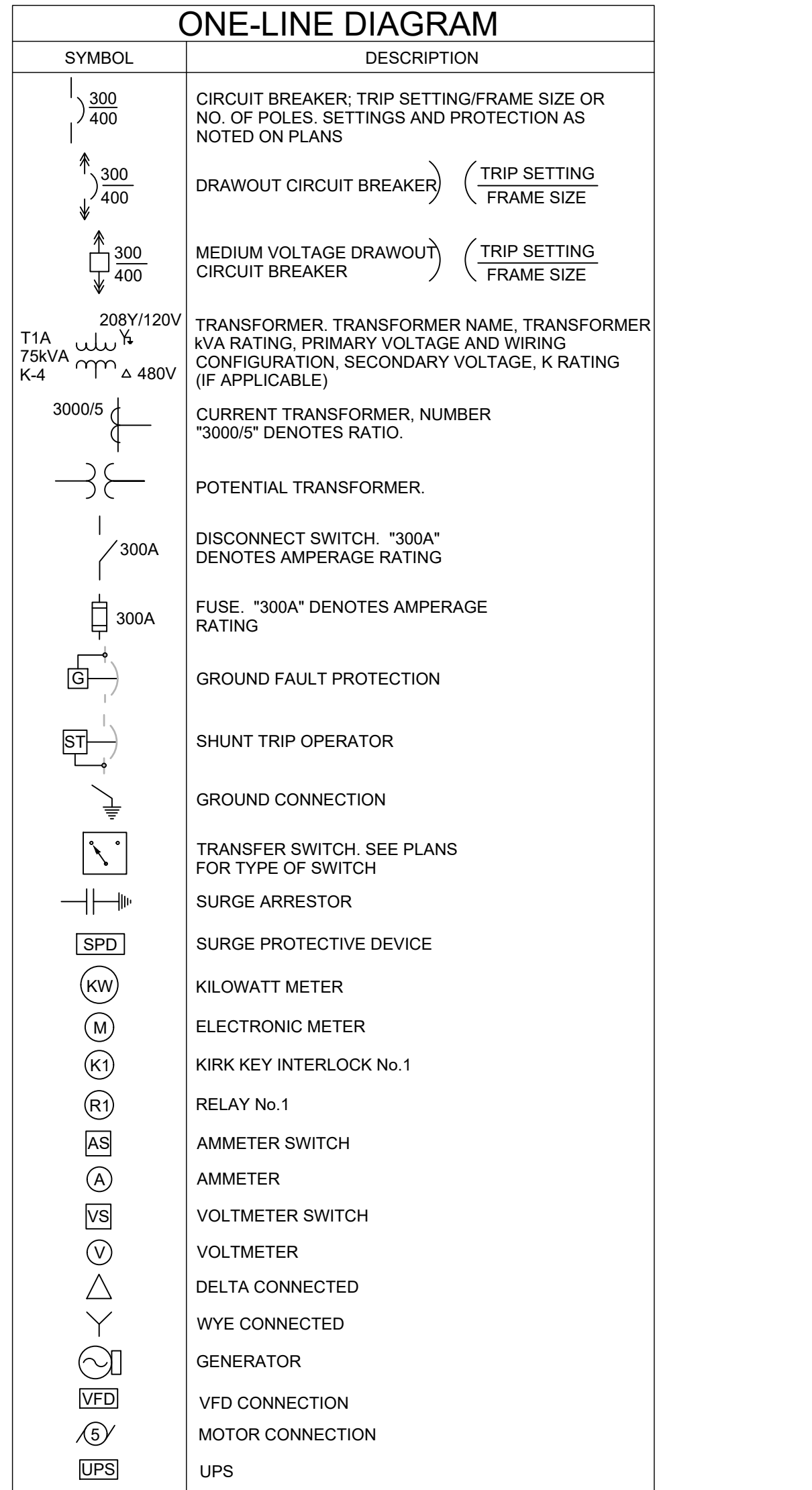
SYMBOL	DESCRIPTION	LOC.	MOUNTING HT.
⊖	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE ADDED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIES	VARIES
⊖	RECESSED MOUNTED LUMINAIRE. SMALL CASE "A" DENOTES SWITCHING, NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE	CEILING	VARIES
⊖	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS	CEILING	VARIES
⊖	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED	CEILING	VARIES
⊖	DOWN LIGHT LUMINAIRE. CEILING MOUNTED	CEILING	VARIES
⊖	WALL MOUNTED LUMINAIRE	WALL	VARIES
⊖	TRACK MOUNTED LUMINAIRE	SURFACE	VARIES
⊖	STRIP LUMINAIRE	SURFACE	VARIES
⊖	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS	WALL	VARIES
⊖	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS	WALL	VARIES
⊖	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)	WALL	VARIES
⊖	SINGLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
⊖	DOUBLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
⊖	DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL 2 = DOUBLE POLE TOGGLE SWITCH 3 = THREE-WAY TOGGLE SWITCH 4 = FOUR-WAY TOGGLE SWITCH P = PILOT LIGHT TOGGLE SWITCH M = MOMENTARY CONTACT SWITCH K = KEY OPERATED SWITCH WP = WEATHERPROOF TOGGLE SWITCH T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION D = DIMMER SWITCH TW = TWIST TIMER SWITCH	WALL	+44" UON
⊖	WALL MOUNTED OCCUPANCY SENSOR. TYPE AS INDICATED ON PLANS	WALL	VARIES
⊖	CEILING MOUNTED OCCUPANCY SENSOR. TYPE AS INDICATED ON PLANS	CEILING	VARIES
⊖	DAY-LIGHTING SENSOR. TYPE AS INDICATED ON PLANS	CEILING	SURFACE
⊖	ROOM CONTROLLER. TYPE AS INDICATED ON PLANS	WALL	VARIES

