BUILDING "D" EXPANSION

for LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL

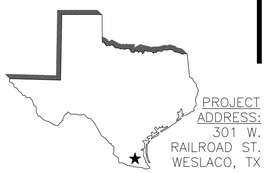
WELSACO, TEXAS

ABBREVIATIONS

THIS IS A GENERAL LIST. ALL ABBREVIATIONS MAY NOT APPLY.

A	
@	AT
A, AMP	AMPERES
AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
ACOU	ACOUSTICAL
ADJ.	ADJUSTABLE
ADMIN	ADMINISTRATIVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
∠	ANGLE
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
ARCH, ARCHL	ARCHITECTURAL
ASS'Y	ASSEMBLY
AUX	AUXILIARY
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL
B	
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
B, BOTT	BOTTOM
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
C	CENTIGRADE
CAB	CABINET
CFMF	COLD-FORMED METAL FRAMING
CH	COAT HOOK
CHBD	CHALK BOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL, ℄	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONNX	CONNECTION
CONST.	CONSTRUCTION
CONT	CONTINUOUS
CRDR	CORRIDOR
CRS	COURSE
CT	CERAMIC TILE
CTK	CURTAIN TRACK
CU	CUBIC
CUST	CUSTODIAN
CWFP	CEMENTITIOUS WOOD FIBER PLANK
D	
DBL	DOUBLE
DEF	DEFORMED
DIA, ø	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWLS	DOWELS
DWR	DRAWER
E	
E, ELEC	ELECTRICAL
EA	EACH
EF	EXHAUST FLUE
EGSB	EXTERIOR GYPSUM SOFFIT BOARD
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EL., ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXGR	EXISTING GRADE
EXH	EXHAUST
EXIST, EXG	EXISTING
EXP	EXPANSION
EXPD	EXPOSED
EXT	EXTERIOR
F	
F	FAHRENHEIT
FA	FIRE ALARM
FC	FIRE CODE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FGD	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOLD PART	FOLDING PARTITION
FRP	FIBER REINFORCED PLASTIC
FR-WD	FIRE-RETARDANT TREATED WOOD
FS	FOOT SCRAPER
FT	FEET
Fy	YIELD STRESS
FUR	FURRING
G	
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE
GDW, GYP.BD.	GYPSUM DRYWALL
GEN	GENERAL
GL	GLASS
GND	GROUND
GSFT	GLAZED STRUCTURAL FACING TILE
GWP	GYPSUM WALLBOARD
GYP	GYPSUM
H	
HB	HOSE BIBB
HC	HANDICAPPED, HOLLOW CORE
HCFV	HOLLOW CORE FINISH VENEER
HD	HEAD, HEADED, HEAVY DUTY
HDG	HOT-DIPPED GALVANIZED
HDWR	HARDWARE
HEWC	HANDICAP ELECTRIC WATER COOLER
HM	HOLLOW METAL
HORIZ, H	HORIZONTAL
HR, HRS	HOUR, HOURS
HT	HEIGHT
HWD	HARD WOOD
I	
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER, DIMENSION
IG	INSULATING GLASS
IN	INCH, INCHES
INC	INCANDESCENT
INCL	INCLUDING
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
L	
L	ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LG	LENGTH
LIB	LIBRARY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSD	LIQUID SOAP DISPENSER
LVR	LOUVER
LW	LIGHTWEIGHT
M	
MAS	MASONRY
MAINT	MAINTENANCE
MAX	MAXIMUM
MB	MARKER BOARD
MC	MEDICINE CABINET
MECH, MECH'L	MECHANICAL
MFR	MANUFACTURER
MGR	MANAGER
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER
MMB	MEMBRANE
MO	MASONRY OPENING
MPH	MILES PER HOUR
MTCS	MULTI-TONE COLOR SYSTEM
MTL,MET	METAL
MULL	MULLION
N	
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
OFF	OFFICE.
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
P	
PA	PUBLIC ADDRESS
PAR	PARALLEL
PCP	PORTLAND CEMENT PLASTER
PEN	PENETRATION
PERP	PERPENDICULAR
PG	PLATE GLASS
PL, ℗	PLATE
PLAS LAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT	PLASTIC
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN, PF	PREFINISHED
PNT	PAINT, PAINTED
PNTGR	PAINT GRADE
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	
QA	QUALITY ASSURANCE
QT	QUARRY TILE
R	
R	RADIUS
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCED, REINFORCEMENT
REF	REFER, REFERENCE
REP	REPRESENTATIVE
REQD	REQUIRED
RO	ROUGH OPENING
RM	ROOM
RV	ROOF VENT
S	
SB	SPLASH BLOCK
SC	SOLID CORE
SCFV	SOLID CORE FLUSH VENEER
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SEC	SECONDARY
SF	SQUARE FEET
SGFT	STRUCTURAL GLAZED FACING TILE
SGL	SINGLE
SH, SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
SJ	SAWN CONTROL JOINT
SLD	SEALED
SND	SANITARY NAPKIN DISPOSAL UNIT
SNT	SEALANT
SNV	SANITARY NAPKIN VENDOR
SPA	SPACES
SQ	SQUARE
SR	SHOWER ROD
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT,STRCT	STRUCTURE, STRUCTURAL
SUS	SUSPENDED
T	
T, TEL	TELEPHONE
T	TOP
TB	TACKBOARD
TC	TEACHER CABINET
TECH	TECHNICAL
TEMP	TEMPERATURE
TKBD	TACKBOARD
TKS	TACK STRIP
TKSF	TACK SURFACE
TLT	TOILET
TOC	TOP OF CURB
TOD	TOP OF DRAIN
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOILET PARTITION
TTD	TOILET TISSUE DISPENSER
TYP	TYPICAL
U	
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
URS	URINAL SCREEN
UTIL	UTILITY
V	
V	VOLTS
V, VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VEST	VESTIBULE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W	WATTS
W/	WITH
WB	WIND BRACE
WBBP	WIND BRACE BASEPLATE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WNDW	WINDOW
WO	WITHOUT
WOM	WOMEN
WP	WEATHERPROOF
WPG	WATERPROOFING
WR	WASTE RECEPTICLE
WRGD	WATER RESISTANT GYPSUM DRYWALL
WR-WD	WATER-RESISTIVE TREATED WOOD
WSTRIP	WEATHER-STRIP
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

LOCATION MAP



PROJECT ADDRESS:
301 W. RAILROAD ST.
WESLACO, TX

MATERIAL LEGEND

THIS IS A GENERAL LEGEND. ALL SYMBOLS MAY NOT APPLY.

- EARTH (UNDISTURBED)
- EARTH (COMPACTED)
- POROUS FILL (STONE OR GRAVEL, ETC.)
- ROCK
- STRUCTURAL CONCRETE
- BRICK (COMMON OR FACE)
- CONCRETE MASONRY UNITS (CMU)
- GLAZED STRUCTURAL FACING TILE (GSFT)
- CUT STONE
- METAL (LARGE SCALE)
- METAL (SMALL SCALE)
- ACOUSTICAL CEILING TILE
- PLASTER, SAND, CEMENT, GROUT
- GYPSUM DRYWALL
- GLASS
- RIGID INSULATION
- BATT INSULATION
- ROUGH WOOD (CONTINUOUS)
- ROUGH WOOD (NON-CONTINUOUS)
- FINISH WOOD
- PLYWOOD

SYMBOL LEGEND

THIS IS A GENERAL LEGEND. ALL SYMBOLS MAY NOT APPLY

- 5 / A5 — SECTION
- 3 / A2 — DETAIL
- 1 — CONSTRUCTION NOTE
- 3 — DEMOLITION NOTE
- 8/A1.13 — DETAIL NUMBER
- 01 — DOOR NUMBER
- 1 — EQUIPMENT NOTE
- 8 — GLAZING TYPE
- 1/A2.1 — INTERIOR ELEVATION
- 3 — REVISION NUMBER
- OFFICE 100 — ROOM NAME & NUMBER
- 10 — TOILET NOTE
- B — PARTITION TYPE
- A — WINDOW TYPE
- NEW CONSTRUCTION

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C-500 PAVING AND DRAINAGE PLAN
C-600 EROSION AND SEDIMENT CONTROL PLAN

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MEP

MEP-1.0 MEP GENERAL NOTES

MECHANICAL

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M-1.1 MECHANICAL PLAN

M-2.0 MECHANICAL DETAILS
M-2.1 MECHANICAL DETAILS

M-3.0 MECHANICAL SCHEDULES

ELECTRICAL

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P-4.1 PLUMBING RISER DIAGRAM

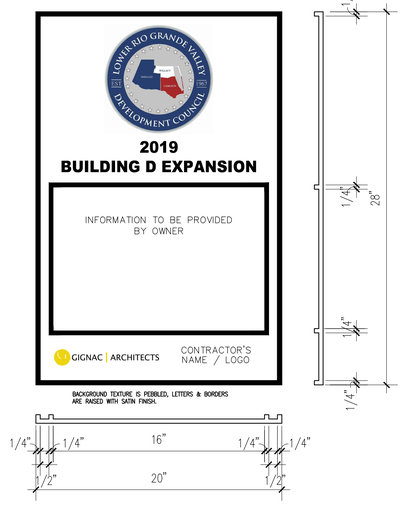
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TESS-2.2 ACCESS CONTROL DETAILS
TESS-2.3 TELECOMM. DETAILS
TESS-2.4 TELECOMM. DETAIL & SCHEDULE

CAST PLAQUE



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CONSULTANTS

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STRUCTURAL: Chanin Engineering LLC

MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE 11/30/2019

SIGNED 06/05/2019

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	18.45
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Sheet Title:

COVER SHEET INDEX OF DRAWINGS

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GENERAL INFORMATION

PROJECT NAME: LRGV DC - BUILDING "D" EXPANSION
LOCATION: 301 W. RAILROAD ST. / WESLACO, TEXAS 78596
ARCHITECT: GIGNAC & ASSOCIATES

PROJECT DESCRIPTION

EXPANSION TO EXISTING BUILDING FOR ADMINISTRATIVE OFFICES

APPLICABLE CODES

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE

2017 NATIONAL ELECTRIC CODE

2012 TEXAS ACCESSIBILITY STANDARDS

BUILDING HEIGHTS AND AREAS

CONSTRUCTION TYPE: V B

BASIC ALLOWABLE HEIGHT (TABLE 504.3): 60'
ACTUAL HEIGHT: 38'-0" (To the highest point of the roof)

BASIC ALLOWABLE AREA FOR "B" OCCUPANCY:
ALLOWABLE SQUARE FOOTAGE FOR A SPRINKLED BUILDING: 27,000 SF

EXISTING BUILDING "D" = 10, 115 SF

1ST LEVEL OF EXPANSION 6,778 SF +
2ND LEVEL OF EXPANSION 6,358 SF =
TOTAL ACTUAL SQUARE FOOTAGE OF BUILDING
(CALCULATED FROM EXTERIOR FINISH OF EXTERIOR WALLS) = 13,136 SF

EXISTING + PROPOSED EXPANSION = 23,251 SF

OCCUPANCY LOAD AND EXIT REQUIREMENTS

Table 1004.1.2

PRIMARY OCCUPANCY(SECTION 304):
B - BUSINESS
OCCUPANT LOAD (TABLE 1004.1.2): 9,167 SF / 100 = 92 OCCUPANTS

INCIDENTAL OCCUPANCY (SECTION 303):
A - ASSEMBLY
OCCUPANT LOAD (TABLE 1004.1.2): 1144 SF / 15 = 77 OCCUPANTS

INCIDENTAL OCCUPANCY:
U - UTILITY
OCCUPANT LOAD (TABLE 1004.1.2): 1271 SF / 300 = 5 OCCUPANTS

TOTAL OCCUPANCY LOAD: 174

FIRE PROTECTION SYSTEM

NFPA 13 AUTOMATIC SPRINKLER SYSTEM THROUGHOUT
NFPA 72 FIRE ALARM SYSTEM

STRUCTURAL FIRE RATINGS

STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, & TRUSSES	NR
BEARING EXTERIOR WALLS	NR
BEARING INTERIOR WALLS	NR
NON-BEARING EXTERIOR WALLS & PARTITIONS	NR
NON-BEARING INTERIOR WALLS & PARTITIONS	NR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	NR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	1-HR

EXIT REQUIREMENTS

GREATEST OCCUPANT LOAD 2nd FLOOR = 123 OCCUPANTS
[1005.3.1 9 STAIRWAYS]
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH = 36.9" MIN.

[TABLE 1006.2.1]
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE FOR OCCUPANCY "B" WITH A SPRINKLER SYSTEM = 100'

[TABLE 1006.3.1]
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY FOR 1 - 500 OCCUPANTS = 2.

[1009.3 STAIRWAYS]
IN ORDER TO BE CONSIDERED PART OF AN ACCESSIBLE MEANS OF EGRESS, A STAIRWAY BETWEEN STORIES SHALL HAVE A CLEAR WIDTH OF 48 INCHES MIN. BETWEEN HANDRAILS."

STAIRWAY 103 IS 48" IN WIDTH BETWEEN HANDRAILS.

PLUMBING REQUIREMENTS

[TABLE 2902.1 AND 2902.2]
PLUMBING FIXTURE COUNT FOR 87 MALES & 87 FEMALES:

TOTAL LAVATORIES REQUIRED FOR MEN:	3	TOTAL PROVIDED:	5
TOTAL LAVATORIES REQUIRED FOR WOMEN:	3	TOTAL PROVIDED:	5
TOTAL WC/URINALS REQUIRED FOR MEN:	3	TOTAL PROVIDED:	7
TOTAL WC'S REQUIRED FOR WOMEN:	3	TOTAL PROVIDED:	7
TOTAL DRINKING FOUNTAINS REQUIRED:	2	TOTAL PROVIDED:	4

GENERAL NOTES:

1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS AND STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.

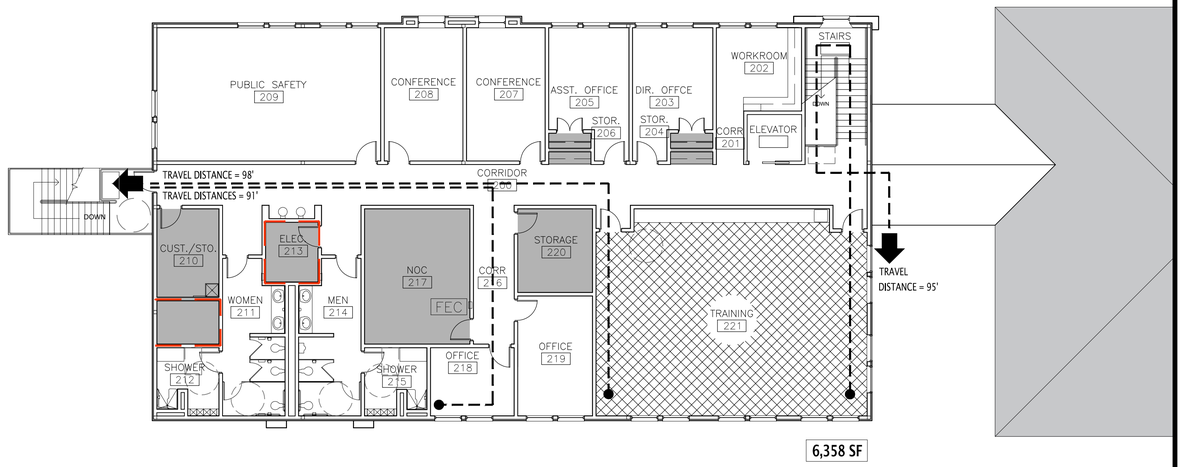
2. OVERALL PLAN SHEET IS INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION.

3. A FIRE SYSTEM APPROVED BY THE FIRE MARSHALL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.

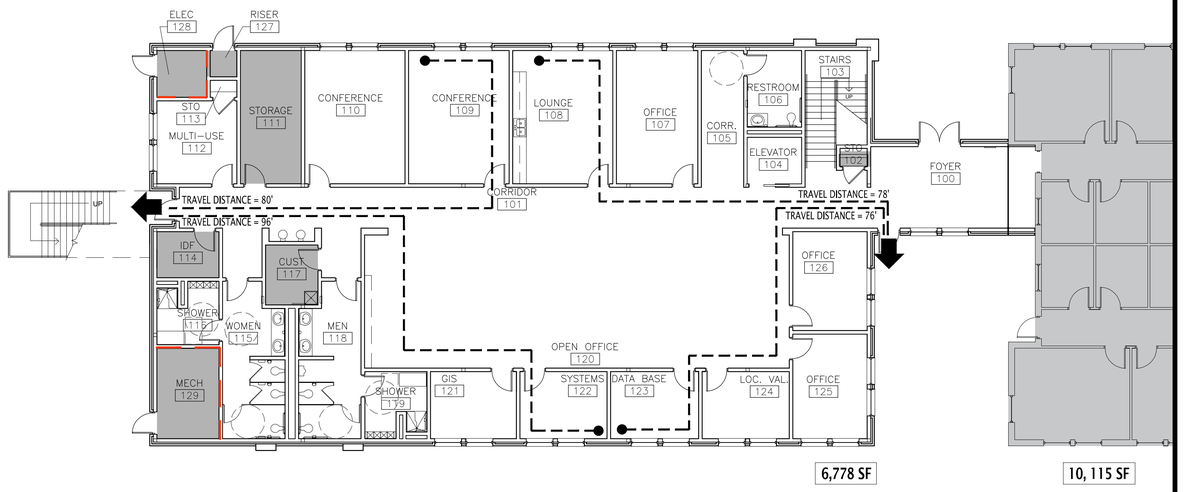
4. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.

5. PROVIDE PANIC HARDWARE FOR GROUP "A" OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.

6. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS. ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENT MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS." LETTERS SHALL BE 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ONE LABEL PER STRUCTURAL BAY.



2 2ND LEVEL FLOOR PLAN
3/32" = 1'-0"



1 1ST LEVEL FLOOR PLAN
3/32" = 1'-0"

OCCUPANCY LEGEND

- BUSINESS
- ASSEMBLY
- UTILITY

CODE PLAN LEGEND

- TRAVEL DISTANCE FROM MOST REMOTE POINT
- 1-HR FIRE BARRIER (1-HR BARRIER CONSTRUCTION. 1/3 HOUR RATED DOOR ASSEMBLY. FIRE DAMPERS).
- FEC — FIRE EXTINGUISHERS CABINET (F.E. TYPE 10#ABC AMEREX MODEL 419 OR EQUAL. INSTALLED IN SEMI-RECESSED CABINET)

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CONSULTANTS
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STRUCTURAL: Chanin Engineering LLC
MEP: Sigma HN Engineers, PLLC
LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS
EXPIRATION DATE 11/30/2019
SIGNED 06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

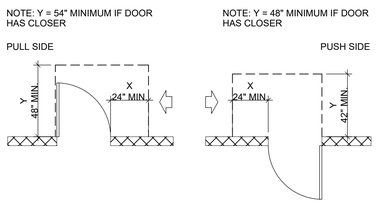
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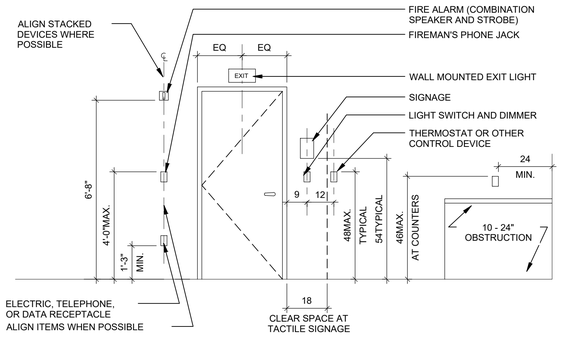
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CODE REVIEW

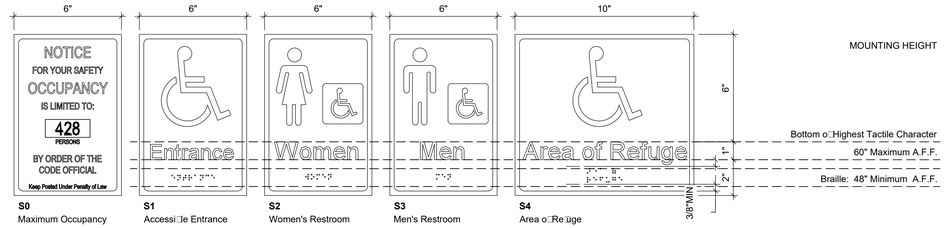
G-101



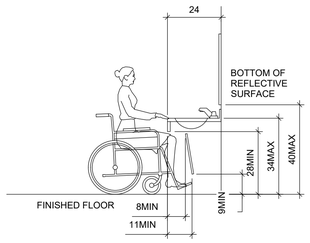
6 LATCH SIDE DOOR APPROACH
SCALE: 1/4" = 1'-0"



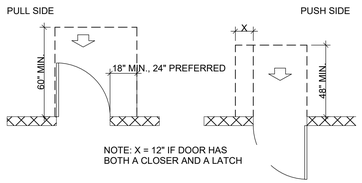
7 MISCELLANEOUS HEIGHTS
SCALE: 3/8" = 1'-0"



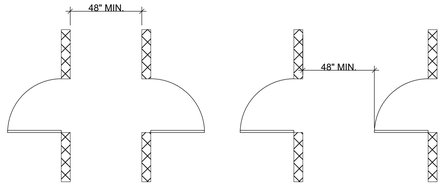
8 REQUIRED SIGNAGE
SCALE: 3" = 1'-0"



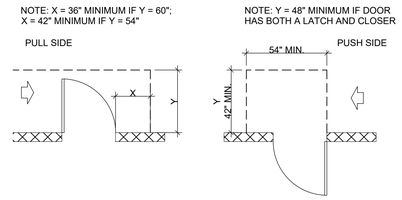
2 LAVATORY CLEARANCES
SCALE: 3/8" = 1'-0"



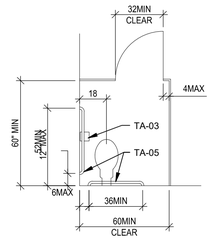
3 FRONT DOOR APPROACH
SCALE: 1/4" = 1'-0"



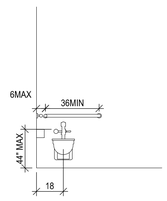
4 TWO HINGED DOORS IN SERIES
SCALE: 1/4" = 1'-0"



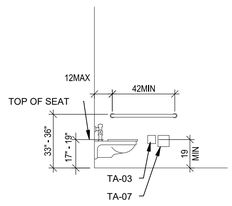
5 HINGE SIDE DOOR APPROACH
SCALE: 1/4" = 1'-0"



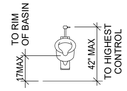
ACCESSIBLE TOILET STALL



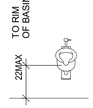
ACCESSIBLE TOILET W/ GRAB BARS AND TOILET PAPER DISPENSER



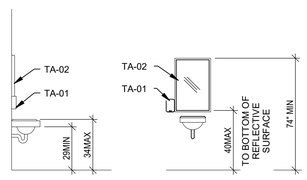
ACCESSIBLE TOILET W/ GRAB BARS TOILET PAPER DISPENSER, AND SANITARY NAPKIN DISPOSAL



ACCESSIBLE URINAL

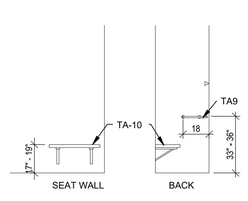


STANDARD URINAL



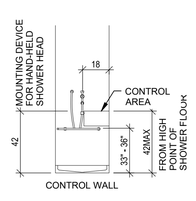
ACCESSIBLE LAVATORY

ACCESSIBLE MIRROR

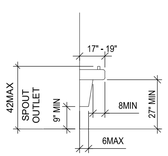


ACCESSIBLE SHOWER SEAT

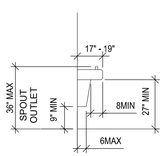
ACCESSIBLE SHOWER



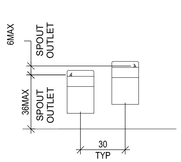
ACCESSIBLE SHOWER (36" X 36")



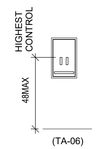
STANDARD DRINKING FOUNTAIN



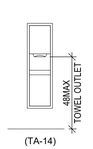
ACCESSIBLE DRINKING FOUNTAIN



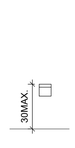
ACCESSIBLE AND STANDARD DRINKING FOUNTAINS (COMBINED)



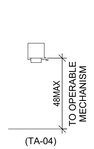
ACCESSIBLE SANITARY NAPKIN DISPENSER



ACCESSIBLE PAPER TOWEL DISPENSER AND TRASH RECEPTACLE



ACCESSIBLE SANITARY NAPKIN DISPOSAL



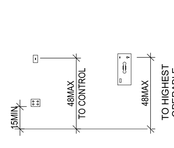
ACCESSIBLE PAPER TOWEL DISPENSER



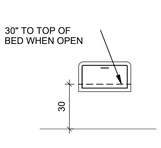
ACCESSIBLE SOAP DISPENSER



ACCESSIBLE FIRE EXTINGUISHER CABINET



ACCESSIBLE WALL SWITCH, OUTLET AND TELEPHONE



BABY CHANGING STATION

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

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F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS
CIVIL: Melden & Hunt, Inc.
STRUCTURAL: Chanin Engineering LLC
MEP: Sigma HN Engineers, PLLC
LANDSCAPE: Lanscapes

REGISTERED ARCHITECT ALFONSO GIGNAC 6296 STATE OF TEXAS
EXPIRATION DATE 11/30/2019
SIGNED 06/05/2019

LRGV DEVELOPMENT COUNCIL

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

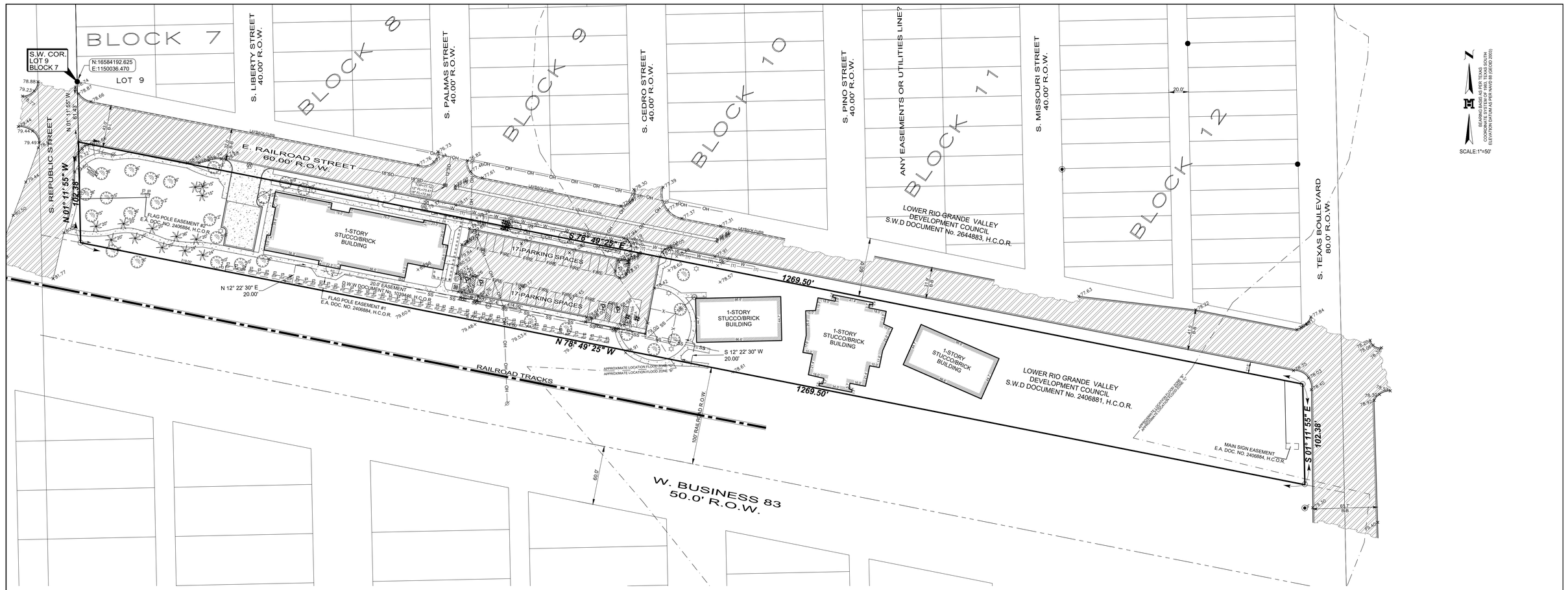
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	AL
Checked:	JM
Scale:	VARIOUS
ACAD File:	G-102

Revisions:

Sheet Title:
ADA GUIDELINES

G-102



FLOOD ZONE

ZONE "C"
AREAS OF MINIMAL FLOODING.

ZONE "B"
AREAS BETWEEN LIMITS OF THE 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.

COMMUNITY-PANEL NUMBER: 480349 0005 B
MAP REVISED: MARCH 4, 1980

PLAT SHOWING 2.914 ACRES OUT OF LOT 9, BLOCK 163, WESLACO ORIGINAL TOWNSITE SUBDIVISION VOLUME 2, PAGE 30, H.C.M.R. CITY OF WESLACO, HIDALGO COUNTY, TEXAS

NOTES:

1. SURVEY IS VALID ONLY IF PRINT HAS ORIGINAL SEAL & SIGNATURE OF SURVEYOR.
2. SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT WHICH MAY SHOW ADDITIONAL EASEMENTS AFFECTING THIS TRACT. THE SURVEYOR IS ADVISING THE RECIPIENT OF THIS PLAT THAT ADDITIONAL EASEMENTS MAY AFFECT THIS TRACT.
3. ALL BEARINGS AND DISTANCES ARE BASED ON GRID COORDINATES.
4. AEP TEXAS CENTRAL COMPANY CLAIMS AN EASEMENT WITHIN SUBJECT TRACT AS PER DOCUMENT NUMBER 1290550, HIDALGO COUNTY OFFICIAL RECORDS.

LEGEND

- FOUND No.4 REBAR
- FOUND 60d NAIL
- FOUND PIPE (SIZE AS NOTED)
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SINGLE POST SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- WATER VALVE
- CLEANOUT
- 3'x4' GRATE INLET
- TRANSFORMER
- ELECTRICAL METER
- 8" IRON GUARD POST
- BLOCK FENCE
- CHAIN LINK FENCE
- 12"SD — 12" STORM SEWER LINE
- 18"SD — 18" STORM SEWER LINE
- OH — OH — OVERHEAD POWER LINE
- FIRE — FIRE LANE
- RAILROAD TRACKS
- [T] — [T] — SPOTTED VTCI TELEPHONE LINE [APPROXIMATE LOCATION]
- ASPHALT AREA
- CONCRETE AREA
- NO PARKING ZONE
- CANOPY AREA

B-B - BACK OF CURB TO BACK OF CURB
B-L - BACK OF CURB TO LAYBACK CURB
A/C - AIR CONDITION UNITS
- HANDICAP PARKING SIGN
- TREE (SIZE AS NOTED)
- PALM TREE (SIZE AS NOTED)

I, FRED L. KURTH, A REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THE FOREGOING PLAT TO BE TRUE AND CORRECT REPRESENTATION OF A SURVEY MADE ON THE GROUND ON 2/11/19 UNDER MY DIRECTION AND SUPERVISION.

PRELIMINARY - NOT INTENDED FOR RECORDING PURPOSES

FRED L. KURTH, RPLS No. 4750 DATE:

JOB No. 18236.08
DRAWING DATE: 02/11/2019
DRAWN BY: J.C./J.L.G.
File Name: 18236.08
T-1066, PG. 53

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REVISION	DATE	BY

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PH: (956) 381-0981 - FAX: (956) 381-1839
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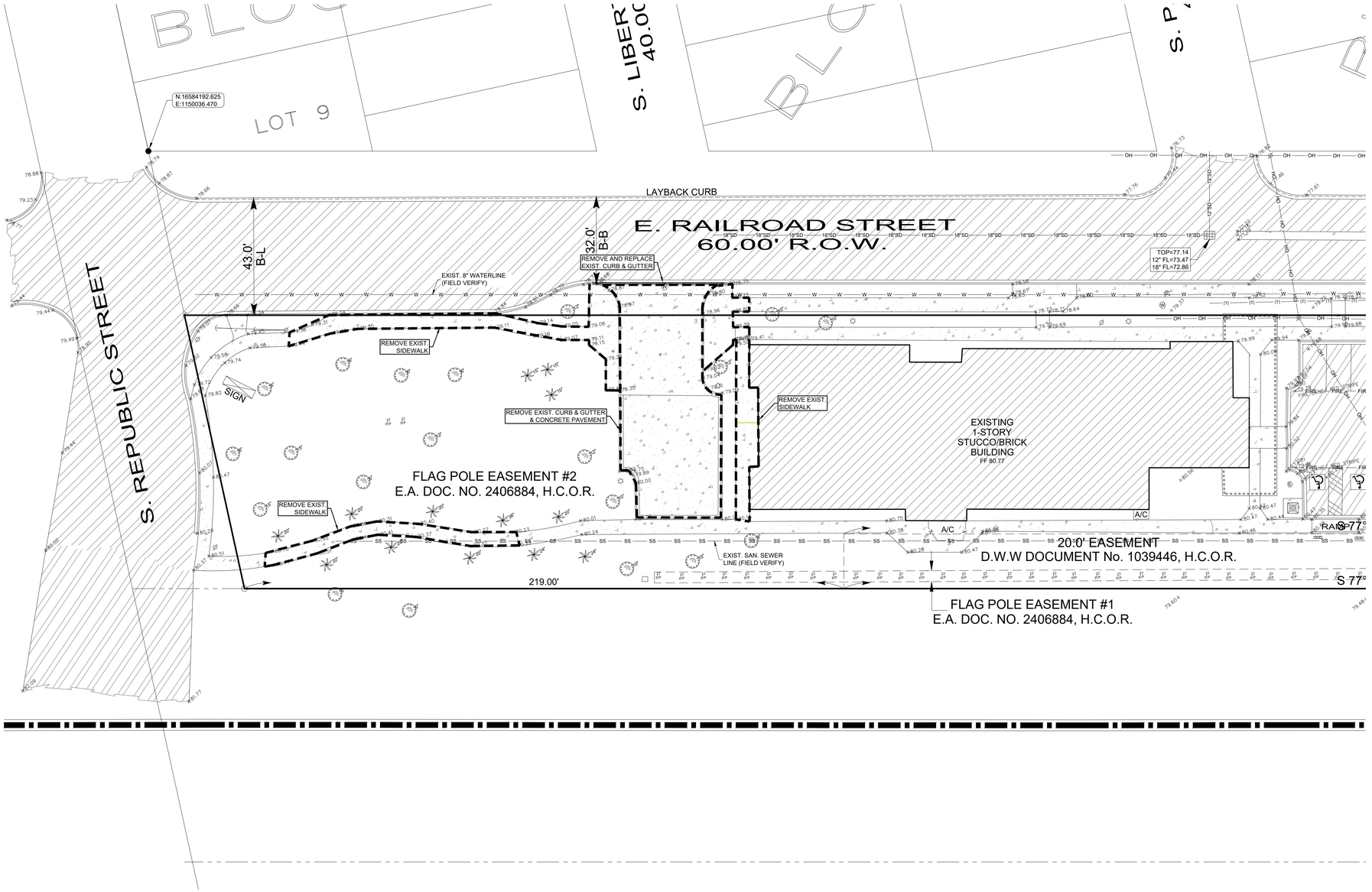
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MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368
06-06-2019
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

SCALE: 1" = 20'



LEGEND

- FOUND No.4 REBAR
- FOUND 60d NAIL
- FOUND PIPE (SIZE AS NOTED)
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SINGLE POST SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
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- HANDICAP PARKING SIGN
TREE (SIZE AS NOTED)
PALM TREE (SIZE AS NOTED)

Consultants:
CIVIL:
Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP:
Sigma HN Engineers, PLLC

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST. 1967 WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 18.45
Drawing Date: MAY 23, 2019
Drawn:
Checked:
Scale:
ACAD File:

Revisions:

Sheet Title:

EXISTING SITE/ DEMOLITION PLAN

C-100

Y:\Miscellaneous Engineering\Other Misc\18236.04 - Gignac Arch-LRGV DC additions\18236.04\18236.05.dwg, 6/6/2019 9:07:27 AM

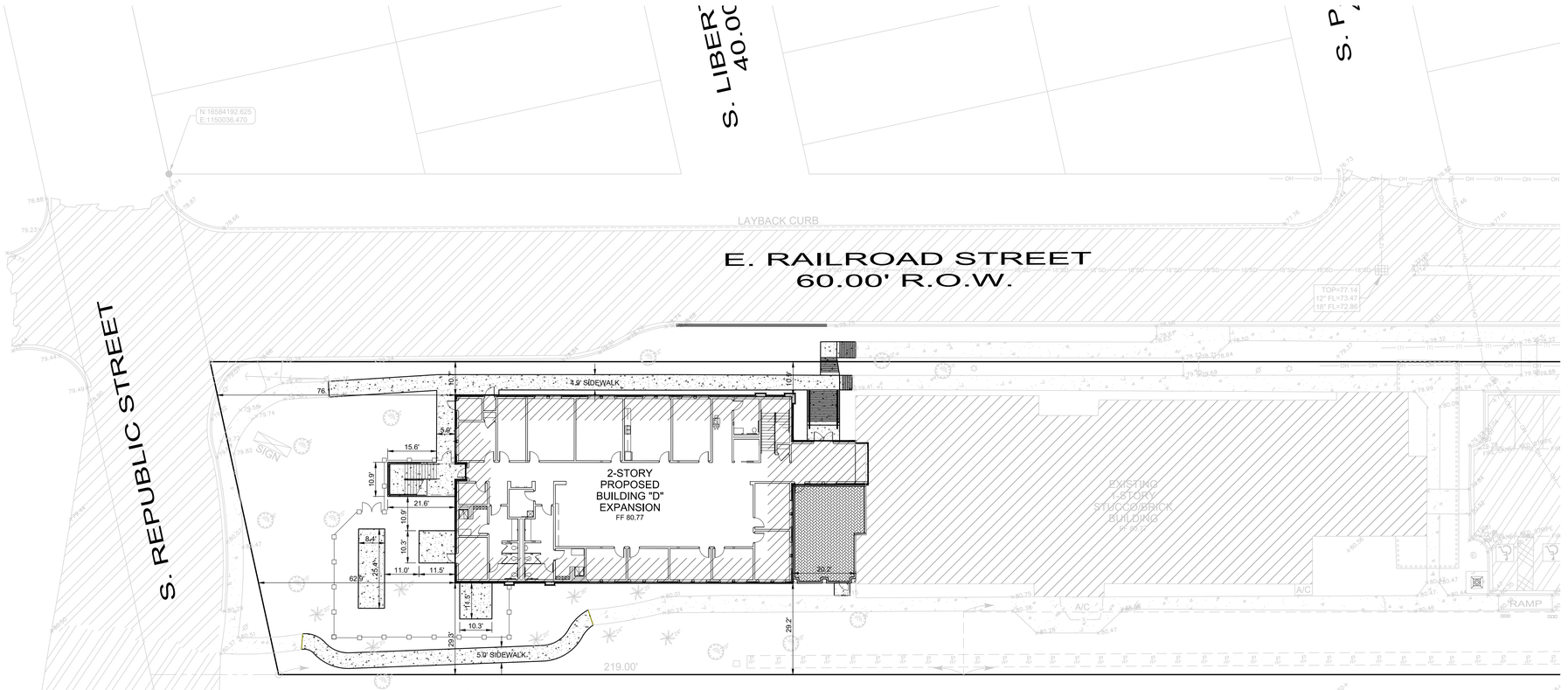
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MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435
STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368
06-06-2019
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

THE ENGINEER AND HIS CONSULTANTS SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, NOR FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SCALE: 1" = 20'



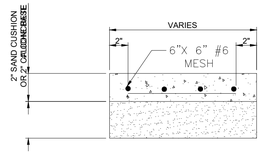
GENERAL NOTES:

1. ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED TO BE A RAMP.
2. IF A RAMP HAS A RISE 6" OR GREATER, IT SHALL HAVE HANDRAILS ON BOTH SIDES. IF A RAMP HAS A RUN OF 72" OR GREATER, IT SHALL HAVE HANDRAILS ON BOTH SIDES.
3. THE INSIDE HANDRAIL ON SWITCH BACK OR DOG LEG RAMPS SHALL ALWAYS BE CONTINUOUS.
4. A RAMP 14'-8" OR WIDER SHALL HAVE INTERMEDIATE HANDRAILS EVENLY SPACED AT 176" O.C.
5. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE 1 1/2".
6. RAMP CROSS SLOPE SHALL BE NO GREATER THAN 1:50.
7. RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE BARRIERS TO PREVENT WHEELS OR PEOPLE FROM SLIPPING OFF. SEE SECTION B, C, D, F, G, AND H ON THIS PAGE.
8. OUTDOOR RAMPS OR APPROACHES SHALL NOT ACCUMULATE WATER.
9. WHEN HANDRAILS DO NOT RETURN TO ITSELF, TO WALL NOR TO FLOOR, THE ENDS OF THE HANDRAILS SHALL BE ROUNDED. IN JURISDICTION GOVERNED BY THE I.C.B.O.'S UNIFORM BUILDING CODE, COMPLIANCE WITH ANSI A117.1 IS REQUIRED -UBC-1101.2. HANDRAILS SHALL RETURN TO A WALL, GROUND OR WALKING SURFACE. A117.1-4.3.11.1

NOTE-A
WHERE HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND 12" MINIMUM PARALLEL TO GROUND.

NOTE-B
IF RAMP LENGTH IS 30 FEET OR SHORTER, MINIMUM WIDTH SHALL BE 36".
IF RAMP LENGTH IS MORE THAN 30 FEET, MINIMUM WIDTH SHALL BE 44".

NOTE-C
IF RAMP LENGTH IS 30 FEET OR SHORTER, RAMP SLOPE SHALL BE 1:12 TO 1:16.
IF RAMP LENGTH IS MORE THAN 30 FEET, RAMP SLOPE SHALL BE 1:16 TO 1:20.
THE MAXIMUM RISE OF ANY RAMP IS 30".

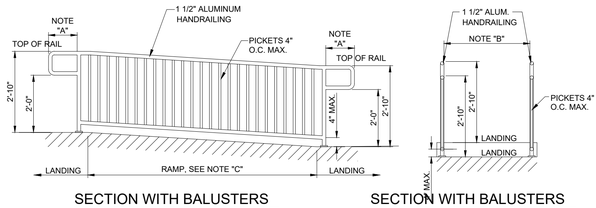


NOTE
1. CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. SUBGRADE SHALL BE COMPACTED TO 95% MAX DENSITY.

GENERAL NOTES:
1. DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. SIDEWALK SHALL BE CONSTRUCTED WITHIN STREET R.O.W.
3. PROVIDED 5'X 5' PASSING SPACE AT A MAXIMUM 200' INTERVALS, IF SIDEWALK IS LESS THAN 5' ON WIDTH (DRIVEWAY IS CONSIDERD A PASSING SPACE)

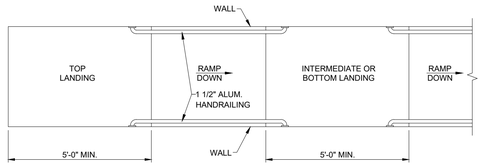
CONSTRUCTION NOTES:
A. CROSS-SLOPE AT 1.5% USUAL AND 2.0% MAX.
B. SIDEWALK, WIDTH VARIES, 4 FT MINIMUM WHEN SETBACKS 5 FT FROM THE CURB. 5 FT (MINIMUM WHEN ADJACENT TO THE CURB.
C. SEE DRIVEWAY APRON DETAIL.
D. CONTRACTION JOINTS, EVERY 6 FT. EXPANSION JOINT EVERY 30 FT.
E. 1/2" EXPANSION JOINT.

SIDEWALK DETAIL
N.T.S.



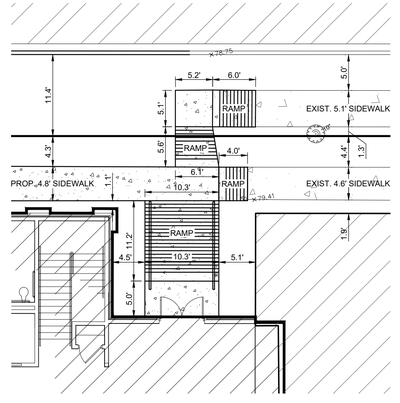
SECTION WITH BALUSTERS

SECTION WITH BALUSTERS



NOTE:
IN JURISDICTION GOVERNED BY THE I.C.B.O.'S UNIFORM BUILDING CODE SECTION 1003.4.4 REQUIRES THAT LANDINGS AT THE BOTTOM OF A RAMP SECTION SHALL NOT BE LESS THAN 6'-0" IN THE DIRECTION OF THE RAMP RUN. INTERMEDIATE LANDINGS SHALL BE 5'-0".

RAMP LANDING AT STRAIGHT RUN
N.T.S.



SIDEWALK RAMP AREA
N.T.S.

LEGEND
- FOUND No.4 REBAR
- FOUND 60d NAIL
- FOUND PIPE (SIZE AS NOTED)
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SINGLE POST SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- WATER VALVE
- CLEANOUT
- 3'x4' GRATE INLET
- TRANSFORMER
- ELECTRICAL METER
- 8" IRON GUARD POST
- BLOCK FENCE
- CHAIN LINK FENCE
- 12"SD — 12" STORM SEWER LINE
- 18"SD — 18" STORM SEWER LINE
- OH — OVERHEAD POWER LINE
- FIRE — FIRE LANE
- RAILROAD TRACKS
- SPOTTED VTCI TELEPHONE LINE [APPROXIMATE LOCATION]
- ASPHALT AREA
- CONCRETE AREA
- NO PARKING ZONE
- CANOPY AREA

B-B - BACK OF CURB TO BACK OF CURB
B-L - BACK OF CURB TO LAYBACK CURB
A/C - AIR CONDITION UNITS
- HANDICAP PARKING SIGN
- TREE (SIZE AS NOTED)
- PALM TREE (SIZE AS NOTED)

Consultants:
CIVIL:
Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP:
Sigma HN Engineers, PLLC

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 18.45
Drawing Date: MAY 23, 2019
Drawn:
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Scale:
ACAD File:

Revisions:

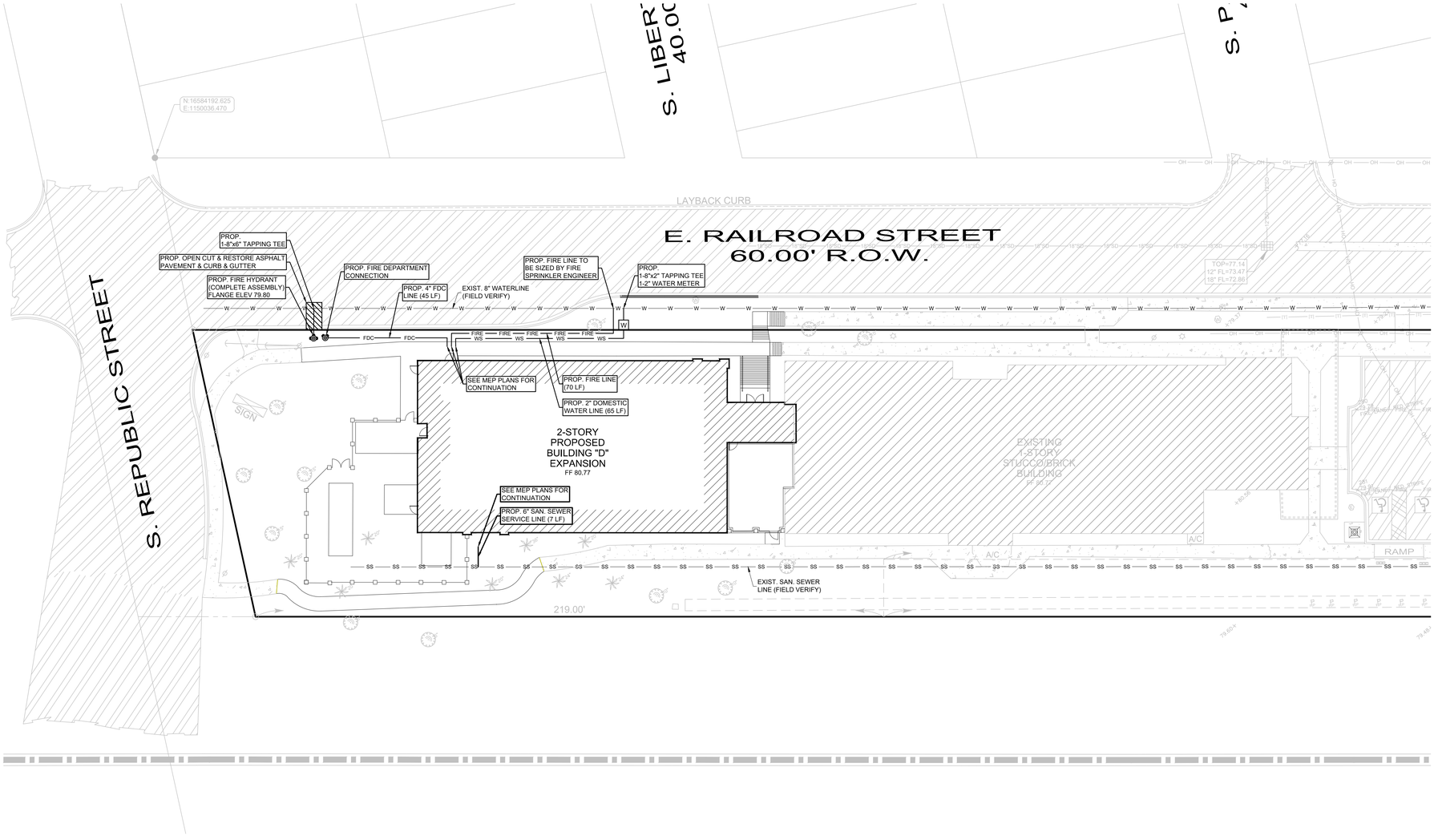
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CIVIL SITE PLAN

C-200

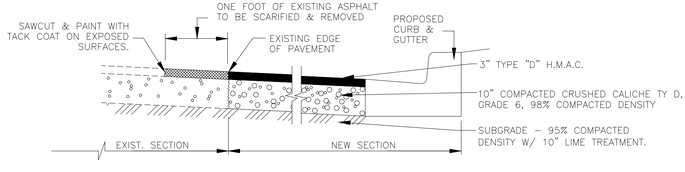
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TEXAS REGISTRATION F-1435
STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED PROFESSIONAL ENGINEER
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06-06-2019
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SCALE: 1" = 20'



NEW ASPHALT MEETING EXISTING PAVEMENT

LEGEND

- FOUND No.4 REBAR
- FOUND 60d NAIL
- FOUND PIPE (SIZE AS NOTED)
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SINGLE POST SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- WATER VALVE
- CLEANOUT
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TREE (SIZE AS NOTED)
PALM TREE (SIZE AS NOTED)

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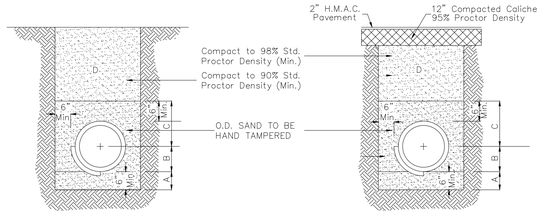
Revisions:

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WATER AND SEWER LAYOUT

C-300

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STANDARD PIPE BEDDING

A. SAND BEDDING TO BE PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")

B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED)

C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)

D. FILL TRENCH W/SELECT BACKFILL, W/8" LIFTS COMPACT TO 98% STD. PROCTOR

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 98% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

WATER LINE – BACKFILL A,B,C,D
SEWER LINE – BACKFILL A,B,C,D
SAND TO BE ARROYO SAND W/ PI <15

AFTER THE TRENCH IS BACKFILLED PER APPLICABLE STANDARD AND/OR SPECIAL SPECIFICATION TO WITHIN 18 INCHES OF THE FINISH GRADE THE CONTRACTOR SHALL INSTALL A DETECTABLE PIPE LOCATING TAPE OVER ALL THE WATER MAINS. THE BACKFILL SHALL BE SUFFICIENTLY LEVELED SO THAT THE TAPE WILL BE INSTALLED ON A FLAT SURFACE. THE TAPE SHALL BE CENTERED IN THE TRENCH AND LAID FLAT WITH PRINTED SIDE UP. CAUTION SHALL BE EXERCISED TO AVOID DISPLACEMENT OF TAPE AND TO ENSURE ITS INTEGRITY.

STANDARD PIPE BEDDING
UNDER EXISTING PAVEMENT OR PROP. PAVEMENT

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")

B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED).

C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED).

D. FILL TRENCH W/SAND CEMENT STABILIZED BACKFILL W/8" LIFTS COMPACTED TO 98% STANDARD PROCTOR DENSITY

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

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WATER LINE – BACKFILL A,B,D
SEWER LINE – BACKFILL A,B,C,D
SAND TO BE ARROYO SAND W/ PI <15

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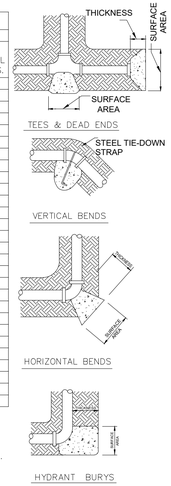
WATER AND SEWER PIPE BEDDING DETAIL

N.T.S.

THRUST BLOCK SIZE			
HORIZONTAL BENDS			
DIAMETER OF PIPE IN INCHES	SURFACE AREA SQ. FT.	THICKNESS IN INCHES	WEIGHT AT VERTICAL BENDS–LBS.
22–1/2° BENDS			
6 OR LESS	2	8	1,700
8	3	12	3,000
10	3.5	12	4,500
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45° BEND			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90° BEND			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD ENDS			
6 OR LESS	3	12	--
8	4	15	--
10	6	18	--
12	8.5	18	--
14	11.5	24	--
16	15	24	--

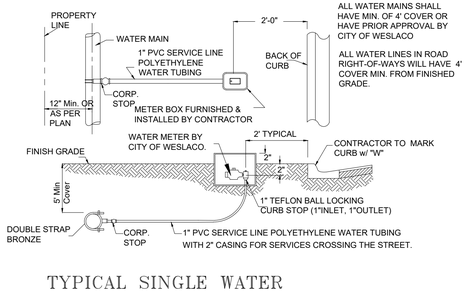
NOTE:
ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND A SOIL RESISTANCE OF 2,000 LBS. PER SQ./FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB & GUTTER AND A 5 FT. MIN. WITHOUT CURB & GUTTER

NOTE: SEE THRUST BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS



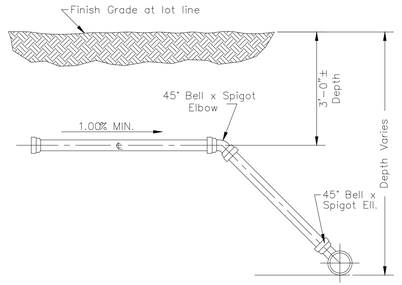
THRUST BLOCKS DETAILS

N.T.S.