UTILITIES

SYMBOL	DESCRIPTION
⊖	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
X	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. (3PH = THREE PHASE 1PH = SINGLE PHASE P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL N = NEW EX = EXISTING
⊖	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
UT	UTILITY OR FACILITY TRANSFORMER
S	PAD MOUNTED SWITCH
CC	CONNECTION CABINET (UTILITY METER MOUNT)
PM	PRIMARY SITE METER ENCLOSURE
ME	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
CT	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
MH	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
HH	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
EG	ENGINE GENERATOR
TP	TELECOMMUNICATION PEDESTAL
TVR	TELEVISION PEDESTAL

FIRE ALARM

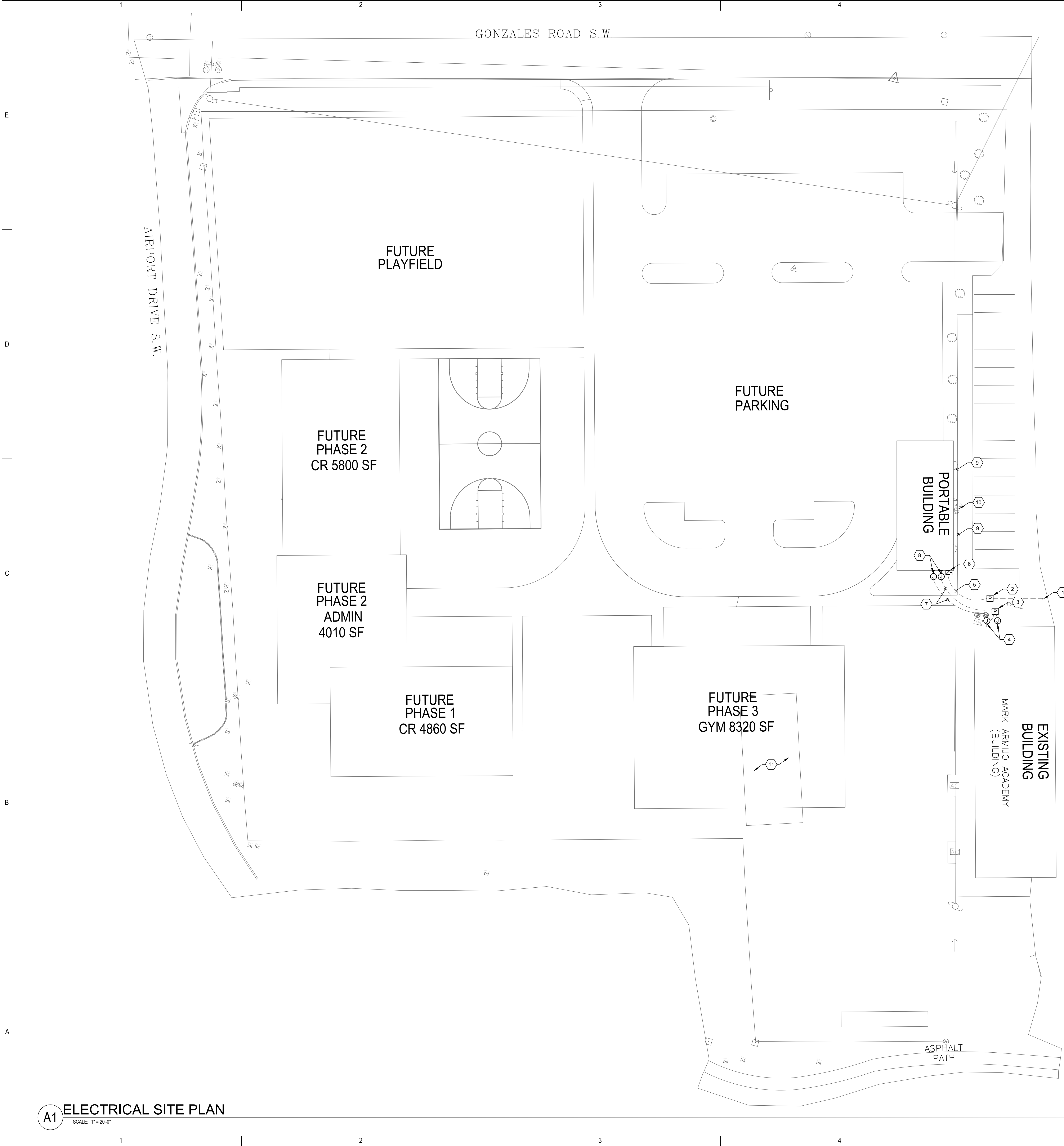
SYMBOL	DESCRIPTION	LOC.	MOUNTING HT.
FACP	FIRE ALARM CONTROL PANEL	WALL	VARIES
FATC	FIRE ALARM TERMINAL CABINET (EQUIP. NAMING CONVENTION PER PLANS)	WALL	VARIES
FAA	FIRE ALARM ANNUNCIATOR PANEL	WALL	VARIES
F	PULL STATION	WALL	+44"
F	FIREMAN'S TELEPHONE OUTLET	WALL	+44"
F	HORN NOTIFICATION	WALL	+80" UON
F	SPEAKER NOTIFICATION	WALL	+80" UON
F	CHIME NOTIFICATION	WALL	+80" UON
F	COMBINATION SPEAKER AND CHIME NOTIFICATION	WALL	+80" UON
F	SPEAKER/HORN WITH STROBE LIGHT	WALL	+80" UON
F	STROBE LIGHT ONLY	WALL	+80" UON
F	BELL (GONG)	WALL	+80" UON
F	PHOTOELECTRIC SMOKE DETECTOR	CEILING	VARIES
F	IONIZATION SMOKE DETECTOR	CEILING	VARIES
F	COMBINATION RATE OF RISE / FIXED TEMPERATURE	CEILING	VARIES
F	FIXED TEMPERATURE, TEMPERATURE AS NOTED ON PLANS OR SPECS.	CEILING	VARIES
F	RATE OF RISE ONLY	CEILING	VARIES
F	BEAM TRANSMITTER	CEILING	VARIES
F	BEAM RECEIVER	CEILING OR WALL	VARIES
F	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
F	DUCT DETECTOR	AT DUCT	SEE PLANS
F	FIRE/SMOKE DAMPER	AT DUCT	SEE PLANS
F	PRESSURE SWITCH	PIPE	VARIES
F	TAMPER SWITCH	PIPE	VARIES
F	FLOW SWITCH	PIPE	VARIES
F	POST INDICATOR VALVE	PIPE	VARIES
F	MAGNETIC DOOR HOLDER	VARIES	SEE PLANS
F	CONTROL RELAY	VARIES	SEE PLANS
F	MONITOR MODULE	VARIES	SEE PLANS
F	REMOTE ALARM INDICATING LIGHT	VARIES	SEE PLANS
F	ADDRESSABLE/SUPERVISED RELAY	VARIES	SEE PLANS