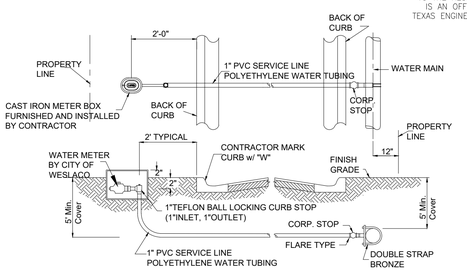
TYPICAL SINGLE WATER SERVICE CONNECTION

(NEAR SIDE)



TYPICAL DEEP SERVICE CONNECTION

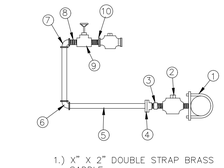
N.T.S.



TYPICAL SINGLE WATER SERVICE CONNECTION

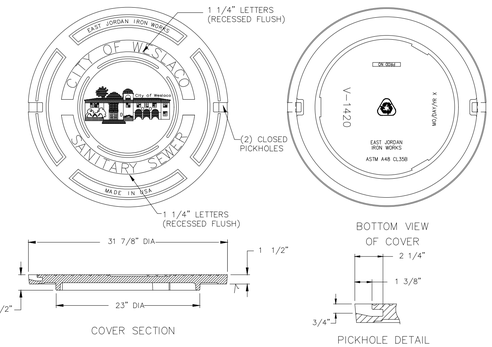
(FAR SIDE)

NOTE:
ALL FITTINGS ON WATER SERVICES 1" & BELOW TO BE FLARE TYPE.



2" METER SERVICE

N.T.S.



PRODUCT NUMBER
41420082

DESIGN FEATURES
MATERIALS
COVER-GRAY IRON ASTM A48 CL35B

DESIGN LOAD
HEAVY DUTY

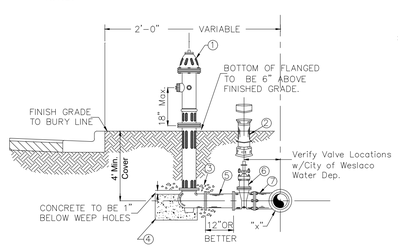
COATING
UNDIPPED

OPEN AREA
N/A

√ DESIGNATES MACHINE SURFACE

EJIW EAST JORDAN V-1420 COVER

N.T.S.



NOTE:

1.) OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.
2.) PUMPER NOZZLE SHALL FACE ROADWAY. (5 1/2" N.S.T.)
3.) IN CERTAIN INSTANCES, WHERE DISTANCES PERMITS, A PARALLEL TEE OR UNION-TITE 90° ELBOW W/RESTRAINING LUGS MAY BE USED IN LEIU OF A STANDARD TEE. FINAL APPROVAL BY CITY OF WESLACO REQUIRED.
4.) ALL VALVES,FITTINGS & HYDRANTS & ACCESSORIES TO BE GREASED & WRAPPED IN PLASTIC.
5.) ALL VALVES, FITTINGS AND ACCESSORIES, VALVE BOXES, METER BOXES AND COVERS WILL BE OF DOMESTIC ORIGIN AND APPROVED BY CITY OF WESLACO WATER DEPARTMENT

FIRE HYDRANT INSTALLATION CONSITS OF FIRE HYDRANT, VALVE AND VALVE BOX

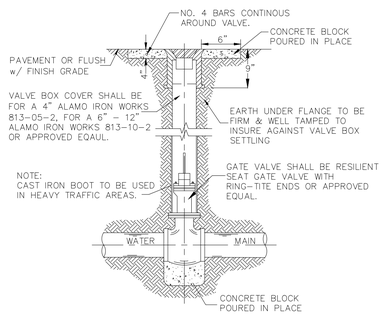
FIRE HYDRANT UNIT SHALL INCLUDE:

1.) 1– FIRE HYDRANT w/ (4 1/2" PUMPER NOZZLE)
2.) 1–VALVE BOX
3.) 3 CU. FT. GRAVEL
4.) 3 CU. FT. CONCRETE 1" BELOW HYDRANT WEEP HOLES)
5.) 1" OR BETTER PVC SPOOLS
6.) 1–6" RESILIENT SEAT GATE VALVE (FLANGED X M.J. OR P.O.)
7.) 1–X"x6" CAST IRON TEE x" WATER MAIN DIA. (FLANGED X M.J. OR P.O.)

STANDARD FIRE HYDRANT INSTALLATION

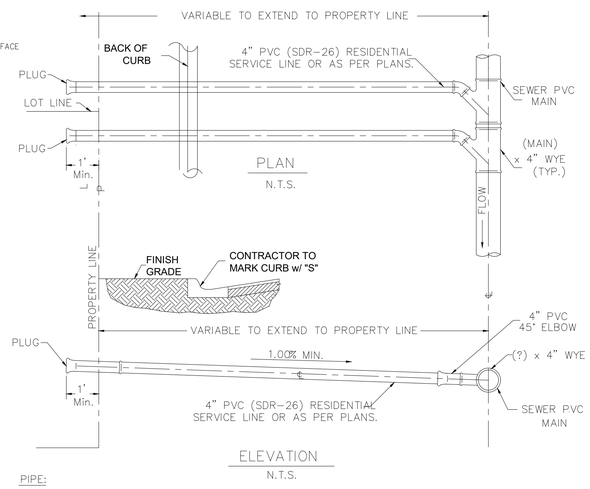
Mueller(Super Centurion 250 A-423)

N.T.S.



TYPICAL VALVE AND VALVE BOX INSTALLATION ON MAIN LINE

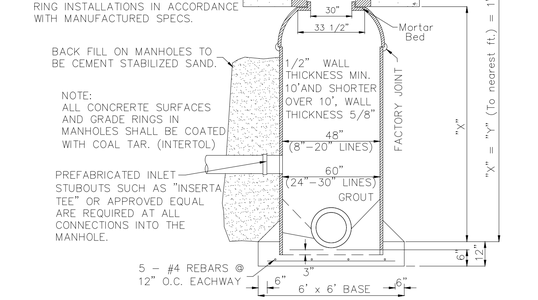
N.T.S.
Mueller (A-2360 series) or American Darling (series 500) Only



PIPE:
POLY (VINYL CHLORIDE) (PVC) SEWER PIPE SHALL CONFORM TO REQUIREMENTS OF ASTM D-3034-73-JOHNS-MANVILLE "RING TITE" PVC (SDR-26) SEWER PIPE OR APPROVED EQUAL.

TYPICAL SEWER SERVICE LINE INSTALLATION

N.T.S.

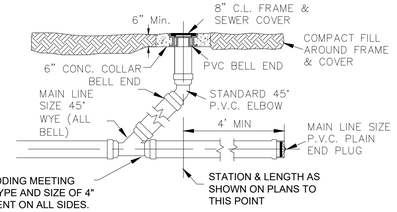


TYPICAL FIBERGLASS MANHOLE

N.T.S.

NOTE:
SOLVENT WELDED SLIP ON JOINTS MAY BE USED ON VERTICAL RISING SECTION OF PIPE WITH A MINIMUM OF 4" CONCRETE ENCASEMENT ON ALL SIDES.

NOTE: ALL PIPE CONNECTION TO M.H. SHALL USE INSERTA-TEE



TYPICAL SANITARY SEWER CLEANOUT

N.T.S.

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MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435



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C-400

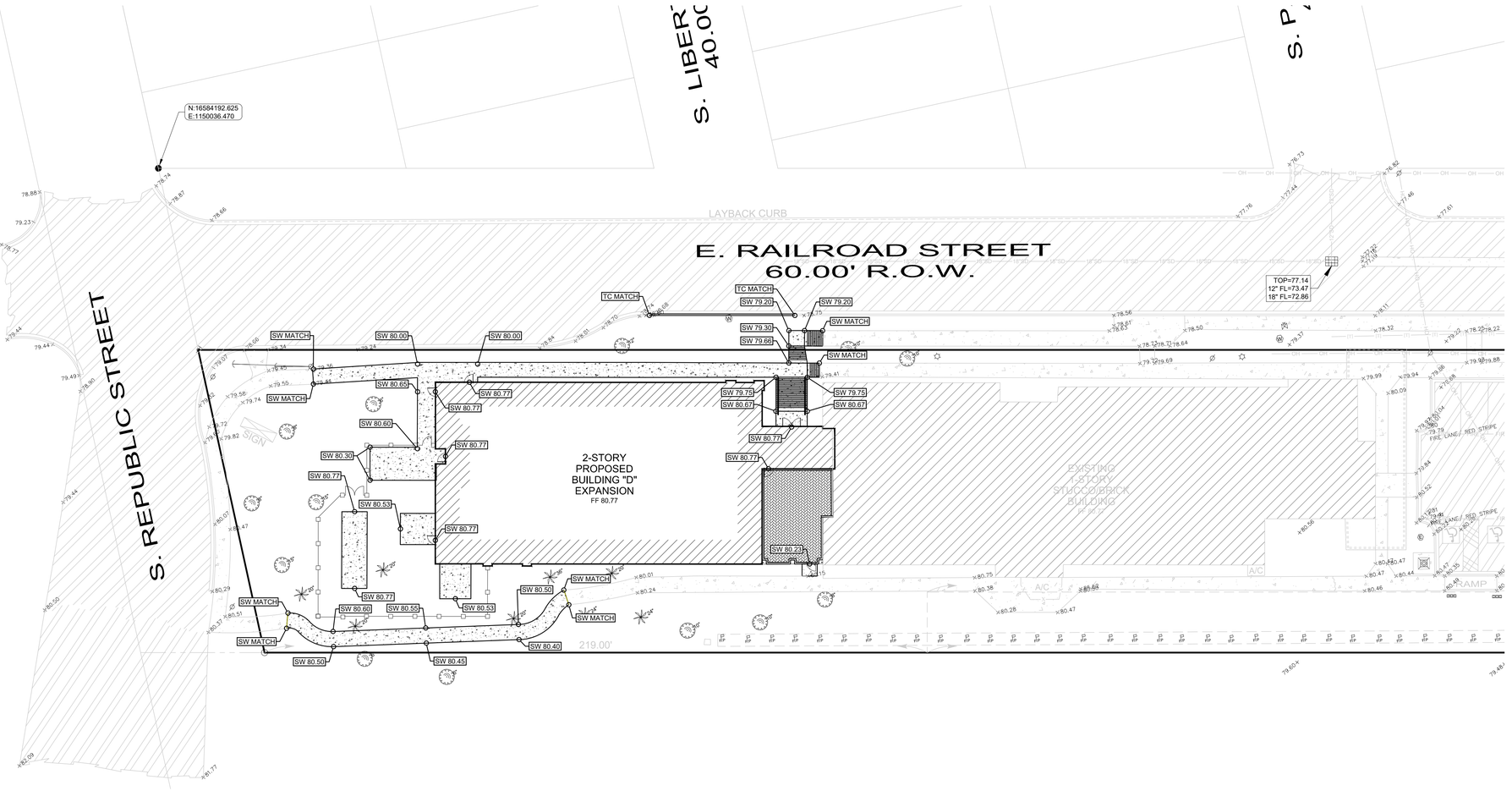
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A/C - AIR CONDITION UNITS
- HANDICAP PARKING SIGN
- TREE (SIZE AS NOTED)
- PALM TREE (SIZE AS NOTED)

FF XXX.XX — FINISH FLOOR ELEVATION
SW XXX.XX — TOP OF SIDEWALK ELEVATION

Consultants:
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STRUCTURAL:
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MEP:
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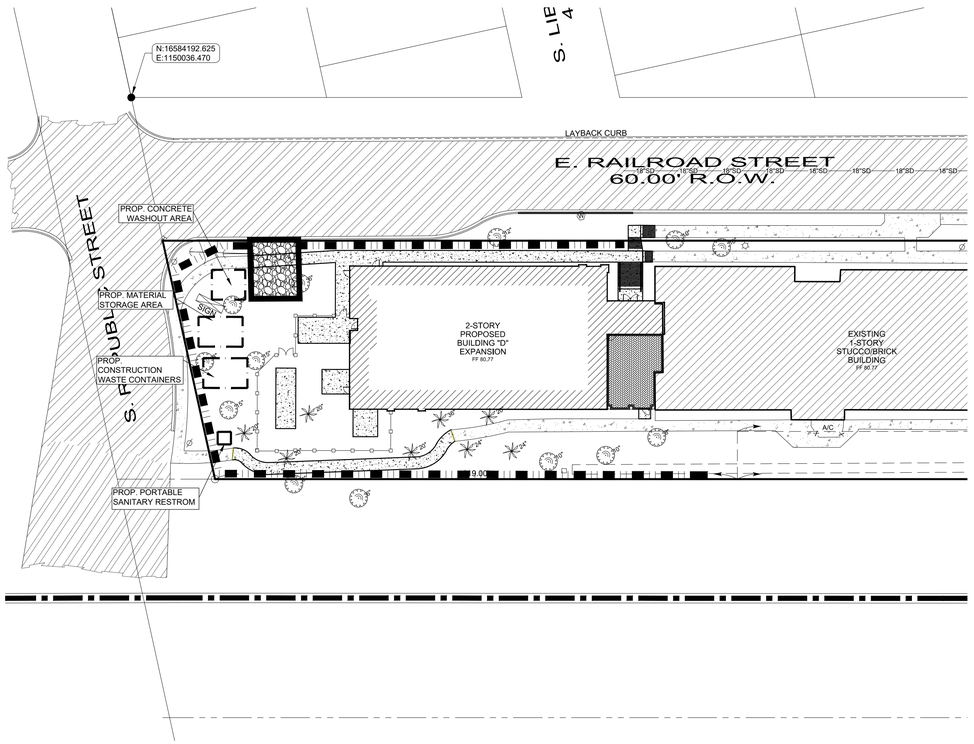
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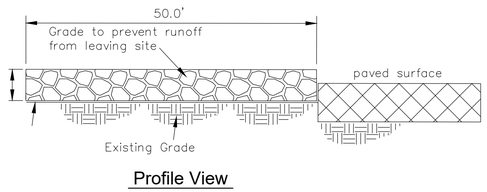
PAVING AND DRAINAGE PLAN

C-500

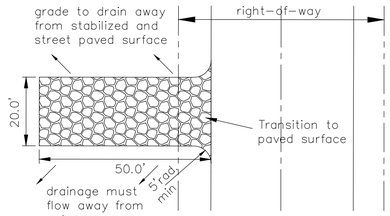
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Profile View



Plan View

LEGEND

- SEDIMENT CONTROL FENCE
- CONSTRUCTION ENTRANCE
- SOCK FOR INLET

GENERAL NOTES :

1. The guidelines shown hereon are suggestions only and may be modified by the engineer.
2. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 lbs.
3. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetable matter.
4. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
5. Hay bales shall be place in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
6. Hay bales shall be securely anchored in place with 3/8" dia. rebar or 2"x2" wood stakes driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.

2/C5 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE

Notes :

1. Contruction entrance(s) shall be locted at the time of pre-contruction meeting.
2. Stone shall be 4 to 8 inch diameter crushed rock or acceptable crushed Portland Cement Concrete.
3. When necessary, vehicles shall be cleaned to remove sediment prior to entrance onto a public roadway. When washing is required, it shall be done on a area stabilized with crushed stone with drainage flowing away form both the street and the stabilized entrance. All sediment shall be prevented from entering any storm drain, ditch or watercourse using approved methods.
4. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto paved surfaces. This may require periodic top dressing with additional stone as conditions demand. All sediment spilled, dropped, washed or tracked onto paved surfaces, must be removed immediately.
5. The entrance must be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site.

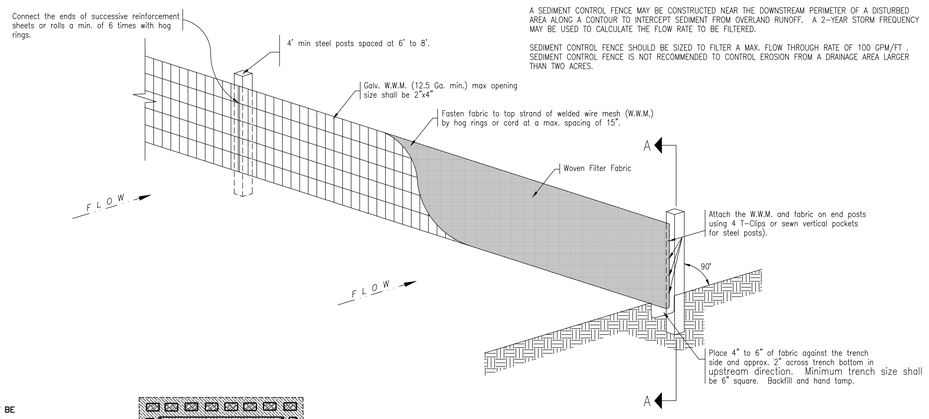
GENERAL NOTES :

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

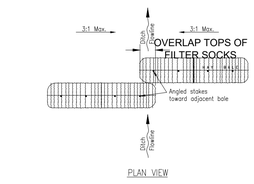
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT . SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.



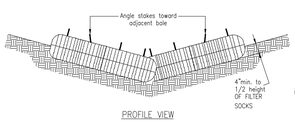
TEMPORARY SEDIMENT CONTROL FENCE



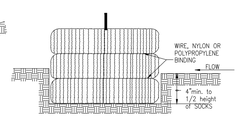
PLAN VIEW

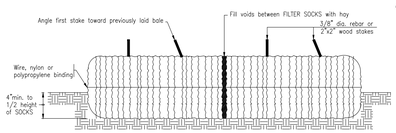
GENERAL NOTES :

1. Filter socks shall be a minimum of 8" diameter.
2. Filter shall be bound by either wire nylo or polypropylene string. the filter socks shall be composed entirely of vegetable matter.
3. Filter socks shall be embedded in the soil a minimum of 4" and where possible height of the hay sock.
4. Filter socks shall be placed in a row with ends tightly abutting the adjacent socks. the socks shall be placed with bindings parallel to the ground.
5. Filter socks shall be securely anchored in place with 3/8" dia. rebar or 2"x2" wood stakes, driven through the filter socks. The first stake shall be angled towards the previously laid sock to force the hay socks together.
6. The guidelines shown hereon are suggestion only any may be modified by the engineer.
7. No hay bales are allowed.
8. Grate inlet protection for inlet located off cypress street may be required the construction process if deemed necessary by the city of Pharr public Works Department.

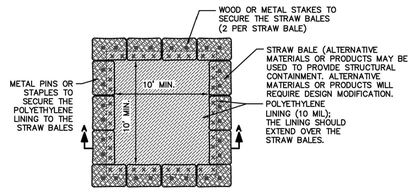


PROFILE VIEW

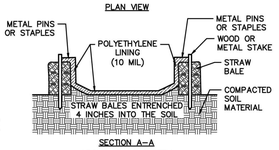




BALED HAY FOR EROSION CONTROL

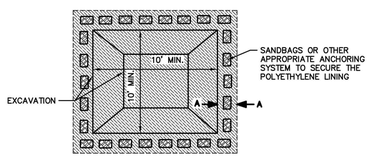


PLAN VIEW

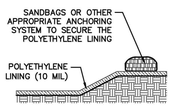


SECTION A-A
ABOVE GRADE SYSTEM

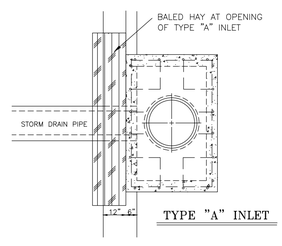
CONCRETE WASH OUT



PLAN VIEW



SECTION A-A
BELOW GRADE SYSTEM



TYPE "A" INLET

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368
06-06-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

GIGNAC | ARCHITECTS
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CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

Consultants:

CIVIL:
Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP:
Sigma HN Engineers, PLLC

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL
EST 1967
HIDALGO WILLACY CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 18.45
Drawing Date: MAY 23, 2019
Drawn:
Checked:
Scale:
ACAD File:

Revisions:

Sheet Title:

EROSION AND SEDIMENT CONTROL PLAN

C-600

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GENERAL NOTES

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.
10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
    A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
    B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION
    B. FRAMING OF SECOND FLOOR BEFORE DECKING IS INSTALLED
    C. SECOND FLOOR DECKING
    D. FRAMING OF ROOF STRUCTURE BEFORE WOOD SHEATHING IS INSTALLED
    E. CMU WALL REINFORCING BEFORE FILLING WITH GROUT.
3. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.
4. WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CURING COMPOUND FOR CONCRETE
    C. REINFORCING STEEL
    D. STRUCTURAL STEEL
    E. STEEL JOIST
    F. METAL DECKING
    G. CMU WALL COMPONENTS
2. DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE:
    A. PRE-MANUFACTURED WOOD TRUSSES INCLUDING REACTIONS (INCLUDING REACTIONS)
    B. PRE-ENGINEERED BUILDING CALCULATIONS (INCLUDING REACTIONS)
    C. COLD-FORMED METAL FRAMING (INCLUDING REACTIONS)
    D. STEEL STAIRS AND LANDING (INCLUDING REACTIONS)
3. DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS, AND AS REQUIRED BY THE RESPECTIVE BUILDING CODE, WHICHEVER IS GREATER. THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.
4. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
5. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
6. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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The Professional Engineer whose seal appears on the structural construction documents is the project Structural Engineer-of-Record (SER) who bears legal responsibility for the performance of the structural framing relating to the public health, safety and welfare. No other party, whether or not a Professional Engineer, may complete, correct, revise, delete or add to these construction documents or perform inspections of the work without the written permission of the SER.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:

CODE: ..... IBC 2015
2. VERTICAL LOADS
    A. ROOF DEAD LOAD (BUILT-UP ROOF): ..... 20 PSF
    B. FLOOR DEAD LOAD: ..... 62.5 PSF
    C. FLOOR PARTITION LOAD: ..... 15 PSF
    D. ROOF LIVE LOAD (REDUCIBLE) : ..... 20 PSF
    E. FLOOR LIVE LOAD: ..... SEE FLOOR LIVE LOAD PLAN
    F. UPLIFT LOAD ..... SEE ROOF UPLIFT PLAN

    G. MECHANICAL LOAD:
    THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.
3. LATERAL LOADS
    A. WIND SPEED (V-ULT): ..... 144 MPH
    WIND SPEED (V-ASD) ..... 112 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.0
    D. BUILDING CATEGORY: III
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... E
4. GEOTECHNICAL ENGINEERING REPORT:
    PROVIDED BY: TERRACON CONSULTANTS. INC.
    PROJECT NUMBER: 88195057
    DATED: 6/05/19
    FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
    A. EFFECTIVE PI: 15
    B. CLIMATIC RATING (Cw): 24
    C. MINIMUM BEAM DEPTH: ..... 18 IN
    D. MINIMUM FOOTING DEPTH: ..... 30 IN
    E. ALLOWABLE BEARING CAPACITY (BEAMS) ..... 2500 PSF
    F. ALLOWABLE BEARING CAPACITY (FOOTING) ..... 2500 PSF
    G. EXISTING PVR: ..... 1.00 IN
    H. PVR (SEE EXCAVATION) ..... 1 INCH

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.
2. CEMENT SHALL CONFORM TO ASTM CI50 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION	3000 PSI	4"-6"	1.5 IN.
AND SLAB			
PIERS	4000 PSI	4"-6"	1.5 IN.

4. INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.
5. PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.
6. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
7. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
8. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1
9. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.
10. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.
11. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
12. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF = 35 AND A MINIMUM LEVELNESS OF FL = 25
13. CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.
14. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
    1) SETS SHALL CONSIST OF 3 CYLINDERS
    ONE TESTED AT 7 DAYS
    TWO TESTED AT 28 DAYS
    2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
    3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE
15. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
16. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF AC1 302.1 AND 304.
17. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F'c), BEFORE FORMS MAY BE REMOVED.

    WALL, COLUMNS, & BEAM SIDES.....40%
    JOIST PANS & BEAM BOTTOMS (IF RESHORED).....70%
    SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....85%
18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.
20. ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.
3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED ONLY WHEN UNAVOIDABLE AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
    A. HORIZONTAL BARS w/ MORE THAN 12" OF FRESH CONCRETE CAST BELOW LAPS.
        #6 BARS AND SMALLER - 57 BAR DIAMETERS
        #7 BARS AND BIGGER - 72 BAR DIAMETERS
    B. OTHER BARS
        #6 BARS AND SMALLER - 44 BAR DIAMETERS
        #7 BARS AND BIGGER - 55 BAR DIAMETERS
    C. ALL SPLICES TO BE STAGGERED A MINIMUM OF 4'-0". TOP BAR AND BOTTOM BAR SPLICES TO BE LOCATED AT MID-SPAN AND WITHIN 1/3 SPAN RESPECTIVELY.
4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.
5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.
6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.
7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.
8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:
    A. FOOTING AND CONCRETE CAST AGAINST EARTH - 3 INCHES
    B. EXPOSED TO EARTH OR WEATHER
        #6 BARS AND BIGGER - 2 INCHES
        #5 BARS AND SMALLER - 1.5 INCHES
    C. BEAMS AND COLUMNS - 1.5 INCHES
    D. SLABS AND WALLS - 1 INCH
9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.
10. ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.
    #4 BARS - 100 FT.
    #5 BARS - 100 FT.
    #6 BARS - 100 FT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.
2. MATERIALS USED SHALL BE AS FOLLOWS=

A.	STRUCTURAL W-SHAPES	- ASTM A992 GRADE 50
B.	STRUCTURAL M-SHAPES AND S-SHAPES	- ASTM A36
C.	STRUCTURAL T-SHAPES	- CUT FROM W-SHAPES
D.	CHANNELS AND ANGLES	- ASTM A36
E.	ROUND HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
F.	SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
G.	STRUCTURAL PLATES	- ASTM A36
H.	STRUCTURAL BARS	- ASTM A36
I.	HIGH STRENGTH BOLTS	- ASTM A325
J.	ELECTRODES	- SERIES E70

3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.
4. CONNECTIONS NOT DETAILED AND/OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURE DRAWING. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.
6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.
7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.
8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.
10. PROVIDE 5 TONS OF RED IRON ALLOWANCE TO BE USED AS DIRECTED BY STRUCTURAL ENGINEER. INCLUDE LABOR COSTS IN THE ALLOWANCE. ANY UNUSED ALLOWANCE SHALL BE CREDITED BACK TO OWNER AT A COST OF $4000 PER TON.
11. ALL WELDED CONNECTION SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.
12. PROVIDE 1/2" GAP AT ALL PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.
13. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

WOOD SHEATHING

1. SHEATHING FOR ROOF TO BE TYPE CDX EXT., STRUCTURAL I-APA RATED, 5/8" THICK, (32/16).
2. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6' O.C. AT PANEL EDGES, AT 6' O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

METAL FLOOR DECK

1. SHEET STEEL: ASTM A653 GRADE 33 STRUCTURAL QUALITY WITH G90 GALVANIZED COATING CONFORMING TO ASTM A525
2. DECK PROFILE - C
    PROFILE DEPTH - .6 IN.
    GAGE - 28
3. METAL DECK ATTACHMENT SHALL BE:
    AT SUPPORTS: #12 TEK SCREWS AT A 30/4 PATTERN
    AT SIDELAPS: #10 TEK SCREWS, 3 PER SPAN
4. WELDING OF METAL DECKING SHALL NOT BE ALLOWED
5. ALL METAL DECK PANELS SHALL SPAN ACROSS A MINIMUM OF FOUR JOISTS OR BEAMS
6. DECK ENDS SHALL BE LAPPED OVER SUPPORTS
7. CONCRETE TOPPING SHALL BE 3" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6 W2.1xW2.1 WWF

STEEL JOISTS

1. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DETAILED, FABRICATED AND ERECTED PER AISC AND SJI SPECIFICATIONS FOR OPEN-WEB STEEL JOISTS.
2. STEEL JOISTS SHALL BE WELDED TO SUPPORTING MEMBERS UNLESS NOTED OTHERWISE.
3. JOIST BEARING SHALL BE A MINIMUM OF 2 1/2 INCHES WITH A MINIMUM 2 INCH LONG FILLET WELD EACH SIDE OF BEARING.
4. JOISTS AT COLUMN LOCATIONS OR CLOSEST JOIST TO COLUMN SHALL BE BOLTED.
5. PROVIDE BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. BRIDGING SHALL BE CONTINUOUS THROUGH STRUCTURAL STEEL MEMBERS, AND SHALL BE ANCHORED TO SPANDREL MEMBERS OR WALLS. PROVIDE ADDITIONAL BRIDGING WHERE REQUIRED FOR UPLIFT.
6. BOTTOM CHORD EXTENSIONS TO BE PROVIDED AS REQUIRED BY ARCHITECTURAL PLANS.
7. JOISTS SUPPORTING MECHANICAL UNITS TO BE DESIGNED FOR UNIT WEIGHT IN ADDITION TO GRAVITY LOADS SHOWN IN DESIGN CRITERIA.
8. REFER TO MECHANICAL ENGINEERING PLANS FOR EXACT UNIT WEIGHT AND LOCATIONS.
9. MECHANICAL EQUIPMENT SHALL BE SUPPORTED BY TOP CHORD OF JOIST ONLY.
10. PROVIDE SUPPORT ANGLES AROUND ANY OPENINGS IN ROOF DECK.
11. JOISTS AND ACCESSORIES SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
12. JOISTS TO BE DESIGNED PER LOADS SHOWN IN DESIGN CRITERIA.
13. DESIGN JOISTS FOR A 500 LB CONCENTRATED LOAD AT MIDSPAN TO ACT CONCURRENTLY WITH OTHER LOADS IN DESIGN CRITERIA.
14. JOIST MANUFACTURER SHALL DESIGN BOTTOM CHORDS OF ALL OPEN WEB JOISTS AND JOIST GIRDERS TO SUPPORT A 50 lb LOAD LOCATED ANYWHERE ALONG THE LENGTH OF THE CHORD.
15. HANGERS FOR MECHANICAL EQUIPMENT WITH REACTIONS IN EXCESS OF 50 lbs MUST BE LOCATED AT THE PANEL POINTS OF THE JOISTS. PROVIDE JOIST REINFORCING IN ACCORDANCE WITH THE TYPICAL DETAILS WHERE HANGERS ARE REQUIRED TO BE LOCATED MORE THAN 4 INCHES FROM THE JOIST PANEL POINTS.
16. PROVIDE FLAT BEARING FOR ALL JOISTS AND JOIST GIRDERS. BEAR JOISTS AND JOIST GIRDERS ON SUPPORTS IN ACCORDANCE WITH SJI SPECIFICATIONS.
17. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.
18. STEEL JOISTS TO BE DESIGNED BY TEXAS REGISTERED PROFESSIONAL ENGINEER.
19. STEEL JOIST SHOP DRAWINGS SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAI ENGINEER.

COLD ROLLED STEEL SPECIFICATIONS (SSMA)

1. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING AS REQUIRED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER.
2. ALL STRUCTURAL MEMBERS AND CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". LATEST EDITION.
3. ALL STUDS, RUNNERS, JOIST AND TRUSSES SHALL BE FORMED FROM GALVANIZED STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR .097, .068, .054 THICK MEMBERS AND 33 KSI FOR.043 AND .033 THICK MEMBERS AND FLAT STRAP BRACING.
4. PRIOR TO FABRICATION THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED ERECTION DRAWINGS AND STRUCTURAL CALCULATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
6. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF TRACK WEB PRIOR TO FASTENING.
7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDS. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT.
8. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. PROPOSED CONNECTION TO BE SUBMITTED FOR APPROVAL.
9. ABUTTING LENGTHS OF TRACK SHALL EACH BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED, OR SPLICED.
10. STUDS SHALL BE PLUMB, ALIGNED AND SECURELY ATTACHED TO FLANGES OF BOTH UPPER AND LOWER TRACKS.
11. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADERS, AND WHERE NEEDED TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS.
12. RESISTANCE TO MINOR AXIS BENDING AND ROTATION SHALL BE PROVIDED BY GYPSUM BOARD OR GYPSUM SHEATHING AND BY HORIZONTAL STRAP AND BLOCKING OR COLD-ROLLED CHANNEL BRACING AT THIRD POINTS.
13. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
14. PROVIDE A MINIMUM OF (3) #12 SCREWS FOR ALL STUD TO STUD CONNECTIONS.
15. BRIDGING SHALL BE INSTALLED IMMEDIATELY AFTER JOISTS ARE ERECTED AND BEFORE CONSTRUCTION LOADS ARE APPLIED TO PREVENT FLANGE ROTATION AND TO SUPPORT FLANGES IN COMPRESSION.

16 BRIDGING SHALL CONSIST OF SOLID BLOCKING PLUS STRAP BRACING OR 1 1/2" COLD-ROLLED CHANNELS SCREW-ATTACHED OR WELDED TO BOTTOM JOIST FLANGES. BRIDGING SHALL BE INSTALLED AT MID SPAN FOR SPANS 16'-0" OR LESS AND AT 8'-0" O.C. MAX. FOR SPANS GREATER THAN 16'-0" U.N.O.

17. SOLID BLOCKING, OF FIELD-CUT TRACK OR JOIST SECTION, SHALL BE PROVIDED, WELDED OR SCREW-ATTACHED BETWEEN OUTER JOIST, OVER ALL INTERIOR SUPPORTS AND ADJACENT TO OPENINGS AT 10'-0" O.C. MAX. COLD-ROLLED CHANNELS OR STRAP BRACING OF 1 1/2" x 33 MIL. (0.033") CORROSION-RESISTANT STEEL SHALL BE SCREW-ATTACHED TO BOTTOM JOIST FLANGE BETWEEN SOLID BLOCKING. REFERENCE MANUFACTURER INSTALLATION INSTRUCTIONS.
18. DEFLECTION SHALL BE HELD TO L/600 FOR EXTERIOR BRICK, L/360 FOR EXTERIOR STUCCO, AND L/240 FOR EXTERIOR SIDING OR EIFS.

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LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

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Drawing Date:	6-5-2019
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Checked:	MC
Scale:	
ACAD File:	

Revisions:

Sheet Title:

GENERAL NOTES

S-100

GENERAL NOTES

MASONRY

1. MATERIALS:
   A. CONCRETE BLOCK: MEDIUM WEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) MINIMUM COMPRESSIVE STRENGTH: 1900 PSI
   B. MORTAR: ASTM C270 TYPE S.
   C. GROUT: MINIMUM COMPRESSIVE STRENGTH: 2000 PSI
   D. NET AREA COMPRESSIVE STRENGTH: 1500 PSI TO BE TESTED IN ACCORDANCE TO ATSM C1314 STANDARDS.
   E. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (DUR-O-WALL). A HOHMANN + BARNARD COMPANY.
   F. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
   G. TYPICAL CMU WALL REINFORCING SHALL BE #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C. U.N.O. ON DRAWINGS.

2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
   A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 BAR DIAMETERS MINIMUM WITH WALL BAR.
   B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" x 3" IN SIZE, FREE OF MORTAR DROPPINGS.
   C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
   D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
   E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
   F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0'. UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99

3. MISCELLANEOUS:
   A. FILL CORE SOLID AROUND ANCHOR BOLTS.
   B. PROVIDE SOLIDLY FILLED HOLLOW BLOCKS AT ALL EMBED ANCHOR LOCATIONS.
   C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
   D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTING, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
   E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
   F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
   G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL HEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED.
   H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.
   I. ALL CMU WALLS MUST HAVE SPECIAL INSPECTION PER IBC CODE 2012 SECTION 1705.4 "MASONRY CONSTRUCTION" ON CHAPTER 17-"STRUCTURAL TEST & SPECIAL INSPECTION". THE CONTRACTOR MUST PROVIDE REPORTS OF THESE "SPECIAL INSPECTIONS".
   J. BARS SCHEDULED "CONTINUOUS" SHALL BE SPLICED AS FOLLOWS:

REINFORCING BAR SIZE	MIN. LAP SPLICE LENGTH
#5	30"
#6	36"
#7	42"
#8	48"
#9	54"
#10	MECHANICAL CONNECTOR
#11	

4. STABILITY AND BRACING:
   ALL MASONRY WALLS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THEIR FINAL CONSTRUCTED POSITION ONLY ASSUMING FULL BRACING AT TOP, BOTTOM, AND/ OR SIDES AS INDICATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION RESIST ANY ERECTION VERTICAL OR LATERAL LOADS THAT COULD BE IMPOSED ON THE WALLS PRIOR TO CONSTRUCTION COMPLETION.

5. TESTING:
   A. TESTING FREQUENCY: ONE SET OF SPECIFIED TESTS FOR EVERY 5,000 SF OF COMPLETED WALL AREA.
   B. TESTING OF MORTAR MIX: IN ACCORDANCE WITH ASTM C780 FOR AGGREGATE RATIO AND WATER CONTENT, AIR CONTENT, CONSISTENCY, AND COMPREHENSIVE STRENGTH.
   C. TESTING OF GROUT MIX: IN ACCORDANCE WITH ASTM C1019 FOR COMPREHENSIVE STRENGTH, AND IN ACCORDANCE WITH ASTM C143/C143M FOR SLUMP.
   D. TEST COMPREHENSIVE STRENGTH OF MORTAR AND MASONRY TO ASTM C1314: TEST IN ACCORDANCE WITH MASONRY UNIT SECTIONS SPECIFIED.

6. GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH STRUCTURAL ENGINEER AND MASONRY CONTRACTOR BEFORE MASONRY WORK COMMENCES.

WOOD TRUSSES

1. DESIGN ACCORDING TO LOADS SHOWN ON DESIGN CRITERIA.

2. TRUSSES SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A TEXAS LICENSED PROFESSIONAL ENGINEER.

3. SHOP DRAWINGS SHALL INDICATE SIZES AND SPACING OF TRUSSES AND ASSOCIATED COMPONENTS, WEB AND CHORD SIZES, PLATE SIZES, FASTENER DESCRIPTIONS AND SPACINGS, LOADS AND TRUSS CAMBERS, FRAMED OPENINGS, AND END REACTIONS.

4. SHOP DRAWINGS SHALL INCLUDE DESIGN CALCULATIONS SIGNED AND SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER.

5. FABRICATE BOTTOM AND TOP CHORD EXTENSIONS AS REQUIRED.

6. SEE MEP DRAWINGS TO COORDINATE ANY OPENINGS REQUIRED IN WEB OF TRUSSES.

7. DO NOT FIELD CUT OR ALTER TRUSS MEMBERS WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

STRUCTURAL TESTS AND SPECIAL INSPECTION

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.

2. THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION.
   A. APPROVED AGENCY - AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
   B. APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
   C. SPECIAL INSPECTION, CONTINUOUS - THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
   D. SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.

3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

4. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

5. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK.			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	——	X	——
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS	——	X	AWS D1.3
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	——	X	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	——	AWS D1.4 ACI 318: SECTION 3.5.2
3) SHEAR REINFORCEMENT.	X	——	
4) OTHER REINFORCING STEEL.	——	X	

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	——	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	——	——	AWS D1.4 ACI 318: 3.5.2	——
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	——	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	——	X	ACI 318. 3.86, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	——	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	——	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	——	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	——	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	——	ACI 318: 18.20 ACI 318: 18.18.4	——
10. ERECTION OF PRECAST CONCRETE MEMBERS.	——	X	ACI 318: Ch.16	——
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	——	X	ACI 318: 6.2	——
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	——	X	ACI 318: 6.1.1	——

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	——	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	——	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	——	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	——
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	——	X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	X	——	——
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	——	X	AISC 360, SECTION M2.5	
b. SLIP-CRITICAL CONNECTIONS.	X	X		——
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	ASTM A 6 OR ASTM A 568	——
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	——	——	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	AISC 360, SECTION A3.5	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	——	——	——
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL:	——	——		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	——	AWS D1.1	——
2) MULTIPASS FILLET WELDS.	X	——		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	——		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	——	X		
5) FLOOR AND ROOF DECK WELDS.	——	X	AWS D1.3	——
b. REINFORCING STEEL:	——	——		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	——	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	——	AWS D1.4 ACI 318: 3.5.2	——
3) SHEAR REINFORCEMENT.	X	——		
4) OTHER REINFORCING STEEL.	——	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—— —— ——	X —— ——	——	——

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODICALLY DURING TASK LISTED	REFERENCE FOR CRITERIA: IBC SECTION	REFERENCE FOR CRITERIA: ACI 530/ ASCE 5/ TMS 402[a]	REFERENCE FOR CRITERIA: ACI 530.1/ ASCE 6/ TMS 602a
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	——	X	——	——	Art. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	——	X	——	——	Art. 3.3B
c. LOCATION OF REINFORCEMENT , CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	——	Art. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE.	——	X	——	——	Art. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	——	Art. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	——	X	——	——	Art. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	——	X	——	Sec. 1.2.2(e), 2.1.4, 3.1.6	——
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	——	X	——	Sec. 1.13	Art. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	X	——	——	Sec. 2.1.10.7.2, 3.3.3.4(b)	——
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	——	X	——	——	Art. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	——	X	——	——	Art. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	——	X	——	——	Art. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	——	X	——	Sec. 1.13	Art. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	——	X	——	——	Art. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	——	X	——	——	Art. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	——	——	——	Art. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS.	X	——	——	——	Art. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	——	——	——	Art. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	——	X	——	——	Art. 1.5

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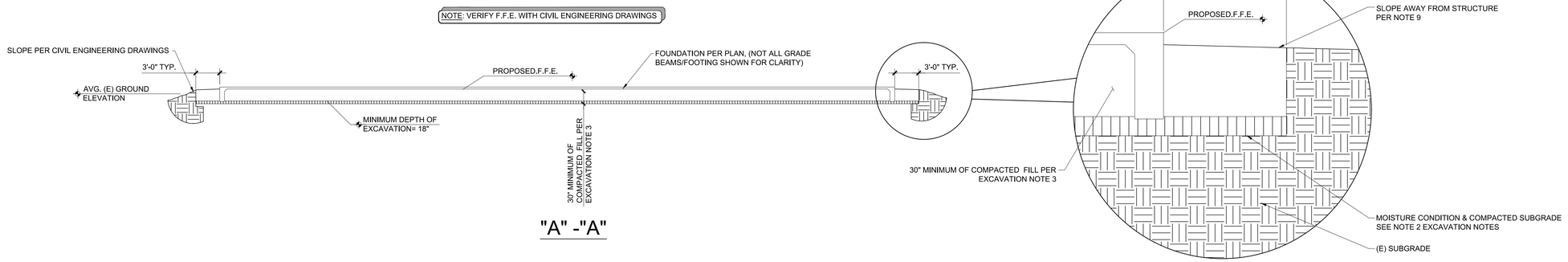
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GENERAL NOTES

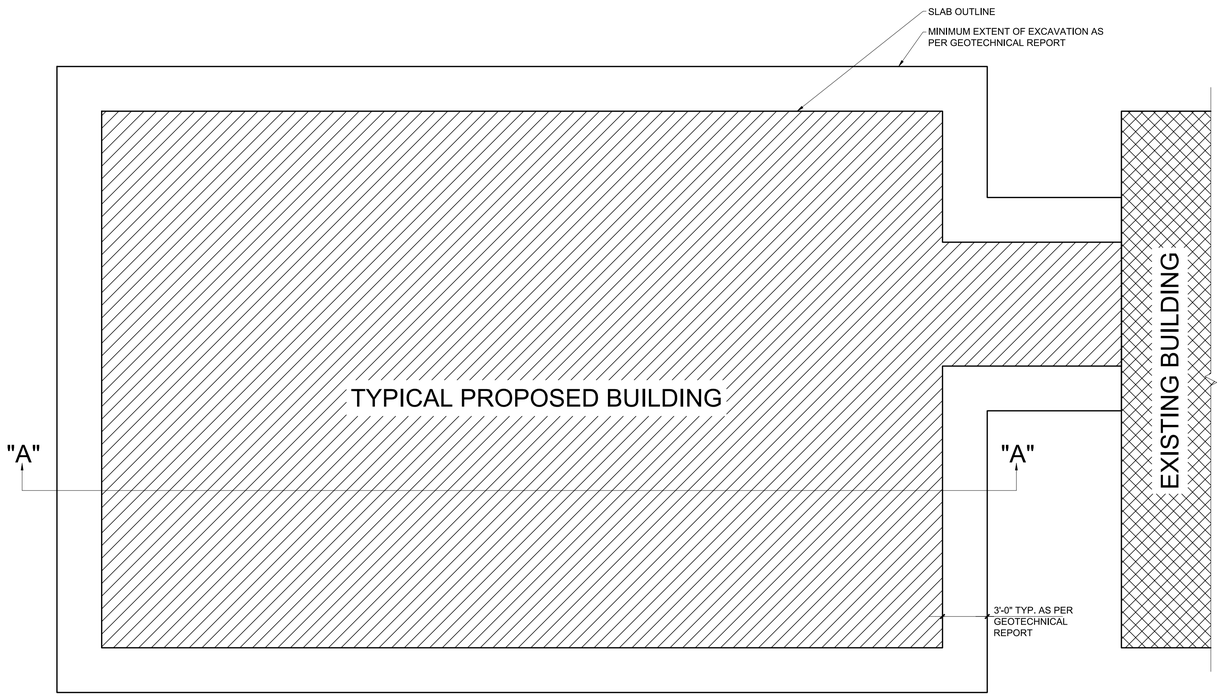
S-101



"A" -"A"

TYPICAL PROFILE

SCALE: NTS



EXCAVATION NOTES

1. CONSTRUCTION AREAS REMOVE AT LEAST 18 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 3'-0" OUTSIDE THE BUILDING LINE PROPOSED. STOCKPILE EXCAVATED MATERIAL FOR REVIEW AND APPROVAL OF GEOTECHNICAL ENGINEER FOR RE-USE.

2. EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOF ROLLED WITH A 15 TON PNEUMATIC ROLLER OR A FULLY LOADED DUMP TRUCK IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOF ROLLING SHOULD BE REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW. PRIOR TO FILL PLACEMENT, THE EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 8" AND RECOMPACTING TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED FROM THE ASTM D698 COMPACTION TEST. THE MOISTURE CONTENT SHOULD BE MAINTAINED AT OPTIMUM.

3. FILL BACK TO REQUIRED GRADE (A MAXIMUM 18" OF APPROVED STOCK PILED MATERIAL AND A MINIMUM OF 12" OF SELECT FILL AS REQUIRED. REFER TO CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF SELECT FILL NEEDED) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

4. SELECT FILL, WHEN PROPERLY SLAKED AND TESTED BY STANDARD LABORATORY METHODS, SHALL MEET THE FOLLOWING REQUIREMENTS:

A. AGGREGATE BASE COURSE- TOP SIX (6) INCHES OF BUILDING PAD SHALL CONSIST OF SOILS CLASSIFIED AS SC OR GC, BY THE USCS OR CALICHE OR CRUSHED LIMESTONE. THE CLAYEY GRAVEL AND CALICHE MATERIALS SHOULD MEET THE GRADATION REQUIREMENTS OF ITEM 247, TYPE B, GRADES 1 THROUGH 3 AS SPECIFIED IN THE 2004 TxDOT STANDARD SPECIFICATIONS MANUAL AND HAVE A PLASTICITY INDEX BETWEEN 7 AND 20. CRUSHED LIMESTONE OR CRUSHED CONCRETE MATERIAL SHOULD MEET THE REQUIREMENTS OF 2004 TxDOT ITEM 247, TYPE A OR D, GRADE 1. THE SELECT FILL MATERIALS SHOULD BE FREE OF ORGANIC MATERIAL AND DEBRIS, AND SHOULD NOT CONTAIN STONES LARGER THAN 2 INCHES IN THE MAXIMUM DIMENSION.

B. THE FOLLOWING SOILS, AS CLASSIFIED ACCORDING TO THE USCS, MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIALS AT THIS SITE: CL, SC, AND COMBINATIONS OF THESE SOILS. IN ADDITION TO THE USCS CLASSIFICATION, SELECT FILL MATERIALS SHALL HAVE A MAXIMUM LIQUID LIMIT OF 35 PERCENT, A PLASTICITY INDEX BETWEEN 7 AND 20 PERCENT, AND A MAXIMUM PARTICLE SIZE NOT EXCEEDING 2 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER.

5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 10 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.

6. SELECT FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LOOSE LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, WITH 2% OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY TEST METHOD ASTM D-698

7. SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
   A. ATTERBERG LIMITS OF SELECT FILL MATERIAL:
      (1) ONE TEST PER 5,000 CY
   B. COMPACTION TEST:
      TO BE PERFORMED PER LIFT ON TEST PER 3,000 SF MINIMUM
      OF (4) FOUR TEST PER LIFT

8. GEOTECHNICAL REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR TO REVIEW AND COMPLY WITH ALL EARTHWORK AND GRADING REQUIREMENT IN GEOTECHNICAL REPORT.

9. FINAL SITE GRADING TO SLOPE AWAY FROM THE STRUCTURE AND SHALL PREVENT WATER FROM PONDING IN THE AREAS ADJACENT TO THE STRUCTURE FOR A MINIMUM DISTANCE OF 10'-0". ANY PONDING CLOSE TO THE STRUCTURE MAY CREATE VOLUMETRIC CHANGES IN THE SOIL AND MAY LEAD TO LESS THAN OPTIMUM PERFORMANCE OF THE BUILDING FOUNDATION.

10. IT IS ALSO IMPORTANT TO MINIMIZE CHANGES IN MOISTURE CONTENT CREATED BY ROOF DRAINAGE, PLUMBING LEAKS, LANDSCAPING / IRRIGATION, AND DOWNSPOUT OUTFALLS. ANY PLUMBING LEAKS SHALL BE REPAIRED AS SOON AS POSSIBLE AND PROPER DRAINAGE PROVIDED AWAY FROM THE BUILDING. LARGE BUSHES AND TREES SHALL NOT BE PLACED IN AREAS DIRECTLY ADJACENT TO THE FOUNDATION AS THEIR ROOT SYSTEM MAY CREATE SUBSTANTIAL MOISTURE DIFFERENTIALS THAT MAY LEAD TO VOLUME CHANGES IN THE SOIL. LARGE BUSHES AND TREES SHOULD BE LOCATED AT A REASONABLE DISTANCE FROM THE FOUNDATION.



EXCAVATION PLAN

SCALE: NTS

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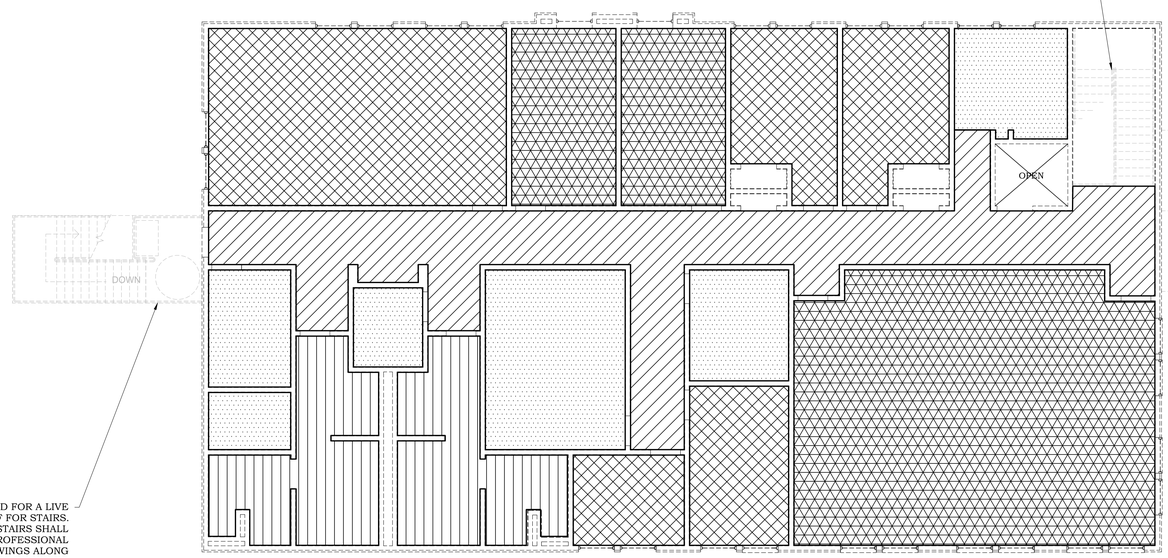
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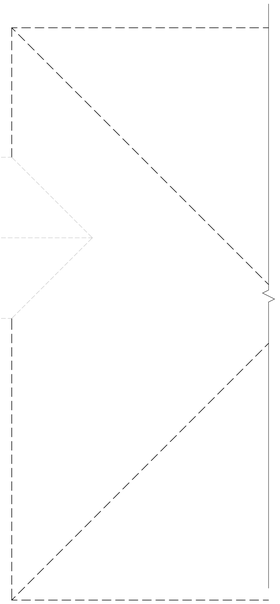
EXCAVATION PLAN

S-102

ALL STAIR AND LANDINGS SHALL BE DESIGNED FOR A LIVE LOAD OF 100 PSF AND DEAD LOAD OF 30 PSF FOR STAIRS. AND 50 PSF FOR DEAD LOAD FOR LANDINGS. STAIRS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER. SIGNED AND SEALED SHOP DRAWINGS ALONG WITH CALCULATIONS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL, TYP.