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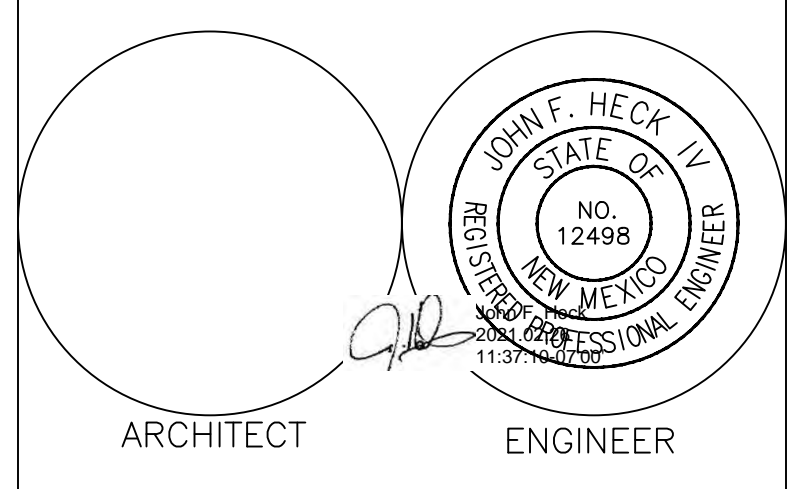


GENERAL NOTES:

1. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.
3. CONTRACTOR WILL REFER TO SHEET SERIES "C" FOR OTHER NEW AND EXISTING UTILITIES. MUST COORDINATE INSTALLATION OF ALL UTILITIES SHOWN ON THIS SHEET PRIOR TO COMMENCEMENT OF ANY WORK.

KEYED NOTES:

1. EXISTING UNDERGROUND 2" CONDUIT FROM UNDER PARKING AREA CONDUIT ENDS ARE BURIED AND EXTEND UNDER LENGTH OF PARKING AREA FROM EAST TO WEST. COORDINATE EXACT LOCATION OF CONDUIT ENDS WITH SCHOOL REPRESENTATIVE. PROVIDE AN IN-GROUND PULL BOX AT EACH END OF CONDUIT. ON EAST END EXTEND UNDERGROUND CONDUIT FROM PULL BOX TO MAIN DISTRIBUTION PANEL. REFER TO SHEET E601 FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW CODE SIZED, PRECAST CONCRETE IN-GROUND PULL BOX FOR EXTENSION OF EXISTING UNDERGROUND 2" CONDUIT TO NEW PORTABLE.
3. PROVIDE NEW CODE SIZED, PRECAST CONCRETE IN-GROUND PULL BOX FOR EXTENSION OF DATA AND FIRE ALARM CONNECTION FROM MAIN BUILDING VIA EXISTING WALL MOUNTED JUNCTION BOXES LOCATED ON MAIN BUILDING.
4. EXISTING BUILDING MOUNTED JUNCTION BOXES FOR DATA AND FIRE ALARM CONNECTION FROM MAIN BUILDING. EXTEND CONDUIT AND WIRE FROM RESPECTIVE SOURCES IN MAIN BUILDING, ABOVE LAY-IN TILE CEILING SPACE, TO JUNCTION BOXES INDICATED AND DOWN TO IN-GROUND PULL BOX.
5. PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM IN-GROUND PULL BOX TO NEW PORTABLE ALONG WITH (3) #1 COPPER CONDUCTORS AND A #6 GND AS A SINGLE CONTINUOUS RUN FROM MAIN DISTRIBUTION PANEL.
6. REMOVE EXISTING DISCONNECT SWITCH AND REPLACE WITH NEW. REFER TO SHEET E601 FOR ADDITIONAL INFORMATION.
7. PROVIDE UNDERGROUND 1" CONDUIT AND CONDUCTORS FOR DATA AND FIRE ALARM CONNECTION TO PORTABLE FROM EXISTING CONNECTIONS IN MAIN BUILDING VIA IN-GROUND PULL BOX.
8. PROVIDE NEW WEATHERPROOF, WALL MOUNTED JUNCTION BOXES FOR DATA AND FIRE ALARM CONNECTION TO PORTABLE.
9. OVERHEAD PNM POWER LINES. MAINTAIN A MINIMUM OF 5'-0" FROM EDGE OF PORTABLE ROOF TO OVERHEAD LINES.
10. EXISTING PNM POWER POLE. MAINTAIN A MINIMUM OF 10'-0" FROM POWER POLE FOR PNM ACCESS.
11. EXISTING LOCATION OF PORTABLE. DOES NOT PRESENTLY HAVE ANY UTILITY SERVICES.



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FEBRUARY 2021

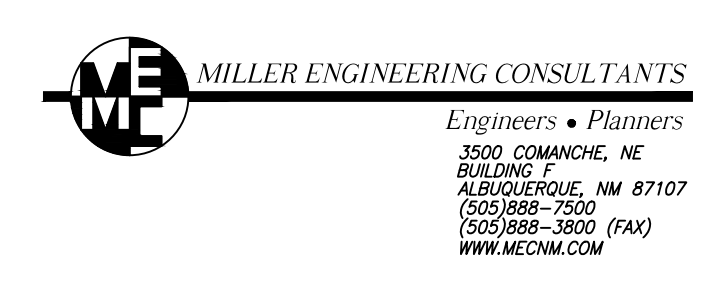
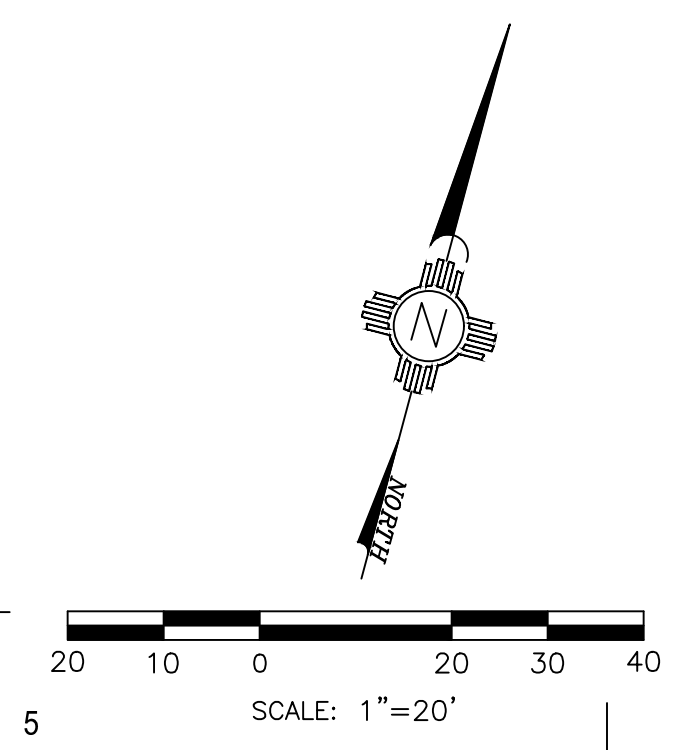
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PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	
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SHEET TITLE
ELECTRICAL SITE PLAN

ES101

A1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



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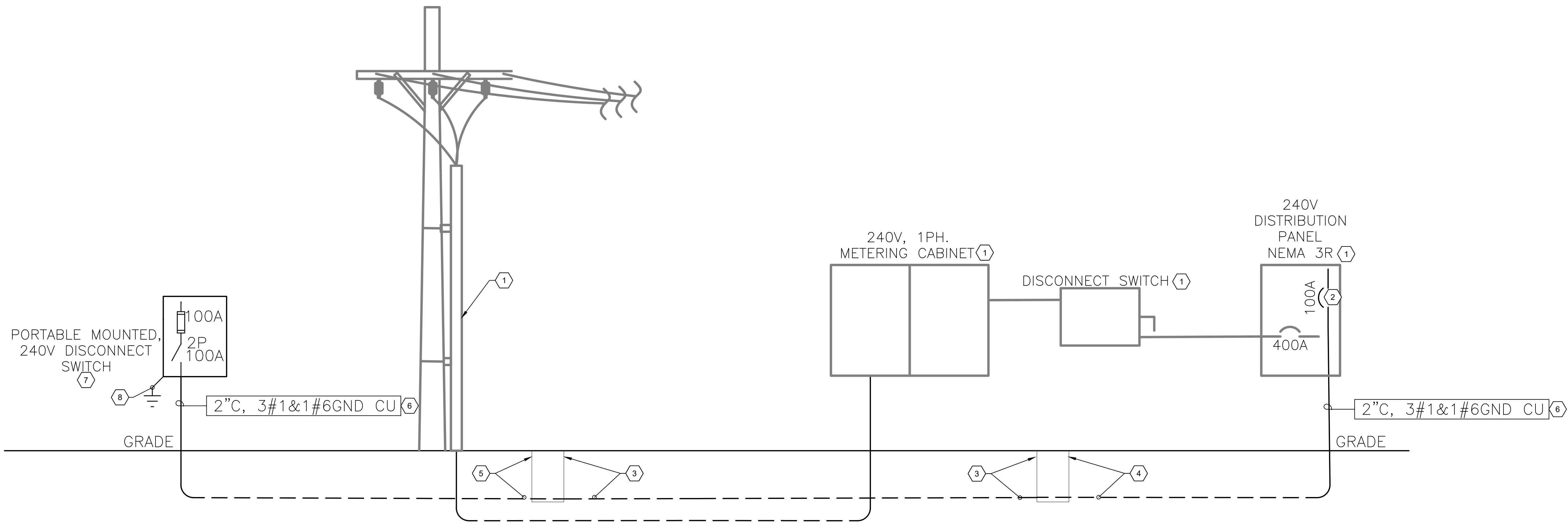
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GENERAL NOTES:

- SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.