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FLOOR USE		LIVE LOAD
	OFFICE	50 psf
	RESTROOMS	60 psf
	CORRIDOR	80 psf
	ASSEMBLY	100 psf
	STORAGE/MECH. COMPUTER EQUIPMENT	150 psf

SECOND FLOOR LIVE LOAD PLAN

SCALE: NTS

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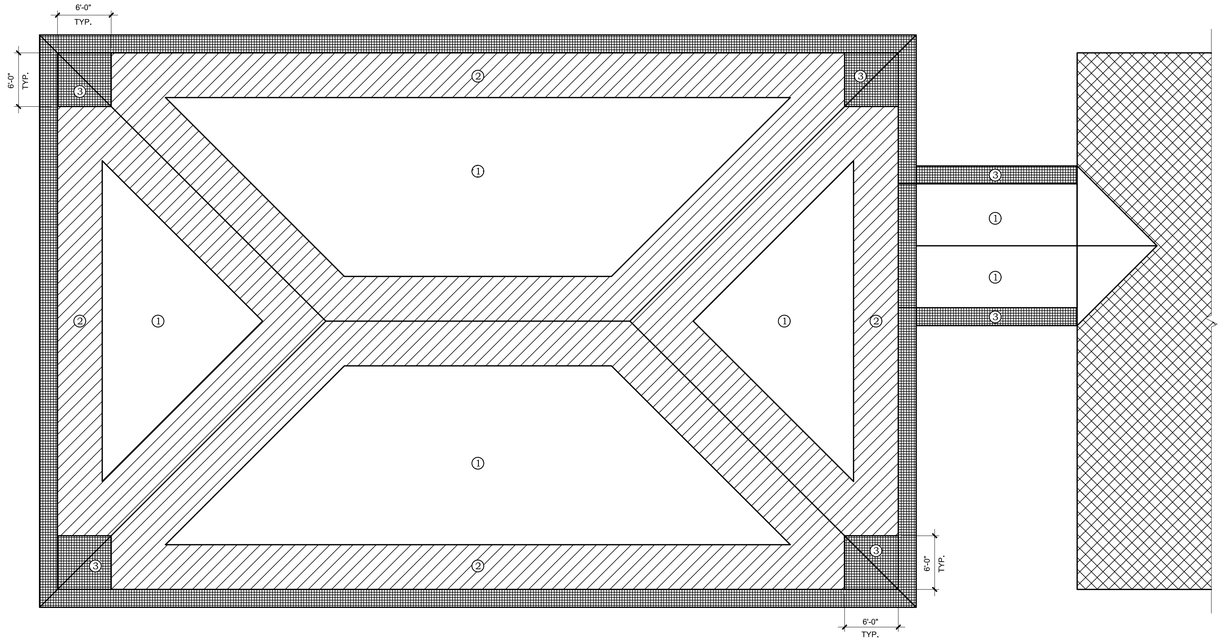
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2nd FLOOR LIVE LOAD PLAN

S-103



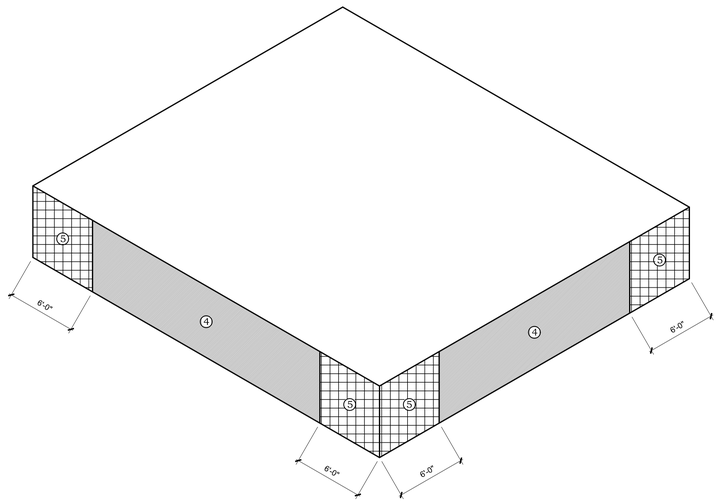
ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	1	- 29.1 psf	- 23.1 psf
20	1	- 28.3 psf	- 22.3 psf
50	1	- 27.2 psf	- 21.2 psf
10	2	- 50.7 psf	- 44.7 psf
20	2	- 46.6 psf	- 40.6 psf
50	2	- 41.2 psf	- 35.2 psf
10	3	- 75.0 psf	- 69.0 psf
20	3	- 70.1 psf	- 64.1 psf
50	3	- 63.7 psf	- 57.7 psf

WIND LOAD PLAN NOTES:
1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARLY INTERPOLATED.

N
PLAN NORTH

ROOF UPLIFT PLAN
SCALE: NTS



ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	4	± 34.5 psf
20	4	± 33.1 psf
50	4	± 31.2 psf
10	5	± 42.6 psf
20	5	± -39.7 psf
50	5	± 36.0 psf

WIND LOAD PLAN NOTES:
1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARLY INTERPOLATED.

COMPONENTS AND CLADDING
SCALE: NTS

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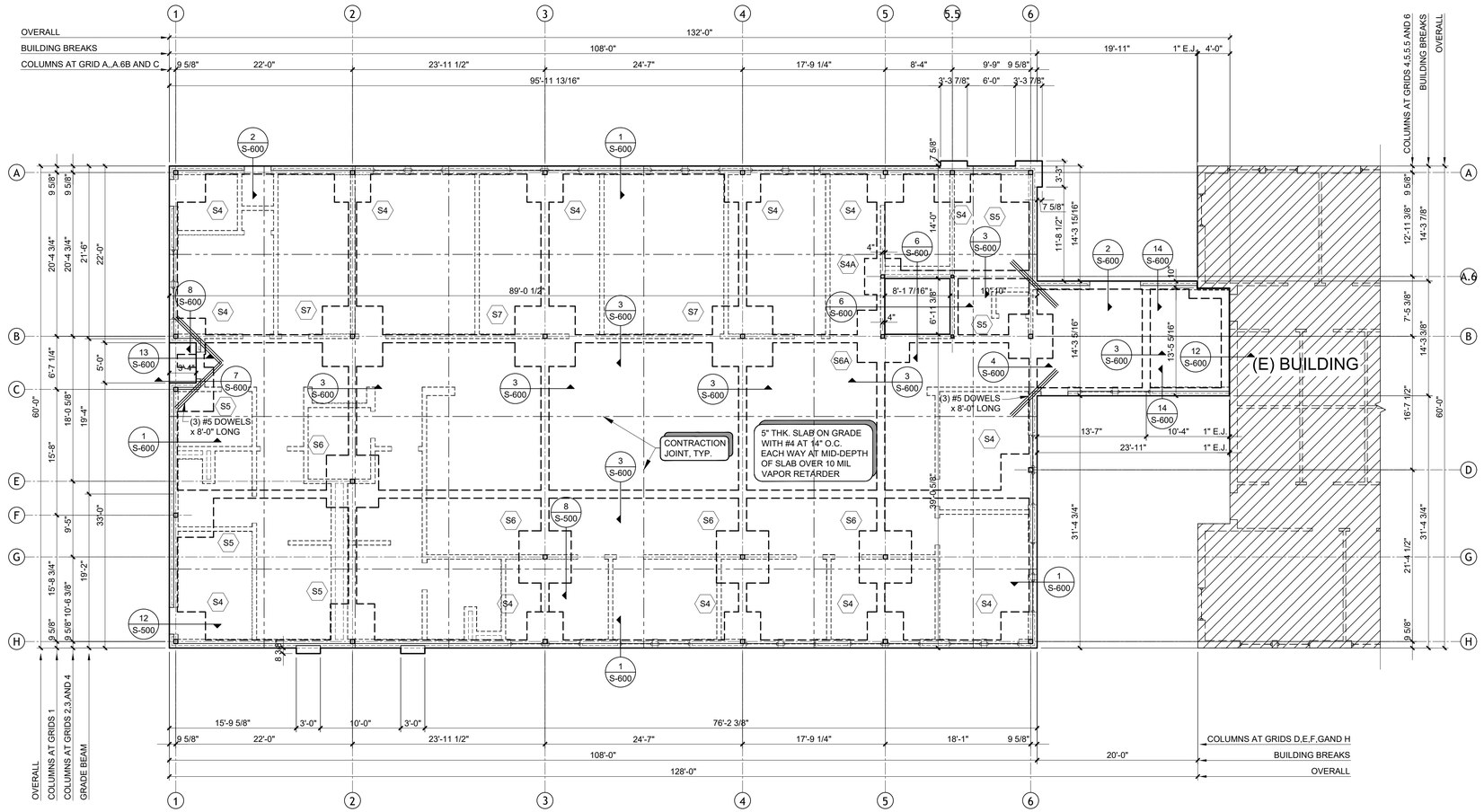
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ROOF UPLIFT PLAN

S-104



FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL AND MEP DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 7/S-500
5. [ ] INDICATES SLAB DEPRESSION, VERIFY EXACT DROP AND LOCATION WITH ARCH'L PLANS.
6. REFER TO SHEET S-201 FOR ALL COLUMN SIZES.

FOUNDATION PLAN

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

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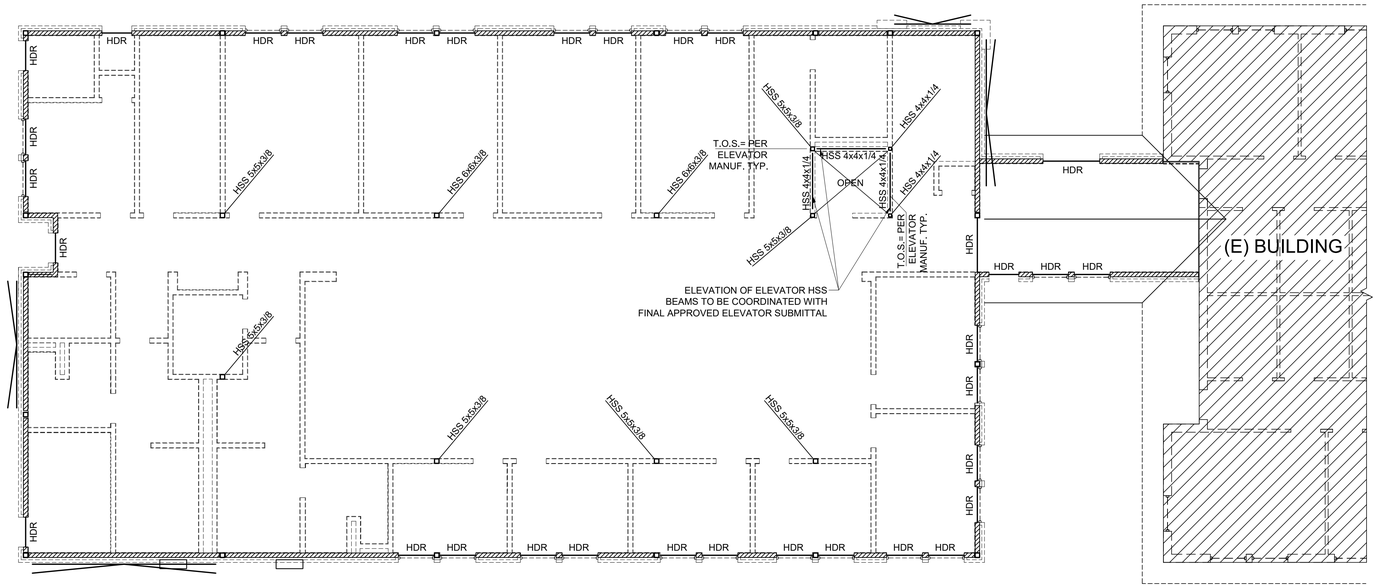
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FOUNDATION PLAN

S-200



NOTE: METAL STUD SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. METAL STUDS TO BE ENGINEERED PER GENERAL NOTES.

WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL METAL STUD WALL CONSTRUCTION SEE SHEET S-501.
3. ▨ INDICATES WALL FRAMED WITH 600S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
4. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
5. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN METAL STUD WALLS.
7. INDICATES K FRAME 1 SEE DETAIL 14/S-502.
8. ALL COLUMNS SHALL BE HSS 5x5x1/4 U.N.O.

1ST WALL LAYOUT PLAN

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

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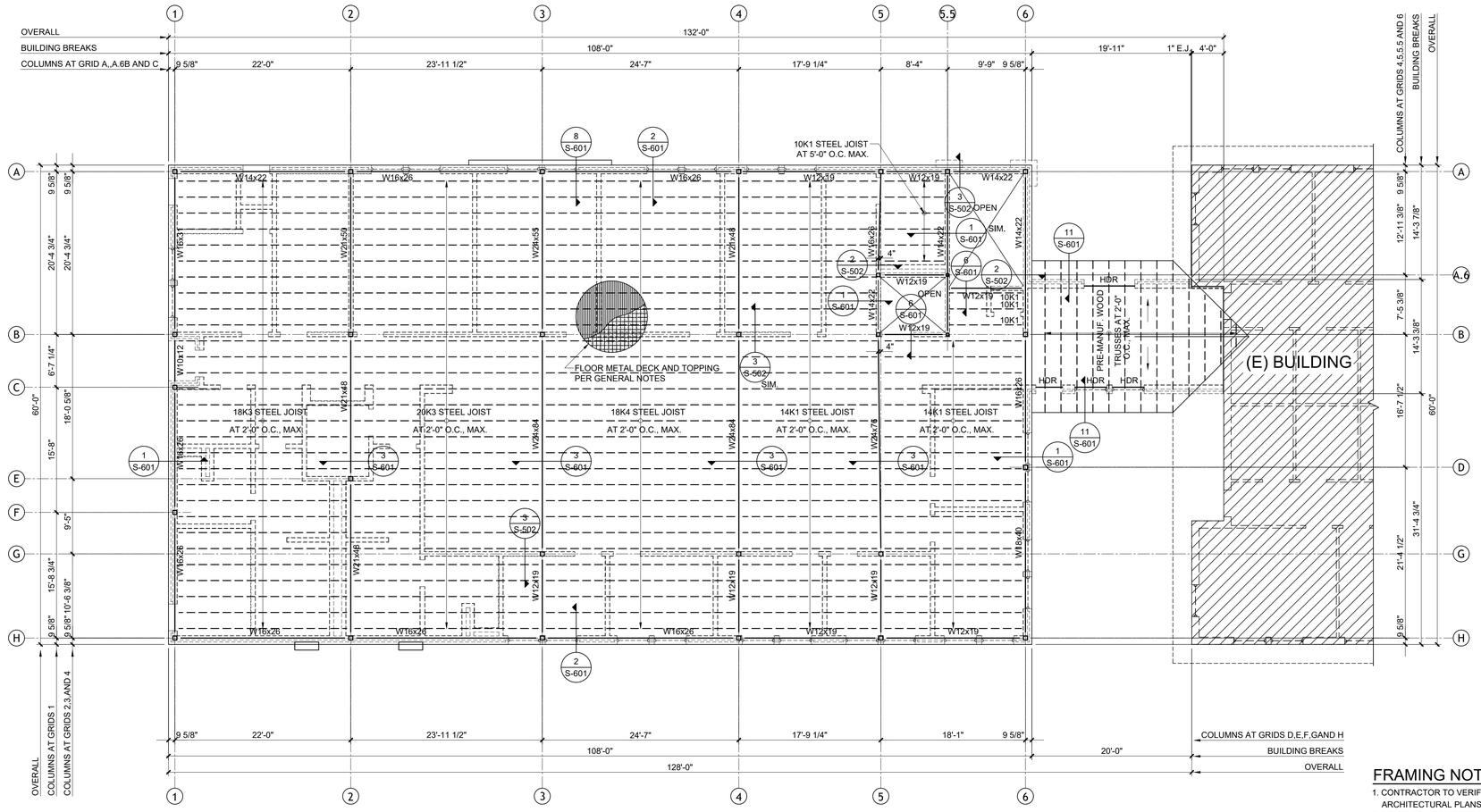
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1ST FLOOR WALL LAYOUT PLAN

S-201



FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. REFER TO SHEET S-201 FOR ALL STEEL COLUMN SIZES.
5. JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOIST AS REQUIRED BY S.J.I.
6. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
7. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
8. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

2ND FLOOR FRAMING PLAN

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

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BUILDING D EXPANSION

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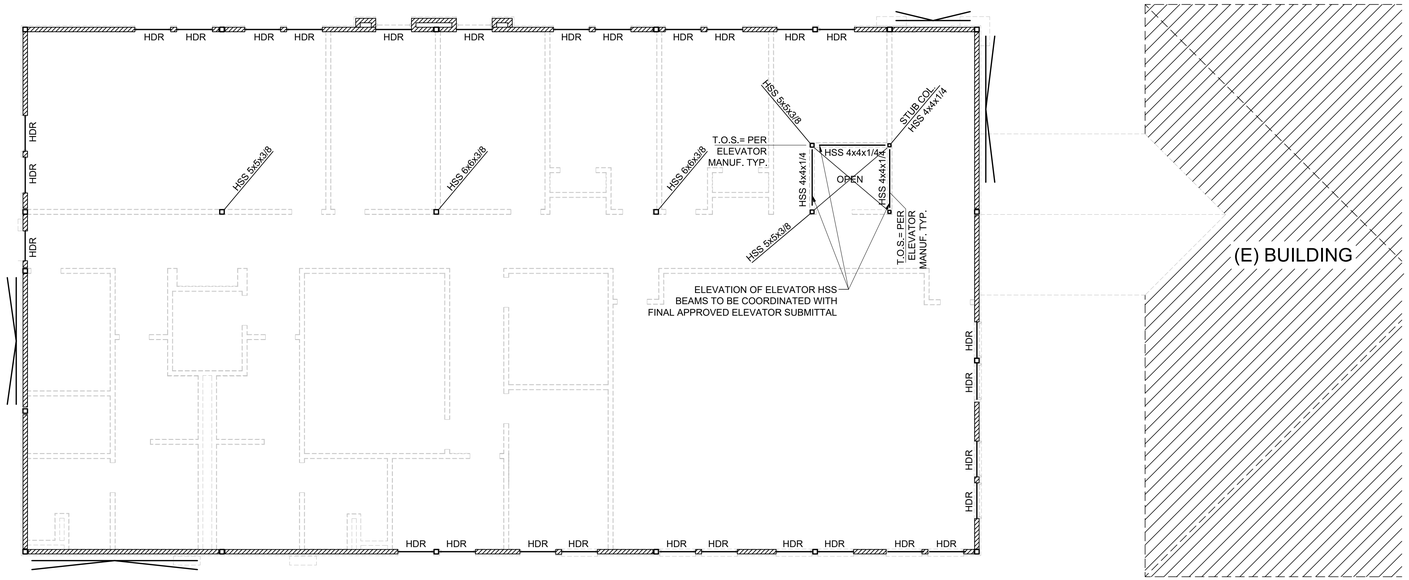
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Drawing Date:	6-5-2019
Drawn:	LR
Checked:	MC
Scale:	
ACAD File:	

Revisions:

Sheet Title:

2ND FLOOR FRAMING PLAN

S-300



NOTE: METAL STUD SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. METAL STUDS TO BE ENGINEERED PER GENERAL NOTES.

WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL METAL STUD WALL CONSTRUCTION SEE SHEET S-501.
3. ▨ INDICATES WALL FRAMED WITH 600S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
4. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
5. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN METAL STUD WALLS.
7. ⟋ INDICATES K FRAME 1 SEE DETAIL 14/S-502.
8. ALL COLUMNS SHALL BE HSS 5x5x1/4 U.N.O.

2ND FLOOR WALL LAYOUT PLAN

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

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Consultants:

CIVIL:
Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP:
Sigma HN Engineers, PLLC

CHANIN ENGINEERING, LLC
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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
6-05-19

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

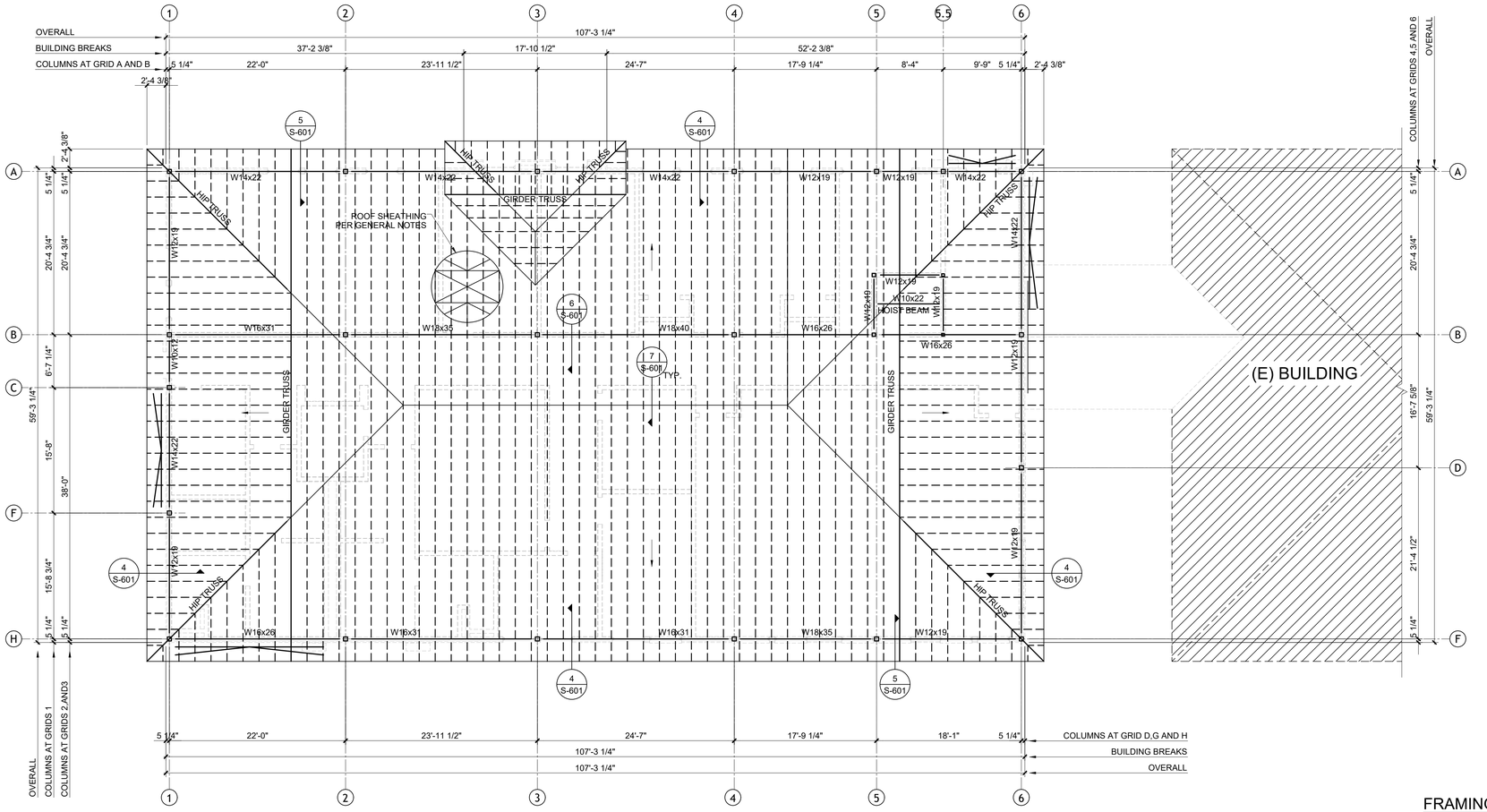
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Scale:	
ACAD File:	

Revisions:

Sheet Title:

2ND FLOOR WALL LAYOUT PLAN

S-301



FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. REFER TO SHEET S-201 FOR ALL STEEL COLUMN SIZES.
5. PRE-MANUFACTURED WOOD TRUSS MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR WOOD TRUSSES AS REQUIRED .
6. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
7. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
8. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

ROOF FRAMING PLAN

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

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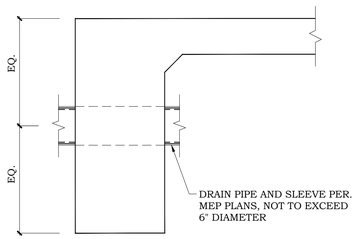
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ROOF FRAMING PLAN

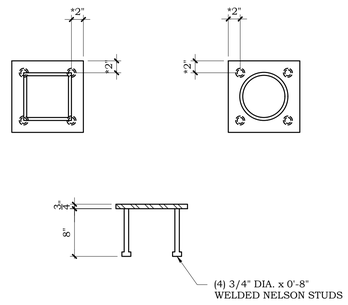
S-400

NOT USED 17

PIPE EXTERIOR FOOTING 13

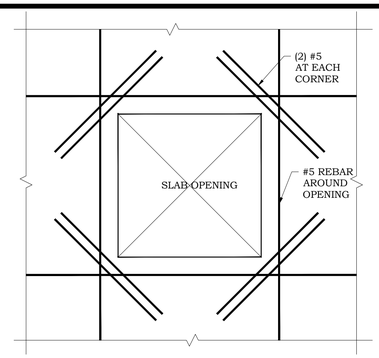


BASE PLATE DETAIL 9



NOTE: * DIMENSION FROM EDGE OF PLATE TO FACE OF COLUMN

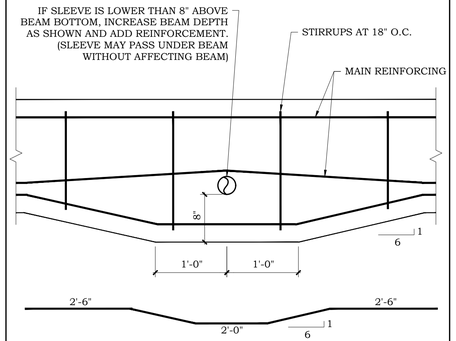
OPENINGS IN SLAB 5



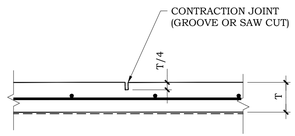
NOT USED 1

NOT USED 18

TYPICAL SLEEVE IN GRADE BEAM 14



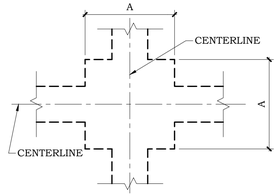
CONTRACTION JOINT DETAIL 10

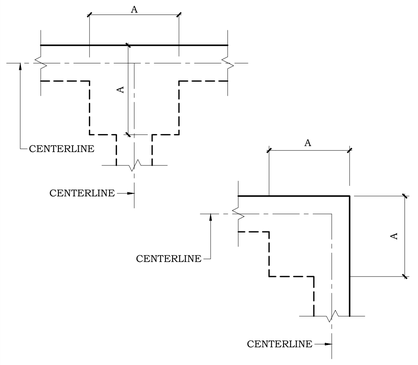


1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

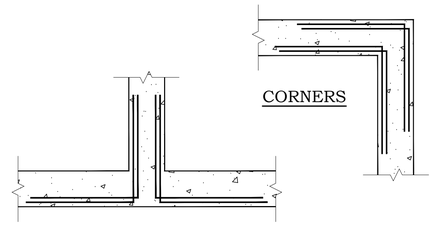
FOOTING SCHEDULE AT STEEL COLUMNS

TYPE	A	DEPTH	REBAR REINFORCEMENT
S2	2'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S3	3'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S4	4-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S5	5-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S6	6-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S7	7-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM

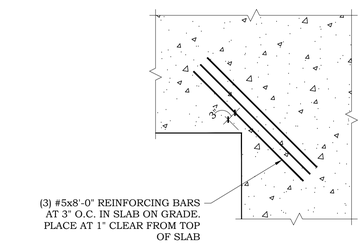




TYPICAL CORNER BARS 2

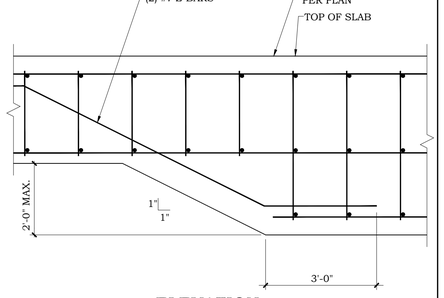


NOTE:
PROVIDE (4) #6 x 6'-0" CORNER BARS
(2-TOP & 2-BOTTOM) AS SHOWN IN DETAILS ABOVE



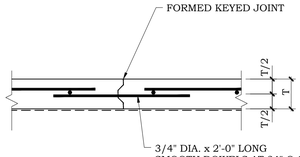
NOT USED 19

GRADE BEAM TRANSITION DETAIL 15



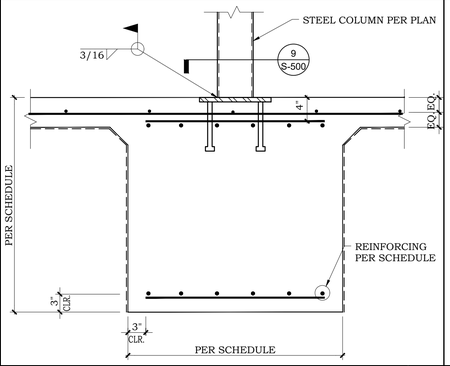
ELEVATION

CONSTRUCTION JOINT DETAIL 11



1. CONTRACTOR TO SUBMIT ANY PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. GRADE BEAM REINFORCING SHALL BE CONTINUOUS THRU JOINT

FOOTING SCHEDULE 7

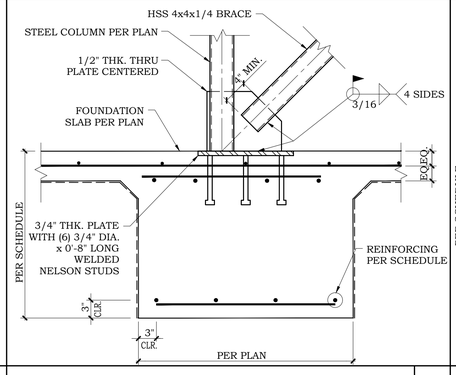


TYPICAL SLAB REINFORCING 3

NOT USED 20

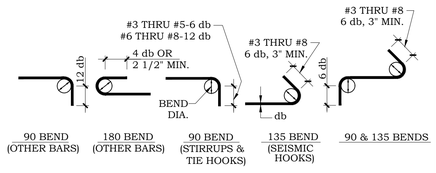
NOT USED 16

K-FRAME DETAIL 12



FOOTING AT STEEL COLUMN 8

STANDARD HOOKS 4



DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

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WESLACO, TEXAS

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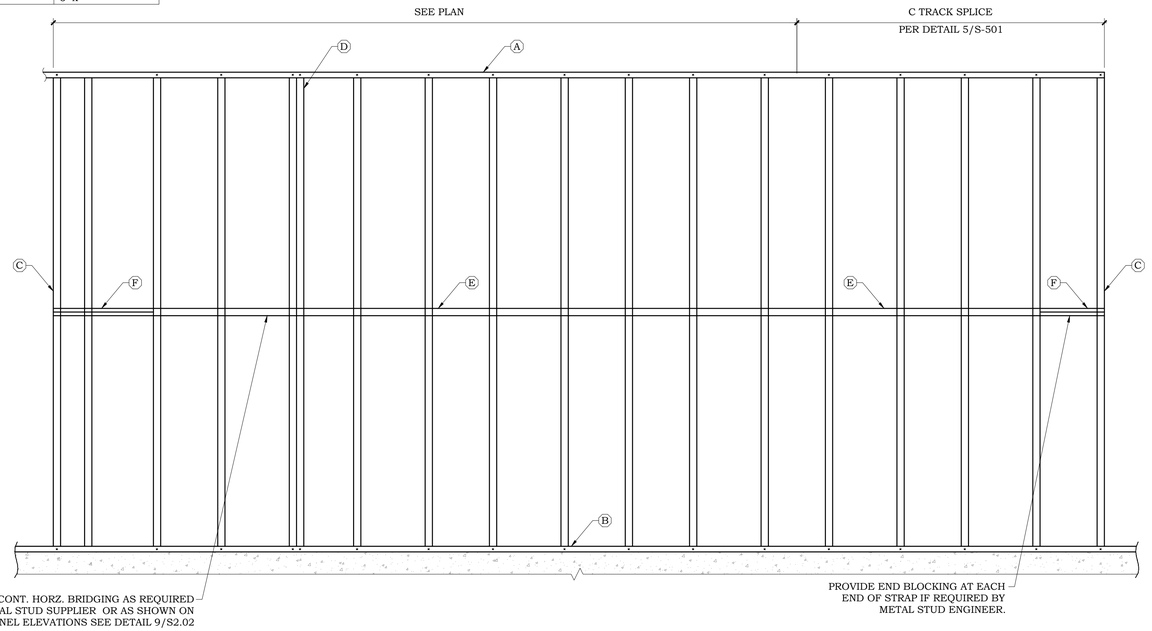
FOUNDATION DETAILS

S-500

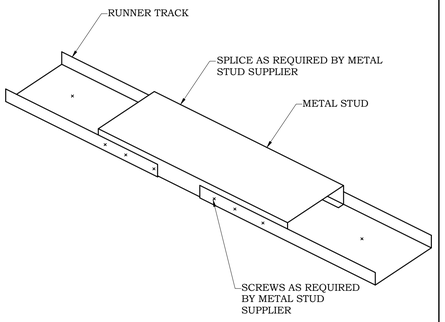
MARK	DESCRIPTION	SIZE(")
A.	TOP TRACK	6" x
B.	BOTTOM TRACK	6" x
C.	STUD	6" x
D.	DOUBLE STUD	(2) 6" x
E.	BRIDGING	1 1/2 x
F.	BLOCKING	6" x

NOTE:
1. MEMBER SIZES AND ATTACHMENTS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER. MEMBERS SHOWN IN THIS DETAILS ARE TYPICAL.

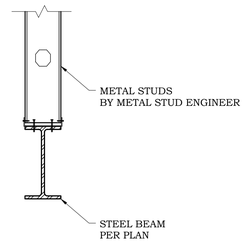
2. ALL STUDS SHALL BE SPACED AT A MAXIMUM OF 16" O.C.



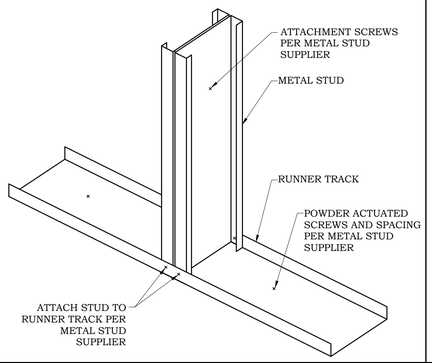
EXTERIOR METAL STUD WALL ELEVATION | 10



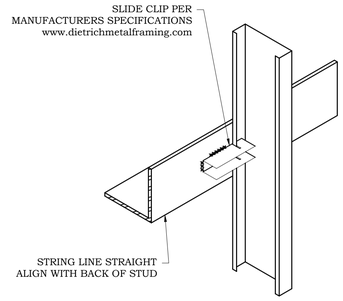
RUNNER TRACK SPLICE | 5



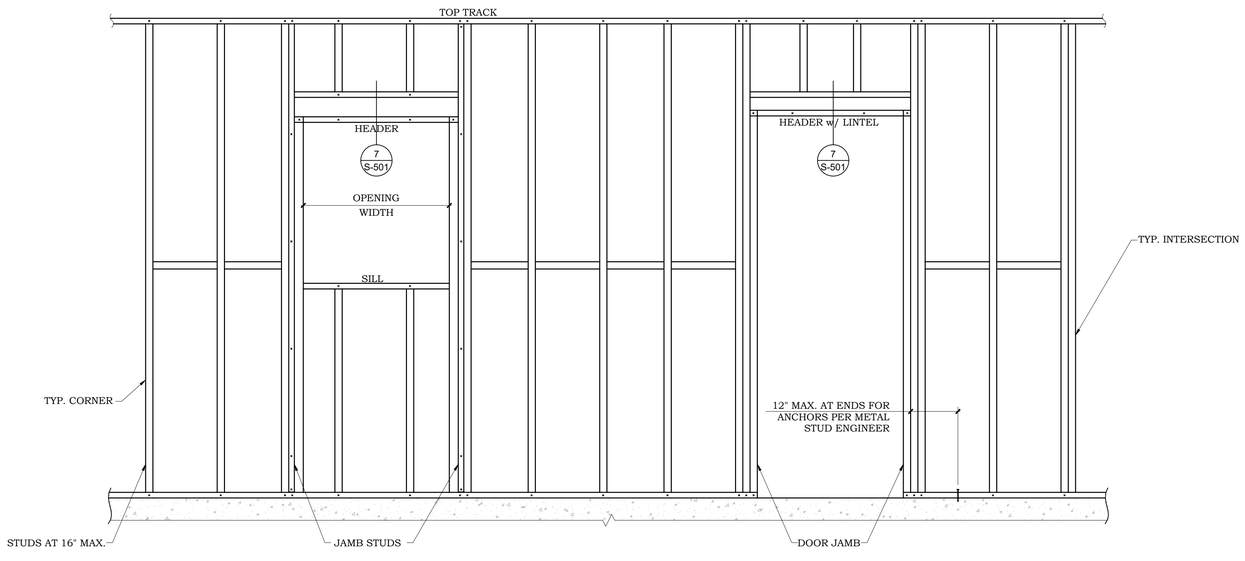
METAL STUD WALL TO STEEL BEAM | 1



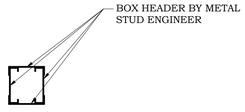
DOUBLE STUD ATTACHMENT TO RUNNER TRACK | 6



SLIDE CLIP DETAIL | 2

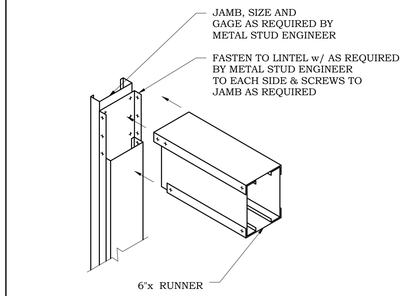


METAL STUD WALL ELEVATION WITH OPENING | 12

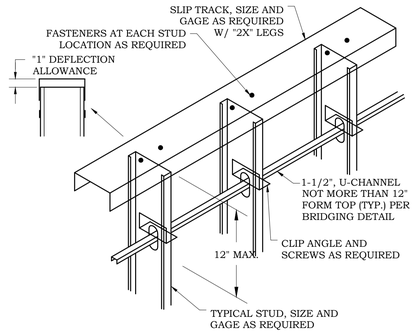


NOTE: FOR JAMB CONNECTION SEE DETAIL 3/S-501

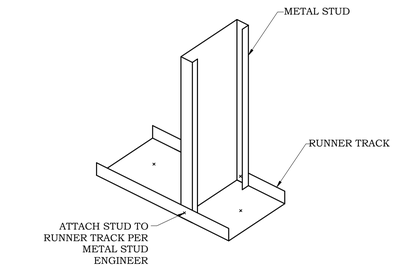
BOXED HEADER | 7



BOXED HEADER TO JAMB CONNECTION | 3



U-CHANNEL TO TYPICAL STUDS | 8



STUD ATTACHMENT TO RUNNER TRACK | 4

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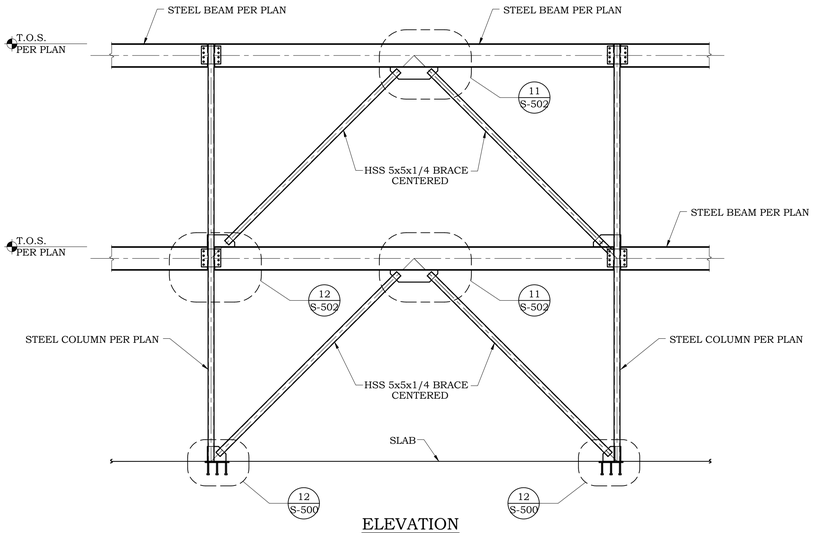
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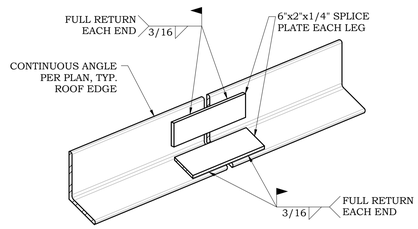
METAL STUD DETAILS

S-501

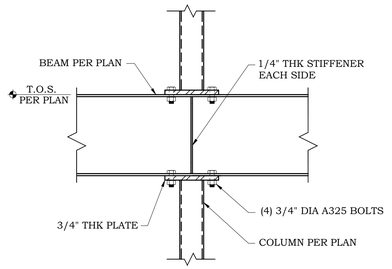


ELEVATION

K-FRAME 1 | 14

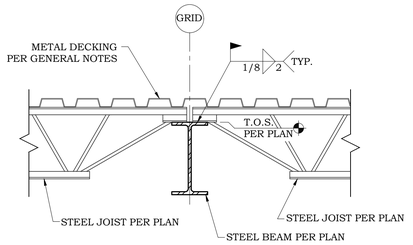


TYPICAL ROOF EDGE ANGLE SPLICE DETAIL | 9



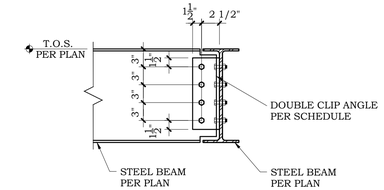
COLUMN TO STEEL BEAM | 5

NOT USED | 1



NOTE: OFFSET STEEL JOISTS AS REQUIRED TO ACHIEVE PROPER BEARING.

STEEL JOIST TO STEEL BEAM CONNECTION | 6

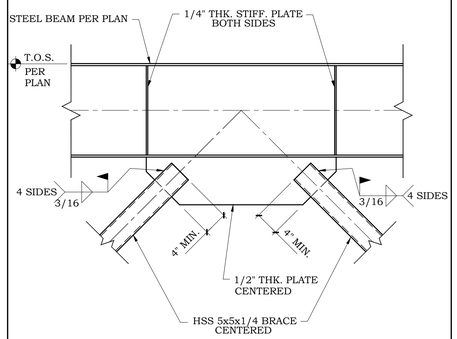


BEAM SIZE	NUMBER OF ROWS/ SIZE OF BOLTS	CLIP ANGLE
W8, W10	(2) 3/4" DIA. A325	∠4x3 1/2 x1/4
W12, W14	(3) 3/4" DIA. A325	∠4x3 1/2 x1/4
W16	(4) 3/4" DIA. A325	∠4x3 1/2 x1/4
W18	(5) 3/4" DIA. A325	∠4x3 1/2 x1/4
W21	(6) 3/4" DIA. A325	∠4x3 1/2 x1/4
W24	(7) 3/4" DIA. A325	∠4x3 1/2 x1/4
W27	(8) 3/4" DIA. A325	∠4x3 1/2 x1/4
W30	(9) 3/4" DIA. A325	∠4x3 1/2 x1/4

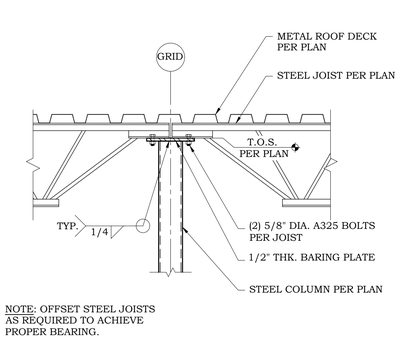
STEEL BEAM TO STEEL BEAM CONNECTION | 2

NOT USED | 19

NOT USED | 15

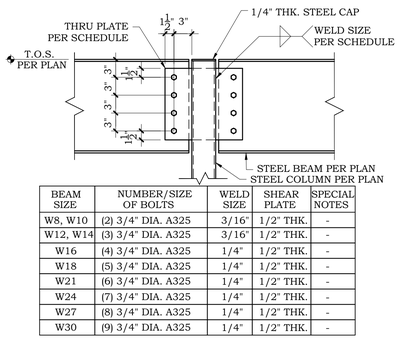


K-FRAME DETAIL | 11



NOTE: OFFSET STEEL JOISTS AS REQUIRED TO ACHIEVE PROPER BEARING.

TYPICAL STEEL JOIST TO STEEL COLUMN | 7

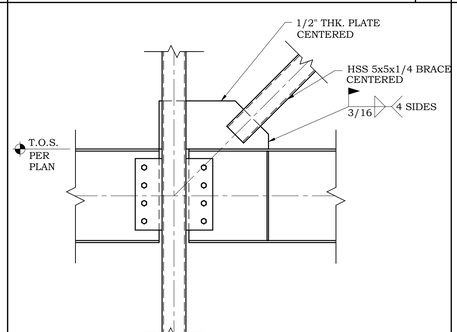


BEAM SIZE	NUMBER/SIZE OF BOLTS	WELD SIZE	SHEAR PLATE	SPECIAL NOTES
W8, W10	(2) 3/4" DIA. A325	3/16"	1/2" THK.	-
W12, W14	(3) 3/4" DIA. A325	3/16"	1/2" THK.	-
W16	(4) 3/4" DIA. A325	1/4"	1/2" THK.	-
W18	(5) 3/4" DIA. A325	1/4"	1/2" THK.	-
W21	(6) 3/4" DIA. A325	1/4"	1/2" THK.	-
W24	(7) 3/4" DIA. A325	1/4"	1/2" THK.	-
W27	(8) 3/4" DIA. A325	1/4"	1/2" THK.	-
W30	(9) 3/4" DIA. A325	1/4"	1/2" THK.	-

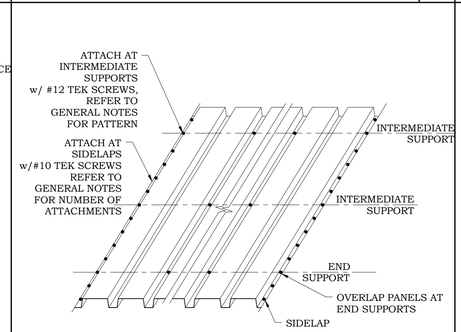
STEEL COLUMN TO STEEL BEAM CONNECTION | 3

NOT USED | 20

NOT USED | 16



K-FRAME DETAIL | 12



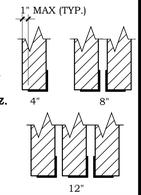
TYPICAL METAL DECK ATTACHMENT | 8

STEEL LINTEL SCHEDULE

SIZE (MIN.-NOTE 4)	CLEAR OPNG. GREATER THAN	CLEAR OPNG. UP TO	REMARKS
∠4x4x3/8	----	8'-0"	MIN. OF 8" BEARING AT EACH END
∠6x4x3/8	8'-0"	11'-0"	MIN. OF 8" BEARING AT EACH END
∠7x4x3/8	11'-0"	12'-0"	MIN. OF 8" BEARING AT EACH END
∠8x4x1/2	12'-0"	14'-0"	MIN. OF 8" BEARING AT EACH END

NOTES:

1. PROVIDE ONE MEMBER FOR EACH 4" (NORMAL) WIDTH OF MASONRY
2. INSTALL ALL LOOSE LINTELS WITH LONG LEG VERT.
3. PROVIDE SHORING UNDER LINTELS OVER 8'-0" LONG UNTIL GROUT HAS SET 72 HOURS.
4. **ANGLE SIZE IS MIN. COORDINATE REQUIRED HORIZ. LEG DIMENSION w/ ARCH. DRAWING.**



TYPICAL LINTEL DETAILS

- FOR SUPPORT OF MASONRY WEIGHT ONLY.
- DEFLECTION AT ℄ L/600.
- LINTELS SHALL BE GALVANIZED STEEL.

STEEL LINTEL SCHEDULE | 4

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PROFESSIONAL ENGINEER
6-05-19

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WESLACO, TEXAS

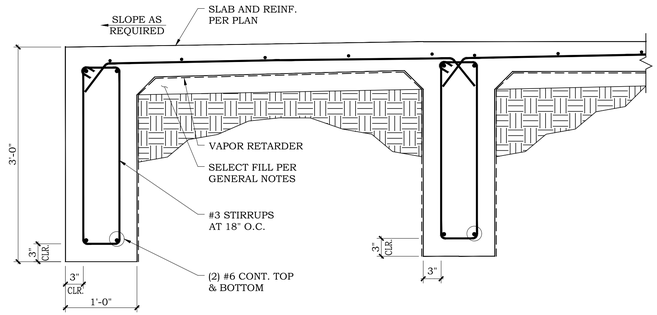
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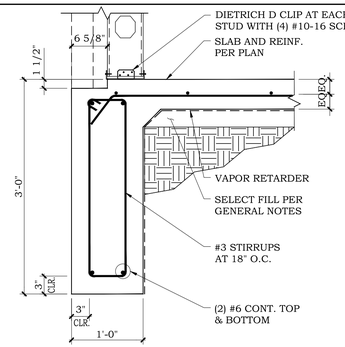
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TYPICAL STEEL DETAILS

S-502

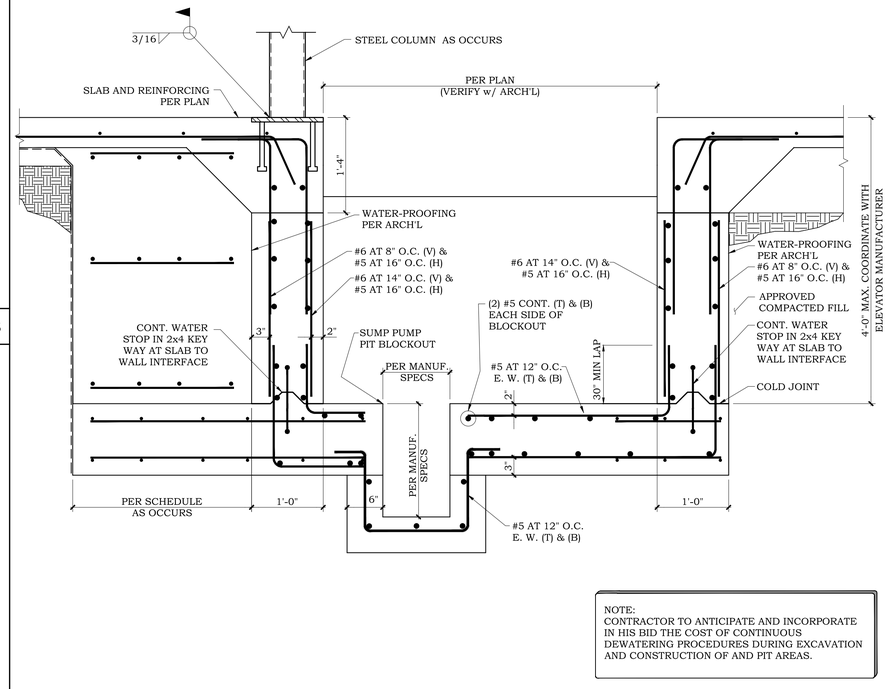


EXTERIOR GRADE BEAM | 13



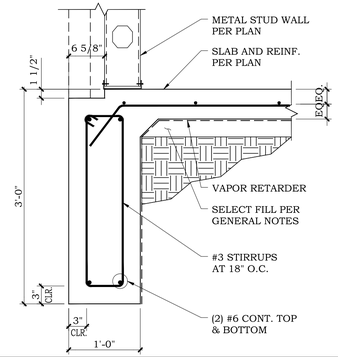
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EXTERIOR GRADE BEAM | 14

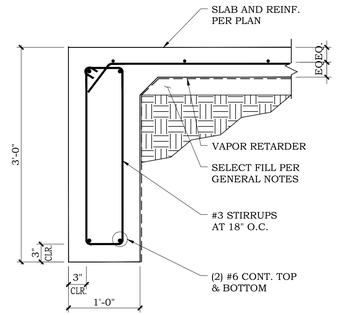


NOTE:
CONTRACTOR TO ANTICIPATE AND INCORPORATE IN HIS BID THE COST OF CONTINUOUS DEWATERING PROCEDURES DURING EXCAVATION AND CONSTRUCTION OF AND PIT AREAS.