KEYED NOTES:

- EXISTING EQUIPMENT WILL REMAIN AS PRESENTLY INSTALLED.
- PROVIDE NEW 2 POLE, 240V CIRCUIT BREAKER, SIZE AS INDICATED, CIRCUIT BREAKER TO MATCH PANEL AIC RATING AND FAMILY OF CIRCUIT BREAKERS PRESENTLY INSTALLED.
- EXISTING UNDERGROUND 2" CONDUIT UNDER PARKING AREA, INTERCEPT AND EXTEND TO NEW IN-GROUND PULL BOX.
- PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM PULL BOX TO EXISTING MAIN DISTRIBUTION PANEL.
- PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM PULL BOX TO NEW PORTABLE DISCONNECT SWITCH.
- PROVIDE CONDUCTORS, SIZE AS INDICATED, AS A SINGLE CONTINUOUS RUN FROM PORTABLE DISCONNECT SWITCH, THROUGH IN-GROUND PULL BOXES, TO EXISTING MAIN DISTRIBUTION PANEL.
- PORTABLE MOUNTED DISCONNECT SWITCH, PROVIDE 250V RATED, 100A, NEMA 3R, KNIFE BLADE, FUSED DISCONNECT. RECONNECT EXISTING CONDUCTORS PRESENTLY INSTALLED FROM EXISTING PANEL IN PORTABLE TO SECONDARY SIDE OF DISCONNECT.
- PROVIDE A GROUND ROD ELECTRODE SYSTEM PER NEC 250. DO NOT BOND GROUND AND NEUTRAL CONDUCTORS.



C1 ELECTRICAL DIAGRAMS
 SCALE: 1" = 20'-0"

Elec. Service Calc. - M.A Academy Portable Load						
Description of Load	Sq. Ft.	Connected Load KVA	Demand % Multiplier	Demand Load KVA	Service % Multiplier	Service Load KVA
Portable	1,200	12	100%	12	100%	15
Subtotal of loads KVA		12		12		15
		Total Service load KVA				15
		Voltage of Service (240-1PH)				0.240
		Total Service Ampacity				63
1,200 Sq. Ft.		10.00 watts/sq.ft. Portable =				12,000 VA
NOTES						

A1 PORTABLE SERVICE CALCULATION

Maximum voltage drop for a Branch Circuit shall be less than 3% (NEC 210.19 A, FPN 4).
 Maximum voltage drop for a Feeder shall be less than 3% (NEC 215.2, FPN 2).
 Maximum combined voltage drop for a Feeder and Breaker shall be less than 5%.
 Source: 2017 NEC

Run	Feeder or Branch Circuit Run:	Type of Circuit	Voltage	Phase	Conductor Material	Length (ft)	Size	Load Current (Amps)	Qty Parallel Runs	Load on Feeder	Resistance	Voltage Drop	% Voltage Drop Feeder	% Voltage Drop Branch
1	MDP TO PORTABLE DISCONNECT	Feeder	240	1	C	150	1	100	1	100	0.154	4.62	1.93%	

B3 VOLTAGE DROP CALCULATION

KNOWN FAULT INFORMATION				SECOND TRANSFORMER IN SYSTEM (DRY-TYPE)				FEEDER/BRANCH CIRCUIT CALCULATION						RESULT					
Fault Point	Equipment	Source of Fault	Available Fault Current	XFMR Size (kVA)	Secondary Voltage:	Xmtr Impedance (Ohms):	Xmtr Impedance (user input):	"f" factor	"M" factor	Conductor Type	Conductor Size	3 single conductors?	Conduit Type	Number of sets	Length to fault	"C" value	"f" factor	"M" factor	Available Short Circuit Current at Fault:
F1	MDP	PNM POLE	65000	240	1					C	600	Y	S	1	150	22965	3.538	0.220	14324
F2	PORTABLE DISCONNECT	MDP	14324	240	1					C	1	Y	S	1	150	7293	2.455	0.289	4146

A3 FAULT CURRENT CALCULATION

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 Albuquerque, NM 87121

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SHEET TITLE
ELECTRICAL DIAGRAMS

E-601