ELEVATOR PIT | 6



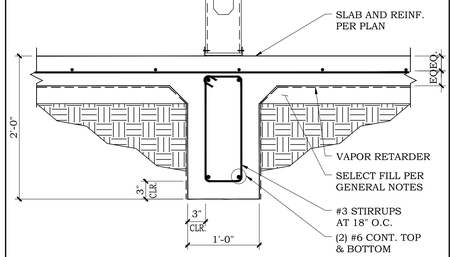
EXTERIOR GRADE BEAM | 1



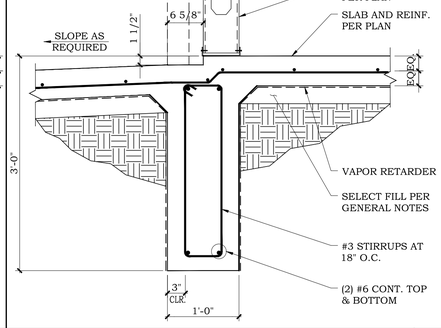
EXTERIOR GRADE BEAM | 2

NOT USED | 19

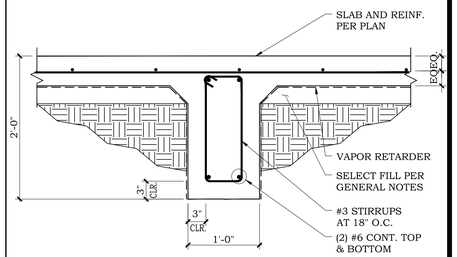
NOT USED | 15



INTERIOR GRADE BEAM | 11



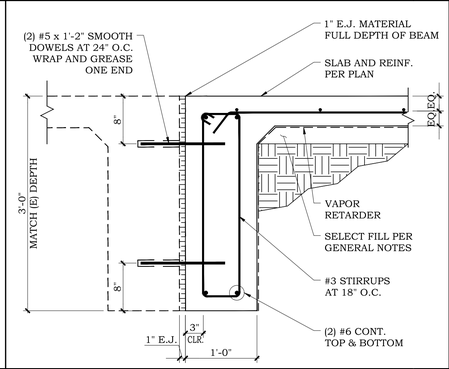
EXTERIOR GRADE BEAM | 7



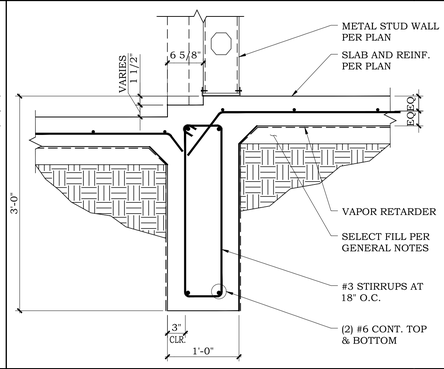
INTERIOR GRADE BEAM | 3

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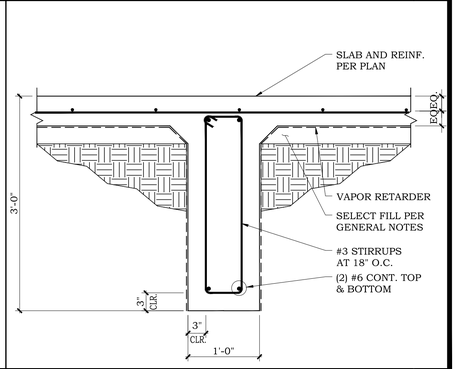
NOT USED | 16



EXPANSION JOINT DETAIL | 12



EXTERIOR GRADE BEAM | 8



INTERIOR GRADE BEAM | 4

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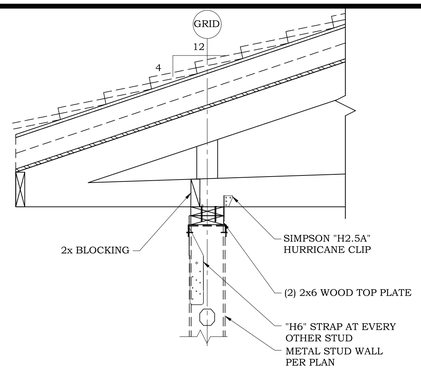
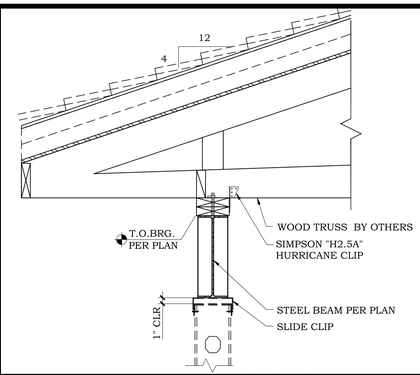
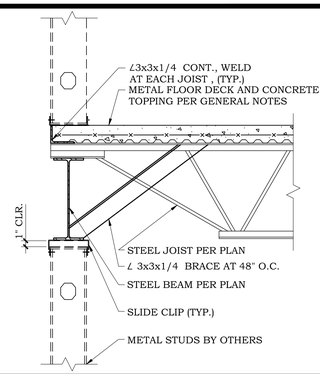
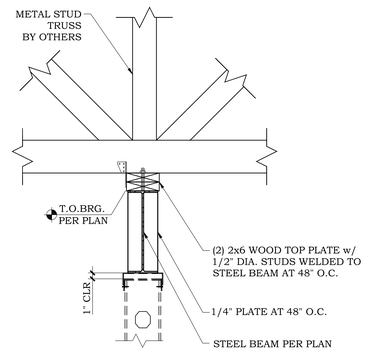
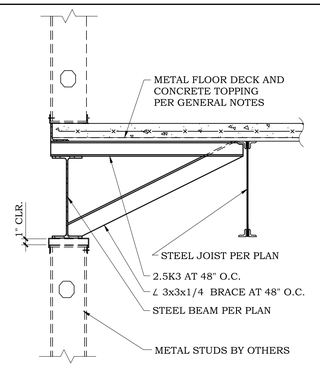
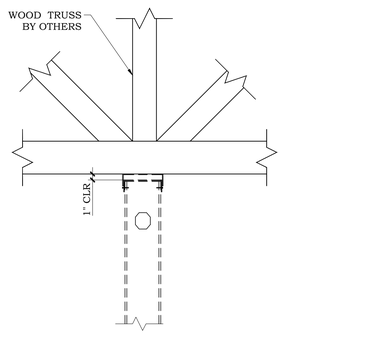
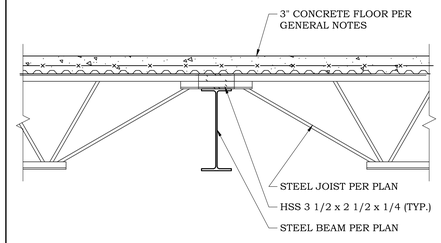
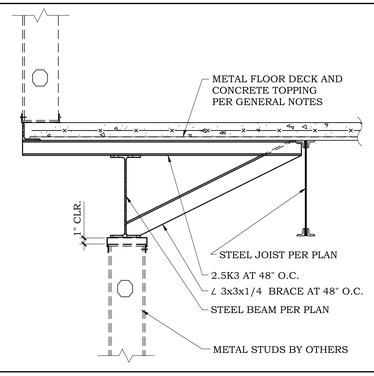
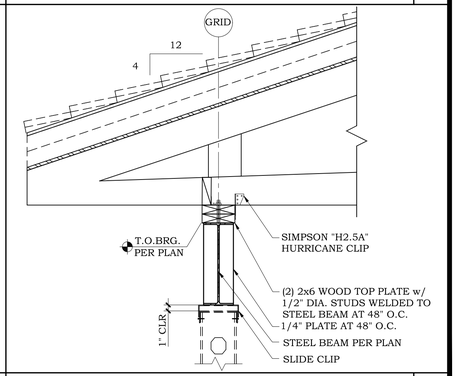
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Drawn: LR
Checked: MC
Scale:
ACAD File:

Revisions:

Sheet Title:

FOUNDATION DETAILS

S-600

									
NOT USED	17	NOT USED	13	WOOD TRUSS TO METAL STUD WALL	9	WOOD STUD GIRDER TRUSS TO STEEL BEAM	5	STEEL JOIST TO STEEL BEAM	1
								
NOT USED	18	NOT USED	14	NOT USED	10	WOOD TRUSS TO STEEL BEAM	6	STEEL JOIST TO STEEL BEAM	2
							 NOTE: OFFSET STEEL JOISTS AS REQUIRED TO ACHIEVE PROPER BEARING.	
NOT USED	19	NOT USED	15	NOT USED	11	WOOD TRUSS TO METAL STUD	7	STEEL JOIST TO STEEL BEAM	3
								
NOT USED	20	NOT USED	16	NOT USED	12	STEEL JOIST TO STEEL BEAM	8	WOOD TRUSS TO STEEL BEAM	4

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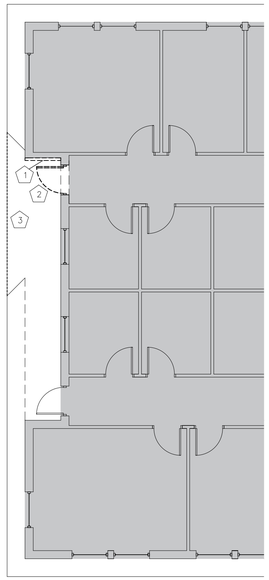
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FRAMING DETAILS

S-601



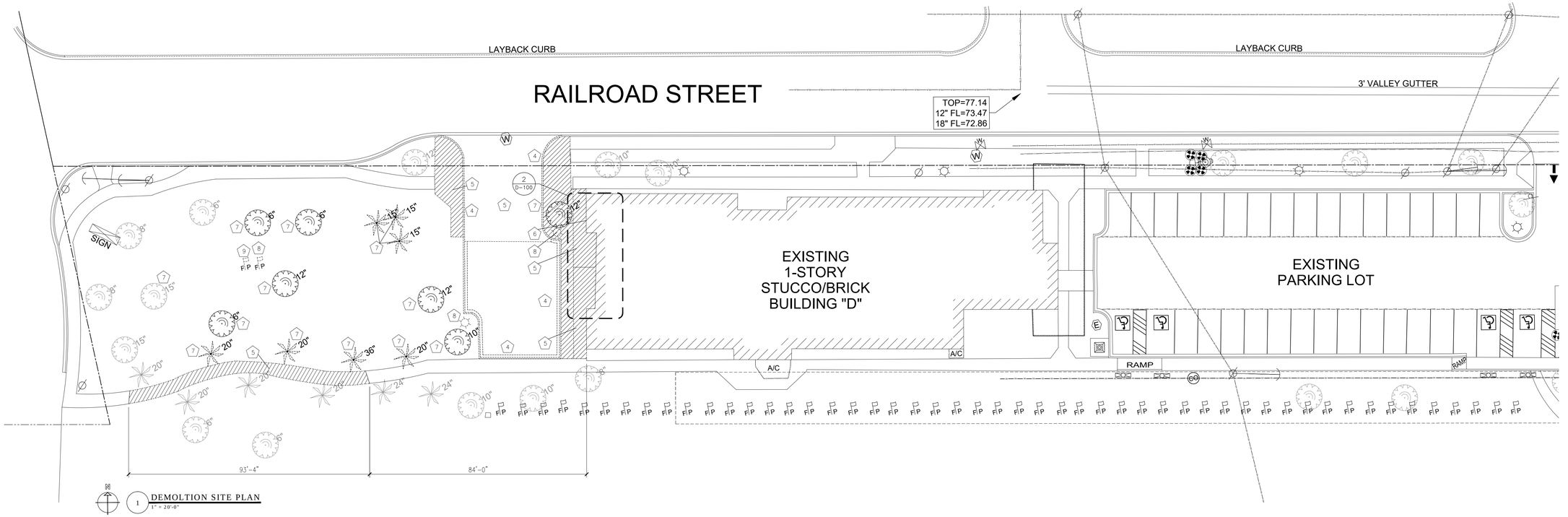
2 DEMOLTION FLOOR PLAN
1/8" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL CONSISTING OF MASONRY VENEER. REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS.
2. REMOVE EXISTING DOOR. EXISTING FRAME TO REMAIN.
3. REMOVE EXISTING PORTION OF ROOF. REFER TO PROPOSED ROOF PLAN FOR EXTENTS OF NEW ROOF.
4. SAW CUT AND REMOVE EXISTING CURB AND/OR GUTTER TO ACCOMMODATE FOR NEW CURB AS SHOWN ON PROPOSED SITE PLAN. PATCH AND REPAIR AS REQUIRED.
5. REMOVE EXISTING CONCRETE SLAB OR FLATWORK. REFER CIVIL FOR ADDITIONAL NOTES.
6. REMOVE EXISTING HAND RAIL / GUARD RAIL.
7. EXISTING TREES TO BE REMOVED. REFER TO LANDSCAPE PLANS FOR RELOCATION.
8. REMOVE EXISTING LIGHT POLE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL NOTES.
9. REMOVE EXISTING FLAG POLE; RETURN TO OWNER.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZED WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. REFER TO CIVIL, STRUCTURAL, & MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION NOTES.
3. THE OWNER HAS FIRST RIGHT OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THIS CONTRACT SHALL NOT BE REUSED IN THE NEW CONSTRUCTION, UNLESS OTHERWISE NOTED. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH FED., STATE, & LOCAL REGULATIONS.
4. FIELD VERIFY LOCATIONS OF ALL EXISTING EXTERIOR PUBLIC ADDRESS SPEAKERS, INTERCOM SPEAKERS, PLUGS, SWITCHES, HOSE BIBS, LIGHTS AND CONTROLS PRIOR TO DEMOLITION. THESE SYSTEMS MUST BE PUT BACK IN FUNCTIONING ORDER.
5. STRUCTURAL INTEGRITY: PROVIDE SUPPORT FOR THE EXISTING STRUCTURE BEFORE PERFORMING ANY ALTERATION THERETO.
6. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS: NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, SHALL RECEIVE LOOSE STEEL LINTELS, MINIMUM 8" BEARING.
7. CUTTING AND PATCHING: PROVIDE MATERIALS FOR CUTTING & PATCHING WHICH WILL RESULT IN EQUAL OR BETTER WORK THAN THAT BEING CUT OR PATCHED.
8. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE ANY EXISTING CONSTRUCTION THAT IS TO REMAIN. FLOORS, WALLS AND CEILINGS ARE TO BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
9. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
10. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHINGS, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS & MADE READY TO RECIEVE NEW FINISHINGS. IN ACCORDANCE WITH FINISH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS INCLUDING LEVEL 4 PLUMB TOLERANCES. REFER TO ROOM FINISH SCHEDULE SHEETS FOR TYPES & LOCATIONS OF NEW FINISHES.
11. ALL FLOOR FINISHES BEING REPLACED, SHALL BE COMPLETELY REMOVED & THE FLOOR CLEANED & PROPERLY PREPARED PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL FLOORS THAT RECEIVE NEW FINISHES PRIOR TO BID. FLOORS SHALL BE PATCHED, FILLED, & STRIPPED AS REQ'D. TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF ALL BURRS OR ADHESIVE & SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL. ANY UNDER CUTTING OF DOORS REQ'D. TO ACCOMODATE NEW FLOOR FINISHES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. WHERE NEW CONCRETE TOPPING IS TO BE POURED OVER AN EXISTING CONCRETE SLAB: BUSH HAMMER THE EXISTING CONCRETE FINISH FOR BETTER BOND.
13. WHERE EXISTING MASONRY ABUTS NEW MASONRY: EXISTING MASONRY SHALL BE TOOTHED TO RECEIVE NEW MASONRY (U.O.N.). NEW MASONRY SHALL MATCH EXISTING COURSING (TYP.)
14. WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED: PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING.(U.O.N.)
15. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES.



1 DEMOLTION SITE PLAN
1" = 20'-0"

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STRUCTURAL:
Chanin Engineering LLC

MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT
ANTHONY D. GIGNAC
STATE OF TEXAS
6296

EXPIRATION DATE
11/30/2019

SIGNED
06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL
EST 1967
WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

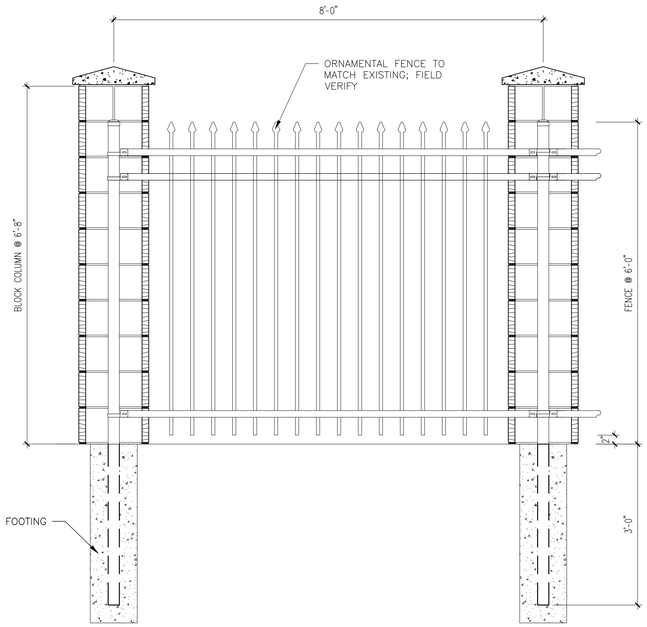
WESLACO, TEXAS

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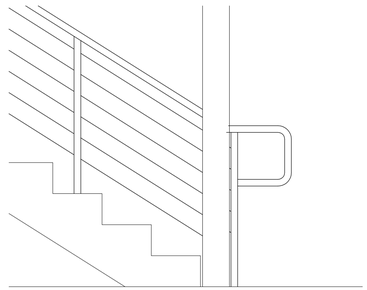
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Sheet Title:
DEMOLITION SITE & FLOOR PLAN

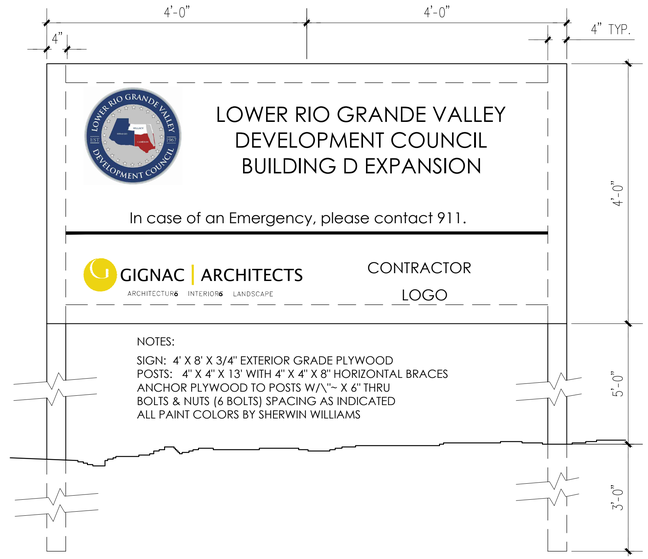
D-100



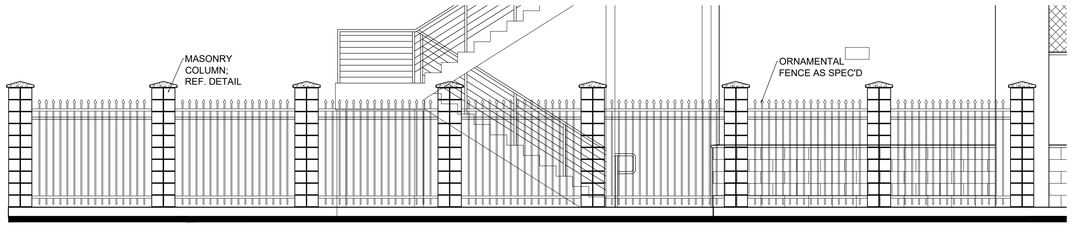
5 FENCE SECTION DETAIL
3/4" = 1'-0"



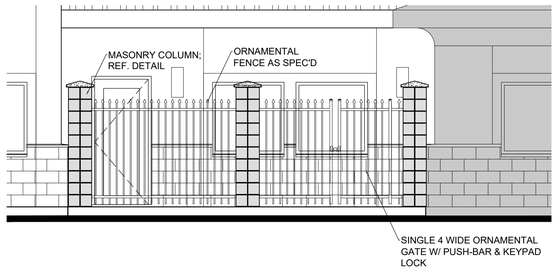
6 STAIR & RAILING DETAIL
3/4" = 1'-0"



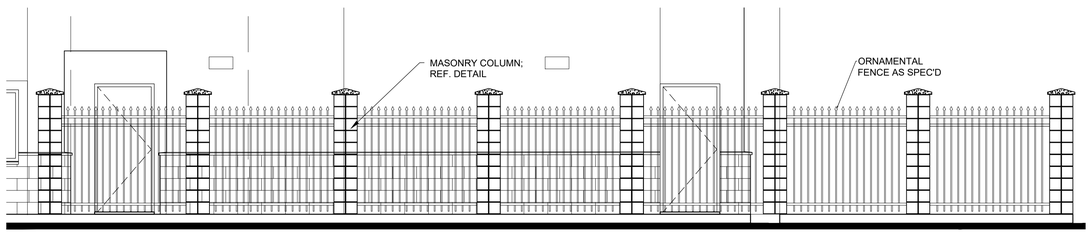
7 CONSTRUCTION SIGN
3/4" = 1'-0"



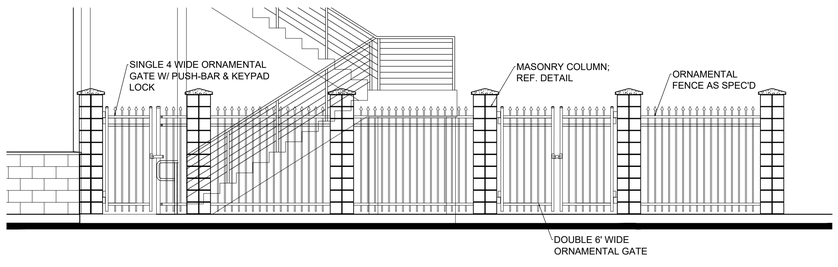
3 MECH. YARD – SOUTH ELEVATION
3/16" = 1'-0"



4 COURTYARD – SOUTH ELEVATION
3/16" = 1'-0"



1 MECH. YARD – WEST ELEVATION
3/16" = 1'-0"



2 MECH. YARD – NORTH ELEVATION
3/16" = 1'-0"

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CONSULTANTS

CIVIL: Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

SIGNED
06/05/2019

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

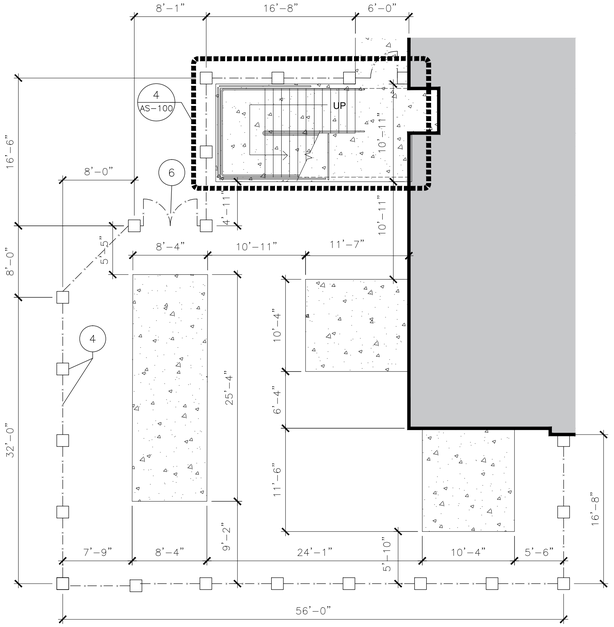
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	CQ
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Scale:	VARIOUS
ACAD File:	AS-101

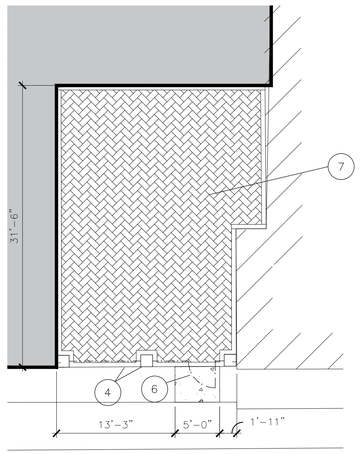
Revisions:

Sheet Title:
FENCE DTLS. & MISC. SITE DETAILS

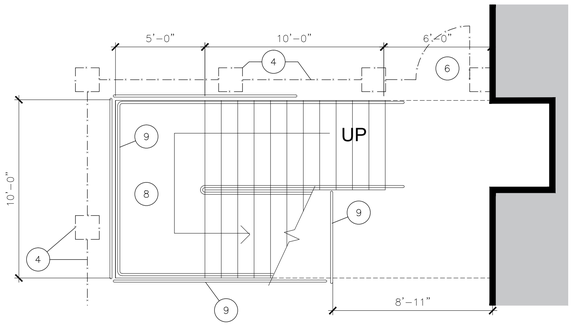
AS-101



2 MECHANICAL YARD PLAN
1/8" = 1'-0"



3 COURTYARD PLAN
1/8" = 1'-0"



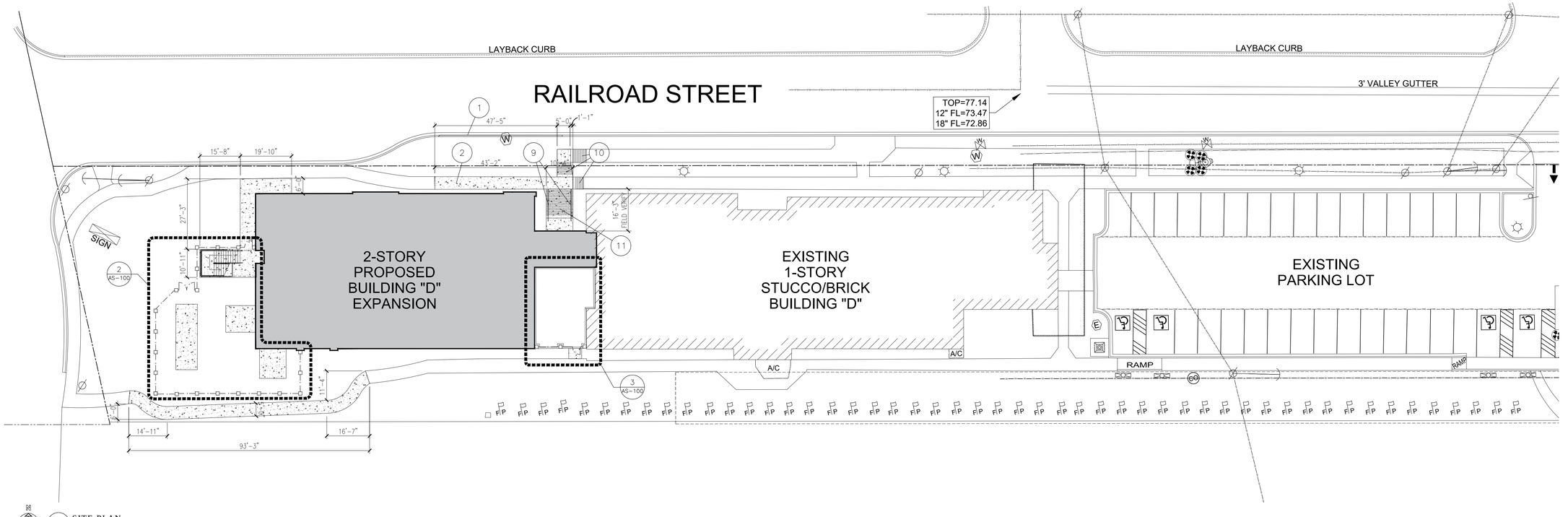
4 EXTERIOR STAIR ENL. PLAN
1/4" = 1'-0"

GENERAL SITE NOTES

1. EXISTING TREES NOT SHOWN FOR CLARITY.
2. REFER TO TOPOGRAPHICAL SURVEY FOR UTILITY INFO.

SITE KEY NOTES

1. NEW CURB AND GUTTER. REFER CIVIL. PAINT CURB IN ACCORDANCE WITH LOCAL REGULATORY AUTHORITIES.
2. NEW CONCRETE FLATWORK. MAXIMUM SLOPE 2%, SURFACE TO BE FLUSH W/ ADJOINING FLATWORK, SLAB OR CURB. CONTROL JOINTS AT 5'-0" O.C.
3. ASPHALT; REFER CIVIL DRAWINGS.
4. MASONRY COLUMNS & ORNAMENTAL FENCE. REFER SITE DETAILS.
5. NOT USED
6. ORNAMENTAL SWINGING GATE(S)
7. BRICK PAVERS; MATCH EXISTING PATTERN
8. STEEL STAIRWAY; REF. SITE DETAILS
9. 36" HIGH RAILING; REF. ADA GUIDELINES.
10. SIDEWALK RAMP; REF. CIVIL.
11. H/C RAMP; REF. CIVIL & ADA GUIDELINES



1 SITE PLAN
1" = 20'-0"

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STRUCTURAL:
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MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

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LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

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Sheet Title:
PROPOSED SITE PLAN & ENL. PLANS

AS-100

GENERAL CONSTRUCTION NOTES

1. REFER TO SHEET A-104 FOR WALL TYPES.
2. FURNITURE AND EQUIPMENT SHALL BE PROVIDED & INSTALLED BY OWNER.
3. ALL OUTSIDE CORNERS TO HAVE STAINLESS STEEL CORNER GUARDS AS SPEC'D

KEY NOTE LEGEND

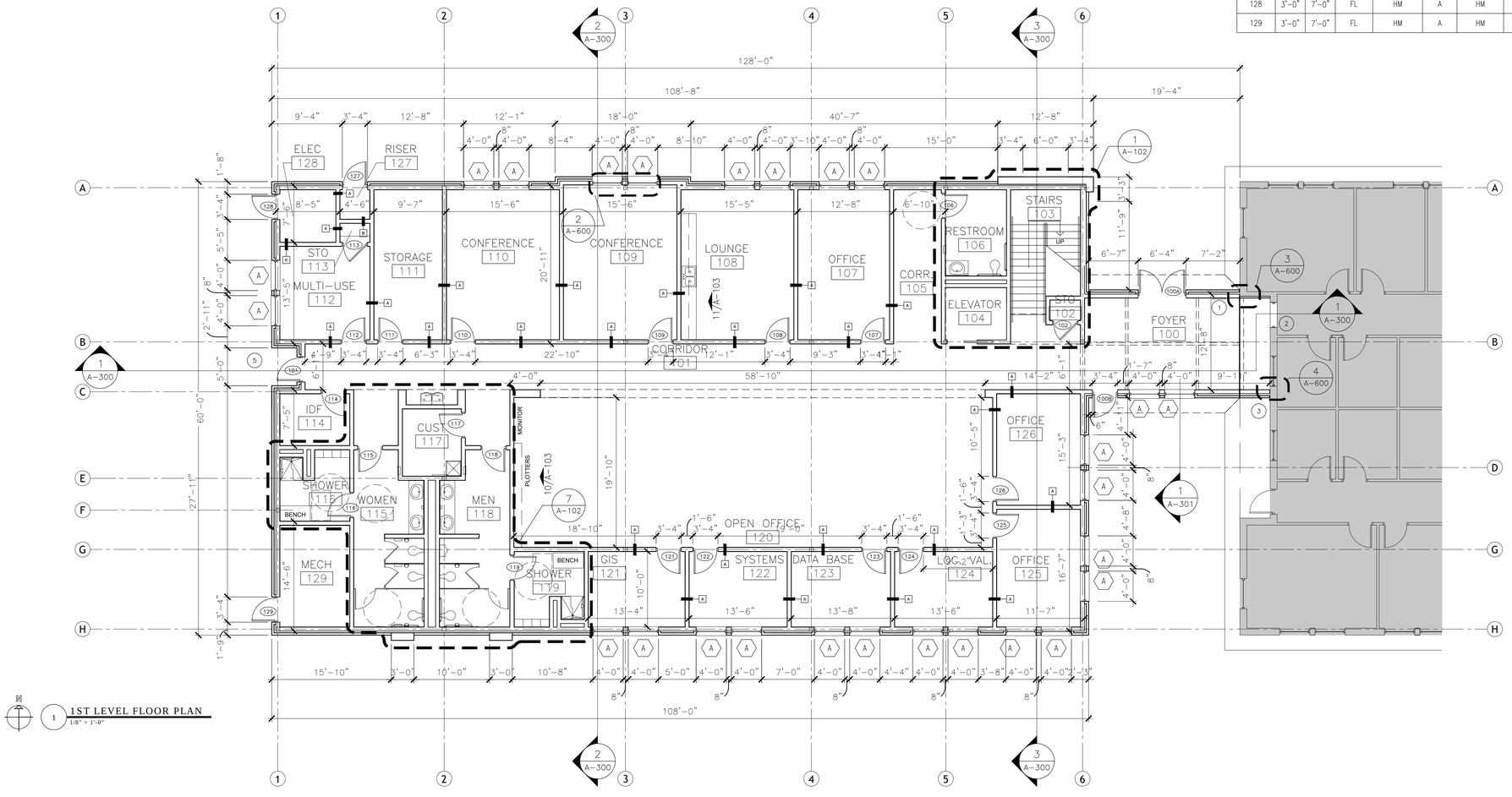
1. CAST PLAQUE AS SPEC'D
2. PAINT TOUCH-UP AT EXISTING DOOR FRAME.
3. FIELD VERIFY EXISTING BOX TO REMAIN. ENSURE IT REMAINS ACCESSIBLE FOR USE OUTDOORS.
4. LOCATION FOR ELEVATOR CONTROLS
5. EXTERIOR STAIRWAY NOT SHOWN FOR CLARITY. REF. SITE DETAILS.
6. HALF WALL; REF. 7/A-104.
7. 4'X8' MAGNETIC GLASS BOARDS AS SPEC'D

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
100	FOYER	LVT	RUBBER	PT	PT	PT	PT	VAULTED	VARIES	
101	CORRIDOR	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
102	STORAGE	LVT	RUBBER	PT	PT	PT	PT	PT. GYP.	8'-0"	
103	STAIRS	RUBBER	RUBBER	PT	PT	PT	PT	PT. GYP/2X2	9'-0"	9'-0" FF AT 2ND LEVEL
104	ELEVATOR	LVT							8'-0"	
105	CORRIDOR	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
106	RESTROOM	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
107	OFFICE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
108	LOUNGE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
109	CONFERENCE	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
110	CONFERENCE	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
111	STORAGE	LVT	RUBBER	PT	PT	PT	PT	2X2	8'-0"	
112	MULTI-USE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
113	STORAGE	LVT	RUBBER	PT	PT	PT	PT	PT. GYP.	8'-0"	
114	IDF	LVT	RUBBER	PT	PT	PT	PT	2X2	8'-0"	
115	WOMEN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
116	SHOWER	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
117	CUSTODIAN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	8'-0"	
118	MEN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
119	SHOWER	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
120	OPEN OFFICE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
121	GIS	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
122	SYSTEMS	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
123	DATA BASE	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
124	LOCATION VALIDATION	CARPET	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
125	OFFICE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
126	OFFICE	LVT	RUBBER	PT	PT	PT	PT	2X2	9'-0"	
127	RISER	SEALED CONCRETE	TILE	PT	PT	PT	PT	PTD. STRUC.		
128	ELECTRICAL	SEALED CONCRETE	TILE	PT	PT	PT	PT	PTD. STRUC.		
129	MECHANICAL	SEALED CONCRETE	TILE	PT	PT	PT	PT	PTD. STRUC.		

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		NOTES
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
100A	6'-0"	7'-0"	STO	ALUM	A	ALUM	
100B	3'-0"	7'-0"	STO	ALUM	A	ALUM	
101	3'-0"	7'-0"	FL	HM	A	HM	
102	3'-0"	7'-0"	FL	WOOD	A	HM	
106	3'-0"	7'-0"	FL	WOOD	A	HM	
107	3'-0"	7'-0"	FG	WOOD	A	HM	
108	3'-0"	7'-0"	FG	WOOD	A	HM	
109	3'-0"	7'-0"	FG	WOOD	A	HM	
110	3'-0"	7'-0"	FG	WOOD	A	HM	
111	3'-0"	7'-0"	FL	WOOD	A	HM	
112	3'-0"	7'-0"	FG	WOOD	A	HM	
113	3'-0"	7'-0"	FL	WOOD	A	HM	
114	3'-0"	7'-0"	FL	WOOD	A	HM	
115	3'-0"	7'-0"	FL	WOOD	A	HM	
116	3'-0"	7'-0"	FL	WOOD	A	HM	
117	3'-0"	7'-0"	FL	WOOD	A	HM	
118	3'-0"	7'-0"	FL	WOOD	A	HM	
119	3'-0"	7'-0"	FL	WOOD	A	HM	
121	3'-0"	7'-0"	FG	WOOD	A	HM	
122	3'-0"	7'-0"	FG	WOOD	A	HM	
123	3'-0"	7'-0"	FG	WOOD	A	HM	
124	3'-0"	7'-0"	FG	WOOD	A	HM	
125	3'-0"	7'-0"	FG	WOOD	A	HM	
126	3'-0"	7'-0"	FG	WOOD	A	HM	
127	3'-0"	7'-0"	FL	HM	A	HM	
128	3'-0"	7'-0"	FL	HM	A	HM	
129	3'-0"	7'-0"	FL	HM	A	HM	



1 1ST LEVEL FLOOR PLAN
1/8" = 1'-0"

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CONSULTANTS

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STRUCTURAL:
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MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

SIGNED
06/05/2019

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
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Sheet Title:
1ST LEVEL FLOOR PLAN & SCHEDULES

A-100

GENERAL CONSTRUCTION NOTES

1. REFER TO SHEET A-104 FOR WALL TYPES.
2. FURNITURE AND EQUIPMENT SHALL BE PROVIDED & INSTALLED BY OWNER.
3. ALL OUTSIDE CORNERS TO HAVE STAINLESS STEEL CORNER GUARDS AS SPEC'D

KEY NOTE LEGEND

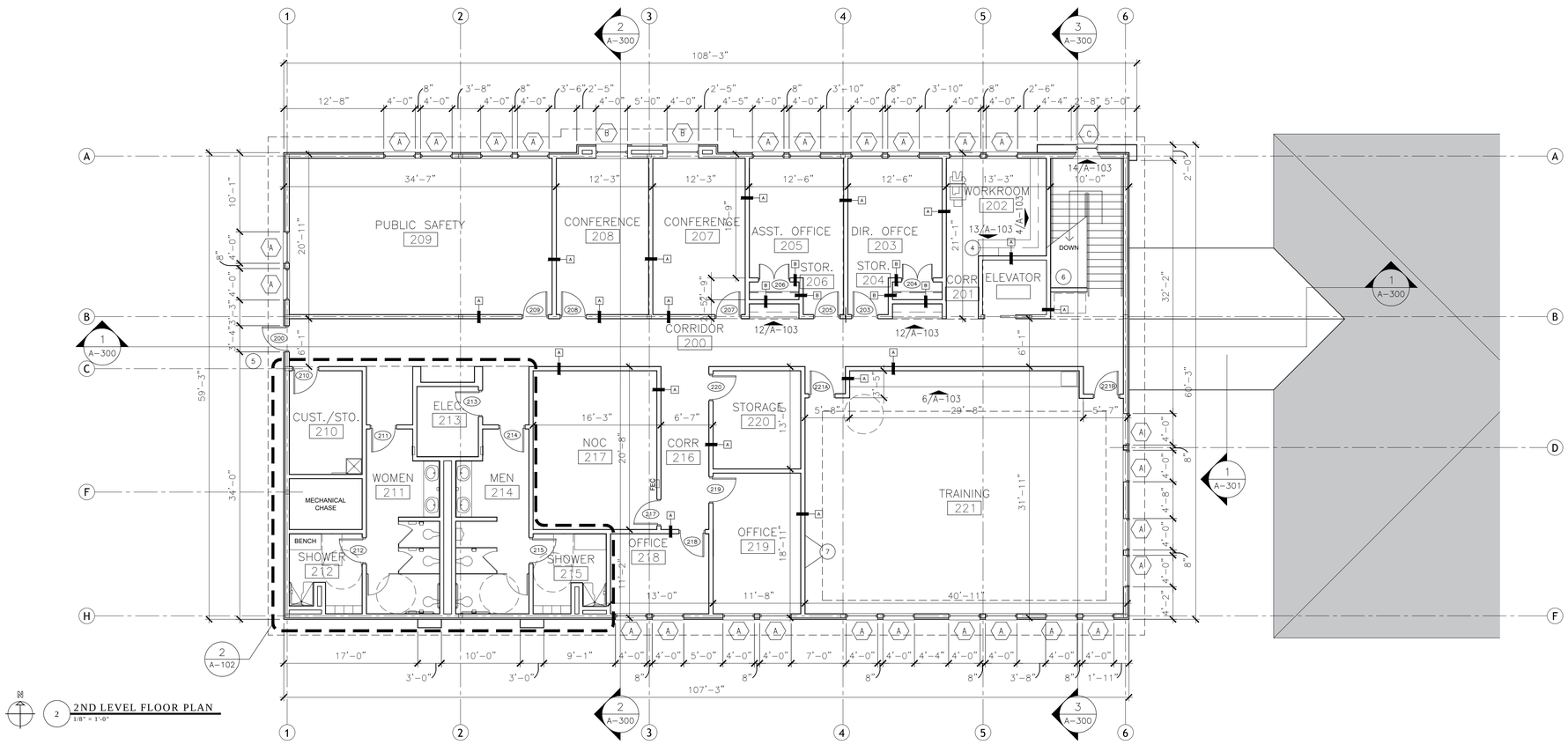
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4. LOCATION FOR ELEVATOR CONTROLS
5. EXTERIOR STAIRWAY NOT SHOWN FOR CLARITY. REF. SITE DETAILS.
6. HALF WALL; REF. 7/A-104.
7. 4'X8' MAGNETIC GLASS BOARDS AS SPEC'D

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
200	CORRIDOR	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	REFER TO RCP FOR PTD. GYP. FURRDOWNS
201	CORRIDOR	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
202	WORKROOM	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
203	DIRECTOR'S OFFICE	CARPET	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
204	CLOSET	CARPET	RUBBER	PT	PT	PT	PT	2x2	8'-0"	
205	ASST.'S OFFICE	CARPET	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
206	CLOSET	CARPET	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
207	CONFERENCE	CARPET	RUBBER	PT	PT	PT	PT	2x2	10'-0"	
208	CONFERENCE	CARPET	RUBBER	PT	PT	PT	PT	2x2	10'-0"	
209	PUBLIC SAFETY	CARPET	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
210	CUSTODIAN/STO.	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	8'-0"	
211	WOMEN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
212	SHOWER	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
213	ELECTRICAL	LVT	RUBBER	PT	PT	PT	PT	2x2	8'-0"	
214	MEN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
215	SHOWER	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PT. GYP.	9'-0"	
216	CORRIDOR	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
217	NOC	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
218	OFFICE	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
219	OFFICE	LVT	RUBBER	PT	PT	PT	PT	2x2	9'-0"	
220	STORAGE	LVT	RUBBER	PT	PT	PT	PT	2x2	8'-0"	
221	TRAINING	CARPET	RUBBER	PT	PT	PT	PT, MAG BD	2x2	10'-0"	REFER TO RCP FOR PTD. GYP. FURRDOWNS; 4- 4'X8' MAGNETIC GLASS BOARD PANELS

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		NOTES
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
200	3'-0"	7'-0"	FL	HM	A	HM	
203	3'-0"	7'-0"	FG	WOOD	A	HM	
204	3'-0"	7'-0"	FL	WOOD	A	HM	
205	3'-0"	7'-0"	FG	WOOD	A	HM	
206	3'-0"	7'-0"	FL	WOOD	A	HM	
207	3'-0"	7'-0"	FG	WOOD	A	HM	
208	3'-0"	7'-0"	FG	WOOD	A	HM	
209	3'-0"	7'-0"	FL	WOOD	A	HM	
210	3'-0"	7'-0"	FL	WOOD	A	HM	
211	3'-0"	7'-0"	FL	WOOD	A	HM	
212	3'-0"	7'-0"	FL	WOOD	A	HM	
213	3'-0"	7'-0"	FL	WOOD	A	HM	1-HR RATING
214	3'-0"	7'-0"	FL	WOOD	A	HM	
215	3'-0"	7'-0"	FL	WOOD	A	HM	
217	3'-0"	7'-0"	FL	WOOD	A	HM	
218	3'-0"	7'-0"	FG	WOOD	A	HM	
219	3'-0"	7'-0"	FG	WOOD	A	HM	
220	3'-0"	7'-0"	FG	WOOD	A	HM	
221A	3'-0"	7'-0"	FG	WOOD	A	HM	
221B	3'-0"	7'-0"	FG	WOOD	A	HM	



2 2ND LEVEL FLOOR PLAN
1/8" = 1'-0"

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LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE
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SIGNED
06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967 WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

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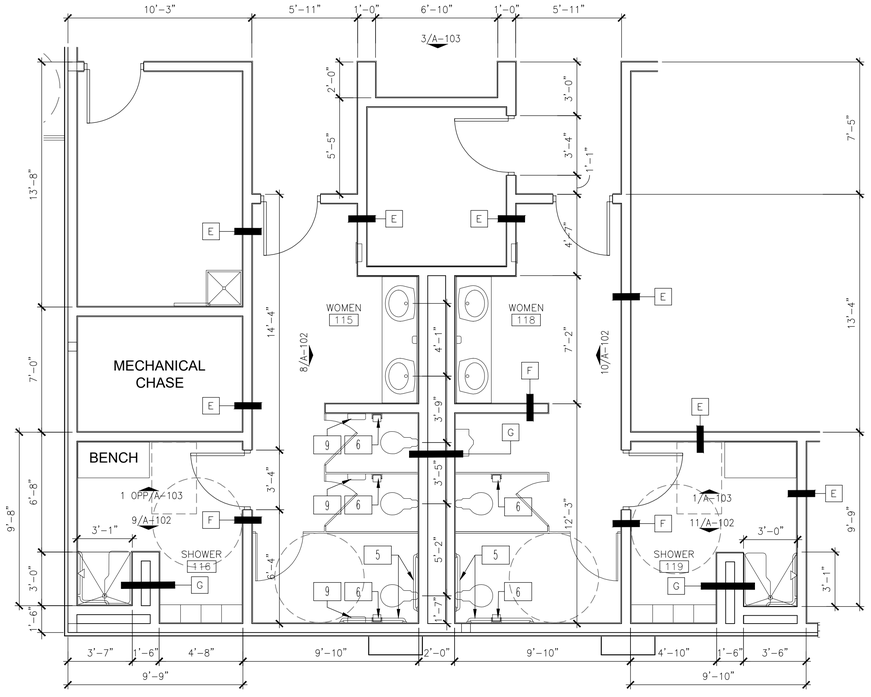
Sheet Title:
2ND LEVEL FLOOR PLAN & SCHEDULES

A-101

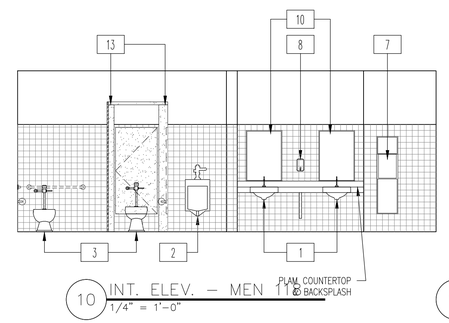
FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. PAPER TOWEL DISPENSER (FRONT APPROACH) & TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	
14	14. SHOWER STALL (ADA) TOP OF SEAT	ACCESSIBLE	17" TO 19"
	HAND SHOWER HEAD MOUNTING	ACCESSIBLE	48"
	CONTROL AREA (TOP OF)	ACCESSIBLE	48" MAX
15	15. ADA BENCH AS SPECIFIED. REFER TO MANUFACTURER'S RECOMMENDED HEIGHTS.		

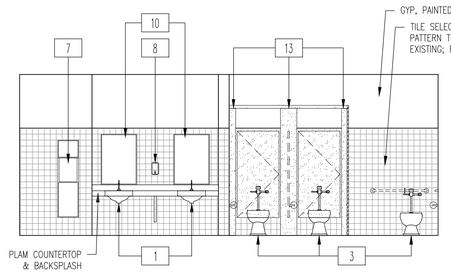


7 ENLARGED PLAN
1/4" = 1'-0"



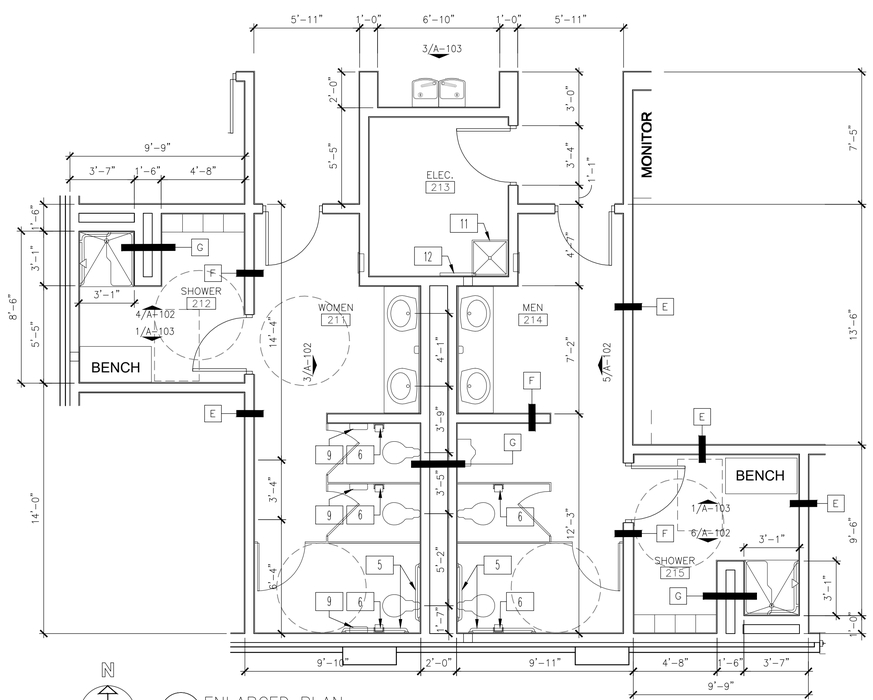
10 INT. ELEV. – MEN 115
1/4" = 1'-0"

11 INT. ELEV. – SHOWER 119
1/4" = 1'-0"

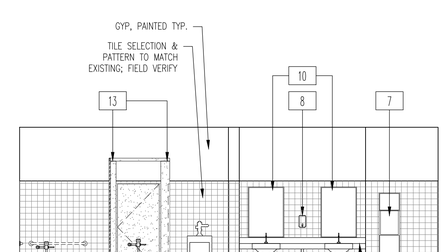


8 INT. ELEV. – WOMEN 115
1/4" = 1'-0"

9 INT. ELEV. – SHOWER 116
1/4" = 1'-0"

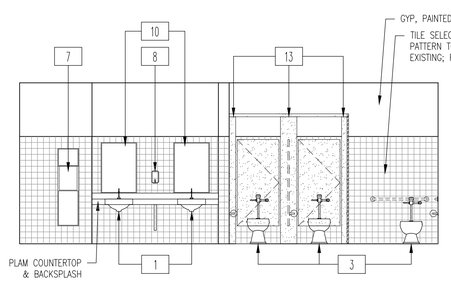


2 ENLARGED PLAN
1/4" = 1'-0"



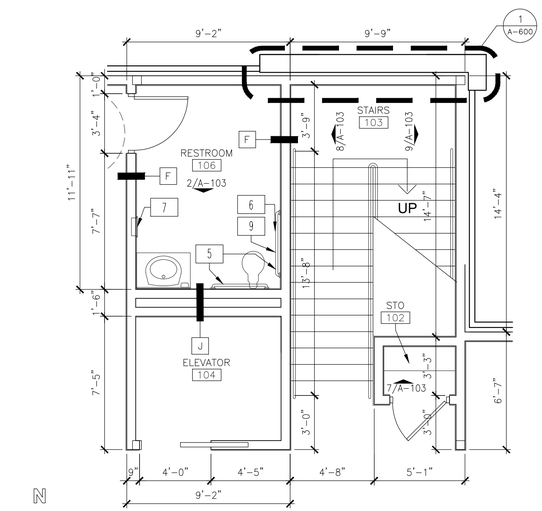
5 INT. ELEV. – MEN 214
1/4" = 1'-0"

6 INT. ELEV. – SHOWER 215
1/4" = 1'-0"



3 INT. ELEV. – WOMEN 211
1/4" = 1'-0"

4 INT. ELEV. – SHOWER 212
1/4" = 1'-0"



1 ENLARGED PLAN
1/4" = 1'-0"

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CONSULTANTS

CIVIL: Melden & Hunt, Inc.

STRUCTURAL: Chanin Engineering LLC

MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE 11/30/2019

SIGNED 06/05/2019

LRGV DEVELOPMENT COUNCIL

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

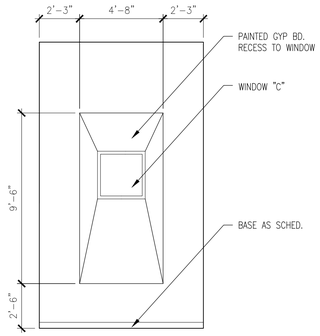
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Drawing Date:	JUNE 5, 2019
Drawn:	CQ
Checked:	JM
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ACAD File:	A-102

Revisions:

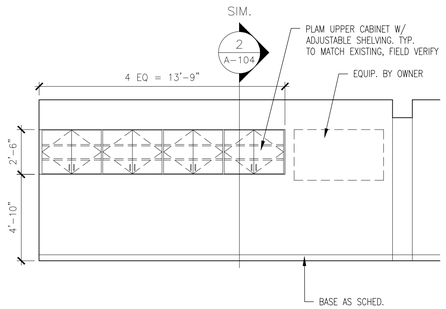
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ENLAREGED RESTROOM PLANS

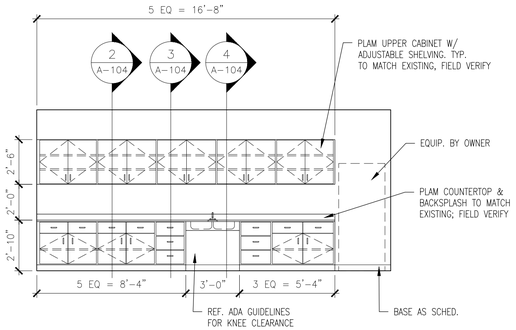
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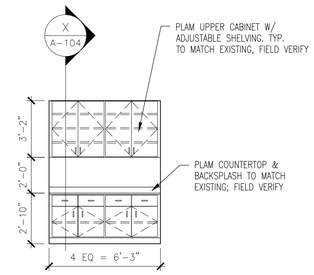
14 INT. ELEV. – STAIRS 103
1/4" = 1'-0"



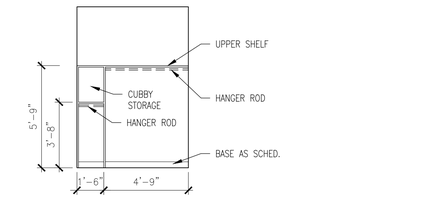
10 INT. ELEV. – OPEN OFFICE 120
1/4" = 1'-0"



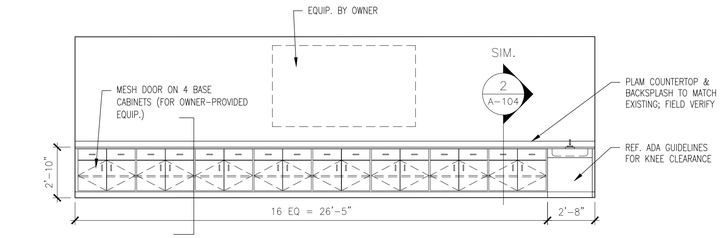
11 INT. ELEV. – LOUNGE 108
1/4" = 1'-0"



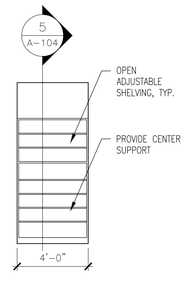
12 INT. ELEV. – CORRIDOR 200
1/4" = 1'-0"



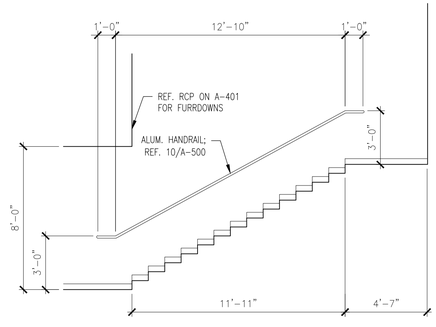
13 INT. ELEV. – CORRIDOR 206
1/4" = 1'-0"



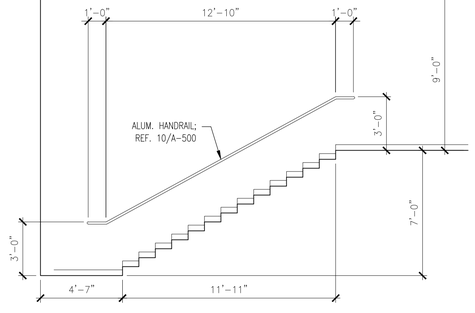
6 INT. ELEV. – TRAINING 221
1/4" = 1'-0"



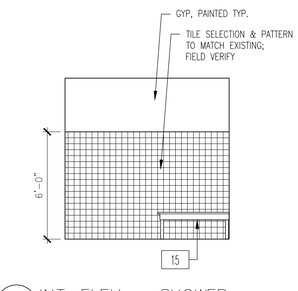
7 INT. ELEV. – STO 102 & 113
1/4" = 1'-0"



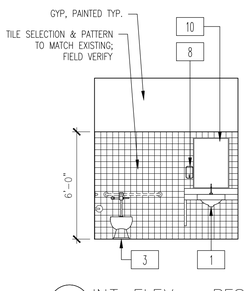
8 INT. ELEV. – STAIRS 103
1/4" = 1'-0"



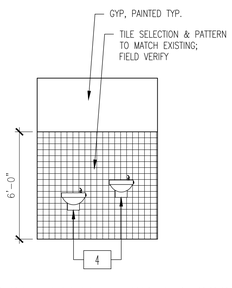
9 INT. ELEV. – STAIRS 103
1/4" = 1'-0"



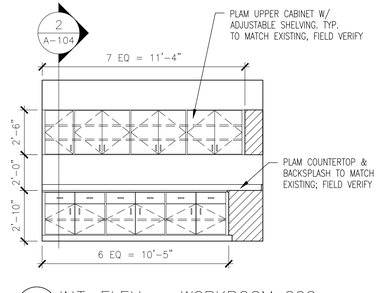
1 INT. ELEV. – SHOWER
1/4" = 1'-0"



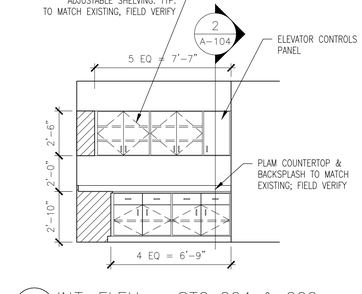
2 INT. ELEV. – RESTROOM 106
1/4" = 1'-0"



3 INT. ELEV. – WATER COOLERS
1/4" = 1'-0"



4 INT. ELEV. – WORKROOM 202
1/4" = 1'-0"



5 INT. ELEV. – STO 204 & 206
1/4" = 1'-0"

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CONSULTANTS

CIVIL: Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

SIGNED
06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967 WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

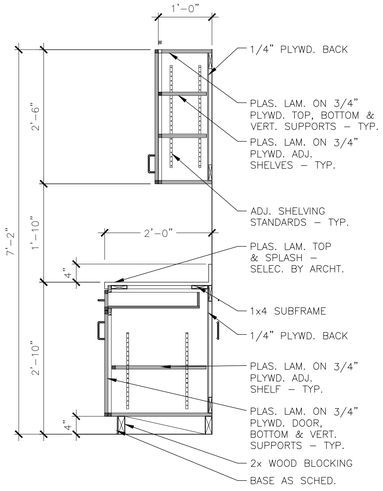
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	CQ
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ACAD File:	A-103

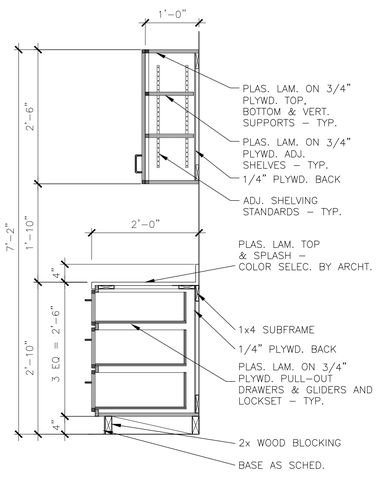
Revisions:

Sheet Title:
INTERIOR ELEVATIONS

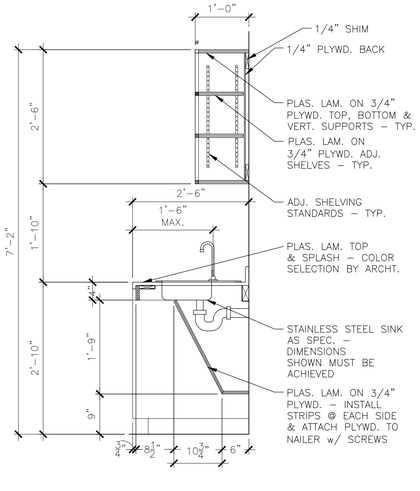
A-103



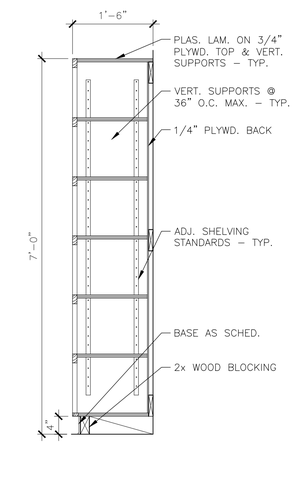
2 MILLWORK DETAIL
3/4" = 1'-0"



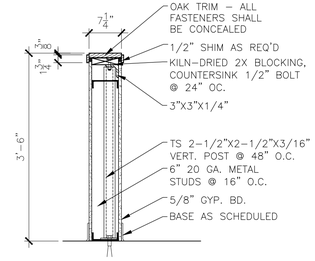
3 MILLWORK DETAIL
3/4" = 1'-0"



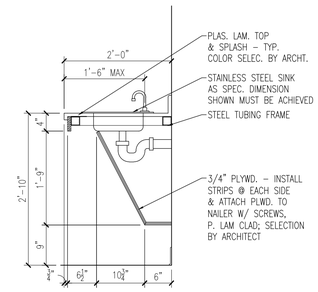
4 MILLWORK DETAIL
3/4" = 1'-0"



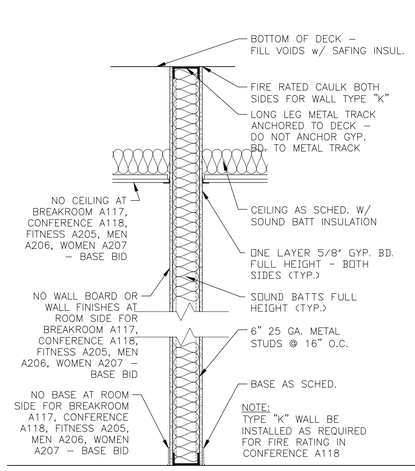
5 MILLWORK DETAIL
3/4" = 1'-0"



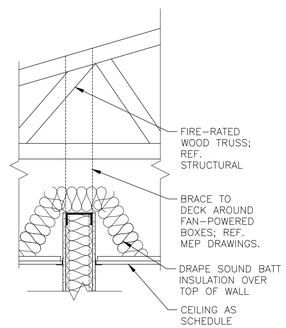
7 HALF WALL AT STAIR
3/4" = 1'-0"



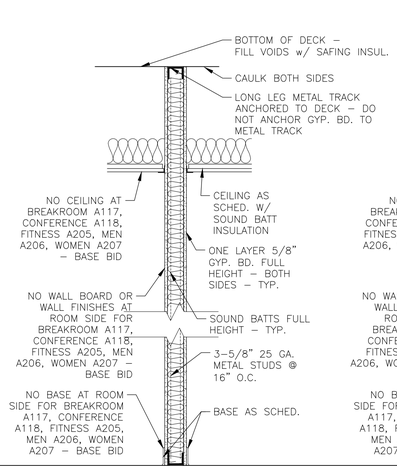
6 MILLWORK DETAIL
3/4" = 1'-0"



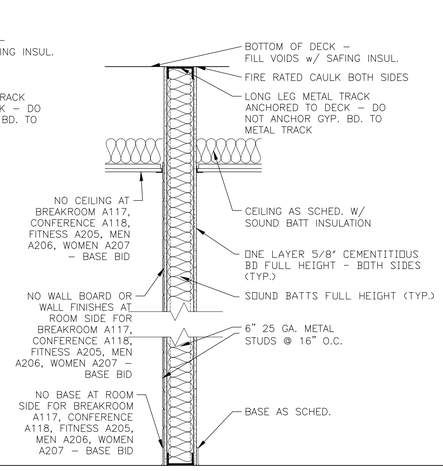
TYPE "A"
TYPE "B" – NO BATT INSULATION
TYPE "K" – 1 HOUR FIRE RATING (REFER ROOM FINISH SCHED FOR FINISHES)



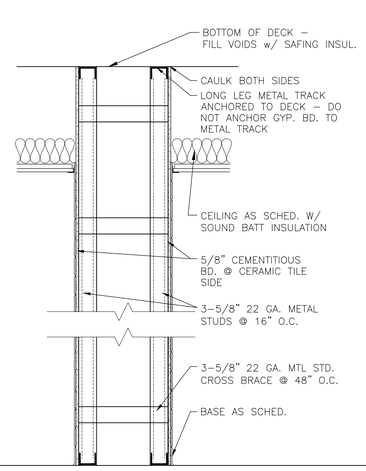
TYPE "A" (CONDITION AT BOTTOM OF WOOD TRUSS)



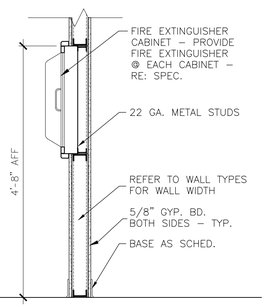
TYPE "C"
TYPE "D" – NO BATT INSULATION
TYPE "M" – TILE ON ONE SIDE



TYPE "E" – TILE ON ONE SIDE
TYPE "F" – TILE ON BOTH SIDES
TYPE "H" – 3-5/8" MTL STUD, TILE ON ONE SIDE
TYPE "I" – 3-5/8" MTL STUD, TILE ON BOTH SIDES
TYPE "L" – ONE HOUR FIRE RATING



TYPE "G"
TYPE "J" – TILE ON ONE SIDE



FIRE EXTINGUISHER DETAIL

1 WALL TYPES
3/4" = 1'-0"

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LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS
EXPIRATION DATE 11/30/2019
SIGNED 06/05/2019

LRGV DEVELOPMENT COUNCIL

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

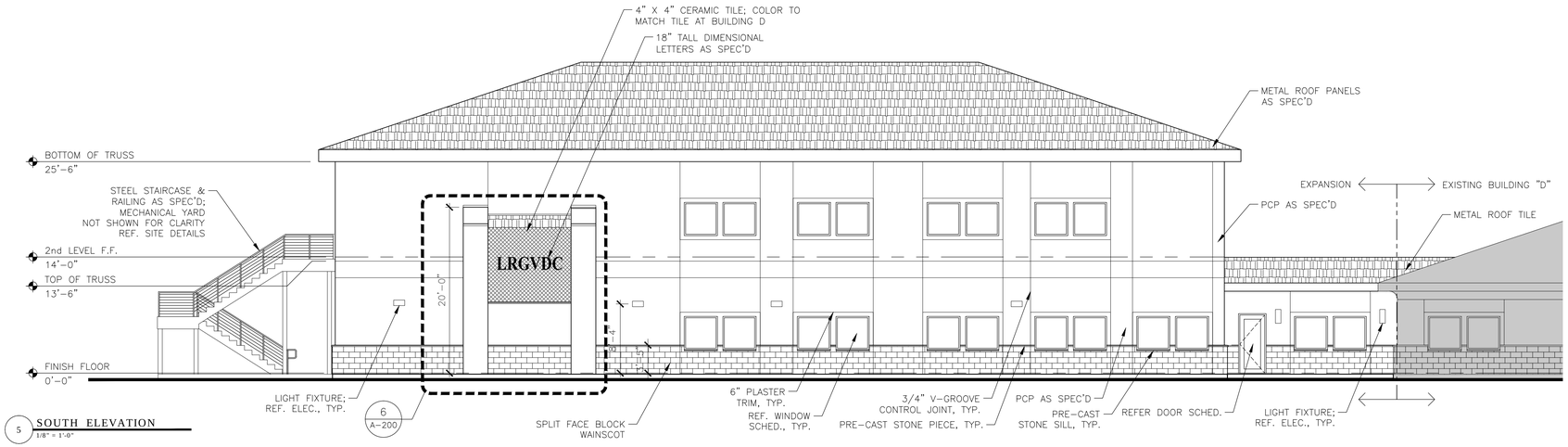
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	AL
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Scale:	3/4" = 1'-0"
ACAD File:	A-104

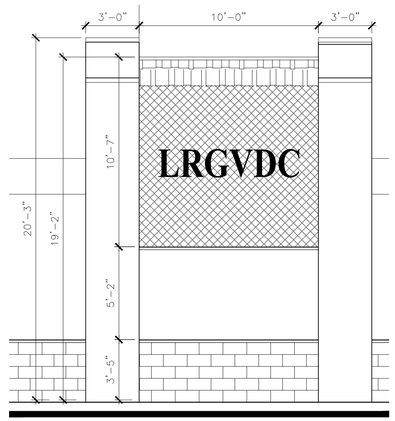
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Sheet Title:
WALL TYPES & MILLWORK SECTIONS

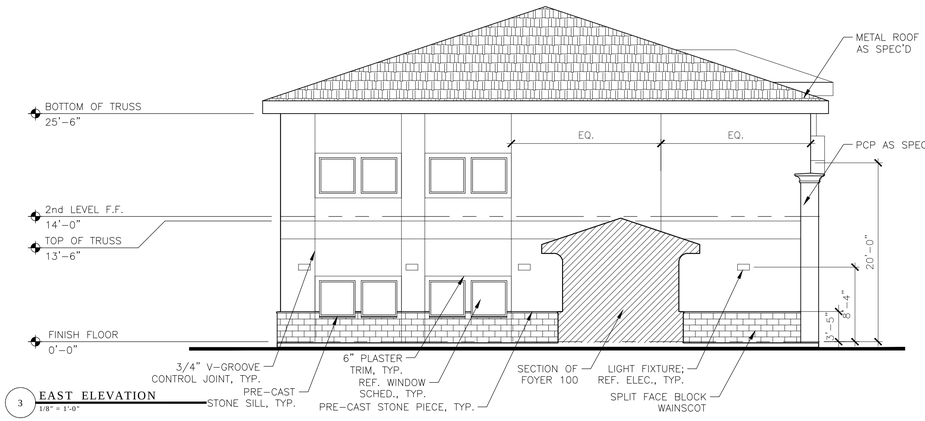
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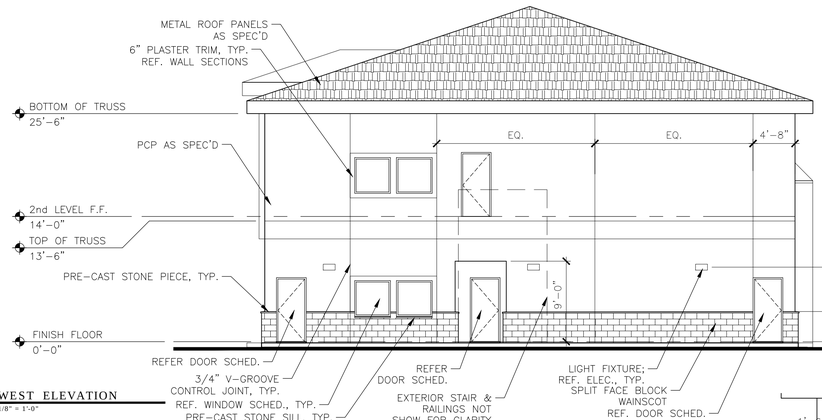
5 SOUTH ELEVATION
1/8" = 1'-0"



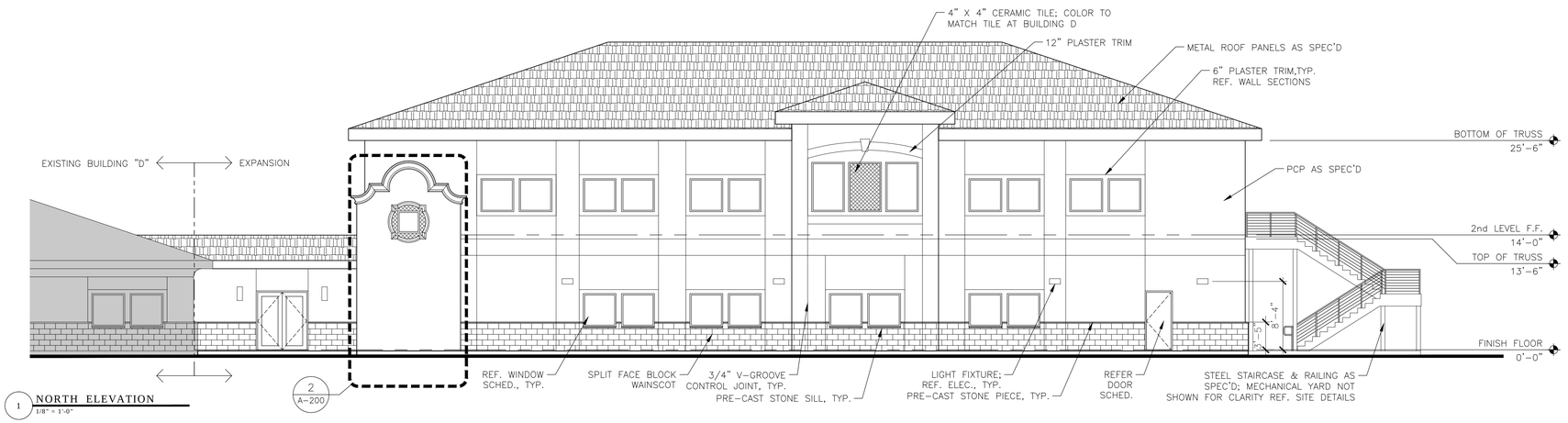
6 SOUTH ELEVATION
1/8" = 1'-0"



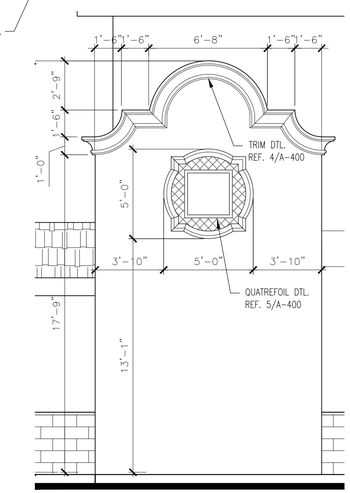
3 EAST ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"



2 ENL. ELEV. DETAIL
1/4" = 1'-0"

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MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE 11/30/2019

SIGNED 06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

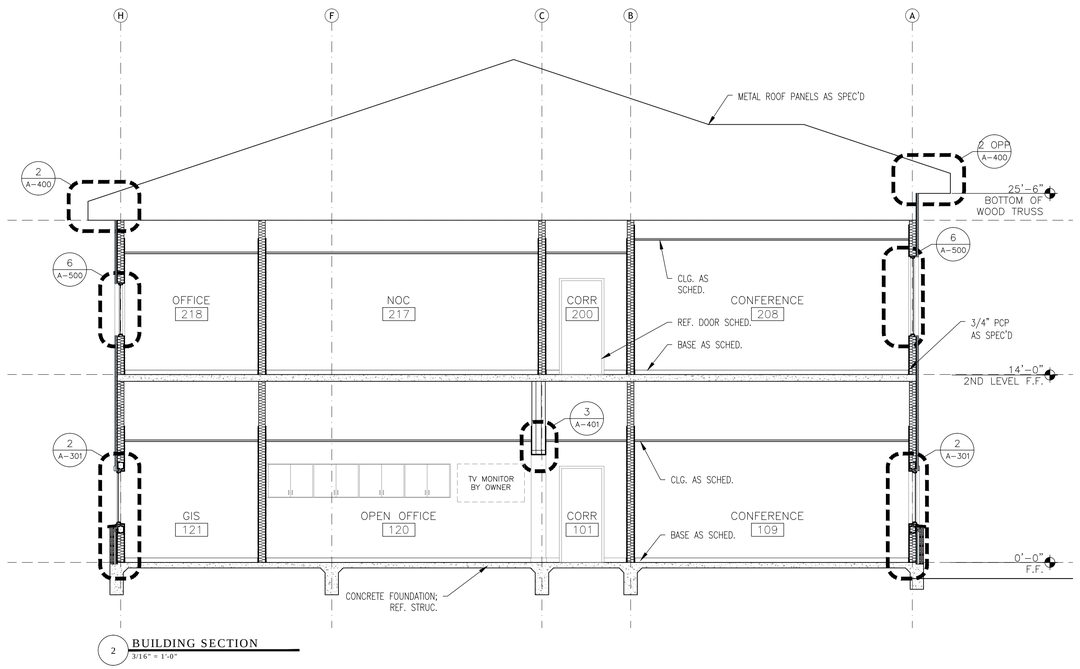
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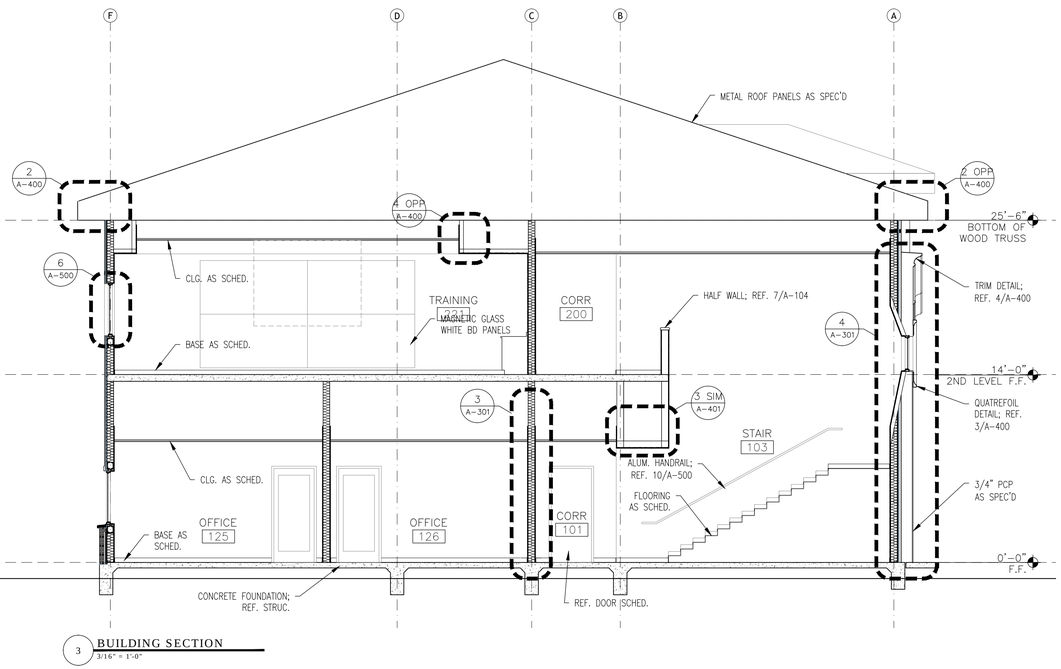
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EXTERIOR ELEVATIONS

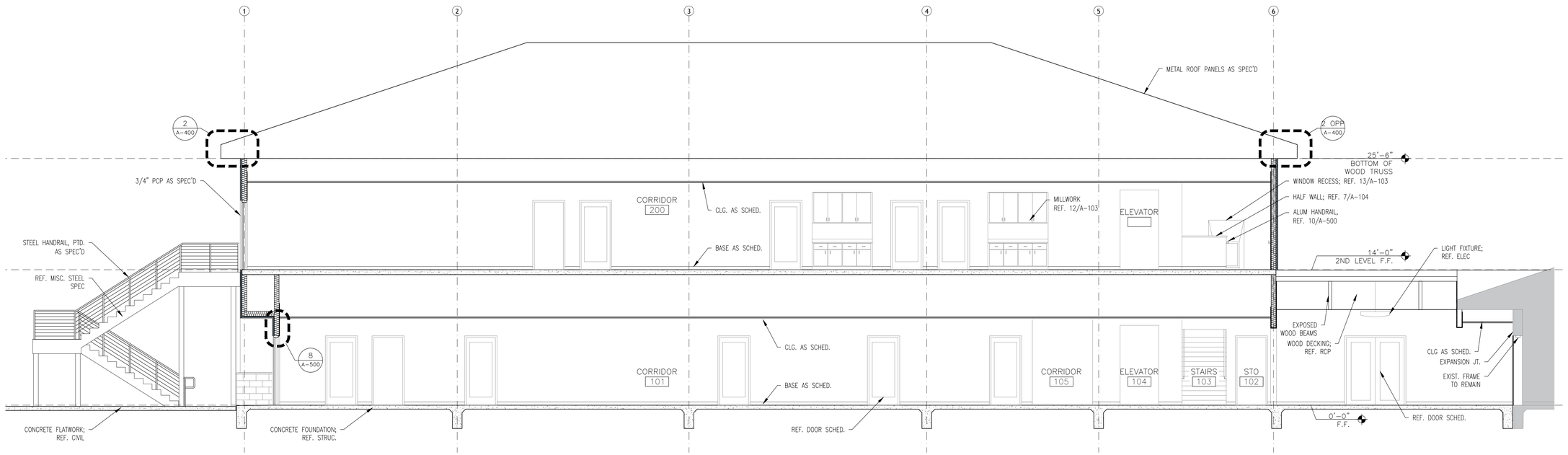
A-200



2 BUILDING SECTION
3/16" = 1'-0"



3 BUILDING SECTION
3/16" = 1'-0"



1 BUILDING SECTION
3/16" = 1'-0"

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CONSULTANTS

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STRUCTURAL:
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MEP: Sigma HN Engineers, PLLC

LANDSCAPE: Lanscapes

REGISTERED ARCHITECT RAYMOND D GIGNAC STATE OF TEXAS 6296

EXPIRATION DATE
11/30/2019

SIGNED
06/05/2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

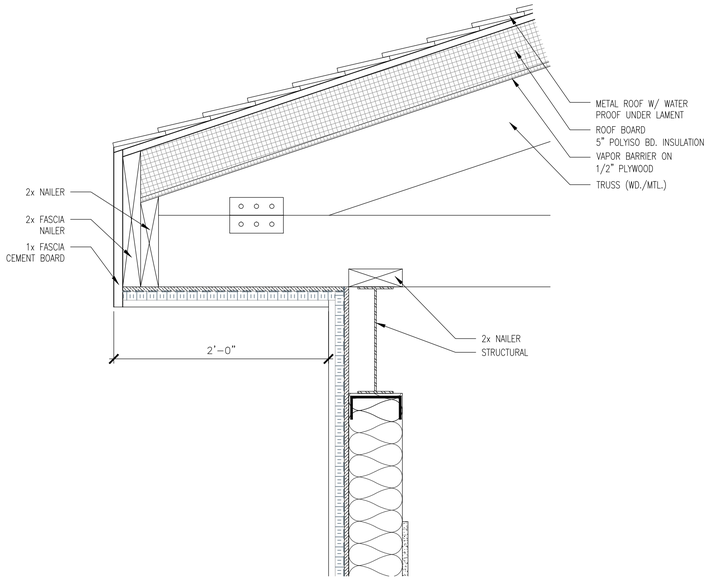
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	AL
Checked:	JM
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ACAD File:	A-300

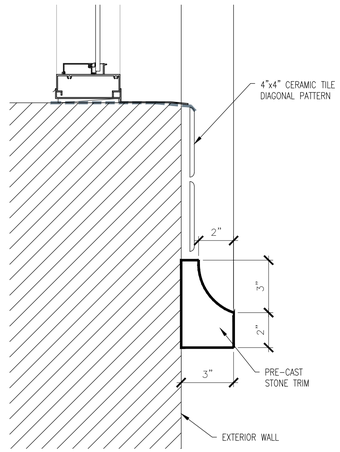
Revisions:

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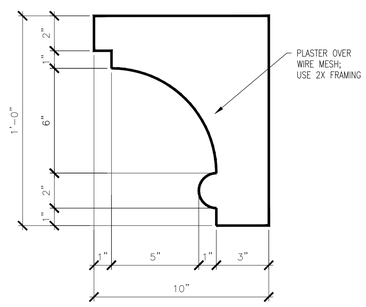
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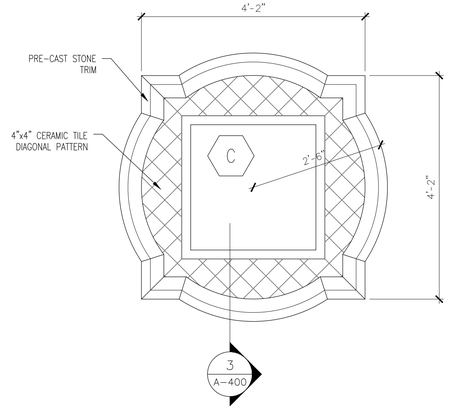
2 TYP. EAVE DETAIL
1-1/2" = 1'-0"



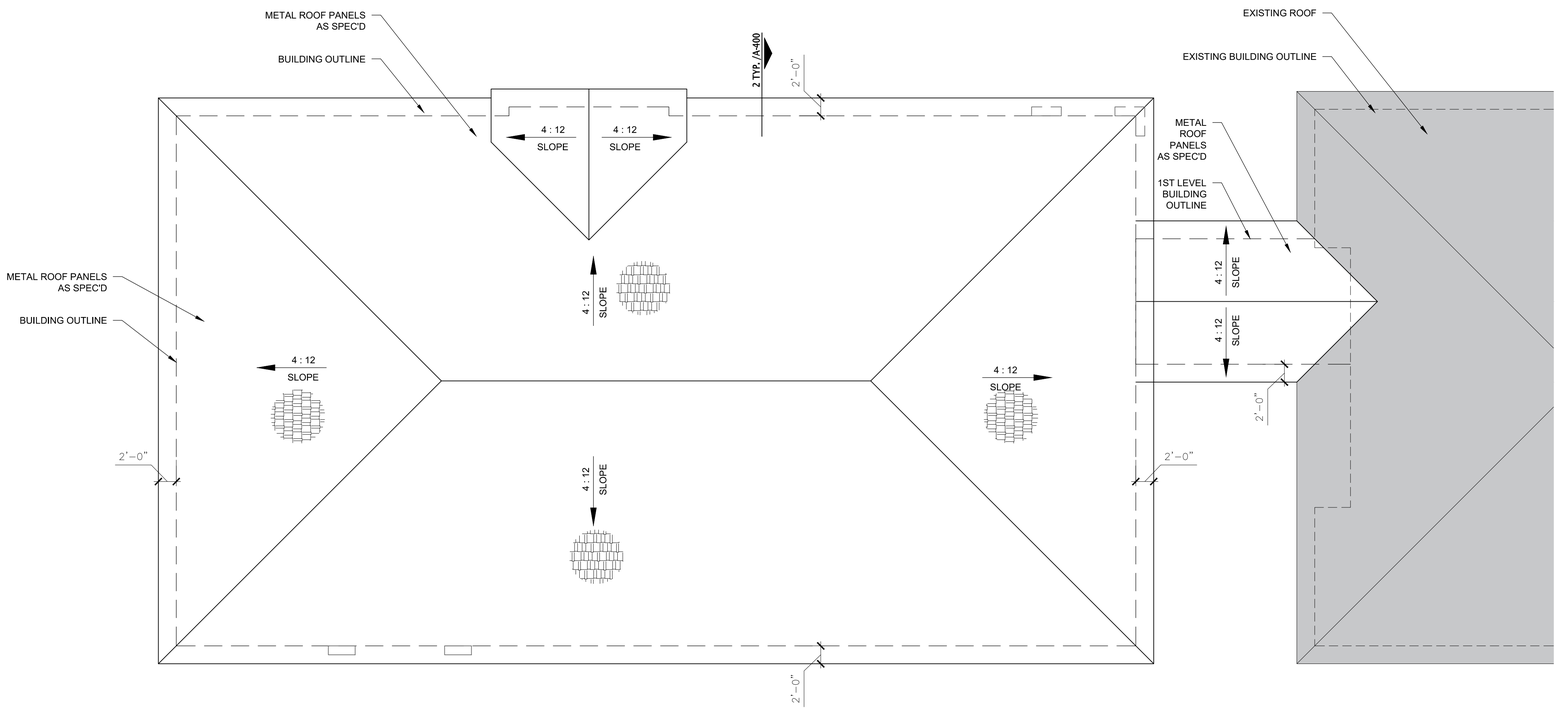
3 QUATREFOIL SECTION DTL.
3" = 1'-0"



4 TRIM DETAIL
3" = 1'-0"



5 QUATREFOIL DETAIL
3/4" = 1'-0"



1 ROOF PLAN
1/8" = 1'-0"

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BUILDING D EXPANSION

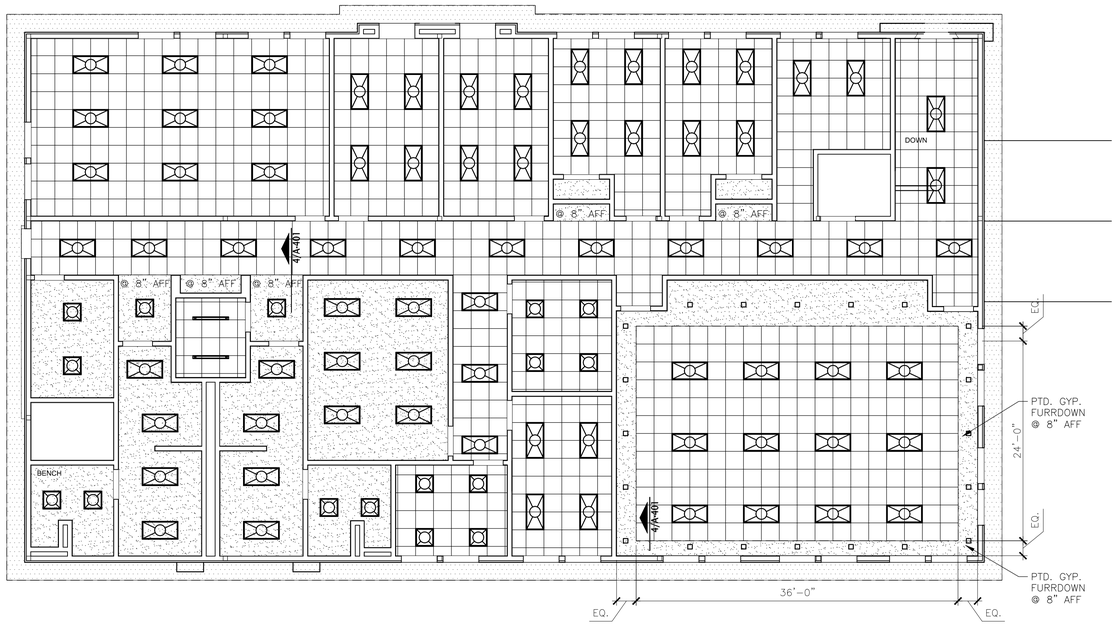
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	AL
Checked:	JM
Scale:	1/8" = 1'-0"
ACAD File:	A-400

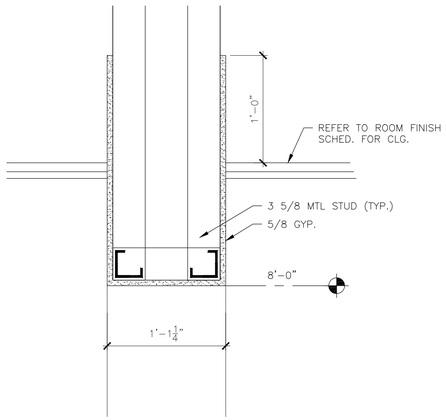
Revisions:

Sheet Title:
ROOF PLAN & DETAILS

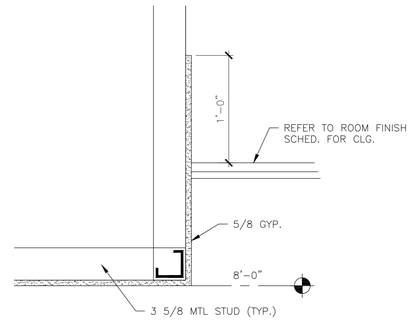
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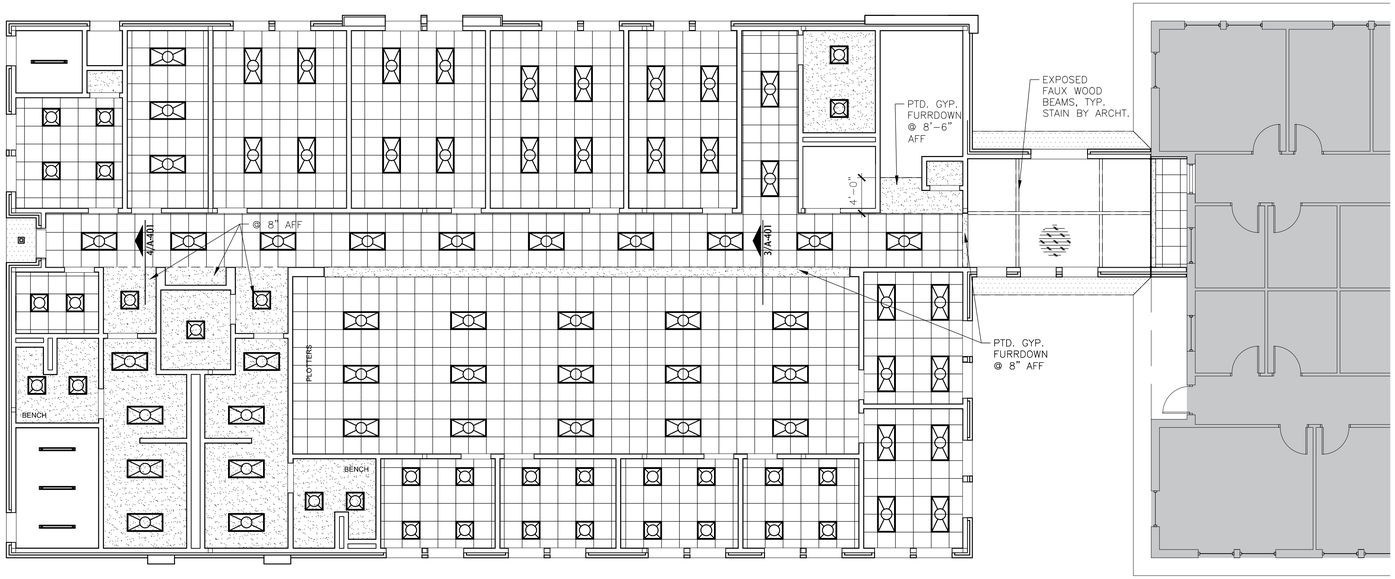
2 2ND LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"



3 FURRDOWN DETAIL
1-1/2" = 1'-0"



4 FURRDOWN DETAIL
1-1/2" = 1'-0"



1 1ST LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING LEGEND

- 2 X 2 SUSPENDED ACOUSTICAL CEILING GRID
- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- PAINTED OR STAINED WOOD DECKING
- PLASTER
- AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. COORDINATE WITH STRUCTURAL AND MEP TO ACHIEVE MAXIMUM CEILING HEIGHTS.
3. WHERE GYPSUM BOARD FURRDOWNS ARE INDICATED, THEY SHALL BE AT LEAST 8'-0" AFF.

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LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967 WILLACY HIDALGO CAMERON

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BUILDING D EXPANSION

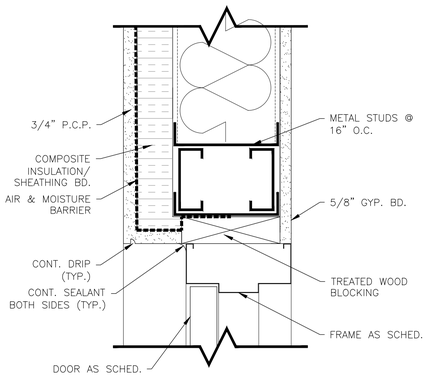
WESLACO, TEXAS

Project Number:	18.45
Drawing Date:	JUNE 5, 2019
Drawn:	AL
Checked:	JM
Scale:	1/8" = 1'-0"
ACAD File:	A-401

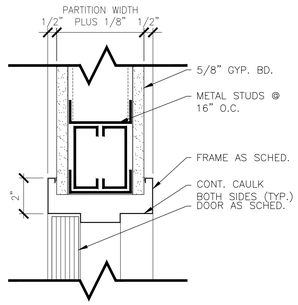
Revisions:

Sheet Title:
REFLECTED CEILING PLAN

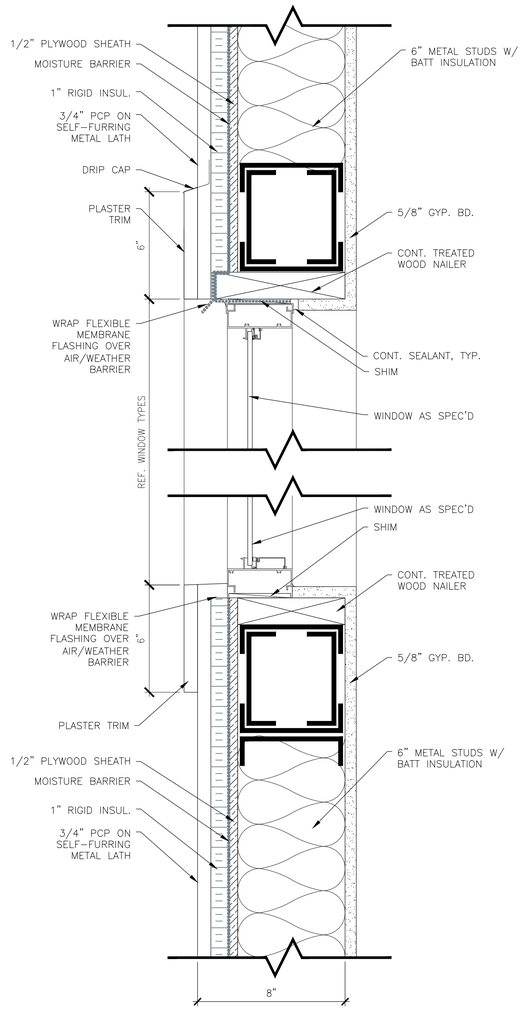
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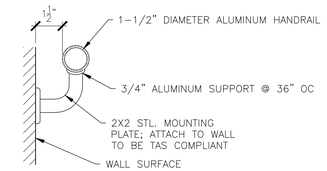
8 EXTERIOR DOOR HEAD
3" = 1'-0"



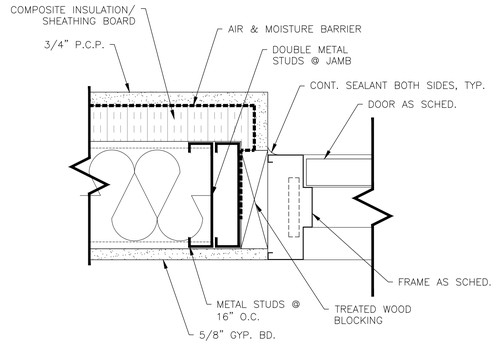
9 INTERIOR DOOR HEAD
3" = 1'-0"



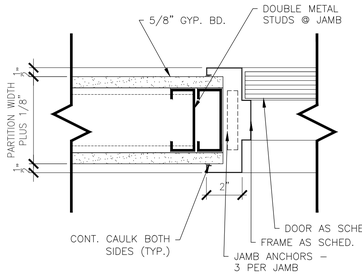
6 EXTERIOR WINDOW SECTION
3" = 1'-0"



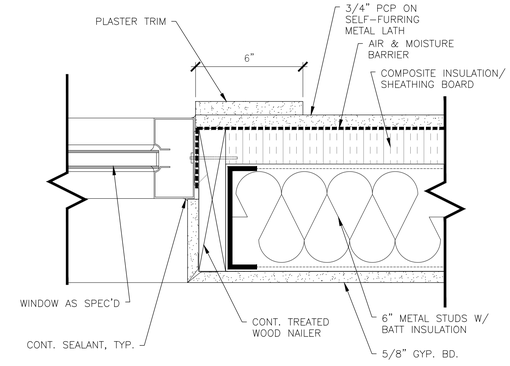
10 HANDRAIL DETAIL
3" = 1'-0"



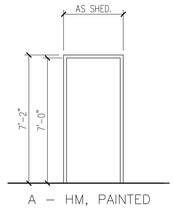
4 EXTERIOR DOOR JAMB
3" = 1'-0"



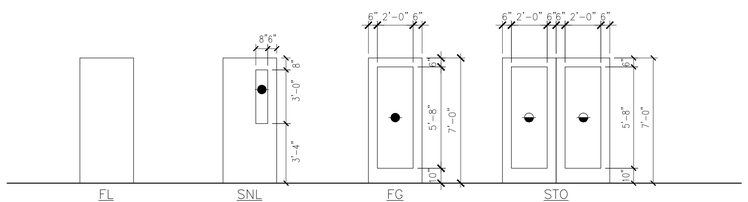
5 INTERIOR DOOR JAMB
3" = 1'-0"



7 EXTERIOR WINDOW JAMB
3" = 1'-0"



A - HM, PAINTED



FL
FLUSH DOOR; REF. SCHED. FOR MTL.

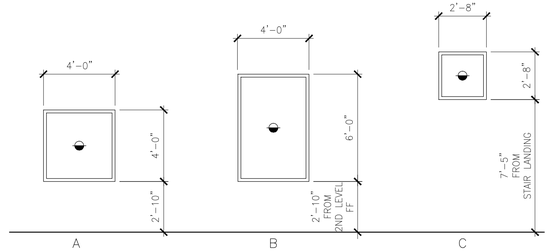
SNL
SOLID WOOD CORE W/ SINGLE NARROW LITE KIT

FG
SOLID WOOD CORE W/ FULL GLAZING LITE KIT

STO
DARK BRONZE ALUM.

1 FRAME TYPES
1/4" = 1'-0"

2 DOOR TYPES
1/4" = 1'-0"



A
ANODIZED ALUM.

B
ANODIZED ALUM.

C
ANODIZED ALUM.

3 WINDOW TYPES
1/4" = 1'-0"

GLAZING SCHEDULE

GL-1:	1/4" CLEAR PLATE GLASS
GL-2:	1/4" CLEAR TEMPERED GLASS 1/4" FROSTED TEMPERED GLASS
GL-3:	1-5/16" INSULATED, TEMPERED GLASS, GRAY TINT

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EXPIRATION DATE 11/30/2019

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LRGV DEVELOPMENT COUNCIL

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BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 18.45
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Drawn: AL
Checked: JM
Scale: VARIOUS
ACAD File: A-500

Revisions:

Sheet Title:
DOOR & WINDOW DETAILS

A-500

GENERAL NOTES

MECHANICAL

GENERAL MECHANICAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.

B. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR OWNER.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE SHALL INFORM THE OWNER PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE.

D. CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

E. CONTRACTOR SHALL INSTALL ALL EXHAUST SYSTEMS, INCLUDING FANS AND EXHAUST DUCTS. PROVIDE COMPLETE NEW SYSTEMS AS INDICATED.

F. CONTRACTOR SHALL PROVIDE ALL CEILING DIFFUSERS AS SHOWN. CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCT WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL SHOWN IN THESE PLANS. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

G. CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

H. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 6000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

I. ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH OWNER-APPROVED PATCHING MATERIALS. ALL REFINISHING SHALL BE APPROVED BY THE OWNER.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.

K. CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SPLITTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

L. MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH THE ROOM FINISHES AND USES. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT INSTALLATION.

M. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING DIFFUSERS WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL REFLECTED CEILING PLANS. MOVE THE DIFFUSER LOCATIONS IF REQUIRED TO AVOID OBSTRUCTIONS FROM DUCTWORK AND LIGHT FIXTURES. COORDINATE RELOCATION WITH ENGINEER.

N. VERIFY THE LOCATION OF ALL WALLS, PARTITIONS, DOORS, CABINETS, AND CEILINGS FROM ACTUAL FIELD MEASUREMENTS.

O. PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED FOR SHUT DOWN BY DIVISION 16. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

ELECTRICAL

GENERAL ELECTRICAL LIGHTING NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED IN RCP.

B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UNSWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT

C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.

D. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER THE COST OF ALL CONTROL DEVICES, NETWORK CABLING, POWER PACKS, SENSORS, AND ALL ASSOCIATED EQUIPMENT REQUIRED FOR A COMPLETE LIGHTING CONTROL SYSTEM AS SPECIFIED.

E. CONTROL OF WIRING IS DESIGNED TO MEET THE CITY'S ADOPTED VERSION OF THE INTERNATIONAL ENERGY CONSERVATION CODE. ALL LIGHT SWITCHES SHALL OPERATE AS BOTH MANUAL AND AUTOMATIC. LIGHT SWITCHES SHALL ALLOW TO BE PROGRAMMED REMOTELY THROUGH A LOCAL AREA NETWORK.

F. COORDINATE LOCATIONS OF ALL WIRING SWITCHES AND MOUNTING HEIGHTS WITH OWNERS DRAWINGS PRIOR TO ROUGH IN.

G. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.

H. FURNISH AND INSTALL LAMICOID NAMEPLATE WITH AREA CONTROLLED ABOVE EACH SWITCH. NAMEPLATE TO BE WHITE WITH BLACK LAYER TO SHOW BLACK LETTERS WHEN ENGRAVED.

I. FURNISH AND INSTALL nLIGHT CONTROL EQUIPMENT AS RECOMMENDED BY MANUFACTURER. FURNISH ACCESS PANELS FOR ALL POWER PACKS AS REQUIRED.

GENERAL ELECTRICAL POWER NOTES:

A. ELECTRICAL CONTRACTOR SHALL FURNISH SHOP DRAWINGS SHOWING ALL ROUGH-IN FOR UNDERGROUND CONDUIT, CONDUCTORS AND CABLES PRIOR TO COMMENCING WORK.

B. REFER TO MECHANICAL DRAWINGS FOR FIRE SUPPRESSION, HOOD SYSTEMS, EXHAUST VENTILATING CONTROL PANELS, AND SUPPLY FANS WIRING AND INTERFACE REQUIREMENTS.

GENERAL ELECTRICAL SITE NOTES:

A. ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY SERVICE REPRESENTATIVE AND COORDINATE SERVICE INSTALLATION PRIOR TO COMMENCING WORK.

B. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER ALL FEES AND CONSTRUCTION COSTS CHARGED BY THE POWER, TELEPHONE AND CABLE UTILITY PROVIDERS FOR MAIN LINE EXTENSIONS OF SERVICE FOR A NEW INSTALLATION.

C. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL POWER, TELEPHONE AND CABLE TO THE NEW FACILITY.

D. ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUIT, CONDUCTORS AND CABLES AS SPECIFIED. REFER TO SPECIFICATION SECTIONS FOR REQUIREMENTS.

SPECIAL SYSTEMS

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH MILLWORK. ALL INSTALLATIONS SHALL COMPLY WITH ADA REQUIREMENTS.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS BEFORE ANY ROUGH-IN IN ORDER TO COORDINATE MANUFACTURER'S DRAWINGS FOR EQUIPMENT LOCATION AND INSTALLATION ACCESSORIES.

C. COORDINATE RUNS FOR CONDUIT UP IN JOIST AND FOR SUSPENDING REQUIREMENTS IN ACCORDANCE WITH STRUCTURAL PLANS.

D. FURNISH DUCT SMOKE DETECTOR FOR RETURN DUCT. COORDINATE EXACT LOCATION IN ACCORDANCE MECHANICAL DRAWINGS.

E. ALL CABLES ABOVE CEILING SHALL BE PLENUM RATED.

F. SEAL PENETRATION WITH FIRE PROOF SEALANT UL LISTED FOR FIRE WALLS. BOTH ENDS SHALL BE CHAMFERED FOR A NON SHARP EDGES.

G. ALL DATA-CONDUITS SHALL STUB-UP, ACCESSIBLE, ABOVE LAY-IN CEILING.

H. FURNISH AND INSTALL CABLING FOR DATA, FIRE ALARM AND INTERCOM AS SHOWN ON DETAILS.

I. MOUNT CAMERAS SHOWN ON PLANS 9-FEET AFF U.N.O.

J. CONDUITS SHALL BE REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.

K. BETWEEN ANY TWO PULL POINTS THERE SHALL BE NO CONDUIT WITH GREATER THAN 180 DEGREES OF BENDS OR EQUIVALENT.

L. WHERE CONDUIT LENGTH EXCEEDS 100FT AND/OR TWO 90 DEGREE BENDS OR EQUIVALENT PROVIDE PULL BOXES AS REQUIRED.

M. ALL ZONE CONDUITS (HOME RUN) FOR LOW VOLTAGE COMMUNICATIONS CABLING SHALL BE MARKED AT THEIR TERMINUS WITH A TAG THAT IDENTIFIES "FIRE ALARM, DATA, ETC" (ROOM NAME AND NUMBER) WHERE THE OTHER END OF THE CONDUIT TERMINATES.

PLUMBING

GENERAL PLUMBING NOTES:

A. COORDINATE EXACT LOCATION OF ALL FLOOR DRAINS WITH MECHANICAL EQUIPMENT LOCATION AND CONDENSATE DRAIN REQUIREMENTS PRIOR TO ANY INSTALLATION.

B. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION.

C. PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES AND OTHER STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

D. PLUMBING CONTRACTOR SHALL EXTEND ALL CONDENSATE AND INDIRECT DRAINS FROM EQUIPMENT TO FLOOR DRAINS.

E. PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

F. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.

G. INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

H. PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

I. REFER TO OWNERS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.

J. ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

K. PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, WATER HAMMER ARRESTORS AND TRAP PRIMER VALVES IN OTHERWISE INACCESSIBLE AREAS.

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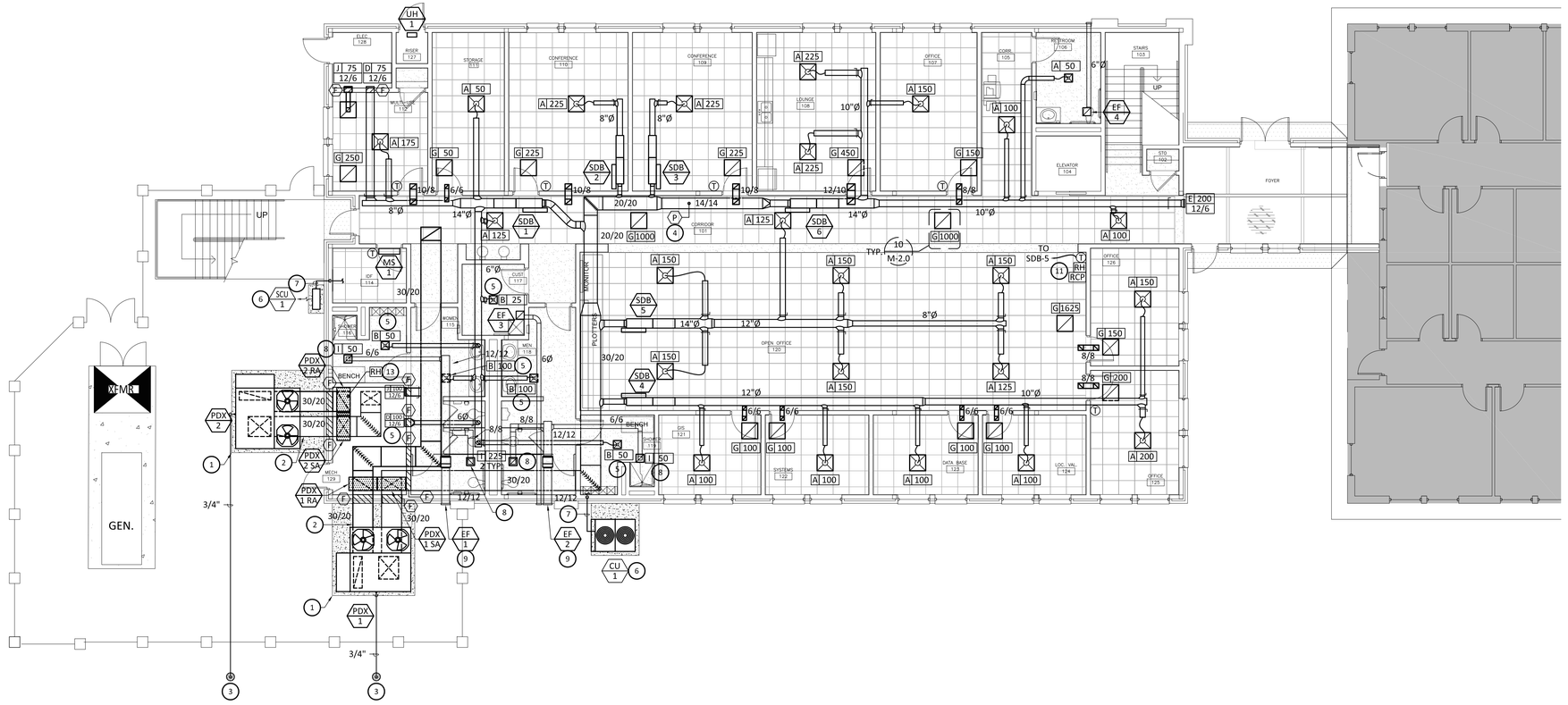
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MEP GENERAL NOTES

MEP-1.0



1 FIRST FLOOR MECHANICAL PLAN

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

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
2. HVAC SYSTEMS SHALL FUNCTION WITH STAND ALONE CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING AND TUBING IN 1" CONDUIT FROM HVAC UNITS TO NECESSARY CONTROL SENSORS IN BUILDING. AT MINIMUM, CONDUIT SHALL PROTECT CONTROL WIRING FOR RELATIVE HUMIDITY SENSOR, CO2 SENSOR, AND TUBING FOR DUCT STATIC PRESSURE SENSOR. WIRING AND TUBING SHALL BE OF SIZE RECOMMENDED BY UNIT MANUFACTURER.
3. SPACE TEMPERATURE SENSORS SHALL BE SUPPLIED BY SINGLE DUCT BOX TERMINAL UNIT MANUFACTURER. TERMINAL UNITS SHALL BE EQUIPPED AT THE FACTORY WITH ALL COMPONENTS NECESSARY FOR STAND ALONE CONTROLS.

KEY NOTES: (#)

1. FURNISH AND INSTALL 6" HIGH CONCRETE PAD.
2. NEW OUTDOOR SUPPLY AND RETURN DUCTS SHALL BE PRE-INSULATED DUCTS EQUAL TO R-12 THERMADUCT. OUTDOOR DUCT SHALL RUN STRAIGHT FROM PACKAGE DX UNIT TO THE BUILDING AS SHOWN WITH NO OFFSET FITTINGS OR ELBOWS. INSTALL MECHANICAL SLEEVE SEALS AND ESCUTCHEONS AT BUILDING WALL FOR A WEATHER TIGHT PENETRATION.
3. ROUTE FULL SIZE COPPER CONDENSATE DRAIN PIPE UNDER GROUND TO NEW DRYWELL. LOCATE DRYWELL 10' AWAY FROM UNIT. PIPE SHALL BE SLOPED 1%.
4. DUCT MOUNTED STATIC PRESSURE SENSOR. SENSOR SHALL BE FURNISHED BY PACKAGE DX UNIT MANUFACTURER.
5. PROVIDE AND INSTALL CABLE OPERATED BALANCING DAMPER EQUAL TO ROTO-TWIST MODEL RT-150. EXTEND CABLE TO SUPPLY AIR DIFFUSER AND TERMINATE.
6. PROVIDE 4" CONCRETE PAD FOR CONDENSING UNIT. ANCHOR UNIT TO CONCRETE PAD. COORDINATE PLACEMENT OF UNIT WITH MANUFACTURER MINIMUM SERVICE CLEARANCE REQUIREMENTS.
7. ROUTE REFRIGERANT LINES THROUGH EXTERIOR WALL TO RESPECTIVE AHU. INSTALL MECHANICAL SLEEVE SEALS AT EXTERIOR WALL PENETRATION (WEATHER TIGHT). SIZE REFRIGERANT PIPING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE ELASTOMERIC INSULATION ON BOTH SUCTION AND DISCHARGE LINES. WRAP OUTDOOR INSULATED REFRIGERANT PIPING WITH 0.020" ALUMINUM JACKET. PROVIDE MECHANICAL SLEEVE SEAL AT WALL PENETRATION AND CONCEAL WITH ESCUTCHEON.
8. PROVIDE CEILING AND INSTALL OPPOSED BLADE BALANCING DAMPER IN DUCT RISE ACCESSIBLE BY REMOVING GRILLE.
9. PROVIDE ACCESS PANEL LARGE ENOUGH TO GIVE ACCESS TO EXHAUST FAN FOR MAINTENANCE.
10. PROVIDE A 30" HIGH STEEL PLATFORM TO MOUNT AIR HANDLING UNIT. PLATFORM TO BE BUILT OF 2" ANGLE IRON AND HAVE 4"X4" PLATE LEG ENDS. PLATFORM TO BE PAINTED WITH YELLOW RUST PROOF PAINT. PROVIDE 4"x4" NEOPRENE PADS BETWEEN LEGS AND FLOOR.
11. INSTALL REMOTE CONTROL PANEL, AND RELATIVE HUMIDITY SENSOR CONTROLLING PDX-1 ON WALL.
12. INSTALL REMOTE CONTROL PANEL CONTROLLING PDX-2 ON WALL.
13. DUCT MOUNTED RELATIVE HUMIDITY SENSOR.

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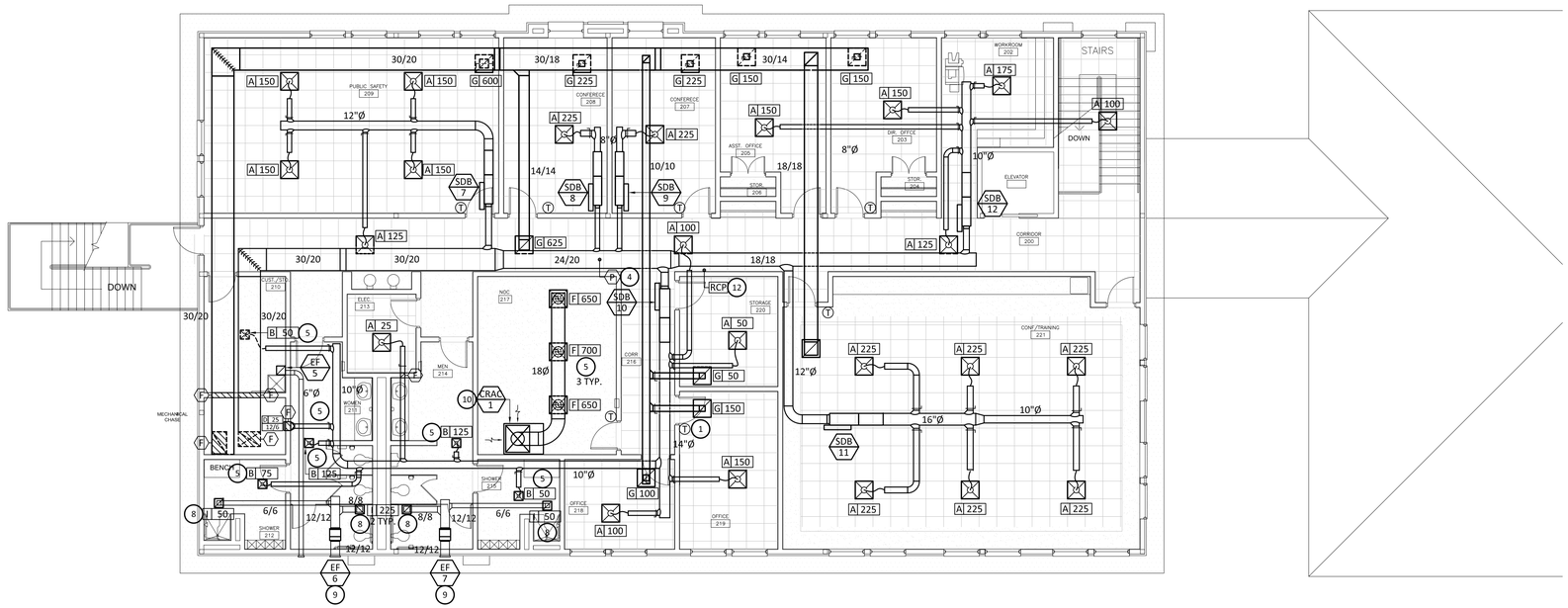
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MECHANICAL PLAN

M-1.0



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(12.) INSTALL REMOTE CONTROL PANEL CONTROLLING PDX-2 ON WALL.

13. DUCT MOUNTED RELATIVE HUMIDITY SENSOR.

1 SECOND FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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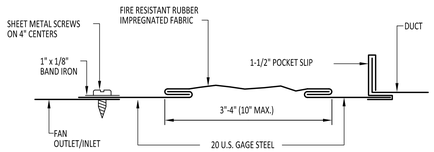
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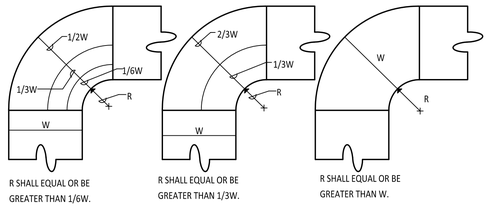
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MECHANICAL PLAN

M-1.1

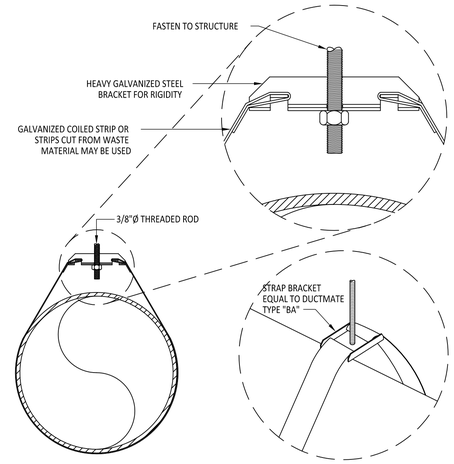


1 FLEXIBLE CONNECTION DETAIL
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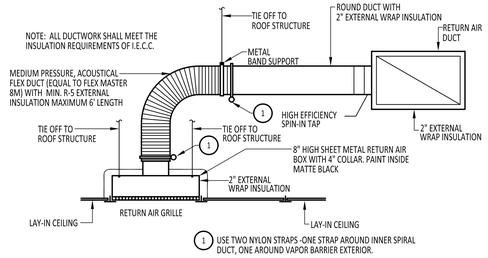


NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

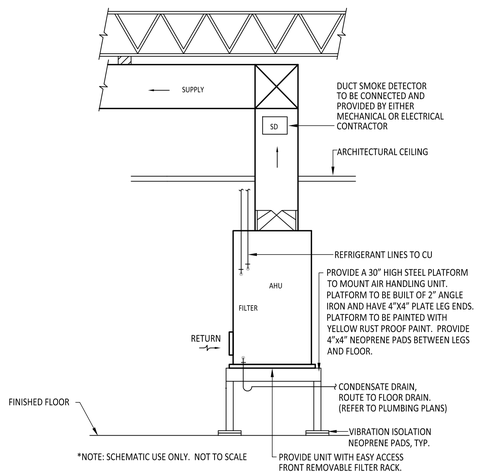
2 RADIUS DUCT ELBOW DETAIL
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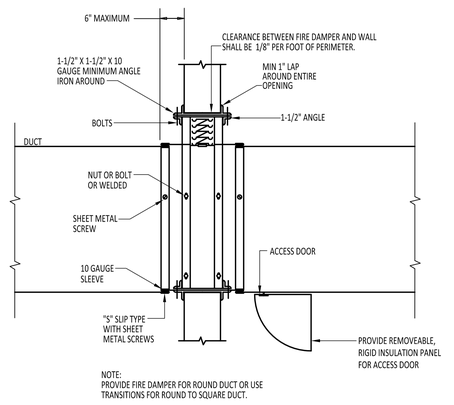
3 ROUND DUCT STRAP BRACKET
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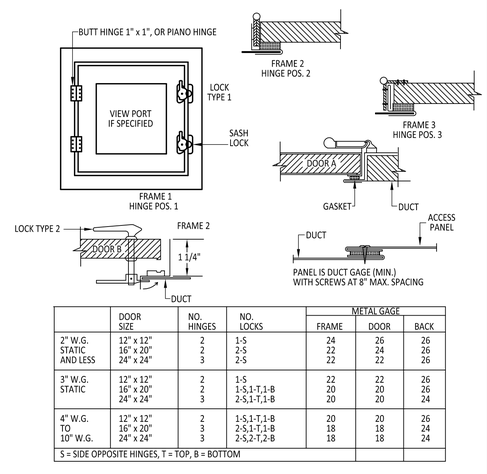
4 RETURN AIR GRILLE BOX CONNECTION
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5 AHU - SECTION VIEW
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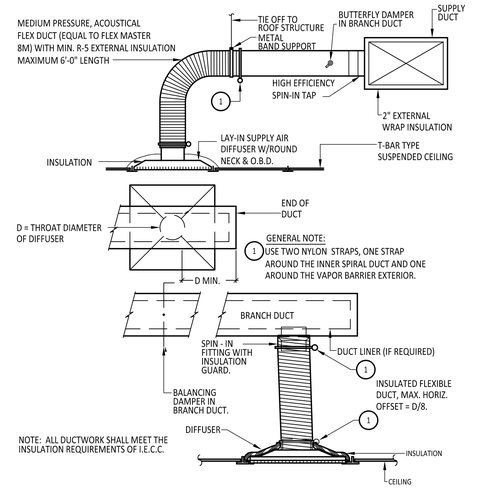


6 FUSIBLE LINK FIRE DAMPER
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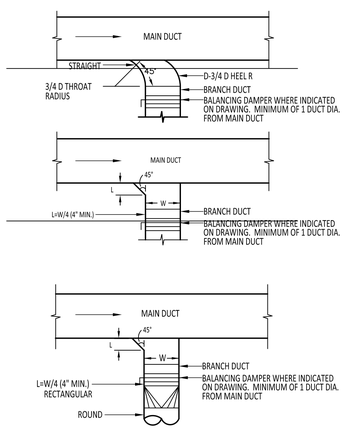


	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE FRAME	METAL GAGE DOOR	METAL GAGE BACK
2" W.G. STATIC AND LESS	12" x 12"	2	1-S	24	26	26
	16" x 20"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	12" x 12"	2	1-S	22	22	26
	16" x 20"	2	1-S,1-T,1-B	20	20	26
	24" x 24"	3	2-S,1-T,1-B	20	20	24
4" W.G. TO 10" W.G.	12" x 12"	2	1-S,1-T,1-B	20	20	26
	16" x 20"	3	2-S,1-T,1-B	18	18	24
	24" x 24"	3	2-S,2-T,2-B	18	18	24
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM						

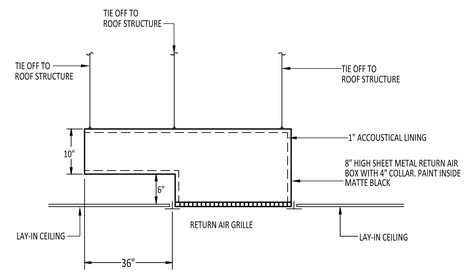
7 DUCT ACCESS DOOR DETAIL
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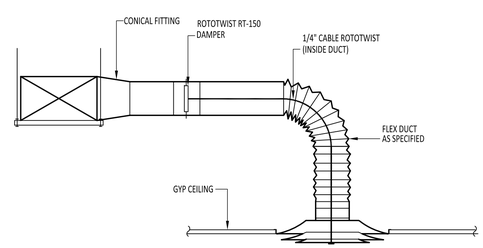
8 SUPPLY AIR DIFFUSER
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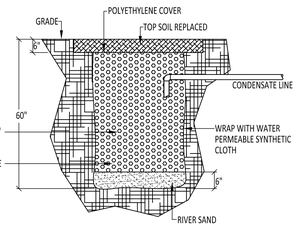
9 TYPICAL BRANCH CONNECTION
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10 RETURN AIR BOOT DETAIL
SCALE: N.T.S.



11 REMOTE CABLE OPERATED DAMPER
SCALE: N.T.S.



12 DRYWELL DETAIL
SCALE: N.T.S.

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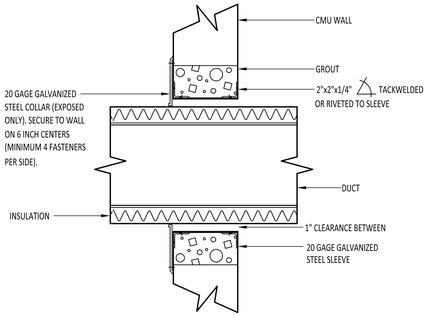
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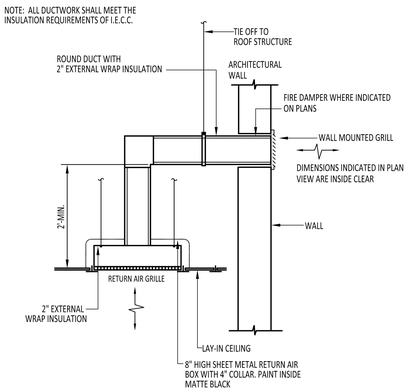
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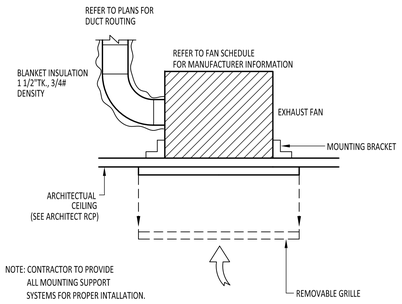
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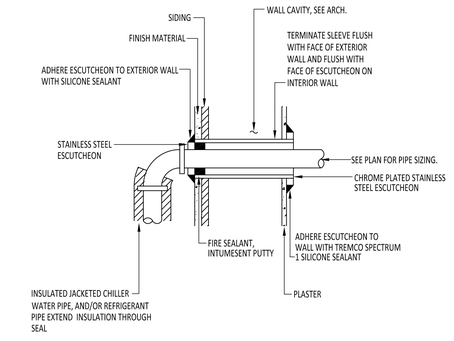
1 DUCT PENETRATION THRU WALL
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2 TRANSFER DUCT DETAIL
SCALE:N.T.S.



3 CEILING MOUNTED EXHAUST FAN
SCALE:N.T.S.



4 TYPICAL EXTERIOR WALL PENETRATION
SCALE:N.T.S.

MECHANICAL GENERAL LEGEND DUCTWORK SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ACCESS DOOR	AD	AD
BACKDRAFT DAMPER	BDD	BDD
FIRE DAMPER	F	F
FLEXIBLE CONNECTION	FC	FC
MOTORIZED DAMPER	M	M
CONTROL DAMPER	CDM	CDM
VOLUME DAMPER, MANUAL	VD	VD
DUCT ELBOW WITH TURNING VANES		
DUCT SECTION - SUPPLY AIR		
DUCT SECTION - EXHAUST AIR		
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR		
DUCT, INCLINED DROP		
DUCT, INCLINED RISE		
FLEXIBLE DUCT - ROUND		
DUCT TRANSITION	14/10 — 10/10	14/10 — 10/10
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)	10/10 — 8"Ø	12/12 — 8"Ø
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)	10/14	10/14

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ROUND DUCT, DIAMETER IN INCHES (NET CLEAR INSIDE DIMENSION)	8"Ø	8"Ø
AIR FLOW IN DIRECTION OF ARROW		
45°BRANCH TAKE-OFFS		
CONICAL LATERAL BRANCH TAKE-OFFS		
CEILING SUPPLY DIFFUSERS		
DIRECTION SUPPLY GRILLE, HATCH INDICATES BLOCKED QUADRANT		
CEILING RETURN GRILLE/REGISTER		
CEILING EXHAUST FAN (EF-_)		EF-_
CEILING EXHAUST GRILLE/REGISTER		
SIDEWALL SUPPLY GRILLE/REGISTER		
SIDEWALL RETURN/EXHAUST GRILLE/REGISTER		
EXTRACTOR		
DUCT TEE WITH SPLITTER DAMPER		
DOOR UNDERCUT	UC	UC
DOOR LOUVER	L	L

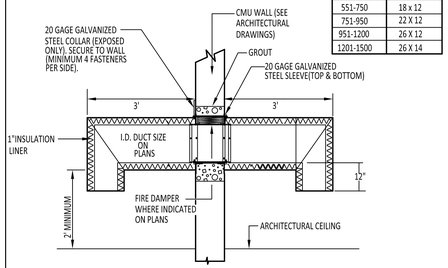
MISCELLANEOUS SYMBOLS

P	DUCT STATIC PRESSURE SENSOR
SD	DUCT SMOKE DETECTOR
CO_2	CARBON DIOXIDE SENSOR
	NEW CONNECTION TO EXISTING
H	HUMIDISTAT
RH	RELATIVE HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)
T	DUCT TEMPERATURE SENSOR
TC	TIME CLOCK
F	FREEZESTAT

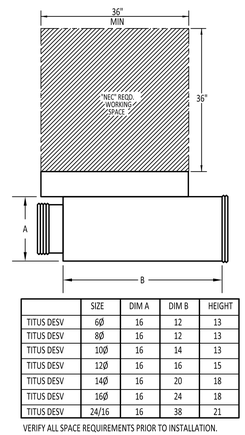
DIFFUSER, GRILLE OR REGISTER MARK
A 250 — AIR FLOW (CFM)
QUANTITY OF EXISTING DIFFUSERS
1@300 / 300 — AIR FLOW (CFM) PER DIFFUSER / TOTAL AIR FLOW (CFM)
AHU 1 — EQUIPMENT MARK / EQUIPMENT NUMBER
DIRECTION OF SECTION
01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR SECTIONS. / NUMBER OF REFERENCE DRAWING WHERE SECTION IS SHOWN.
01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR DETAILS. / NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.
ENLARGED DETAIL REFERENCE
MATCHLINE
LINE WITH HATCHING DESIGNATES DEMOLITION WORK

5 MECHANICAL LEGEND
SCALE:N.T.S.

PLENUM CROSS OVER DIMENSIONS	
CFM	DUCT SIZE
<150	10 X 6
151-250	12 X 8
251-350	16 X 8
351-450	16 X 10
451-550	18 X 10
551-750	18 X 12
751-950	22 X 12
951-1200	26 X 12
1201-1500	26 X 14



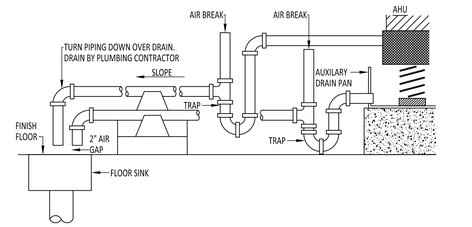
6 PLENUM CROSSOVER RETURN
SCALE:N.T.S.



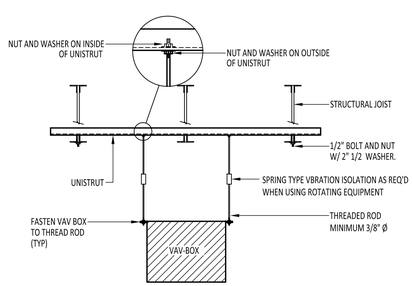
	SIZE	DIM A	DIM B	HEIGHT
TITUS DESV	6Ø	16	12	13
TITUS DESV	8Ø	16	12	13
TITUS DESV	10Ø	16	14	13
TITUS DESV	12Ø	16	16	15
TITUS DESV	14Ø	16	20	18
TITUS DESV	16Ø	16	24	18
TITUS DESV	24/16	16	38	21

VERIFY ALL SPACE REQUIREMENTS PRIOR TO INSTALLATION.

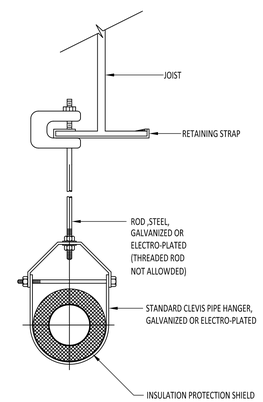
7 SDB BOX INSTALLATION CLEARENCES
SCALE:N.T.S.



8 AHU CONDENSATE DRAIN-FLR MTD
SCALE:8



9 VAV BOX SUSPENSION DTL
SCALE:N.T.S.



10 PIPE HANGER DETAIL
SCALE:N.T.S.

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LICENSED PROFESSIONAL ENGINEER
06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 19009
Drawing Date: 06-05-2019
Drawn: CC
Checked: GH
Scale:
ACAD File:

Revisions:

Sheet Title:

MECHANICAL DETAILS

M-2.1

PACKAGED DX ROOFTOP UNIT SCHEDULE

MARK	MANUF.	MODEL	BASIS OF DESIGN LXWXH (IN)	WEIGHT (LB)	AMBIENT TEMP. (°F)	IEER	EER	SUPPLY FAN TYPE	DRIVE	AIRFLOW (CFM)	VENT. (CFM)	RPM	BHP	E.S.P. (IN H20)	T.S.P. (IN H20)	MOTOR POWER (HP)	DX COIL TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	EAT DB/WB °F	LAT DB/WB °F	ROWS (MIN)	FPI (MAX)	MIN COOLING STAGES	FILTER TYPE	FILTER DEPTH (IN)	FILTER EFF. (%)	POWER VOLTAGE	MCA	MOCP
PDX-1	DAIKIN	DPS012A	91 X 97 X 57	2096	100	18	11.6	ECM	DIRECT	4100	650	1239	2.03	1.5	2	4	140476	114055	78.9/64.9	53.5/53.4	4	15	INFINITE	MERV 8	2	30	208/3/60	49.7	60
PDX-2	DAIKIN	DPS012A	91 X 97 X 57	2096	100	18	11.6	ECM	DIRECT	4100	750	1239	2.03	1.5	2	4	141495	115340	79.6/65.3	53.9/53.8	4	15	INFINITE	MERV 8	2	30	208/3/60	49.7	60

NOTES:

1. SINGLE POINT POWER WITH INTEGRAL, NON-FUSED, DISCONNECT.
2. DOUBLE WALL CONSTRUCTION WITH MINIMUM 1" FOAM INSULATION.
3. EER AND IEER SHALL BE AS SCHEDULED AND AHRI CERTIFIED.
4. ANGLED CONDENSER COIL WITH VANDAL GUARDS AND HINGED ACCESS PANELS.
5. CONDENSER COIL COATING WITH MINIMUM 5,000 HOUR SALT SPRAY TEST RATING PER ASTM B117.
6. UNIT MOUNTED MICROPROCESSOR CONTROLLER WITH LCD DISPLAY AND UNIT DIAGNOSTICS.
7. PROVIDE DUCT MOUNTED STATIC PRESSURE SENSOR THAT MODULATES THE INDOOR FAN SPEED TO MAINTAIN SETPOINT.
8. IN ADDITION TO UNIT MOUNTED CONTROLLER, PROVIDE REMOTE KEYPAD CONTROLLER TO BE MOUNTED IN BUILDING.
9. 1 YEAR PARTS, 5 YEAR COMPRESSOR PARTS WARRANTY.
10. VARIABLE SPEED ECM SUPPLY FAN AND VARIABLE SPEED INVERTER COMPRESSOR.
11. ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
12. OUTSIDE AIR HOOD AND 2 POSITION MOTORIZED DAMPER.
13. STAINLESS STEEL DRAIN PAN.
14. MODULATING HOT GAS RE-HEAT COIL AND RELATIVE HUMIDITY SENSOR FOR DEHUMIDIFICATION.
15. HORIZONTAL SIDE SUPPLY / RETURN CURB.
16. PROVIDE SERVICE PLATFORM WITH LADDER AND HANDRAIL.

SOUND POWER DATA

MARK	PATH	FREQUENCY 63	125	250	500	1000	2000	4000	8000
PDX-1 & PDX-2	SUPPLY:	78	82	78	81	77	74	70	65
	RETURN:	78	82	78	81	77	74	70	65
	RADIATED:	85	85	81	78	76	71	64	57

CRAC SPLIT DX UNIT SCHEDULE

TAG	INDOOR UNIT MANUF.	MODEL	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. WC)	POWER (HP)	TOTAL CAPACITY* (BTU/HR)	SENSIBLE CAPACITY* (BTU/HR)	EAT-DB °F	EAT-WB °F	LAT-DB °F	LAT-WB °F	ELECTRIC HEAT KW	VOLTAGE	MCA	MOCP	CONDENSING UNIT TAG	MANUF.	MODEL	AMBIENT AIR TEMP. °F	VOLTAGE	MCA	MOCP	EFFICIENCY SCOP DOE
CRAC-1	DATA AIRE	GUAU-02232	2000	0	0.5	1.3	64,900	50,500	75.0	61.0	51.6	49.1	10.7	208/3	76	90	CU-1	DATA AIRE	GHRC-05332	100	208/3	8	15	2.44

NOTES:

1. PROVIDE WITH SINGLE POINT POWER WITH FACTORY DISCONNECT FOR INDOOR UNIT AND INDEPENDENT SINGLE POINT POWER WITH FACTORY DISCONNECT FOR OUTDOOR UNIT.
2. PROVIDE WITH UNIT MOUNTED CONTROLLER WITH COLOR LCD SCREEN AND BACNET BAS INTERFACE.
3. PROVIDE FLOOR STAND TO MOUNT AIR HANDLING UNIT.
4. TOTAL AND SENSIBLE CAPACITY IS NET CAPACITY FROM UNIT.
5. PROVIDE VARIABLE SPEED COMPRESSOR.
6. PROVIDE EC DIRECT DRIVE PLUG FAN.
7. PROVIDE VIBRATION ISOLATOR PADS.
8. PROVIDE 4" MERV 8 FILTERS
9. PROVIDE FACTORY CONDENSATE PUMP.
10. R-410A REFRIGERANT. R-407C NOT ALLOWED.
11. PROVIDE ELECTRIC REHEAT WITH SCR CONTROL.
12. PROVIDE FACTORY E-COATED CONDENSER COIL.
13. PROVIDE EC CONDENSER FAN MOTORS.

SILENCERS SCHEDULES

Tag	MFGR	Model	Silencer Information Width (in)	Height (in)	Duct Dia. (in)	Length (in)	LegA (in)	LegB (in)	Duct System Information Air Direction	Flow (CFM)	Velocity (FPM)	PD (in. w.g.)	PD w/SE (in. w.g.)	Dynamic Insertion Loss (dB) 63	125	250	500	1k	2k	4k	8k
PDX-1 RA	PRICE	RHX60/XD	30.00 (42.00)	20.00		60.00			Reverse	4100	984	0.04	0.06	8	11	16	21	16	13	11	9
Const Notes: Galvanized, CL1 (22 GA), 22GA Perf Liner, Fiberglass, Inlet: 2" Slip, Outlet: 2" Slip, Extended Casing																					
PDX-1 SA	PRICE	RHX36/XD	30.00 (42.00)	20.00		36.00			Forward	4100	984	0.04	0.06	7	9	12	16	13	12	10	9
Const Notes: Galvanized, CL1 (22 GA), 22GA Perf Liner, Fiberglass, Inlet: 2" Slip, Outlet: 2" Slip, Extended Casing																					
PDX-2 RA	PRICE	RHX120/5F	30.00 (42.00)	20.00		120.00			Reverse	4100	984	0.10	0.15	15	27	45	55	55	48	28	18
Const Notes: Galvanized, CL1 (22 GA), 22GA Perf Liner, Fiberglass, Inlet: 2" Slip, Outlet: 2" Slip, Extended Casing																					
PDX-2 SA	PRICE	RHX36/XD	30.00 (42.00)	20.00		36.00			Forward	4100	984	0.04	0.06	7	9	12	16	13	12	10	9
Const Notes: Galvanized, CL1 (22 GA), 22GA Perf Liner, Fiberglass, Inlet: 2" Slip, Outlet: 2" Slip, Extended Casing																					

NEW SINGLE DUCT TERMINAL UNIT SCHEDULE

Tag	MFGR	Model	Unit Size	Max Primary (CFM)	Min Primary (CFM)	Inlet SP (in. w.g.)	Downstream SP (in. w.g.)	Min Oper PD (in. w.g.)	Dis. H (in)	Dis. W (in)	Max Dis NC	Max Rad NC	Reheat (CFM)	EC Capacity (kW)	EAT (°F)	LAT (°F)	Volts	Steps	MOP	MCA
SDB-1	PRICE	SDVQ8	10	850	340	0.50	0.25	0.01	12.50	14.00	--	--	425	4.5	55.00	88.50	208-3	SCRV-DAT	20.00	17.00
SDB-2	PRICE	SDVQ8	6	225	90	0.50	0.25	0.02	8.00	12.00	--	--	150	1.5	55.00	86.60	208-3	SCRV-DAT	15.00	5.70
SDB-3	PRICE	SDVQ8	6	225	90	0.50	0.25	0.02	8.00	12.00	--	--	150	1.5	55.00	86.60	208-3	SCRV-DAT	15.00	5.70
SDB-4	PRICE	SDVQ8	8	750	300	0.50	0.25	0.05	10.00	12.00	--	--	375	4.0	55.00	88.70	208-3	SCRV-DAT	20.00	15.10
SDB-5	PRICE	SDVQ8	10	1000	400	0.50	0.25	0.02	12.50	14.00	--	--	500	5.0	55.00	86.60	208-3	SCRV-DAT	20.00	18.90
SDB-6	PRICE	SDVQ8	10	1050	420	0.50	0.25	0.02	12.50	14.00	--	--	525	5.5	55.00	88.10	208-3	SCRV-DAT	25.00	20.80
SDB-7	PRICE	SDVQ8	8	725	290	0.50	0.25	0.05	10.00	12.00	--	--	365	3.5	55.00	85.30	208-3	SCRV-DAT	15.00	13.20
SDB-8	PRICE	SDVQ8	6	225	90	0.50	0.25	0.02	8.00	12.00	--	--	150	1.5	55.00	86.60	208-3	SCRV-DAT	15.00	5.70
SDB-9	PRICE	SDVQ8	6	225	90	0.50	0.25	0.02	8.00	12.00	--	--	150	1.5	55.00	86.60	208-3	SCRV-DAT	15.00	5.70
SDB-10	PRICE	SDVQ8	10	875	350	0.50	0.25	0.02	12.50	14.00	--	--	440	4.5	55.00	87.30	208-3	SCRV-DAT	20.00	17.00
SDB-11	PRICE	SDVQ8	12	1350	540	0.50	0.25	0.01	15.00	16.00	--	--	675	7.0	55.00	87.80	208-3	SCRV-DAT	30.00	26.50
SDB-12	PRICE	SDVQ8	8	700	280	0.50	0.25	0.04	10.00	12.00	--	--	350	3.5	55.00	86.60	208-3	SCRV-DAT	15.00	13.20

1. GENERAL AND SUBCONTRACTORS SHALL VERIFY ALL SPACE REQUIRMENTS PRIOR TO INSTALLATION AND DUCT FABRICATION.
2. UNIT CONTROLLERS SHALL BE SUPPLIED BY TERMINAL UNIT MANUFACTURER AND FACTORY MOUNTED. UNIT SHALL BE 208V-3PH INPUT.
3. BOX MANUFACTURER SHALL DISCHARGE TEMPERATURE CONTROLLER AND WALL T-STAT.
4. VERIFY CONTROL BOX LOCATION (RIGHTHAND/LEFTHAND) FROM PLANS.
5. PROVIDE UNIT WITH MOUNTING BRACKETS, INSULATED ELECTRIC HEATING COIL SECTION, DOOR INTERLOCK DISCONNECT SWITCH.
6. DASHES (--) INDICATE NC VALUES LESS THAN 20.
7. PROVIDE UNIT WITH INTEGRAL SILENCER.
8. PROVIDE UNIT WITH AIRFLOW SWITCH, CONTROLS TRANSFORMER.

EXHAUST FAN SCHEDULE

MARK	CFM	SERVICE	LOCATION	TYPE	RPM	ESP	HP	DRIVE	VOLTAGE	MAX. SONES	CONTROL	MANUFACTURER	MODEL	NOTES
EF-1	275	WOMEN 115	CEILING	INLINE	1571	0.4	0.06	DIRECT	120/1	7.5	LIGHTS	GREENHECK	SQ-80-VG	ALL
EF-2	275	MEN 118	CEILING	INLINE	1571	0.4	0.06	DIRECT	120/1	7.5	LIGHTS	GREENHECK	SQ-80-VG	ALL
EF-3	100	CUST 117	CEILING	CABINET	775	0.4	58 WATTS	DIRECT	120/1	0.5	LIGHTS	GREENHECK	CSP-B150	ALL
EF-4	100	RESTROOM 106	CEILING	CABINET	775	0.4	58 WATTS	DIRECT	120/1	0.5	LIGHTS	GREENHECK	CSP-B150	ALL
EF-5	100	CUST 210	CEILING	CABINET	775	0.4	58 WATTS	DIRECT	120/1	0.5	LIGHTS	GREENHECK	CSP-B150	ALL
EF-6	275	WOMEN 211	CEILING	INLINE	1571	0.4	0.06	DIRECT	120/1	7.5	LIGHTS	GREENHECK	SQ-80-VG	ALL
EF-7	275	MEN 214	CEILING	INLINE	1571	0.4	0.06	DIRECT	120/1	7.5	LIGHTS	GREENHECK	SQ-80-VG	ALL

NOTES:

1. INTEGRAL DISCONNECT SWITCH, PRE-WIRED AT FACTORY.
2. BACK DRAFT DAMPER.
3. FAN SPEED CONTROL, PRE-WIRED AT FACTORY.
4. SPRING HANGER VIBRATION ISOLATION DEVICES.
5. FLEX DUCT CONNECTIONS.

HIGH EFF. WALL MOUNT SPLIT SYSTEM SCHEDULE

INDOOR UNIT	MARK	MS-1
	NOMINAL TONS	3/4-TON
	INDOOR UNIT TYPE	WALL
	MAX SUPPLY CFM	381
	MINIMUM O/A (CFM)	N/A
	ENTERING AIR (DB/WB)	80/67
	TOTAL COOLING CAP. (BTUH)	9000
	SENSIBLE COOLING CAP. (BTUH)	8100
	HEATING CAPACITY (BTUH)	12000
	VOLTAGE/PHASE	208/1
	MCA	N/A
	MAX. FUSE SIZE	N/A
	MANUFACTURER	DAIKIN
	MODEL NO.	FTXS09LVJU
	WEIGHT (LBS)	20
CONDENSING UNIT	MARK	SCU-1
	NOMINAL TONS	3/4-TON
	VOLTAGE/PHASE	208/1
	MCA	8
	MAX. FUSE SIZE (AMPS)	15
	AMB. AIR TEMP. (CLG°F/HTG°F)	95/47
	REFRIGERANT	R-410A
	COOLING AMBIENT RANGE (STD)	14°F - 115°F
	HEATING MODE OPER. RANGE	5°F - 64°F
	MANUFACTURER	DAIKIN
	MODEL NO.	RXS09LVJU
	WEIGHT (LBS)	75
	SEER	24.5
	HTG EFF. (HSPF)	12.5
	MAX EQUIV. LINE LENGTH (FT)	65
	MAX. VERTICAL RISE (FT)	49

NOTES:

1 ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2 PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS.
3 PROVIDE CONDENSER COIL CORROSION PROTECTION.
4 CONTRACTOR TO PROVIDE 4" CONCRETE PAD FOR MOUNTING CONDENSING UNIT.
5 BOTH LIQUID AND SUCTION LINES MUST BE INSULATED (1/2" FLEXIBLE ELASTOMERIC IS ACCEPTABLE U.N.O. IN SPECS).
6 SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED.
7 PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
8 INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
9 PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
10 5 YEAR PARTS & 10 YEAR COMPRESSOR PARTS WARRANTY
11 PROVIDE CONDENSATE PUMP FACTORY MOUNTED OR FIELD WIRED TO INDOOR UNIT (SINGLE POINT POWER).
12 PROVIDE WIND BAFFLES FOR COOLING OPERATION TO 0°F.

GRILLE/DIFFUSER/REGISTER SCHEDULE

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NC. LEVEL (1)	REMARKS
A	SUPPLY	24"X24" MODULE SIZE, ALUMINUM, PLAQUE, LAY IN DIFFUSER WITH 4 WAY THROW, ROUND NECK.	PRICE ASPD	30	WHITE FINISH
B	SUPPLY	12"X12" MODULE SIZE, ALUMINUM, PLAQUE, SURFACE-MOUNTED DIFFUSER WITH 4-WAY THROW, ROUND NECK.	PRICE ASPD	30	WHITE FINISH
D	SUPPLY	SURFACE MOUNTED SUPPLY DIFFUSER WITH 3/4" SPACING, ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION WITH OPPOSED BLADE DAMPER.	PRICE 620	30	WHITE FINISH
E	SUPPLY	ALUMINUM DRUM LOUVER WITH INDIVIDUALLY ADJUSTABLE BLADES, MINIMUM 50° ANGLE OF ROTATION, OPPOSED BLADE DAMPER.	PRICE HCD	35	WHITE FINISH
G	RETURN	24"X24" EGGCRATE FACE, CEILING RETURN GRILL WITH BORDER FOR LAY-IN CEILING, ALUMINUM CONSTRUCTION.	PRICE 80	30	WHITE FINISH
F	SUPPLY	24"X24" PERFORATED FACE, CEILING SUPPLY GRILL WITH BORDER FOR LAY-IN CEILING. ALUMINUM CONSTRUCTION.	PRICE APDF	35	WHITE FINISH
I	RETURN	12"X12" EGGCRATE FACE, CEILING RETURN GRILLE, SURFACE MOUNTED, ALUMINUM CONSTRUCTION.	PRICE 80	30	WHITE FINISH
J	RETURN	SURFACE MOUNTED RETURN GRILLE WITH 3/4" SPACING. ALUMINUM CONSTRUCTION, 35° DEFLECTION.	PRICE 630	30	WHITE FINISH

(F) =THIS WILL DESIFNATE A STEEL FIRE RATED AIR DEVICE TYPE.

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS: MARK — A 250 — AIR FLOW (CFM

CAPACITY	FACE	NECK/FLEXIBLE CONNECTION
0-150	6 X 6	6"
151-285	9 X 9	8"
286-440	12 X 12	10"
441-550	12 X 12	12"
551-750	15 X 15	14"
750-1000	18 X 18	16"

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	ELECTRIC HEAT KW	ELECTRICAL VOLTS/Ø/HZ.	AMPS	CONTROL VOLTAGE	PERFORMANCE TEMP. RISE (°F)	AIR THROW	CFM	RECOM. MOUNTING HEIGHT	APPROX. WEIGHT (LBS.)
UH-1	REDDI	F2F5103N	RISER ROOM	3.3	208/3/60	6.9	208	26	12'	400	9'	25

NOTES:

1. INTEGRAL DISCONNECT SWITCH.
2. UNIT-MOUNTED THERMOSTAT.
3. OVERHEAT PROTECTION, AUTOMATIC RESET TYPE.
4. HORIZONTAL DISCHARGE CONFIGURATION.
5. WALL/CEILING BRACKET.

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STATE OF TEXAS — GABRIEL HINOJOSA — 96585 — LICENSED PROFESSIONAL ENGINEER — 06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL — EST 1967 — WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number: 19009
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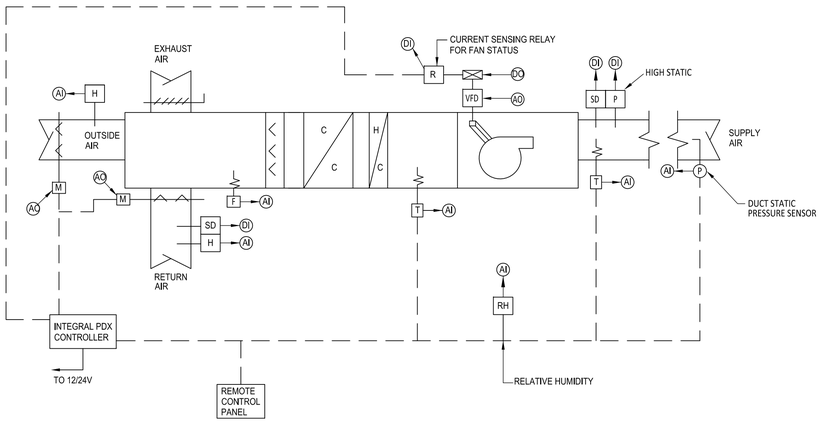
Revisions:

Sheet Title:

MECHANICAL SCHEDULES

M-3.0

1 MECHANICAL SCHEDULES
SCALE: N.T.S.



1 PACKAGED DX MULTI-ZONE VAV CONTROL DIAGRAM (TYPICAL OF PDX-1 & PDX-2)
SCALE: N.T.S.

START/STOP
THE UNIT SHALL START AND STOP BY PROGRAMMED OCCUPIED/UNOCCUPIED TIMED INPUT OR OPERATOR OVERRIDE. THE PACKAGED DX UNIT WILL BE CONTROLLED BY THE UNIT MANUFACTURER CONTROLS.

TEMPERATURE CONTROL
THE COLD DECK TEMPERATURE SENSOR SHALL CONTROL THE INVERTER DRIVEN COMPRESSOR(S) TO PROVIDE A SUPPLY AIR TEMPERATURE OF 55°F (ADJ.). THE DUCT STATIC PRESSURE SENSOR SHALL SIGNAL THE VFD OPERATING THE FAN MOTOR TO INCREASE OR DECREASE FAN SPEED AS APPROPRIATE TO MATCH STATIC PRESSURE SET POINT OF 1.0" W.G. (ADJ.). THE MINIMUM SUPPLY AIR AS ESTABLISHED BY TAB CONTRACTOR SHALL BE 1500 CFM.

HUMIDITY CONTROL
A SPACE MOUNTED HUMIDITY SENSOR SHALL MONITOR AND CONTROL THE SPACE RELATIVE HUMIDITY TO 50% (ADJ.). IF SPACE RELATIVE HUMIDITY REACHES 60%, THE SUPPLY AIR TEMPERATURE SHALL RESET TO 50°F AND HOT GAS REHEAT COIL SHALL MODULATE TO REHEAT SUPPLY AIR. WHEN RELATIVE HUMIDITY ATTAINS SET POINT, THE SYSTEM WILL RETURN TO NORMAL OPERATION; THE SUPPLY AIR TEMPERATURE SETPOINT SHALL REVERT BACK TO 55°F (ADJ.).

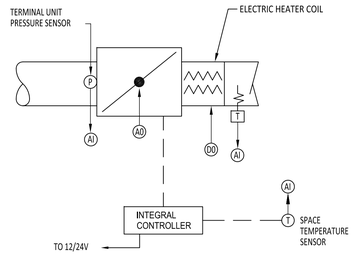
OUTSIDE AIR DAMPER CONTROL
THE UNIT SHALL AUTOMATICALLY ADJUST OUTDOOR AIR DAMPER POSITION IN RESPONSE TO CHANGES IN THE SUPPLY AIR FAN VOLUME TO MAINTAIN A NEARLY CONSTANT OUTDOOR AIR VOLUME AT ALL TIMES. MAXIMUM AND MINIMUM OUTDOOR AIR DAMPER POSITIONS AT BOTH DESIGN AND MINIMUM SUPPLY AIR VOLUMES SHALL BE SET BY T&B. MODULATE OUTSIDE AIR DAMPER POSITION FROM THE MAXIMUM VENTILATION LIMIT AT DESIGN SUPPLY AIR TO THE MINIMUM VENTILATION LIMIT AT MINIMUM SUPPLY AIR VOLUME.

ECONOMIZER CONTROL
WHEN OUTDOOR AIR ENTHALPY IS LOWER THAN THE RETURN AIR ENTHALPY, THE UNIT WILL CHANGEOVER TO ECONOMIZER MODE.

AUTOMATIC SHUTDOWN CONTROL
UPON DETECTION OF SMOKE AT ANY DUCT MOUNTED S.D. (FURNISHED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16) WITHIN THE AREA SERVED BY THE AHU, MOTOR SHALL BE DE-ENERGIZED. UPON DETECTION OF AIR BELOW 36°F, THE MANUAL RESET FREEZE STAT SHALL DE-ENERGIZE THE RTU MOTOR AND CAUSE THE OUTSIDE AIR DAMPER TO CLOSE. HIGH STATIC PRESSURE SWITCH (MANUAL RESET) WILL STOP THE FAN ON HIGH STATIC PRESSURE AS DETERMINED BY SYSTEM OPERATING CONDITIONS.

NIGHT/UNOCCUPIED SETBACK CONTROL
NIGHT/UNOCCUPIED SETBACK CONTROLS SHALL BE AVAILABLE AND ACTIVATED BY A ZONE TEMPERATURE SENSOR AND/OR RELATIVE HUMIDITY SENSOR. UNOCCUPIED SETBACK TEMPERATURE AND HUMIDITY CONTROL IS SIMILAR TO NORMAL OCCUPIED CONTROL EXCEPT THAT THE OUTSIDE AIR DAMPER IS CLOSED.

SETPOINTS	OCCUPIED MODE	UNOCCUPIED MODE
COOLING	74°F	80°F
HEATING	70°F	64°F
RH	50%	60%



2 SINGLE DUCT TERMINAL UNIT DIAGRAM
SCALE: N.T.S.

START/STOP
TERMINAL UNITS SHALL START/STOP BY PROGRAMMED INPUT, TIMED OVERRIDE, OR OPERATOR OVERRIDE.

TEMPERATURE CONTROL
THE SPACE TEMPERATURE SENSOR SHALL MONITOR ROOM AIR TO DETERMINE REQUIRED CONDITIONING OF AIR. THE SUPPLY AIR DAMPER SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM SET POINTS TO MAINTAIN PROGRAMMED OR OVERRIDE TEMPERATURE. IF THE SUPPLY AIR DAMPER HAS REACHED THE MINIMUM CFM POSITION AND THE SPACE TEMPERATURE IS 2°F (ADJ.) BELOW SETPOINT, THE ELECTRIC HEATER SHALL ENERGIZE IN STAGES TO MAINTAIN SETPOINT TEMPERATURE.

CONTROL
SPACE TEMPERATURE SENSOR SHALL CONTROL ROOM TEMPERATURE AND SHALL BE LOCALLY ADJUSTABLE FOR 2°F ABOVE OR BELOW SETPOINT. SENSOR SHALL HAVE AFTER HOURS OVERRIDE TO INITIATE COOLING/HEATING SYSTEMS. PROGRAM OVERRIDE FOR ONE HOUR AND SHALL BE ADJUSTABLE BY OPERATOR.

SETPOINTS	OCCUPIED MODE	UNOCCUPIED MODE
COOLING	74°F	80°F
HEATING	70°F	64°F
RH	50%	60%

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
2. HVAC SYSTEMS SHALL FUNCTION WITH STAND ALONE CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING AND TUBING IN 1" CONDUIT FROM HVAC UNITS TO NECESSARY CONTROL SENSORS IN BUILDING. AT MINIMUM, CONDUIT SHALL PROTECT CONTROL WIRING FOR RELATIVE HUMIDITY SENSOR, CO2 SENSOR, AND TUBING FOR DUCT STATIC PRESSURE SENSOR. WIRING AND TUBING SHALL BE OF SIZE RECOMMENDED BY UNIT MANUFACTURER.
3. SPACE TEMPERATURE SENSORS SHALL BE SUPPLIED BY SINGLE DUCT BOX TERMINAL UNIT MANUFACTURER. TERMINAL UNITS SHALL BE EQUIPPED AT THE FACTORY WITH ALL COMPONENTS NECESSARY FOR STAND ALONE CONTROLS.

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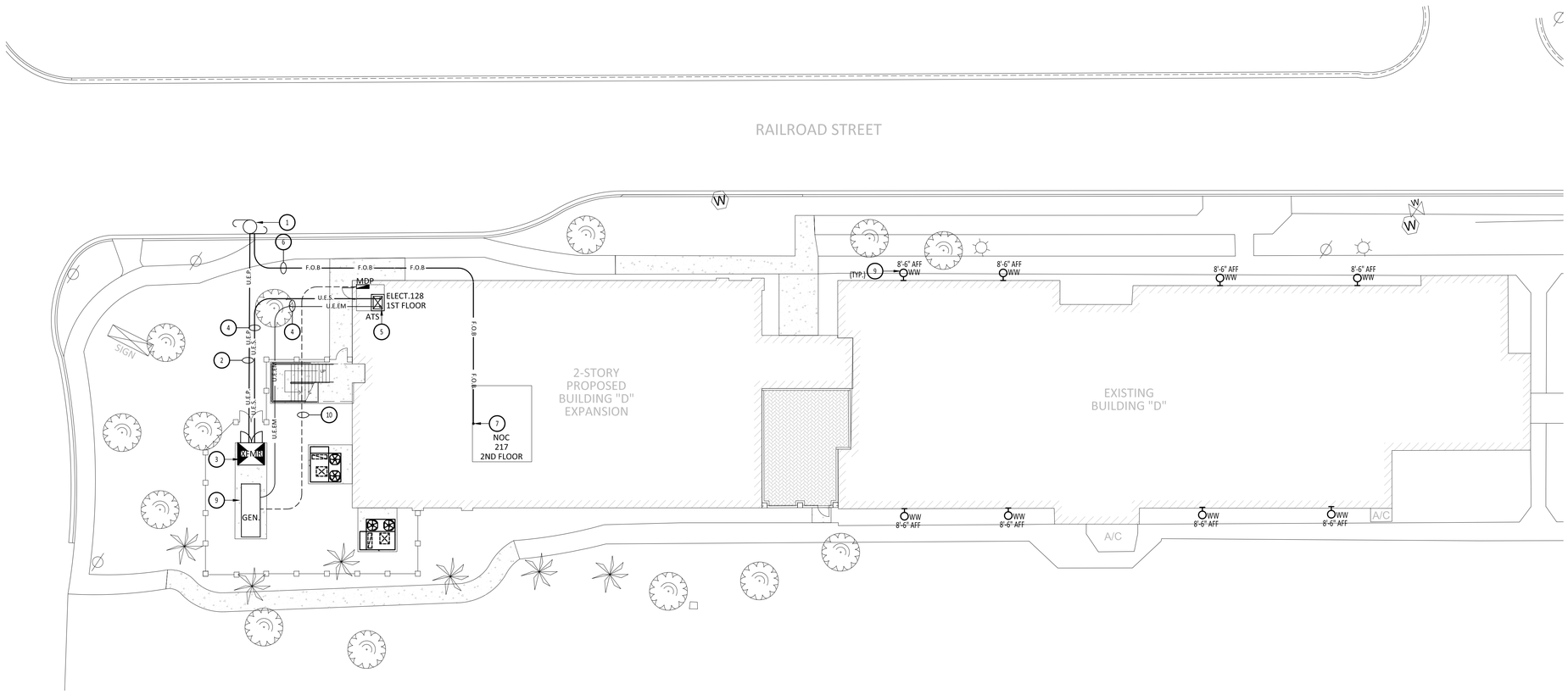
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MECHANICAL CONTROLS

M-4.0



SITE LEGEND

O.H.E — O.H.E	OVER HEAD ELECTRICAL
U.E.P. — U.E.P.	UNDER GROUND ELECTRICAL PRIMARY. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
F.O.B — F.O.B	FIBER OPTIC BACKBONE. 4-INCH CONDUIT WITH PULL STRINGS. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
U.E.EM — U.E.EM	UNDER GROUND ELECTRICAL EMERGENCY
TELECOM	TELECOMMUNICATIONS. 4-INCH CONDUIT WITH PULL STRINGS.
U.E.S. — U.E.S.	UNDERGROUND ELECTRICAL SECONDARY SERVICE. (MINIMUM DEPTH TO TOP OF CONDUIT: 36")
	ELECTRICAL RISER POLE
	UTILITY POWER PAD MOUNTED TRANSFORMER
	TELECOMMUNICATION/ELECTRICAL PULLBOX
	SITE LIGHTING LIGHT FIXTURES

1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (8)

1. APPROXIMATE LOCATION OF PROPOSED UTILITY POWER RISER POLE.
2. FURNISH AND INSTALL 4-INCH CONDUIT WITH PULL STRING FOR PRIMARY SERVICE. DEPTH TO TOP OF CONDUIT SHALL BE 48" MINIMUM.
3. APPROXIMATE LOCATION OF PROPOSED PAD MOUNTED UTILITY TRANSFORMER.
4. FURNISH AND INSTALL NEW NORMAL AND EMERGENCY ELECTRICAL SECONDARY SECONDARY SERVICE FEEDERS. DEPTH TO TOP OF CONDUIT SHALL BE 36"MINIMUM;REFER TO RISER FOR REQUIREMENTS.
5. APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH.
6. FURNISH AND INSTALL QTY.(2) 4" CONDUIT WITH NYLON PULL STRING FOR TELECOMMUNICATIONS (FIBER AND TELEPHONE) SERVICE. MINIMUM DEPTH TO TOP OF CONDUIT SHALL BE 36".
7. APPROXIMATE LOCATION OF BUILDING TELECOMMUNICATIONS DEMARCATION. STUB UP CONDUIT AT 12-INCHES ABOVE NATURAL GROUND. PROVIDE WITH PULL STRING AND CONDUIT CAP.
8. APPROXIMATE LOCATION OF 200 KW GENERATOR.
9. INSTALL NEW WALL PACKS "WW" TO REPLACE EXISTING WALL PACK. CONNECT NEW WALL PACK TO EXISTING CIRCUIT.
10. FURNISH AND INSTALL BRANCH CIRCUIT (2#10, 1#12EGC, 3/4"CONDUIT) FOR GENERATOR BATTERY CHARGING DEVICE AND 1-INCH CONDUIT WITH COMMUNICATION CABLING FOR THE GENERATOR ANNUNCIATING PANEL. REFER TO FLOOR PLANS FOR LOCATION OF GENERATOR ANNUNCIATING PANEL.

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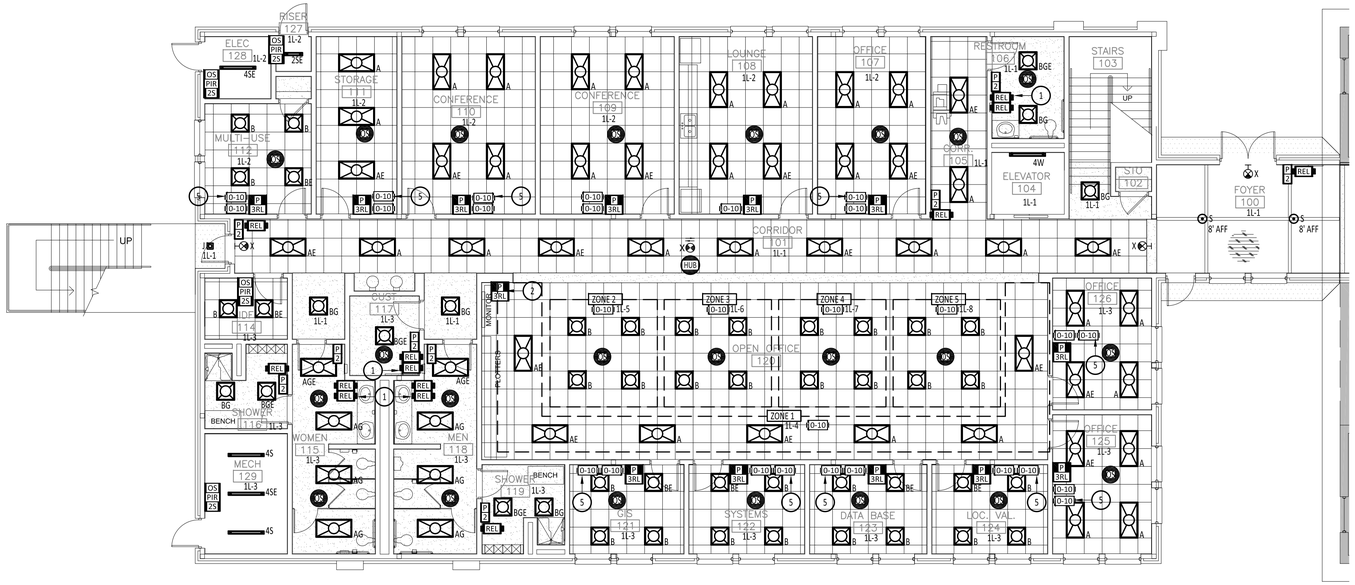
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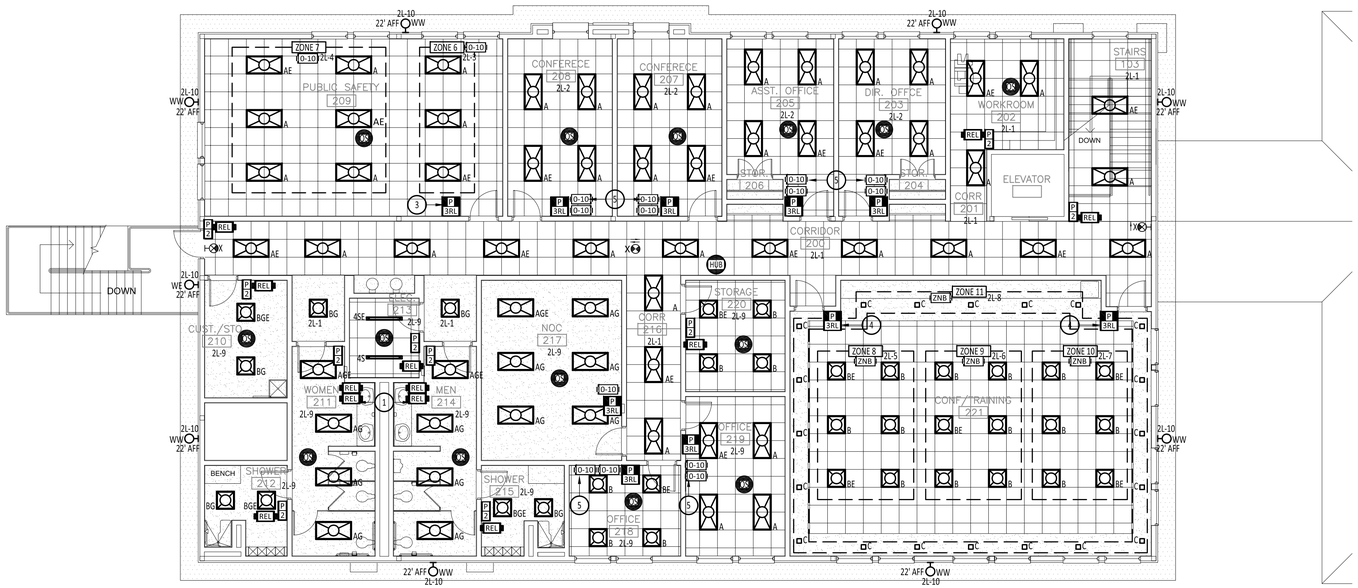
ELECTRICAL SITE PLAN

ES-1.0



1 ELECTRICAL LIGHTING PLAN - 1ST FLOOR

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



2 ELECTRICAL LIGHTING PLAN - 2ND FLOOR

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

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. POWER PACKS TO USED TO CONTROL RESTROOMS EXHAUST FAN. FAN SHALL REMAIN ON 5 MINUTES AFTER LIGHTS ARE TURNED OFF.
2. FURNISH AND INSTALL QTY(5) SWITCHES TO CONTROL ZONES SHOWN IN OPEN OFFICE 105.
3. FURNISH AND INSTALL QTY(2) SWITCHES TO CONTROL ZONES SHOWN IN PUBLIC SAFETY 209.
4. FURNISH AND INSTALL QTY(3) SWITCHES TO CONTROL ZONES SHOWN IN CONF./TRAINING 221.
5. FURNISH AND INSTALL POWER PACK TO CONTROL ON/OFF RECEPTACLES AT OFFICES. REFER TO SHEET E-1.1 FOR LOCATION OF RECEPTACLES.

LIGHTING CONTROLS LEGEND

- (OS) (PIR) (2S) — (WALL MOUNTED) LUTRON#LRF2-OKLB-P-WH
- P 2 — PJ2-2B-GWH-L01 (CW-1-WH-PICOWBX-ADAPT)
- P 3RL — PJ2-3BRL-GWH-L01 (CW-1-WH-PICOWBX-ADAPT)
- REL — RMJS-16R-DV-B
- D-10 — RMJS-8T-DV-B
- ZNB — ZUMMESH-JBOX-16A-LV
- OS PIR 2S — MS-OPS6M2-DV-WH
- LFR2-OCR2B-P
- HUB — HJS-2-FM

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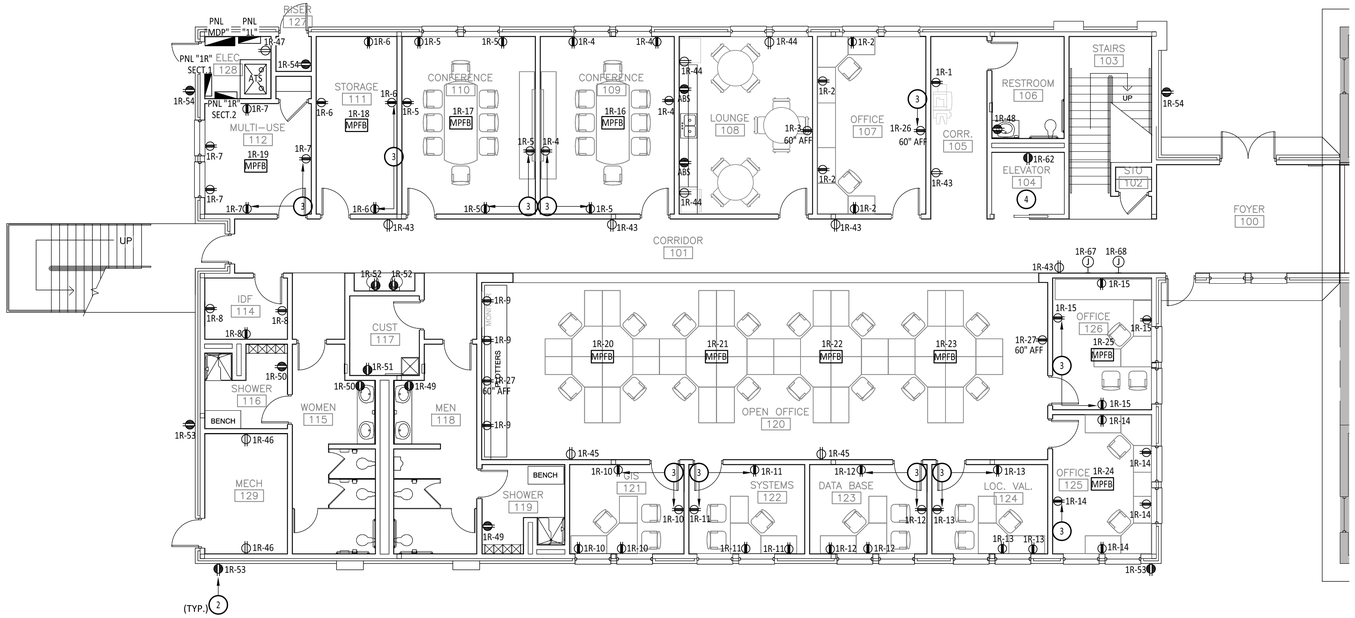
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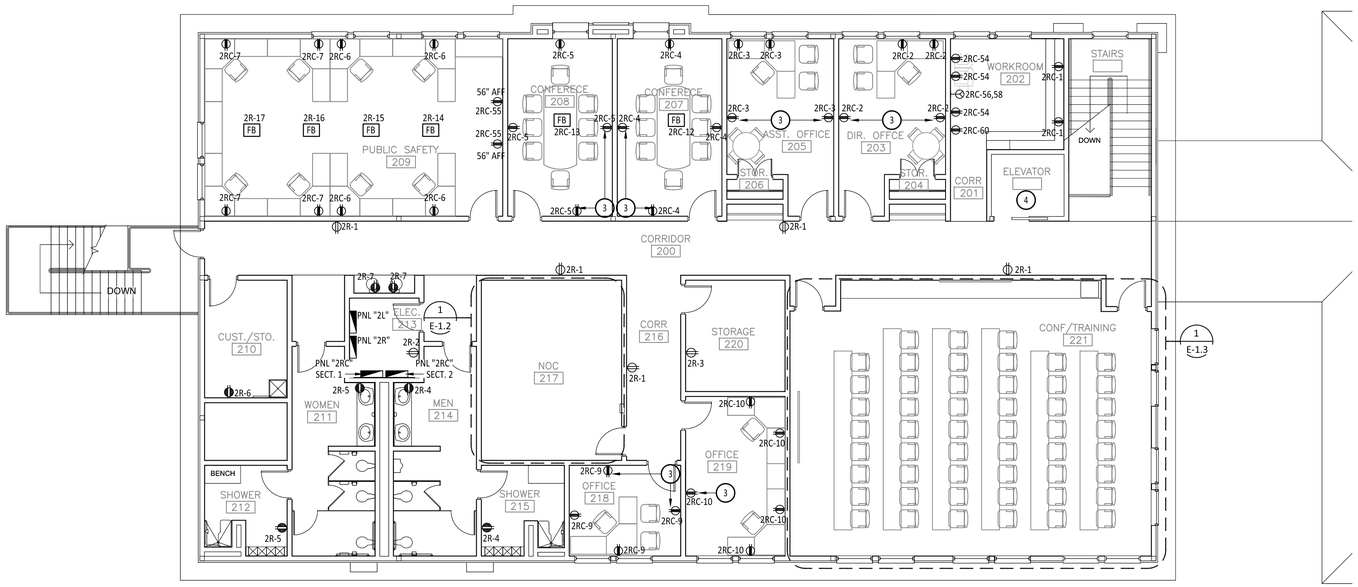
ELECTRICAL LIGHTING PLAN

E-1.0



1 ELECTRICAL POWER PLAN - 1ST FLOOR

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



2 ELECTRICAL POWER PLAN - 2ND FLOOR

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

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. FURNISH AND INSTALL POWER FOR FIRE ALARM CONTROL PANEL.
2. FURNISH AND INSTALL FLUSH MOUNT GFCI WEATHER PROOF WHILE IN USE SINGLE GANG FLUSH MOUNTED COVER ASSEMBLY EQUAL TO LEGRAND #WIUFC105.
3. CIRCUITS SHALL BE CONTROLLED VIA POWER PACK. REFER TO SHEET E-1.0 LIGHTING CONTROL LEGEND FOR MODEL NUMBER.
4. REFER TO SHEET E-2.0 DETAIL #8 FOR ELEVATOR INFORMATION.

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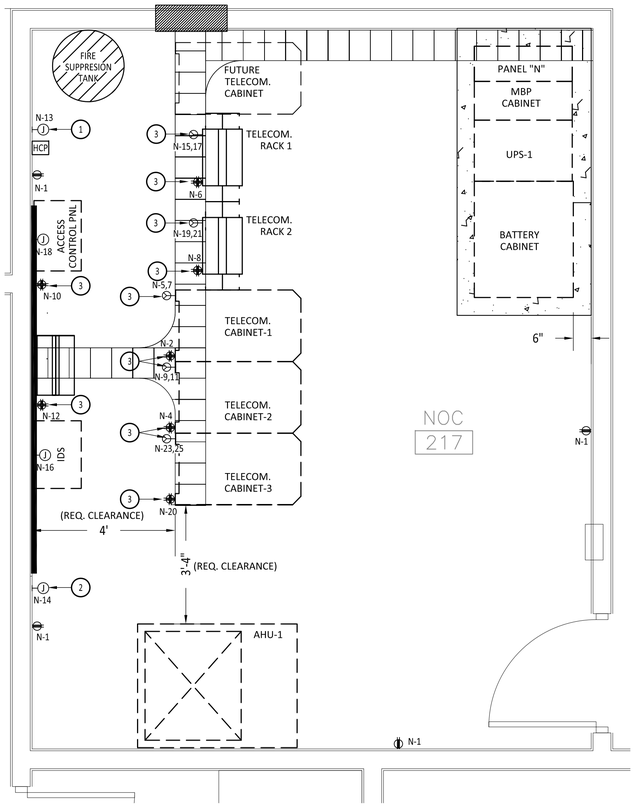
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ELECTRICAL POWER PLAN

E-1.1



PANELBOARD "N"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: NOC 217

150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1

BUSES: MAIN - 150A; NEUTRAL - 200%; ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	720		IG RCPT. NOC 217	20/1	1	A	2	20/1	IG QUAD RCPT. TELECOM CABINET-1	0	720	
0	720		SPARE	20/1	3	B	4	20/1	IG QUAD RCPT. TELECOM CABINET-2	0	720	
0	0	3120	SPECIAL PURPOSE RCPT. TELECOM CABINET-1	35/2	5	C	6	20/1	IG QUAD RCPT. TELECOM RACK-1	0	0	
0	0	3120	"	-	7	A	8	20/1	IG QUAD RCPT. TELECOM RACK-2	0	0	
0	0	3120	SPECIAL PURPOSE RCPT. TELECOM CABINET-2	35/2	9	B	10	20/1	IG QUAD RCPT. ACCESS CONTROL	0	720	
0	0	3120	"	-	11	C	12	20/1	IG QUAD RCPT. INTRUSION DETECTION	0	720	
0	0	360	CLEAN AGENT RELEASE PANEL	20/1	13	A	14	20/1	FIRE ALARM CONTROL PANEL	0	0	360
0	0	3120	SPECIAL PURPOSE RCPT. TELECOM RACK-1	35/2	15	B	16	20/1	INTRUSION DETECTION PANEL	0	0	360
0	0	3120	"	-	17	C	18	20/1	ACCESS CONTROL PANEL	0	0	360
0	0	3120	SPECIAL PURPOSE RCPT. TELECOM RACK-2	35/2	19	A	20	20/1	IG QUAD RCPT. TELECOM RACK-3	0	720	
0	0	3120	"	-	21	B	22	20/1	SPARE	0	0	
0	0	3120	SPECIAL PURPOSE RCPT. TELECOM CABINET-3	35/2	23	C	24	20/1	SPARE	0	0	
0	0	3120	"	-	25	A	26	20/1	SPARE	0	0	
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0 DEMAND
VA:R (RECEPTACLES)	5040	CONNECTED	5040 DEMAND
VA:O (OTHER)	32640	CONNECTED	32640 DEMAND
VA: TOTAL	37680	CONNECTED	37680 DEMAND
AMPS: TOTAL	105	CONNECTED	105 DEMAND

L	R	O		TOTAL		
0	2160	10080	VA CONNECTED TO A PHASE	12240	VA =	102 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	2160	9720	VA CONNECTED TO B PHASE	11880	VA =	99 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	720	12840	VA CONNECTED TO C PHASE	13560	VA =	113 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	5040	32640	**TOTAL**	37680	VA	

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. FURNISH AND INSTALL POWER FOR CLEAN AGENT RELEASE PANEL-NOVEC 1230 CLEAN AGENT.
2. FURNISH AND INSTALL POWER FOR FIRE ALARM CONTROL PANEL.
3. REFER TO DETAILS AT SHEET TESS-1.2 FOR MOUNTING HEIGHT REQUIREMENTS.

1 ELECTRICAL POWER PLAN ENLARGEMENT - NOC 217
SCALE: 1/2" = 1'-0"

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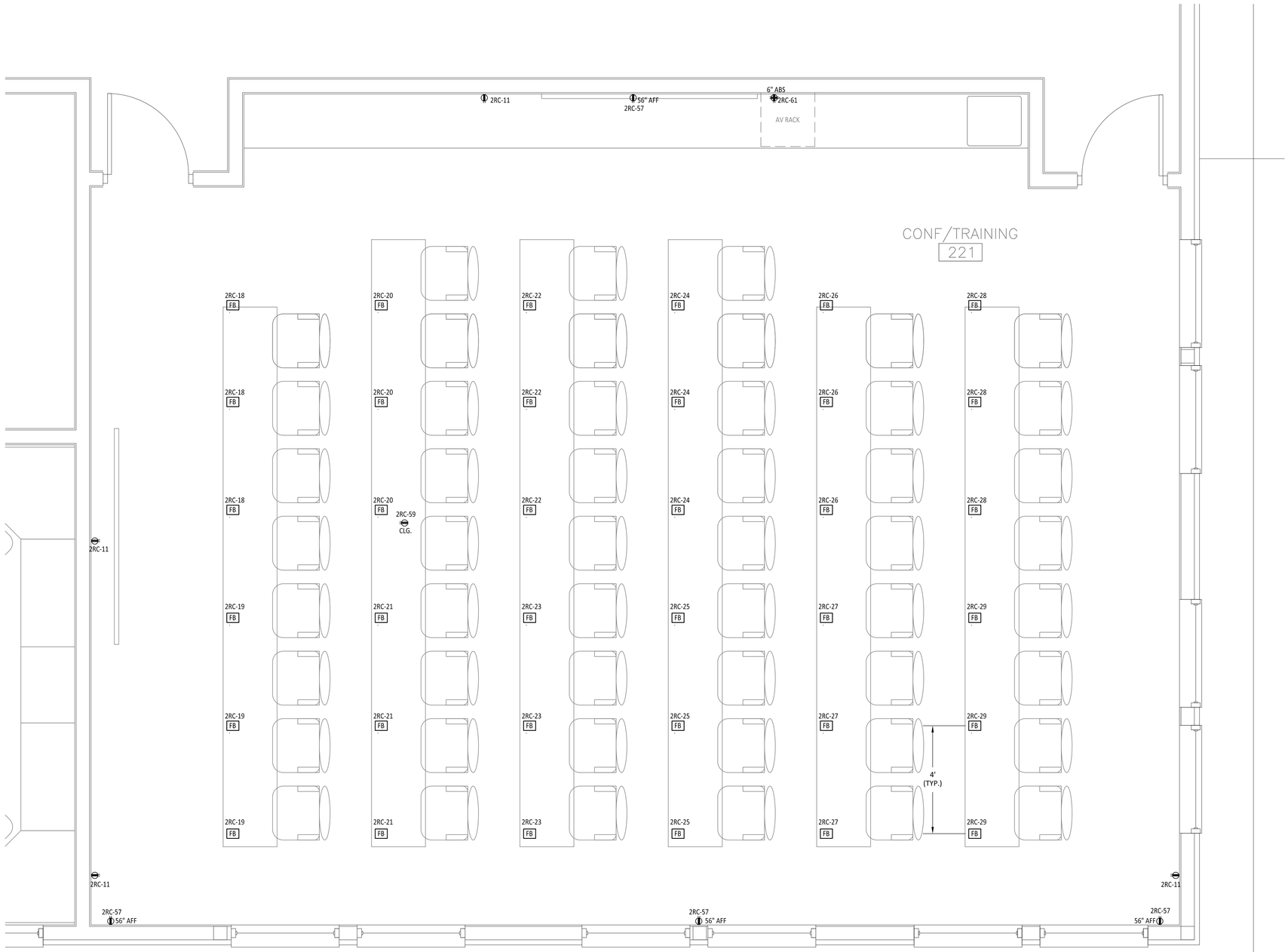
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ELECTRICAL POWER PLAN ENLARGEMENT

E-1.2



1 ELECTRICAL POWER PLAN ENLARGEMENT - CONF./TRAINING RM.
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

(#)

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STATE OF TEXAS
JOSE ANTONIO NICANOR
108783
LICENSED
PROFESSIONAL ENGINEER
06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST. 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
Drawing Date:	06-05-2019
Drawn:	K.A.
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Scale:	
ACAD File:	

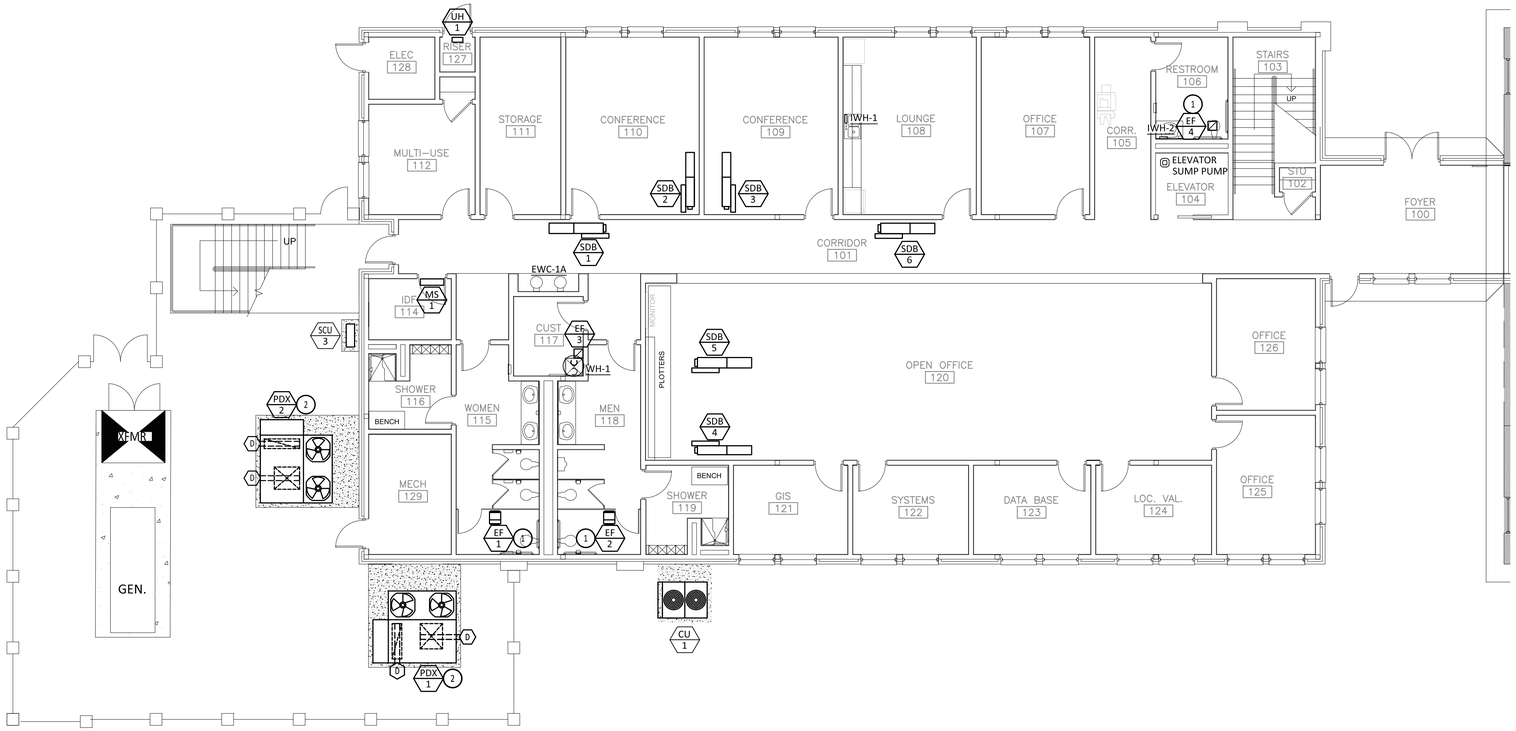
Revisions:

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Sheet Title:

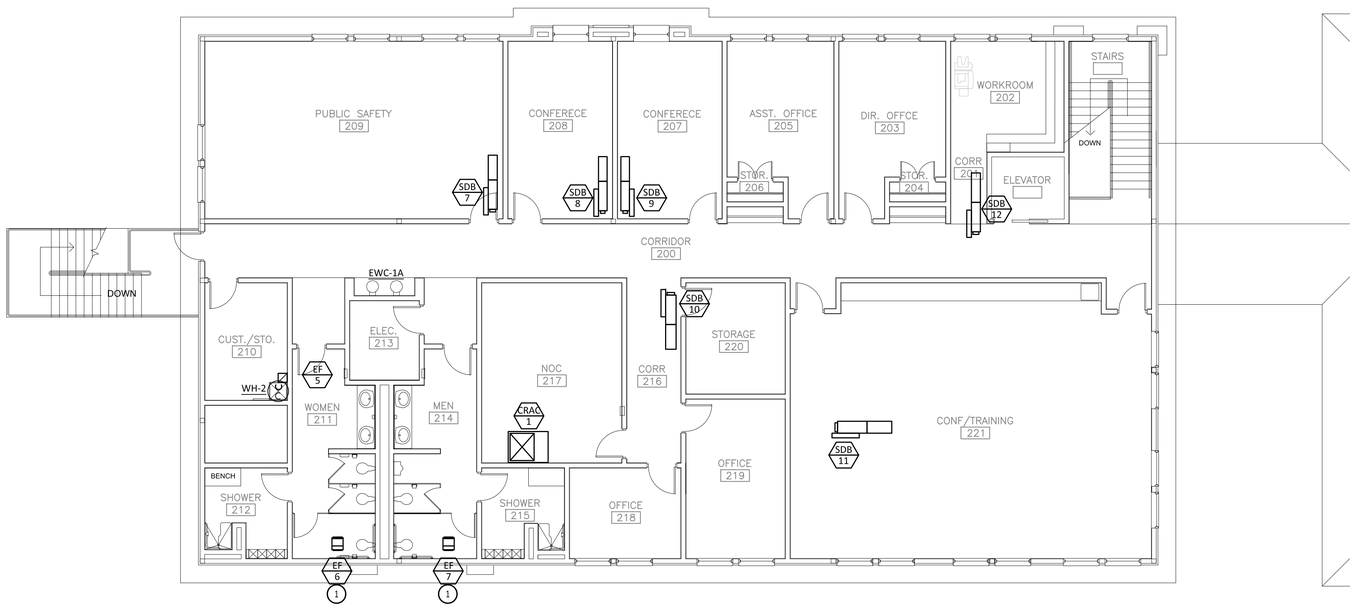
ELECTRICAL POWER PLAN ENLARGEMENT

E-1.3



1 ELECTICAL MECHANICAL CONNECTION PLAN - 1ST FLOOR

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



2 ELECTICAL MECHANICAL CONNECTION PLAN - 2ND FLOOR

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

MECHANICAL EQUIPMENT CONNECTION

AIR HANDLING UNITS		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
PDX-1	3#8, 1#10G, 3/4"C	FACTORY PROVIDED
PDX-2	3#8, 1#10G, 3/4"C	FACTORY PROVIDED
SINGLE DUCT TERMINAL UNIT		
SDB-1	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-2	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-3	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-4	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-5	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-6	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-7	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-8	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-9	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-10	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-11	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
SDB-12	3#12, 1#12G, 3/4"C	30/NF/3P, NEMA 1
UNIT HEATER		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
UH-1	3#12, 1#12G, 3/4"C	FACTORY PROVIDED
EXHAUST FANS		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
EF-1	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-2	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-3	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-4	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-5	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-6	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
EF-7	2#12, 1#12G, 1/2"C	FACTORY PROVIDED
SUMP PUMP		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
SP-1	2#12, 1#12G, 1/2"C	20/20AF/1P, NEMA 1
WATER HEATER		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
IWH-1	2#10, 1#12G, 1/2"C	30/29AF/2P, NEMA 1
IWH-2	2#10, 1#12G, 1/2"C	30/29AF/2P, NEMA 1
WH-1	3#2, 1#3G, 1-1/4"C	90/86AF/3P, NEMA 1
WH-1	3#2, 1#3G, 1-1/4"C	90/86AF/3P, NEMA 1

GENERAL NOTES:

A. ALL DISCONNECT SWITCHES SHALL BE INSTALLED WITHIN 4-FEET THE DEVICE.

B. EXHAUST FANS FOR RESTROOM ARE CONTROLLED WITH LIGHTS.

C. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATIONS.

GENERAL NOTES:

REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. EXHAUST FANS SHALL BE CONTROLLED WITH LIGHT SWITHCES.
2. FURNISH AND INSTALL DUCT SMOKE DETECTORS. CONNECHT DUCT SMOKE DETECTORS TO FIRE ALARM CONTROL PANEL.

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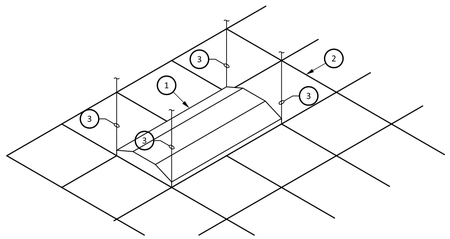
ELECTRICAL MECHANICAL CONNECTION PLAN

E-1.4

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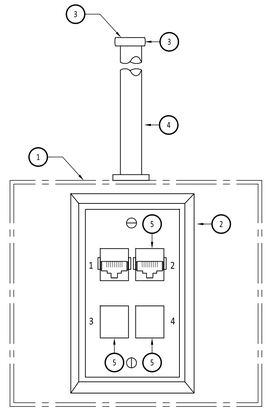
KEYNOTES:

1. TYPICAL LIGHT FIXTURE.
2. LAY-IN OR GYPSUM BOARD CEILING MOUNTING DETAIL. IMAGE MAY BE MIRRORED.
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF THE LIGHT FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS, IE. T-BARS.



1 TYPICAL LAY-IN FIXTURE

SCALE:N.T.S.

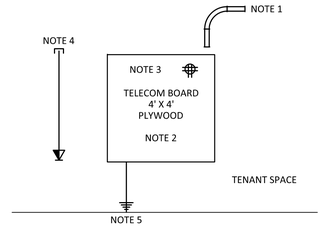


KEYED NOTES:

1. RECESSED DOUBLE GANG J-BOX(4" X 4" X 2 5/8") WITH 1"Ø CONDUIT AND PULL STRING COMPLETE WITH AN INTERIOR WALL SINGLE GANG MUDRING.
2. COMMUNICATION CABLING, OUTLETS, FACE PLATES AND JACKS SUPPLIED/INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FACE PLATE TYPE AND COLOR WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO PURCHASE.
3. END OF CONDUIT DEBURRED AND FITTED WITH PROTECTIVE GROMMET.
4. 1"Ø EMT CONDUIT C/W 200 LBS 1/4" POLYLINE PULL STRING.
5. PROVIDE 8 PIN/8 POSITION TERMINATION JACKS FOR EACH CABLE(#). FILL UNUSED POSITIONS WITH BLANKS. (REFER TO PLANS FOR QUANTITY REQUIRED.)

2 TYPICAL DATA/TELE. OUTLET DETAIL

SCALE:N.T.S

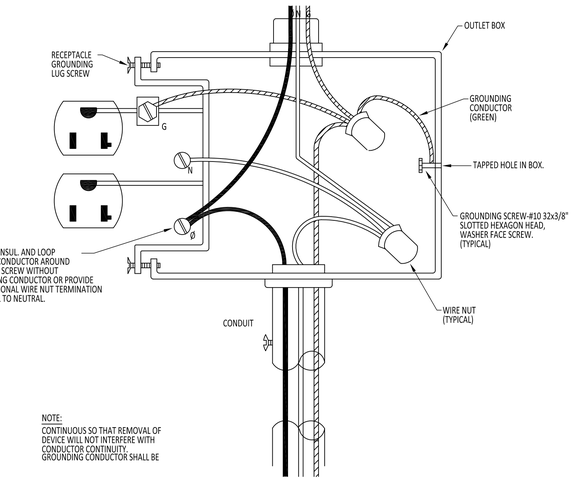


TELECOM RISER NOTES:

1. NEW 2" CONDUIT RUN OVERHEAD TO BUILDING TELECOM CABINET.
2. 3/4" FINISH GRADE PLYWOOD BACKBOARD PAINTED WITH FLAME RETARDANT PAINT (BLACK). MOUNT 24" A.F.F. TO BOTTOM OF BOARD.
3. PROVIDE (2) DOUBLE DUPLEX RECEPTACLES ON A DEDICATED 20A CIRCUIT FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT.
4. TELEPHONE/DATA OUTLET MOUNTED AT 18" A.F.F. TO CENTER WITH 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING.
5. PROVIDE #6 COPPER GROUND TO SERVICE GROUND BAR WITH ADEQUATE SLACK FOR GROUNDING OF TELECOM EQUIPMENT.

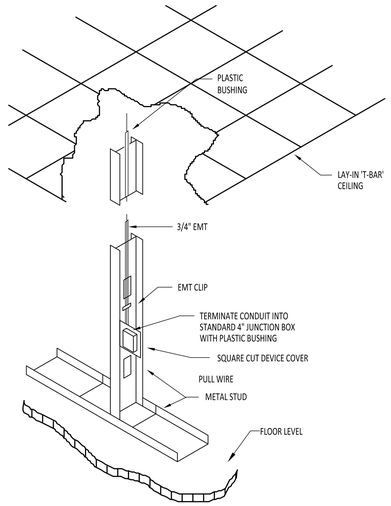
7 SERVICE ENTRANCE SYSTEM GROUNDING DETAIL

SCALE:N.T.S



3 TYPICAL RECEPTACLE GROUNDING DETAIL

SCALE:N.T.S.



4 TELEPHONE OUTLET IN INSUL. METAL STUD WALL

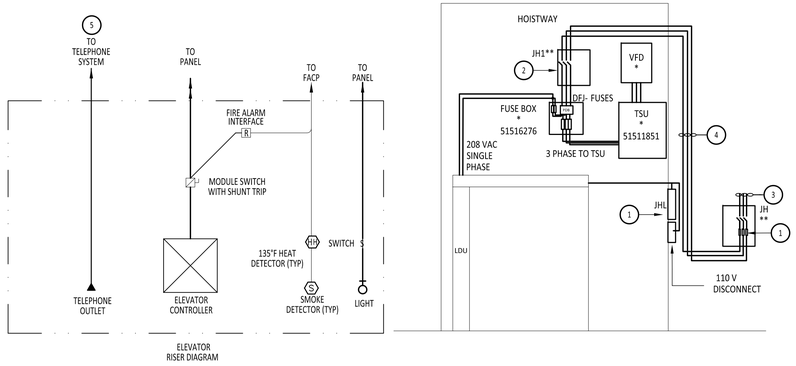
SCALE:N.T.S.

KEY NOTES:

1. FURNISH AND INSTALL NEMA 1, 60A/60AF/3P SAFETY DISCONNECT. FURNISH WITH FUSES EQUAL TO BUSSMANN DFJ.FURNISH AND INSTALL WITH AUXILIARY CONTACTS. MAKE CONNECTION INTERFACE PER WITH HOIST DISCONNECT AND INSPECTION & TEST PANEL PER MANUFACTURER RECOMMENDATIONS. AUXILIARY CONTACTS SHALL 24VOLTS, DC, 2-AMP (MAX) .135 AMPS (MIN) NON INDUCTIVE.
2. FURNISH AND INSTALL NEMA 1, 60A/NF/3P SAFETY DISCONNECT.FURNISH AND INSTALL WITH AUXILIARY CONTACTS. AUXILIARY CONTACTS SHALL 24VOLTS, DC, 2-AMP (MAX) .135 AMPS (MIN) NON INDUCTIVE.
3. FURNISH AND INSTALL ELEVATOR FEEDERS CONSISTING OF 3#6, 1#10G, 1-1/2"CONDUIT. CONNECT TO PANEL MDP.
4. EXTEND CIRCUIT TO THE CONTROLLER AND MOTOR.
5. FURNISH AND INSTALL TELEPHONE SERVICE.

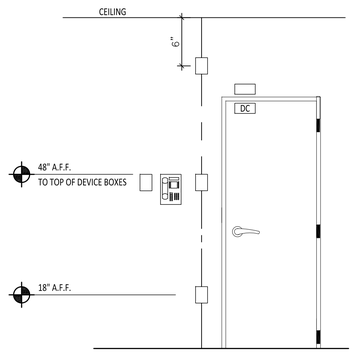
ABBREVIATION USED:
JH - MAINLINE DISSCONNECT
JH1 - HOISTWAY AUXILIARY DISCONNECT
JHS - INSPECTION AND TEXT PANEL SWITCH
KVA - KILO VOLT AMPERES
LDU - INSPECTION AND TEST PANEL
NA - NOT APPLICABLE
OCDP - OVER CURRENT PROTECTION DEVICE
TA - 3 PHASE AUTO TRANSFORMER
*COMPONENTS PROVIDED BY MANUFACTURER

ABBREVIATION USED:
SCCR - SHORT CIRCUIT CURRENT RATING
TSU - MOTOR CONTROL
TAS - TEST & INSPECTION PANEL AUTOTRANSFORMER
VFD - VARIABLE FREQUENCY DRIVE
XFMR - TRANSFORMER
PDB - POWER DISTRIBUTION BLOCK
M - MOTOR
(JH, JH1 AND 110V DISCONNECTS BY ELECTRICAL CONTRACTOR)
**COMPONENT PROVIDED BY CONTRACTOR



8 ELEVATOR ELECTRICAL CONNECTION DETAIL

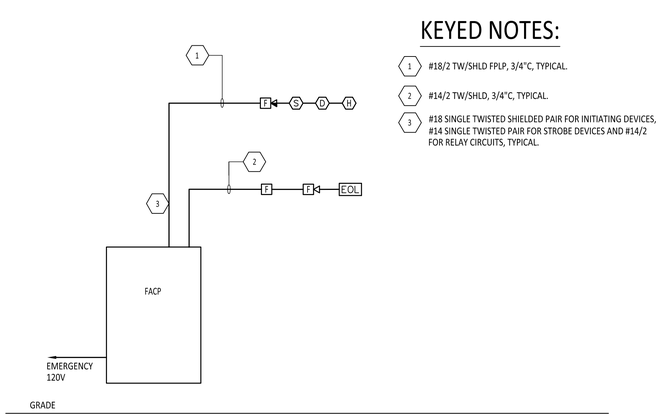
SCALE:N.T.S



NOTES:
- VIEW IS OF INTERIOR LOOKING OUT. IMAGE MAY BE MIRRORED.
- WHEN POSSIBLE KEEP WALL DEVICES ALIGNED NEXT TO DOOR.

5 GENERAL DEVICE DETAIL

SCALE:N.T.S.



KEYED NOTES:

1. #18/2 TW/SHLD FPLP, 3/4"C, TYPICAL.
2. #14/2 TW/SHLD, 3/4"C, TYPICAL.
3. #18 SINGLE TWISTED SHIELDED PAIR FOR INITIATING DEVICES, #14 SINGLE TWISTED PAIR FOR STROBE DEVICES AND #14/2 FOR RELAY CIRCUITS, TYPICAL.

6 FIRE ALARM RISER DIAGRAM

SCALE:N.T.S.

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LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST. 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

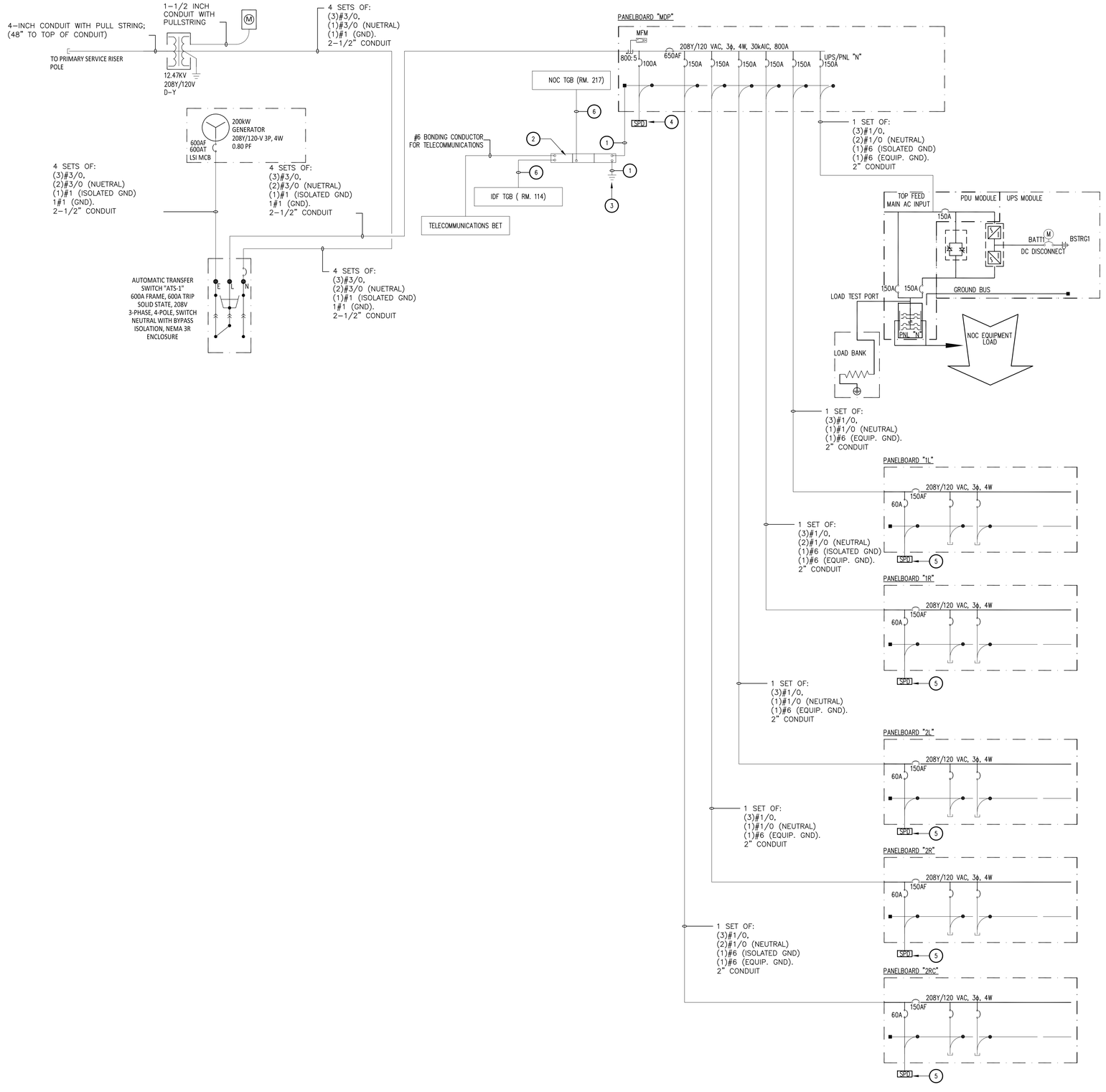
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ELECTRICAL DETAILS

E-2.0



KEY NOTES:

1. FURNISH AND INSTALL #1/0 ELECTRODE CONDUCTOR TO BUILDING'S ELECTRICAL SERVICE. TEST TO EQUAL TO OR LESS THAN 0.1 OHMS.
2. NEMA RATED TMGB 1/4" x 4" x 20" WITH STAND OFF INSULATORS, BOND GROUND CONDUCTORS TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD.
3. FURNISH AND INSTALL LYNCOLE K2-10CS XIT ELECTRODE. REFER TO LYNCOLE XIT GROUNDING SYSTEM DETAIL FOR XIT ELECTRODE REQUIREMENTS.
4. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # TG3-125-208-3Y-PNB-M4E-F2-HPI.
5. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # TG3-50-208-3Y-PNB-M4E-F2-HPI.
6. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR # 6.

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S

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LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST. 1967 WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

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ELECTRICAL ONE LINE DIAGRAM

E-2.1

PANELBOARD MDP

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 128
650A MAIN BREAKER (LSI) — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 800A; NEUTRAL - 100%; EQUIPMENT GROUND; ISOLATED GROUND — Isc = 30,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
2388	0	9595	PANEL "1L"	150/3	1	A	2	150/3	PANEL "2L"	2312	0	9415
2082	0	9595	"	-	3	B	4	-	"	1938	0	9415
312	0	9595	"	-	5	C	6	-	"	468	0	9415
0	7560	4810	PANEL "1R"	150/3	7	A	8	150/3	PANEL "2R"	0	8100	1664
0	5940	7596	"	-	9	B	10	-	"	0	8640	1664
0	5940	9147	"	-	11	C	12	-	"	0	8100	0
0	0	4771	PDX-1	60/3	13	A	14	60/3	PDX-2	0	0	4771
0	0	4771	"	-	15	B	16	-	"	0	0	4771
0	0	4771	"	-	17	C	18	-	"	0	0	4771
0	0	829	UH-1	20/3	19	A	20	60/3	SPARE	0	0	
0	0	829	"	-	21	B	22	-	"	0	0	
0	0	829	"	-	23	C	24	-	"	0	0	
0	0	600	GENERATOR BATTERY	20/1	25	A	26	90/3	CRAC-1	0	0	7296
0	2160	10080	UPS, PANEL "N"	150/3	27	B	28	-	"	0	0	7296
0	2160	9720	"	-	29	C	30	-	"	0	0	7296
0	720	12840	"	-	31	A	32	20/2	MS-1	0	0	832
0	0		SPARE	20/1	33	B	34	-	"	0	0	832
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	9500	CONNECTED	11875	DEMAND	
VA:R (RECEPTACLES)	49320	CONNECTED	29660	DEMAND	
VA:O (OTHER)	169814	CONNECTED	169814	DEMAND	
VA: TOTAL	228634	CONNECTED	211349	DEMAND	
AMPS: TOTAL	635	CONNECTED	587	DEMAND	

L	R	O		TOTAL			
4700	16380	57423	VA CONNECTED TO A PHASE	78503	VA =	654	AMPS CONNECTED TO A PHASE @ 120 VOLTS
4020	16740	56849	VA CONNECTED TO B PHASE	77609	VA =	647	AMPS CONNECTED TO B PHASE @ 120 VOLTS
780	16200	55543	VA CONNECTED TO C PHASE	72523	VA =	604	AMPS CONNECTED TO C PHASE @ 120 VOLTS
9500	49320	169814	**TOTAL**	228634	VA		

PANELBOARD "1L"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 128
150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 150A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 14,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
927	0		LTG. FOYER, CORR.105,101,RR 106,& CANOPY	20/1	1	A	2	20/1	LTG. OFFICES, LOUNGE, ELEC. & RISER RM.	1149	0	
1809	0		LTG. OFFICES, SHOWERS, RRs, CUST., IDF, & MECH	20/1	3	B	4	20/1	LTG. OPEN OFFICE ZONE 1	273	0	
156	0		LTG. OPEN OFFICE ZONE 2	20/1	5	C	6	20/1	LTG. OPEN OFFICE ZONE 3	156	0	
156	0		LTG. OPEN OFFICE ZONE 4	20/1	7	A	8	20/1	LTG. OPEN OFFICE ZONE 5	156	0	
0	0	1801	SDB-1	20/3	9	B	10	20/3	SDB-2	0	0	997
0	0	1801	"	-	11	C	12	-	"	0	0	997
0	0	1801	"	-	13	A	14	-	"	0	0	997
0	0	997	SDB-3	20/3	15	B	16	20/3	SDB-4	0	0	1597
0	0	997	"	-	17	C	18	-	"	0	0	1597
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0	0	2005	SDB-5	20/3	21	B	22	25/3	SDB-6	0	0	2198
0	0	2005	"	-	23	C	24	-	"	0	0	2198
0	0	2005	"	-	25	A	26	-	"	0	0	2198
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
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0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	4782	CONNECTED	5978	DEMAND	
VA:R (RECEPTACLES)	0	CONNECTED	0	DEMAND	
VA:O (OTHER)	28784	CONNECTED	28784	DEMAND	
VA: TOTAL	33566	CONNECTED	34762	DEMAND	
AMPS: TOTAL	93	CONNECTED	96	DEMAND	

L	R	O		TOTAL			
2388	0	9595	VA CONNECTED TO A PHASE	11983	VA =	100	AMPS CONNECTED TO A PHASE @ 120 VOLTS
2082	0	9595	VA CONNECTED TO B PHASE	11677	VA =	97	AMPS CONNECTED TO B PHASE @ 120 VOLTS
312	0	9595	VA CONNECTED TO C PHASE	9907	VA =	83	AMPS CONNECTED TO C PHASE @ 120 VOLTS
4782	0	28784	**TOTAL**	33566	VA		

PANELBOARD "1R" - Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 128
150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 150A; NEUTRAL - 200%; EQUIPMENT GROUND; ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	180		IG RCPT. CORR.105	20/1	1	A	2	20/1	IG RCPT. OFFICE 107	0	720	
0	180		IG RCPT. TV MONITOR LOUNGE 108	20/1	3	B	4	20/1	IG RCPT. CONF. 109	0	720	
0	900		IG RCPT. CONF. 110	20/1	5	C	6	20/1	IG STG. 111	0	720	
0	900		IG RCPT. MULTI USE 112	20/1	7	A	8	20/1	IG IDF RM. 114	0	540	
0	900		IG RCPT. OPEN OFFICE 120	20/1	9	B	10	20/1	IG RCPT. GIS 121	0	720	
0	720		IG RCPT. SYSTEMS 122	20/1	11	C	12	20/1	IG RCPT. DATA BASE	0	720	
0	720		IG RCPT. LOC. VAL. 124	20/1	13	A	14	20/1	IG RCPT. OFFICE 125	0	900	
0	720		IG RCPT. OFFICE 126	20/1	15	B	16	20/1	FLOOR BOX CONF. 109	0	360	
0	360		FLOOR BOX CONF. 110	20/1	17	C	18	20/1	FLOOR BOX STG. 111	0	360	
0	360		FLOOR BOX MULTI-USE 112	20/1	19	A	20	20/1	FLOOR BOX OPEN OFFCE 120	0	360	
0	360		FLOOR BOX OPEN OFFCE 120	20/1	21	B	22	20/1	FLOOR BOX OPEN OFFCE 120	0	360	
0	360		FLOOR BOX OPEN OFFCE 120	20/1	23	C	24	20/1	FLOOR BOX OFFICE 125	0	360	
0	360		FLOOR BOX OFFICE 126	20/1	25	A	26	20/1	IG RCPT. TV MONITOR OFFICE 107	0	180	
0	360		IG RCPT. TV MONITOR OPEN OFFICE 109	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

PANELBOARD "1R" - Section 2

0	900		GEN. RECPT. CORR. 101 &105	20/1	43	A	44	20/1	GEN. RCPT. LOUNGE 108	0	540	
0	360		GEN.RCPT. OPEN OFFICE 120	20/1	45	B	46	20/1	GEN. RCPT. MECH. ROOM 129	0	360	
0	180		GEN. RCPT. ELEC. 126	20/1	47	C	48	20/1	GFCI RCPT. RR 106	0	180	
0	360		GFCI RCPT. MEN RR & SHOWER 119	20/1	49	A	50	20/1	GFCI RCPT. WOMEN RR & SHOWER 116	0	360	
0	180		GCFI RCPT. CUST. 117	20/1	51	B	52	20/1	GFCI RCPT. EWC	0	360	
0	540		GFCI RCPT. BUILDING PERIMETER	20/1	53	C	54	20/1	GFCI RCPT. BUILDING PERIMETER	0	540	
0	0	45	EF-1	20/1	55	A	56	20/1	EF-2	0	0	45
0	0	58	EF-3	20/1	57	B	58	20/1	EF-4	0	0	58
0	0	4000	WH-1	40/3	59	C	60	40/1	IWH-1	0	0	3480
0	0	4000	"	-	61	A	62	20/1	GFCI RCPT. ELEVATOR	0	180	
0	0	4000	"	-	63	B	64	40/1	IWH-2	0	0	3480
0	0	1667	SP-1	20/1	65	C	66	20/1	SPARE	0	0	
0	0	360	FIRE ALARM ANNUNCIATOR PANEL	20/1	67	A	68	20/1	GENERATOR ALARM ANNUNCIATOR PANEL	0	0	360
0	0		SPARE	20/1	69	B	70	20/1	SPARE	0	0	
0	0		SPARE	20/1	71	C	72	20/1	SPARE	0	0	
0	0		SPARE	20/1	73	A	74	20/1	SPARE	0	0	
0	0		SPARE	20/1	75	B	76	20/1	SPARE	0	0	
0	0		SPARE	20/1	77	C	78	20/1	SPARE	0	0	
0	0		SPARE	20/1	79	A	80	20/1	SPARE	0	0	
0	0		SPARE	20/1	81	B	82	20/1	SPARE	0	0	
0	0		SPARE	20/1	83	C	84	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND	
VA:R (RECEPTACLES)	19440	CONNECTED	14720	DEMAND	
VA:O (OTHER)	21553	CONNECTED	21553	DEMAND	
VA: TOTAL	40993	CONNECTED	36273	DEMAND	
AMPS: TOTAL	114	CONNECTED	101	DEMAND	

L	R	O		TOTAL			
0	7560	4810	VA CONNECTED TO A PHASE	12370	VA =	103	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	5940	7596	VA CONNECTED TO B PHASE	13536	VA =	113	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	5940	9147	VA CONNECTED TO C PHASE	15087	VA =	126	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	19440	21553	**TOTAL**	40993	VA		

1 ELECTRICAL PANEL SCHEDULES
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MEP:
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STATE OF TEXAS — JOSE ANTONIO NICANOR — 108783 — LICENSED PROFESSIONAL ENGINEER
06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL — EST 1967 — WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
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ELECTRICAL PANEL SCHEDULES

E-2.2

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PANELBOARD "2L"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 213
150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 150A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 14,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
990	0		LTG. CORR. 200,216, STAIRS, & WORK ROOM 202	20/1	1	A	2	20/1	LTG. OFFICES	768	0	
144	0		LTG. PUBLIC SAFETY ZONE 6	20/1	3	B	4	20/1	LTG. PUBLIC SAFETY ZONE 7	288	0	
234	0		LTG. CONF./TRAINING ZONE 8	20/1	5	C	6	20/1	LTG. CONF./TRAINING ZONE 9	234	0	
234	0		LTG. CONF./TRAINING ZONE 10	20/1	7	A	8	20/1	LTG. CONF./TRAINING ZONE 11	320	0	
1506	0		LTG. OFFICES, STG., NOC, SHOWERS, RRs, ELEC. & CUST.	20/1	9	B	10	20/1	BUILDING PERIMETER LIGHTING	0	0	
0	0	1405	SDB-7	20/3	11	C	12	20/3	SDB-8	0	0	997
0	0	1405	"	-	13	A	14	-	"	0	0	997
0	0	1405	"	-	15	B	16	-	"	0	0	997
0	0	997	SDB-9	20/3	17	C	18	20/3	SDB-10	0	0	1801
0	0	997	"	-	19	A	20	-	"	0	0	1801
0	0	997	"	-	21	B	22	-	"	0	0	1801
0	0	2810	SDB-11	30/3	23	C	24	20/3	SDB-12	0	0	1405
0	0	2810	"	-	25	A	26	-	"	0	0	1405
0	0	2810	"	-	27	B	28	-	"	0	0	1405
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	4718	CONNECTED	5898	DEMAND
VA:R (RECEPTACLES)	0	CONNECTED	0	DEMAND
VA:O (OTHER)	28244	CONNECTED	28244	DEMAND
VA: TOTAL	32962	CONNECTED	34142	DEMAND
AMPS: TOTAL	91	CONNECTED	95	DEMAND

L	R	O		TOTAL			
2312	0	9415	VA CONNECTED TO A PHASE	11727	VA =	98	AMPS CONNECTED TO A PHASE @ 120 VOLTS
1938	0	9415	VA CONNECTED TO B PHASE	11353	VA =	95	AMPS CONNECTED TO B PHASE @ 120 VOLTS
468	0	9415	VA CONNECTED TO C PHASE	9883	VA =	82	AMPS CONNECTED TO C PHASE @ 120 VOLTS
4718	0	28244	**TOTAL**	32962	VA		

PANELBOARD "2R"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 213
150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 150A; NEUTRAL - 100%; EQUIPMENT GROUND — Isc = 14,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	900		GEN. RCPT. CORR. 200 & 201	20/1	1	A	2	20/1	GEN. RCPT. ELEC. 213	0	180	
0	180		GEN. STO. 220	20/1	3	B	4	20/1	GFCI RCPT. MEN RR & SHOWER 215	0	360	
0	360		GFCI RCPT. WOMEN RR & SHOWER 212	20/1	5	C	6	20/1	GFCI RCPT. CUST. 210	0	180	
0	0		GFCI RCPT. EWC	20/1	7	A	8	20/1	EF-6	0	0	45
0	0	4000	WH-2	40/3	9	B	10	20/1	EF-7	0	0	45
0	0	4000	"	-	11	C	12	20/1	SPARE	0	0	
0	0	4000	"	-	13	A	14	20/1	SPARE	0	0	
0	0		SPARE	20/1	15	B	16	20/1	SPARE	0	0	
0	0		SPARE	20/1	17	C	18	20/1	SPARE	0	0	
0	0		SPARE	20/1	19	A	20	20/1	SPARE	0	0	
0	0		SPARE	20/1	21	B	22	20/1	SPARE	0	0	
0	0		SPARE	20/1	23	C	24	20/1	SPARE	0	0	
0	0		SPARE	20/1	25	A	26	20/1	SPARE	0	0	
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	2160	CONNECTED	2160	DEMAND
VA:O (OTHER)	12090	CONNECTED	12090	DEMAND
VA: TOTAL	14250	CONNECTED	14250	DEMAND
AMPS: TOTAL	40	CONNECTED	40	DEMAND

L	R	O		TOTAL			
0	1080	4045	VA CONNECTED TO A PHASE	5125	VA =	43	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	540	4045	VA CONNECTED TO B PHASE	4585	VA =	38	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	540	4000	VA CONNECTED TO C PHASE	4540	VA =	38	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	2160	12090	**TOTAL**	14250	VA		

PANELBOARD "2RC" - Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 213
150A MAIN BREAKER — MOUNTING: SURFACE NEMA 1
BUSES: MAIN - 150A NEUTRAL - 200%; EQUIPMENT GROUND; ISOLATED GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	360		IG RCPT. WORKROOM 202	20/1	1	A	2	20/1	IG RCPT. OFFICE 203	0	720	
0	720		IG RCPT. OFFICE 205	20/1	3	B	4	20/1	IG RCPT. CONF. 207	0	720	
0	720		IG RCPT CONF. 208	20/1	5	C	6	20/1	IG RCPT. PUBLIC SAFETY 209	0	720	
0	720		IG RCPT. PUBLIC SAFETY 209	20/1	7	A	8	20/1	IG RCPT. NOC 217	0	720	
0	720		IG RCPT. OFFICE 218	20/1	9	B	10	20/1	IG RCPT. OFFICE 219	0	900	
0	720		IG RCPT. CONF/TRAINING 221	20/1	11	C	12	20/1	FLOOR BOX CONF. 207	0	360	
0	360		FLOOR BOX CONF. 208	20/1	13	A	14	20/1	FLOOR BOX PUBLIC SAFETY 209	0	360	
0	360		FLOOR BOX PUBLIC SAFETY 209	20/1	15	B	16	20/1	FLOOR BOX PUBLIC SAFETY 209	0	360	
0	360		FLOOR BOX PUBLIC SAFETY 209	20/1	17	C	18	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	540		FLOOR BOX CONF/TRAINING 221	20/1	19	A	20	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	1080		FLOOR BOX CONF/TRAINING 221	20/1	21	B	22	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	1080		FLOOR BOX CONF/TRAINING 221	20/1	23	C	24	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	1080		FLOOR BOX CONF/TRAINING 221	20/1	25	A	26	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	1080		FLOOR BOX CONF/TRAINING 221	20/1	27	B	28	20/1	FLOOR BOX CONF/TRAINING 221	0	1080	
0	1080		FLOOR BOX CONF/TRAINING 221	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPARE	20/1	31	A	32	20/1	SPARE	0	0	
0	0		SPARE	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

PANELBOARD "2RC" - Section 2

0	0		SPARE	20/1	43	A	44	20/1	SPARE	0	0	
0	0		SPARE	20/1	45	B	46	20/1	SPARE	0	0	
0	0		SPARE	20/1	47	C	48	20/1	SPARE	0	0	
0	0		SPARE	20/1	49	A	50	20/1	SPARE	0	0	
0	0		SPARE	20/1	51	B	52	20/1	SPARE	0	0	
0	0		SPARE	20/1	53	C	54	20/1	IG RCPT. PRINTER WRK RM. 202	0	540	
0	360		IG RCPT. TV MONITORS PUBLIC SAFETY 209	20/1	55	A	56	20/2	PRINTER WRK RM. 202	0	0	1664
0	540		IG RCPT. TV MONITORS CONF/TRAINING 221	20/1	57	B	58	-	"	0	0	1664
0	180		IG RCPT. PROJECTOR CONF/TRAINING 221	20/1	59	C	60	20/1	IG RCPT. PRINTER STATION WRK. RM. 202	0	180	
0	720		IG QUAD RCPT. AV RACK CONF./TRNG. 221	20/1	61	A	62	20/1	SPARE	0	0	
0	0		SPARE	20/1	63	B	64	20/1	SPARE	0	0	
0	0		SPARE	20/1	65	C	66	20/1	SPARE	0	0	
0	0		SPARE	20/1	67	A	68	20/1	SPARE	0	0	
0	0		SPARE	20/1	69	B	70	20/1	SPARE	0	0	
0	0		SPARE	20/1	71	C	72	20/1	SPARE	0	0	
0	0		SPARE	20/1	73	A	74	20/1	SPARE	0	0	
0	0		SPARE	20/1	75	B	76	20/1	SPARE	0	0	
0	0		SPARE	20/1	77	C	78	20/1	SPARE	0	0	
0	0		SPARE	20/1	79	A	80	20/1	SPARE	0	0	
0	0		SPARE	20/1	81	B	82	20/1	SPARE	0	0	
0	0		SPARE	20/1	83	C	84	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	24840	CONNECTED	17420	DEMAND
VA:O (OTHER)	3328	CONNECTED	3328	DEMAND
VA: TOTAL	28168	CONNECTED	20748	DEMAND
AMPS: TOTAL	78	CONNECTED	58	DEMAND

L	R	O		TOTAL			
0	8100	1664	VA CONNECTED TO A PHASE	9764	VA =	81	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	8640	1664	VA CONNECTED TO B PHASE	10304	VA =	86	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	8100	0	VA CONNECTED TO C PHASE	8100	VA =	68	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	24840	3328	**TOTAL**	28168	VA		

1 ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S

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Consultants:
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Melden & Hunt, Inc.

STRUCTURAL:
Chanin Engineering LLC

MEP:
Sigma HN Engineers, PLLC

STATE OF TEXAS — JOSE ANTONIO NICANOR — 108783 — LICENSED PROFESSIONAL ENGINEER
06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL — EST. 1967 — WILLACY, HIDALGO, CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
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Sheet Title:

ELECTRICAL PANEL SCHEDULES

E-2.3

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF.	MODEL NUMBER	LAMPS	VA	VOLTAGE	DESCRIPTION
A	H.E WILLIAMS INC.	LP-24-L52/840-DIM-UNV	48W-LED 4000K 4906 LUMENS	48	120	2X4 LED EDGE LIT FLAT PANEL
AE	H.E WILLIAMS INC.	LP-24-L52/840-EM/10WRM-DIM-UNV	48W-LED 4000K 4906 LUMENS	48	120	2X4 LED EDGE LIT FLAT PANEL WITH EMERGENCY BATTERY BACK UP
AG	H.E WILLIAMS INC.	LP-24-L52/840-DFK2448W-DIM-UNV	48W-LED 4000K 4906 LUMENS	48	120	2X4 LED EDGE LIT FLAT PANEL WITH DRYWALL KIT
AGE	H.E WILLIAMS INC.	LP-24-L52/840-EM/10WRM-DFK2448W-DIM-UNV	48W-LED 4000K 4906 LUMENS	48	120	2X4 LED EDGE LIT FLAT PANEL WITH EMERGENCY BATTERY BACK UP WITH DRYWALL KIT
B	H.E WILLIAMS INC.	LP-22-L40/840-DIM-UNV	39W-LED 4000K 4155 LUMENS	39	120	2X2 LED EDGE LIT FLAT PANEL
BE	H.E WILLIAMS INC.	LP-22-L40/840-EM/10WRM-DIM-UNV	39W-LED 4000K 4155 LUMENS	39	120	2X2 LED EDGE LIT FLAT PANEL WITH EMERGENCY BATTERY BACK UP
BG	H.E WILLIAMS INC.	LP-22-L40/840-DFK-2424W-DIM-UNV	39W-LED 4000K 4155 LUMENS	39	120	2X2 LED EDGE LIT FLAT PANEL WITH DRYWALL KIT
BGE	H.E WILLIAMS INC.	LP-22-L40/840-EM/10WRM-DFK-2424W-DIM-UNV	39W-LED 4000K 4155 LUMENS	39	120	2X2 LED EDGE LIT FLAT PANEL WITH EMERGENCY BATTERY BACK UP WITH DRYWALL KIT
C	H.E WILLIAMS INC.	6DS–L15/840–DIM–UNV–R–W–OF–SG–N	16W-LED 4000K 1500 LUMENS	16	120	6" RECESSED SQUARE DOWNLIGHT
J	H.E WILLIAMS INC.	6DS–L15/840–DIM–UNV–L–W–OF–WH–WET/CC–N	16W-LED 4000K 1500 LUMENS	16	120	6" RECESSED SQUARE DOWNLIGHT, LENSED WHITE TRIM FOR WET LOCATION
S	LIGHTNET INC.	BASIC-P5	15W-LED 4000K 1930 LUMENS	15	120	12" PENDANT LED
2SE	H.E WILLIAMS INC.	75L-2-L32-840-DMA-EM/10WLP-WG-75-VBY-2-DIM-UNV	33W-LED 4000K 3200 LUMENS	33	120	2-FOOT LED LINEAR WITH EMERGENCY BATTERY BACK UP
4S	ILP	WTZ-48-WLED-UNIV-50-RAFL	49W-LED 5000K 6676 LUMENS	49	120	4-FOOT LED LINEAR
4SE	ILP	WTZ-48-WLED-UNIV-50-RAFL-LED8BCT	49W-LED 5000K 6676 LUMENS	49	120	4-FOOT LED LINEAR WITH EMERGENCY BATTERY BACK UP
4W	ILP	WTZ-48-WLED-UNIV-50-RAFL-LED8BCT-AB/45DEG	49W-LED 5000K 6676 LUMENS	49	120	4-FOOT LED LINEAR WITH EMERGENCY BATTERY BACK UP WITH SURFACE WALL MOUNT BRACKETS
WW	REVOLUTION LIGHTING	EWP-M-70-N-40	70W-LED 4000K 8050 LUMENS	70	120	LED WALL PACK
WE	MULE LIGHTING INC.	MAKO-LED-ACEM-DB	11W-LED 5000K 1080 LUMENS	11	120	LED EGREES LIGHT
X	H.E WILLIAMS INC.	EXIT/CA-R-WF-WHT-EM-SDT-D REFER TO PLANS FOR SINGLE OR DOUBLE FACE REQUIREMENTS AND CHEVRONS	10W-LED	10	120	LED EXIT SIGN

1 LIGHT FIXTURE SCHEDULE
SCALE: N.T.S

ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	POWER			FIRE ALARM	
	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G	15" AFF	F	FIRE ALARM VOICE EVACUATION SPEAKER.	-
	DUPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; C = CEILING MOUNTED.	15" AFF	F	FIRE ALARM PULL STATION	48" AFF
	DUPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH ISOLATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	15" AFF	F	FIRE ALARM AUDIBLE/VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM AUDIBLE SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	AS REQD.	FS	FIRE ALARM SPRINKLER FLOW SWITCH	-
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	AS REQD.	TS	FIRE ALARM SPRINKLER TAMPER SWITCH	-
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF	S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	AS REQD.
MPFB	AUDIO, VIDEO, DATA, AND POWER FLOOR BOX WIRING DIVICE. FURNISH AND INSTALL EQUAL LEGRAND #RBF11; FURNISH WITH THE FOLLOWING: QTY.(2) IG DUPLEX RECEPTACLES AND 6 PORT-DATA WIRING DEVICE PLATE TO ACCOMODATE CATEGORY 6A CABELING.FLOOR BOX CONVER TO MATCH FINISH FLOOR TYPE (IE. CARPET, TILE, WOOD, ETC.)	FLOOR	H	HEAT DETECTOR CEILING OR WALL MOUNTED	AS REQD.
			D	DUCT SMOKE DETECTOR	AS REQD.
			FACP	FIRE ALARM CONTROL PANEL	AS REQD.
FB	FURNITURE FEED POKE THRU BOX FOR POWER. FURNISH AND INTALL EQUAL TO LEGRAND 6ATCFF WITH THE FOLLOWING: 5BLH OUTER COMPARTMENT 1 175CHA &1BHA CENTER COMPARTMENT 5BLH OUTER COMPARTMENT 1	SECOND FLOOR	FAAP	FIRE ALARM ANNUNCIATOR PANEL	AS REQD.
			FAEP	FIRE ALARM EXTENDING PANEL	AS REQD.
			VAFP	VOICE ACTIVATED FIRE ALARM PANEL	80" AFF
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	$	SWITCH	
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.	$3	3 WAY LIGHT SWITCH	
30/30/3	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	DH	MAGNETIC DOOR HOLDER, FLOOR MOUNTED	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.	DS	DOOR STATUS SWITCH	AS REQD.
CB	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.	ADO	AUTOMATIC DOOR OPERATOR	AS REQD.
	PANELBOARD	-			
	MOTOR	-			
~	SINGLE LINE CONTINUATION	-			
GAAP	GENERATOR ANNUNCIATOR PANEL	-			
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-			
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-			
	TELEPHONE OUTLET	-			
	DATA OUTLET	-			
	TELEPHONE/DATA OUTLET	-			
	TRANSFORMER	-			

GENERAL ABBREVIATIONS

ABS	ABOVE BACK SPLASH	NC (N.C.)	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NF	NONFUSED
BFC	BELOW FINISHED CEILING	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CB	CIRCUIT BREAKER	NO (N.O.)	NORMALLY OPEN
CLG	CEILING	PNL	PANEL
EC	EMPTY CONDUIT	RCPT(S)	RECEPTACLE(S)
EP	ELECTRICAL PRIMARY	SO (S.O.)	SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	SPD	SURGE PROTECTION DEVICE
G	GROUND (EQUIPMENT)	ST (S.T.)	SHUNT TRIP
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
HCC	HORIZONTAL CROSS CONNECT	TYP	TYPICAL
IC	INTERRUPTING CAPACITY	UF	UNDERFLOOR
ICC	INTERMEDIATE CROSS CONNECT	UG	UNDERGROUND
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE; 15" AFF INDICATES TO BOTTOM OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

2 ELECTRICAL GENERAL LEGEND
SCALE: N.T.S

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LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

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WESLACO, TEXAS

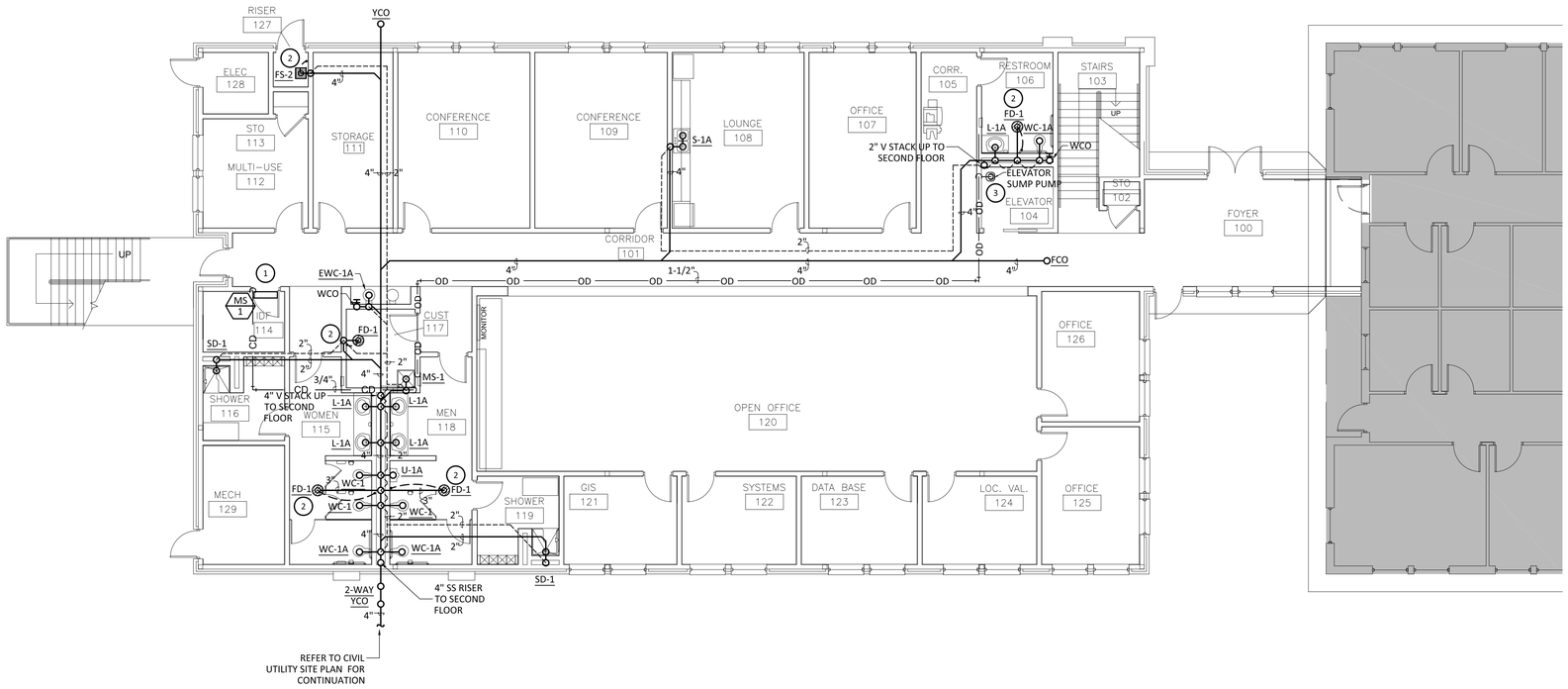
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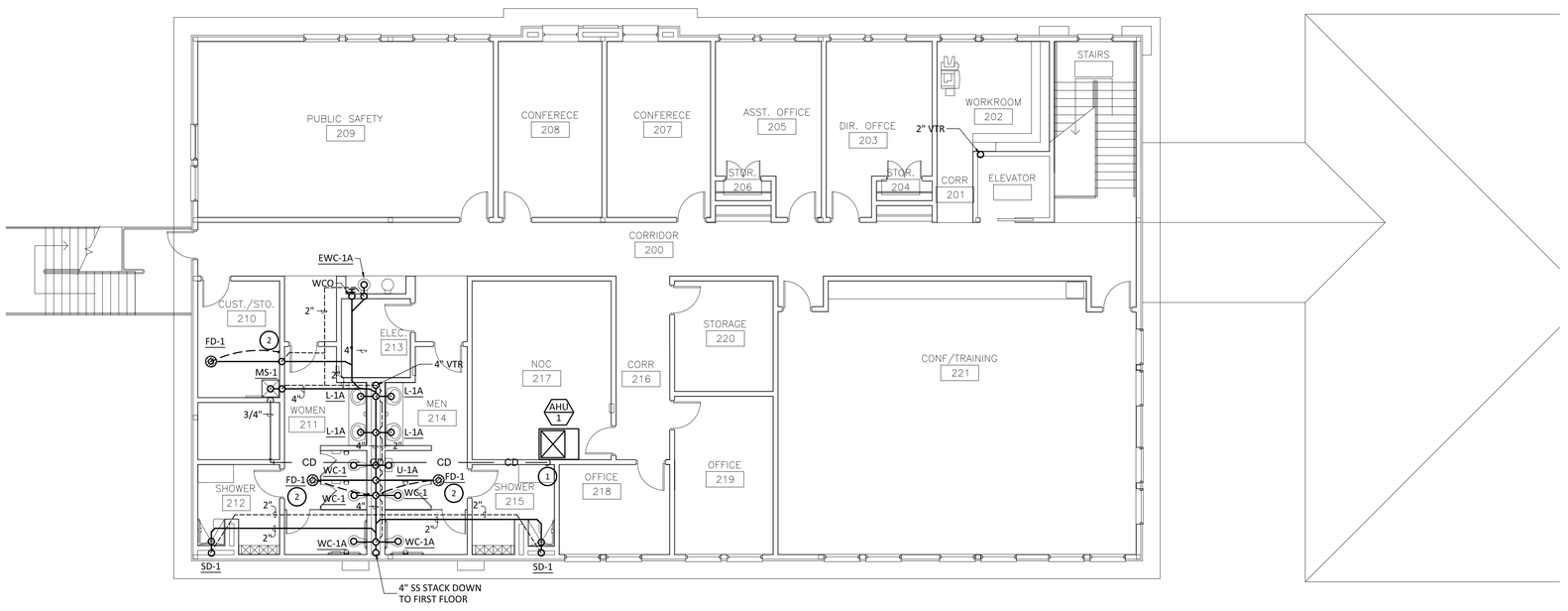
LIGHT FIXTURE SCHEDULE & GENERAL LEGEND

E-3.0



1 FIRST FLOOR PLUMBING SANITARY SEWER PLAN

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



2 SECOND FLOOR PLUMBING SANITARY SEWER PLAN

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

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. PROVIDE AND INSTALL INSULATED COPPER CONDENSATE DRAIN LINE IN ATTIC SPACE. PROVIDE PIPE HANGER SUPPORTS MAXIMUM 5'-0" O.C. SPACING. SLOPE PIPING 1/8 INCH PER FOOT. ROUTE AND DRAIN CONDENSATE LINE INDIRECTLY INTO MOP SINK.
2. RISE 1/2" TRAP PRIMER LINES IN WALL AND CONNECT TO TRAP PRIMER VALVE ABOVE CEILING. CONCEAL LINES IN WALLS AND BELOW CONCRETE SLAB. REFER TO PLUMBING DETAILS SHEET FOR TRAP PRIMER VALVE REQUIREMENTS.
3. ROUTE 2" ELEVATOR PUMP DISCHARGE PIPE TO MOP SINK. PROVIDE PIPE HANGER SUPPORTS MAXIMUM 5'-0" O.C. SPACING ABOVE CEILING. ROUTE AND DROP DISCHARGE PIPE EXPOSED ALONG THE WALL INTO MOP SINK. CLAMP PIPE SECURELY TO WALL. PIPE SHALL BE LABELED ELEVATOR SUMP.

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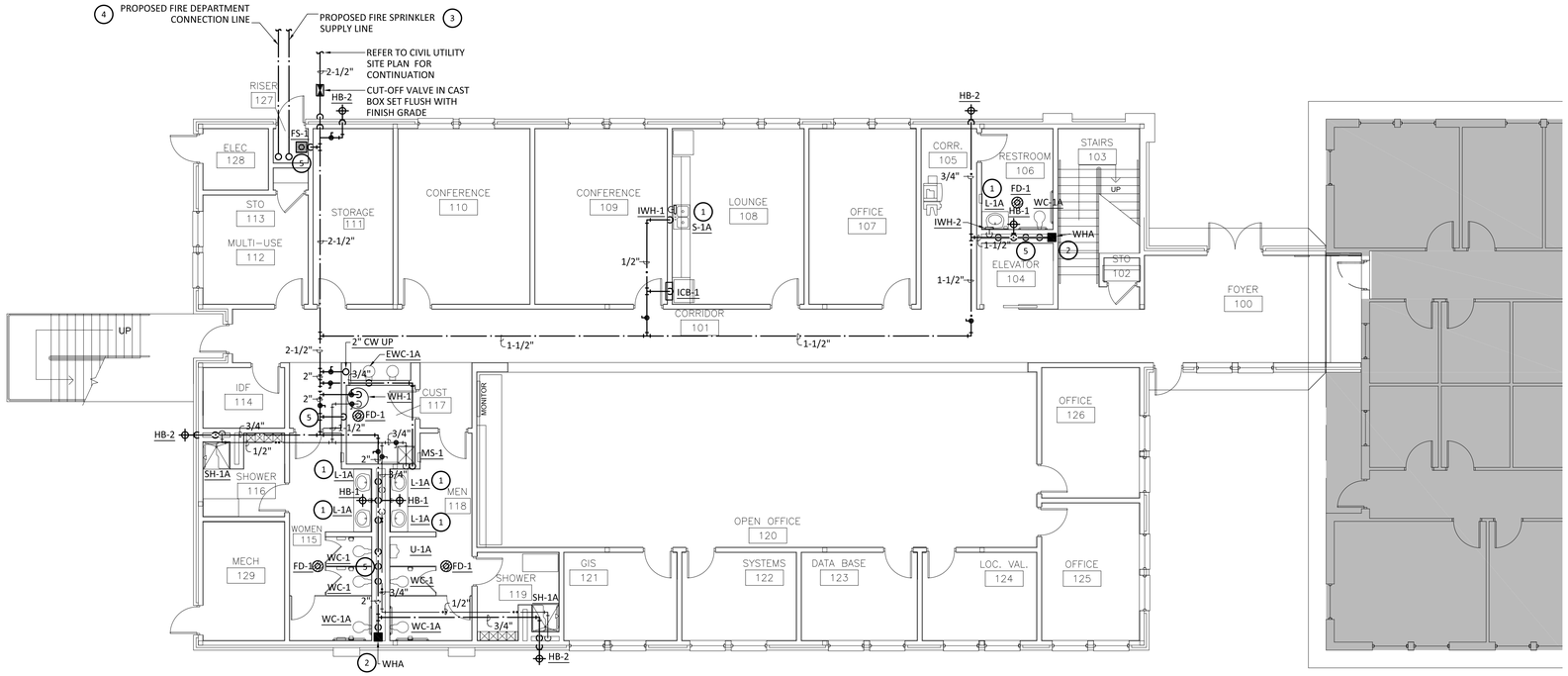
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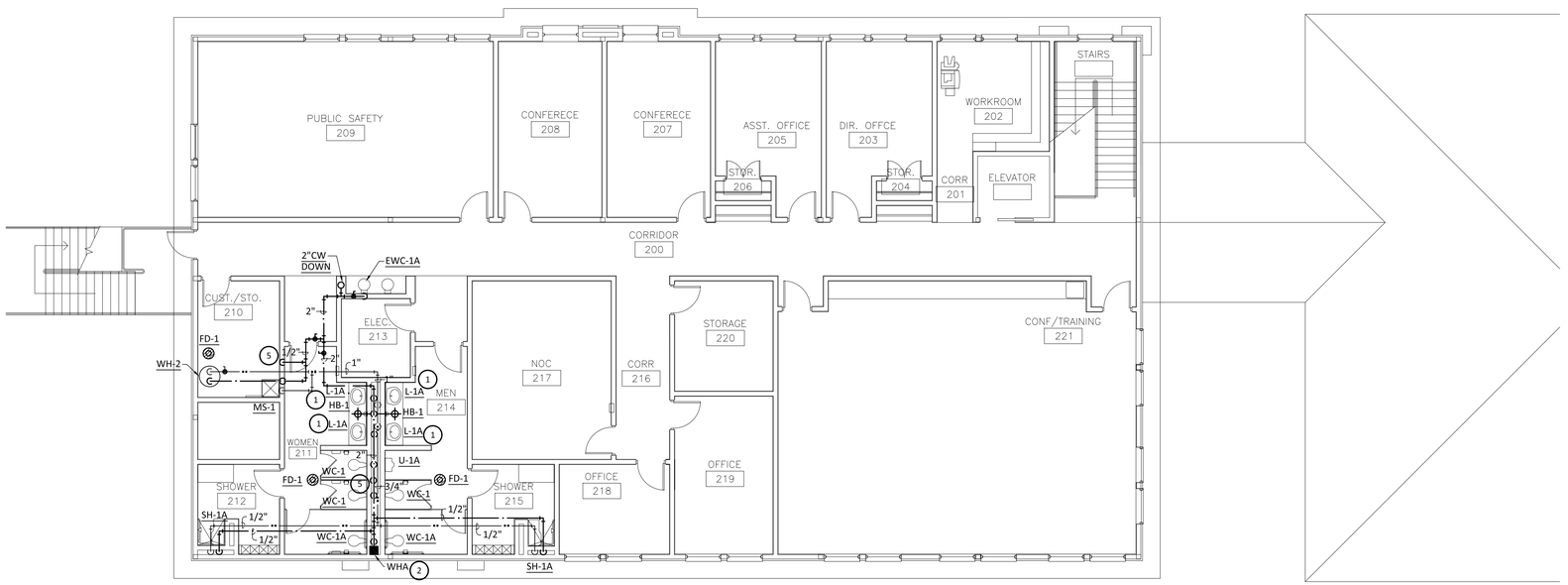
PLUMBING SANITARY SEWER PLAN

P-1.0



1 FIRST FLOOR PLUMBING DOMESTIC WATER PLAN

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



2 SECOND FLOOR PLUMBING DOMESTIC WATER PLAN

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

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL INDIVIDUAL THERMOSTATIC MIXING VALVE (MV-1) AT EACH LAVATORY TO DELIVER WATER AT 110°F. REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS. REFER TO MIXING VALVE UNDER LAVATORY DETAIL FOR INSTALLATION REQUIREMENTS.

2. WATER HAMMER ARRESTOR IN CHASE. PROVIDE 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH GRAB BARS, FLUSH VALVE AND/OR OTHER EQUIPMENT AND DEVICES.

3. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.

4. PROPOSED FIRE SPRINKLER FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

5. TRAP PRIMER VALVE ABOVE CEILING. DROP 1/2" SOFT DRAWN COPPER PIPING AND ROUTE TO FLOOR DRAINS SHOWN ON SANITARY SEWER PLAN. ALL PIPING SHALL BE CONCEALED IN WALLS AND BELOW CONCRETE SLAB.

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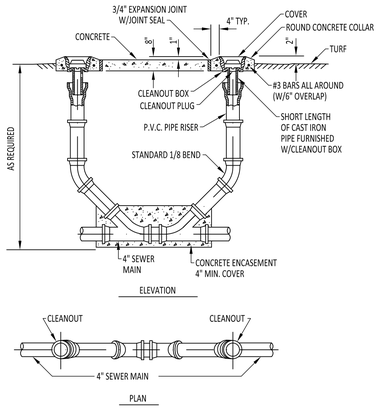
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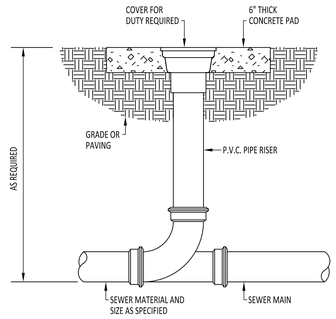
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PLUMBING DOMESTIC WATER PLAN

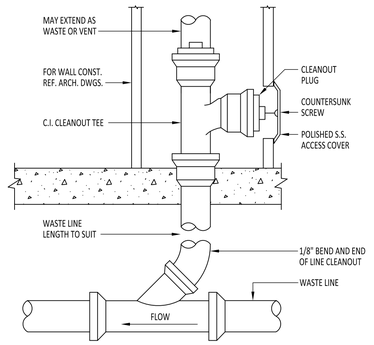
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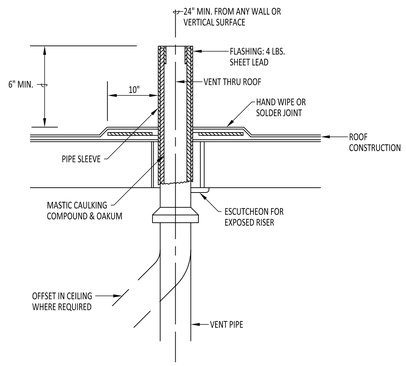
1 TYPICAL EXTERIOR TWO WAY CLEANOUT DETAIL
SCALE: N.T.S.



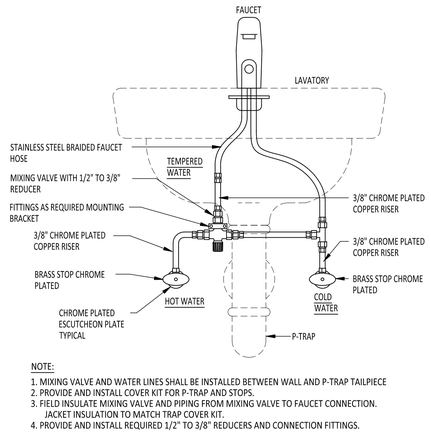
2 EXTERIOR CLEANOUT DETAIL
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3 WALL CLEANOUT DETAIL
SCALE: N.T.S.



4 VENT THROUGH ROOF DETAIL
SCALE: N.T.S.

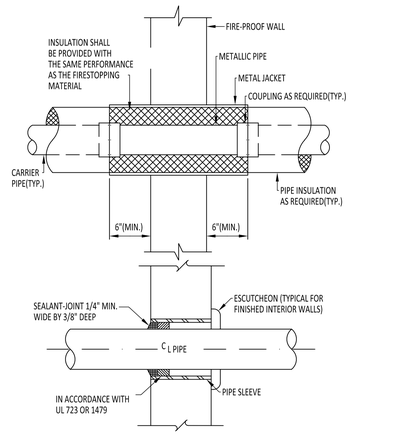


NOTE:
1. MIXING VALVE AND WATER LINES SHALL BE INSTALLED BETWEEN WALL AND P-TRAP TAILPIECE
2. PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
3. FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. JACKET INSULATION TO MATCH TRAP COVER KIT.
4. PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.

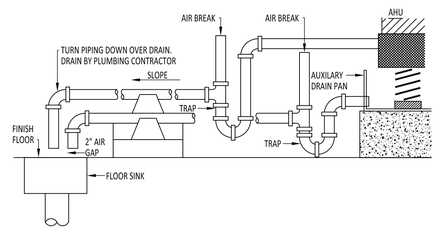
5 MIXING VALVE UNDER LAVATORY DETAIL
SCALE: N.T.S.



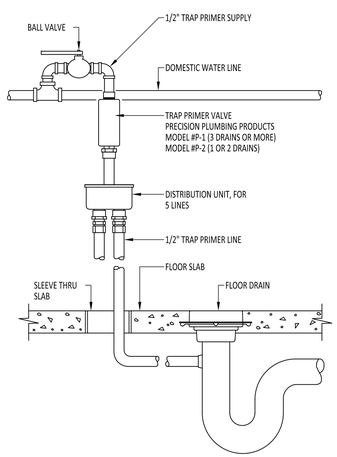
6 FREEZEPROOF WALL HYDRANT DETAIL
SCALE: N.T.S.



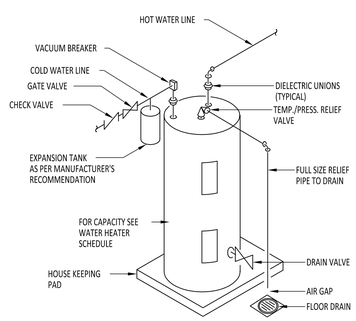
7 TYPICAL FIRE PROOF & WALL PENETRATION
SCALE: N.T.S.



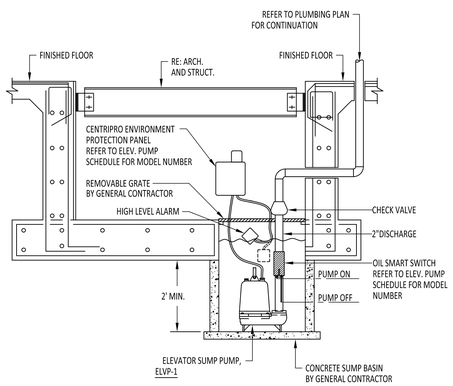
8 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.



9 TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.



10 FLOOR MOUNTED WATER HEATER DETAIL
SCALE: N.T.S.



NOTE:
ELEVATOR PUMP SHALL OPERATE AUTOMATICALLY WITHOUT HUMAN INTERVENTION

11 ELEVATOR PIT SUMP PUMP DETAIL
SCALE: N.T.S.

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PLUMBING DETAILS

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P-2.0

PLUMBING SCHEDULE

MARK	TYPE	CONNECTION				DESCRIPTION
		SS	V	CW	HW	
EWC-1A	BI-LEVEL ELECTRIC WATER COOLER	2"	2"	1/2"	-	BI-LEVEL SELF-CONTAINED WALL HUNG, REFRIGERATED WATER COOLER EQUAL TO ELKAY "LZSTL8C". SELF CLOSING CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN. FLEX-GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GPH OF 50° F WATER WITH 80° F INLET WATER AND 90° F ROOM TEMPERATURE. COMPLETE WITH CANE APRON ELKAY MODEL "LKAPREZL" AND APPROVED CARRIER SYSTEM.
FCO	FLOOR CLEAN OUT	4"	-	-	-	GALVANIZED CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY, AND ROUND SCORED COVER WITH GASKET IN SERVICE AREAS AND ROUND DEPRESSED COVER WITH GASKET TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS.
FD-1	FLOOR DRAIN	3"	2"	1/2"	-	ZURN MODEL Z-415B-P, TYPE B STRAINER, LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, AND ROUND, ADJUSTABLE NICKLE-BRONZE STRAINER, TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	4"	2"	1/2"	-	ZURN MODEL #Z-1910-P-2 PROCELAIN-ENAMELED CAST IRON FLOOR SINK . 12"X12"X6" WITH ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PORCELAIN-ENAMELED CAST IRON FULL GRATE, AND 1/2" TRAP PRIMER CONNECTION. PROVIDE PRO-SET TRAP GUARD SYSTEM.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD MODEL 26P CHROME FINISH WALL MOUNTED FAUCET, WITH BACK FLOW PREVENTER.
HB-2	HOSE BIBB	-	-	3/4"	-	WOODFORD MODEL B26P CHROME FINISH WALL MOUNTED FAUCET, WITH BACK FLOW PREVENTER, AND LOOSE TEE KEY.
ICB-1	ICE CONNECTION BOX	-	-	1/2"	-	GUY GRAY MODEL "BIM-875" ICE CONNECTION BOX.
IWH-1	TANKLESS ELECTRIC WATER HEATER	-	-	½"	½"	PERFORMANCE TANKLESS ELECTRIC WATER HEATER. RHEEM MODEL RETEX-04. ELECTRICAL: 120V/1, 3.5KW, 29A. TEMPERATURE RISE 48°F, 0.5 GPM. UNIT SHALL HAVE COPPER CLAD IMMERSION HEATING ELEMENT(S) WITH BRASS TERMINATIONS FOR INCREASED DURABILITY. EXTERNAL TEMPERATURE CONTROL AND DISPLAY ADJUSTABLE IN 1° INCREMENTS WITH A RANGE OF 80°-140°F. DISPLAY SHALL BE CAPABLE OF DISPLAYING SETPOINT TEMPERATURE IN CELSIUS OR FAHRENHEIT TEMPERATURE SCALES. UNIT SHALL UTILIZE A FLOW METER WITH A 0.3 GPM ACTIVATION POINT AND MANAGE POWER BASED ON ACTUAL FLOW RATE AND INLET TEMPERATURE. VALUES SHOULD BE PROCESSED 60 TIMES PER SECOND. UNIT SHALL BE WQA CERTIFIED LEAD FREE, CERTIFIED TO UL499 AND CSA22.2.
IWH-2	TANKLESS ELECTRIC WATER HEATER	-	-	½"	½"	PERFORMANCE TANKLESS ELECTRIC WATER HEATER. RHEEM MODEL RETEX-04. ELECTRICAL: 120V/1, 3.5KW, 29A. TEMPERATURE RISE 48°F, 0.5 GPM. UNIT SHALL HAVE COPPER CLAD IMMERSION HEATING ELEMENT(S) WITH BRASS TERMINATIONS FOR INCREASED DURABILITY. EXTERNAL TEMPERATURE CONTROL AND DISPLAY ADJUSTABLE IN 1° INCREMENTS WITH A RANGE OF 80°-140°F. DISPLAY SHALL BE CAPABLE OF DISPLAYING SETPOINT TEMPERATURE IN CELSIUS OR FAHRENHEIT TEMPERATURE SCALES. UNIT SHALL UTILIZE A FLOW METER WITH A 0.3 GPM ACTIVATION POINT AND MANAGE POWER BASED ON ACTUAL FLOW RATE AND INLET TEMPERATURE. VALUES SHOULD BE PROCESSED 60 TIMES PER SECOND. UNIT SHALL BE WQA CERTIFIED LEAD FREE, CERTIFIED TO UL499 AND CSA22.2.
L-1A	LAVATORY COUNTERTOP (HANDICAP)	2"	2"	1/2"	1/2"	KOHLER PENNINGTON DROP-IN BATHROOM SINK MODEL K-2196-8. DECK MOUNTED VITREOUS CHINA, 8" FAUCET CENTERS, THREE HOLE CONFIGURATION, A.D.A. COMPLIANT 0.5 GPM CHICAGO FAUCETS MODEL 404-V317E66ABCP WITH 4" VANDAL PROOF WRISTBLADE HANDLES, ANGLE STOPS, FLEXIBLE RISERS, CHROME PLATED WHEELCHAIR LAVATORY STRAINER, CAST GRID DRAIN PLUG WITH STRAINER AND OFFSET DRAIN ASSEMBLY, 1-1/4" TAILPIECE MCGUIRE #155-WC OR EQUAL, CAST BRASS P-TRAP WITH CLEAN OUT, AND A.D.A. COMPLIANT DRAIN, RISERS AND VALVES COVERS TRUEBRO #102/105 OR EQUAL.
MS-1	MOP SINK FLOOR MOUNTED	2"	2"	1/2"	1/2"	TERRAZZO, SQUARED MOP SINK EQUAL TO FIAT "TSB3000" 24"X24"X12" AND "MSG-2424" WALL GUARD. COMPLETE WITH "830-AA", 6.6 GPM, SERVICE SINK FAUCET WITH 8" CENTERS, PAIL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832-AA" HOSE AND BRACKET, "889-CC" STAINLESS STEEL MOP HANGER AND GRID STRAINER.
MV-1	THERMOSTATIC MIXING VALVE UNDER LAVATORY	-	-	3/8"	3/8"	UNDER LAVATORY THERMOSTATIC MIXING VALVE SHALL BE EQUAL TO LEONARD MODEL "170-BP-BRKT". COMPLETE WITH COLD BYPASS PORT AND MOUNTING BRACKET. OUTLET TEMPERATURE SHALL BE SET TO 110°F.
S-1A	STAINLESS STEEL SINK	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT, STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-3321-60-3". SELF RIMMING, 33"X21-1/4"X6-1/2", 3 HOLE ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH CHICAGO FAUCETS MODEL 201-G8AE2805F317AB, 0.5 GPM, CHROMED METAL WRIST BLADE HANDLE, CONCEALED MOUNT FAUCET. LK-35 STRAINER WITH BASKET.
SD-1	SHOWER DRAIN	2"	2"			ZURN MODEL "Z-415B" LACQUERED CAST IRON FLOOR DRAIN. COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER. PROVIDE PRO-SET TRAP GUARD SYSTEM.
SH-1A	BUILT-IN SHOWER (HANDICAP)	-	-	1/2"	1/2"	BUILT-IN HAND HELD SHOWER WITH CONCEALED SUPPLIES EQUAL TO BRADLEY MODEL 1C-TMV-D1-THV-SB-DV-ST-SD. A 2.0 GPM, THERMOSTATIC MIXING VALVE, DELUXE SHOWER HEAD WITH BALL JOINT, T-HANDLE VOLUME CONTROL, 60" FLEXIBLE HOSE, 24" METAL SLIDE BAR, VACUUM BREAKER, QUICK DISCONNECT, STOPS, IN-WALL DIVERTER VALVE, AND WALL MOUNTED SOAP DISH. MOUNT ALL HARDWARE AT APPROPRIATE AGE GROUP, ADA HEIGHTS.
U-1A	URINAL WALL MOUNTED (HANDICAP)	2"	2"	3/4"	-	KOHLER BARDON MODEL #K-4904-ET HIGH EFFICIENCY URINAL, VITREOUS CHINA, WALL HUNG, 3/4" TOP SPUD. ZURN AQUAVANTAGE MODEL Z6003AV-EWS FLUSHOMETER VALVE, 0.5 GPF, A.D.A COMPLAINT HANDLE. FURNISH WITH APPROVED SUPPORT CARRIER SYSTEM.
WC-1	WATER CLOSET FLOOR MOUNTED	4"	2"	1"	-	KOHLER HIGHLINE MODEL #K-4405 ELONGATED TOILET BOWL, VITREOUS CHINA, FLOOR MOUNTED, 1-1/2" TOP SPUD, SCREWDRIVER STOP K-3562, CHINA BOLD CAPS, BRASS FLOOR FLANGE, BOWLWAX SEAL, LUSTRA SOLID PLASTIC OPEN FRONT SEAT WITH HINGE. ZURN AQUAVANTAGE MODEL Z6000 AV-HET FLUSHOMETER VALVE, 1.28 GPF, TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
WC-1A	WATER CLOSET FLOOR MOUNTED (HANDICAP)	4"	2"	1"	-	KOHLER HIGHLINE MODEL #K-4405 ELONGATED TOILET BOWL, VITREOUS CHINA, FLOOR MOUNTED, 1-1/2" TOP SPUD, SCREWDRIVER STOP K-3562, CHINA BOLD CAPS, BRASS FLOOR FLANGE, BOWLWAX SEAL, LUSTRA SOLID PLASTIC OPEN FRONT SEAT WITH HINGE. ZURN AQUAVANTAGE MODEL Z6000 AV-HET FLUSHOMETER VALVE, 1.28 GPF, A.D.A COMPLIANT OSCILLATING HANDLE, TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
WCO	WALL CLEAN OUT	-	-	-	-	ZURN MODEL #ZS-1468, ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG.
WH-1	WATER HEATER ELECTRIC	-	-	3/4"	3/4"	COMMERCIAL ELECTRIC WATER HEATER. HUBBELL MODEL SE30-0-12SLR WITH A 2" FOAM INSULATED STORAGE TANK OF 30 GALLONS WITH 12 KW IN THE LOWER ELEMENT BANK. STORAGE TANK IS LINED WITH HYDRASTONE CEMENT AND THE ELECTRICAL CONTROLS OPERATE AT 208V, THREE PHASE, 60 HZ POWER. THE HEATING ELEMENT(S) SHALL BE HIGH QUALITY INCOLOY SHEATH ELECTRIC IMMERSION TYPE AND SHALL BE RATED AT 12 KW WHICH WILL HEAT 49 GPH OF WATER AT 100°F RISE.
WH-2	WATER HEATER ELECTRIC	-	-	3/4"	3/4"	COMMERCIAL ELECTRIC WATER HEATER. HUBBELL MODEL SE30-0-12SLR WITH A 2" FOAM INSULATED STORAGE TANK OF 30 GALLONS WITH 12 KW IN THE LOWER ELEMENT BANK. STORAGE TANK IS LINED WITH HYDRASTONE CEMENT AND THE ELECTRICAL CONTROLS OPERATE AT 208V, THREE PHASE, 60 HZ POWER. THE HEATING ELEMENT(S) SHALL BE HIGH QUALITY INCOLOY SHEATH ELECTRIC IMMERSION TYPE AND SHALL BE RATED AT 12 KW WHICH WILL HEAT 49 GPH OF WATER AT 100°F RISE.
YCO	YARD CLEAN OUT	4"	-	-	-	GALVANIZED CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY, AND ROUND CAST NICKEL BRONZE ACCESS FRAME WITH NON-SKID COVER. CENTER CLEAN OUT ON 18"X18"X6" THICK CONCRETE BASE FLUSH WITH FINISH GRADE.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— • —	DOMESTIC COLD WATER LINE		BALL VALVE		UNION	CW	COLD WATER
— •• —	DOMESTIC HOT WATER LINE		BALANCING VALVE		BRANCH - TOP CONNECTION	DN	DOWN
— ••• —	DOMESTIC HOT WATER RETURN LINE		CHECK VALVE		PIPE RISER	F.F.E.	FINISH FLOOR ELEVATION
—TW—	DOMESTIC TEMPERED WATER LINE		GATE VALVE		PIPE DROP	FU	FIXTURE UNITS
— —	SANITARY SEWER VENT LINE	FCO	FLOOR CLEANOUT		THERMOMETER	GW	GREASE WASTE
———	SANITARY WASTE LINE	YCO	YARD CLEANOUT		DIRECTION OF FLOW	I.E.	INVERT ELEVATION
—CD—	CONDENSATE LINE		FLOOR SINK	CV	CALIBRATING VALVE	HW	HOT WATER
—GW—	GREASE WASTE LINE		FLOOR DRAIN	WCO	WALL CLEANOUT	SS	SANITARY SEWER
—GAS—	GAS LINE		ROOF DRAIN	P-1	PLUMBING RISER DESIGNATION	TP	TRAP PRIMER
—AIR—	AIR LINE		SUMP PUMP	02 P-3.1	PLUMBING DETAIL REFERENCE	TYP	TYPICAL
—AW—	ACID WASTE LINE		WALL HYDRANT	ABV. CLG.	ABOVE CEILING	UND. LAV.	UNDER LAVATORY
—RD—	ROOF DRAIN LINE		HOSE BIBB	B.F.F.	BELOW FINISH FLOOR	V	VENT
—OD—	OVERFLOW DRAIN LINE	WHA	WATER HAMMER ARRESTOR	CO	CLEAN OUT	VTR	VENT THRU ROOF

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

SUMP PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	RPM	HP	GPM	WATTS	V/PH/HZ	NOTES
SP-1	BELL & GOSSET	2EC0511	3500	1/2.	50	1667	115/1/60	1

NOTE:
1. PUMP IS PART OF ELEVATOR SUMP KIT EQUAL TO CENTRIPRO MODEL #ELKT2EC0511. ELEVATOR SUMP KIT SHALL INCLUDE OIL SMART SIMPLEX PANEL, LIQUID SMART SENSOR, OIL SMART PUMP SWITCH AND PUMP.

1 PLUMBING SCHEDULE & LEGEND
SCALE: N.T.S.

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06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL
EST. 1967
WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

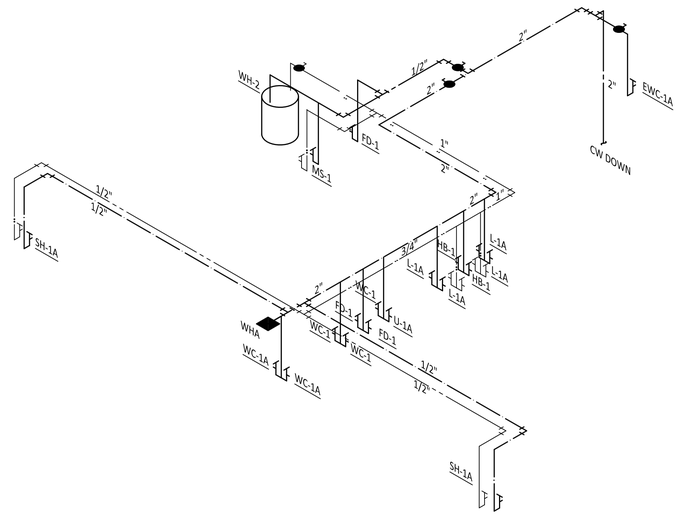
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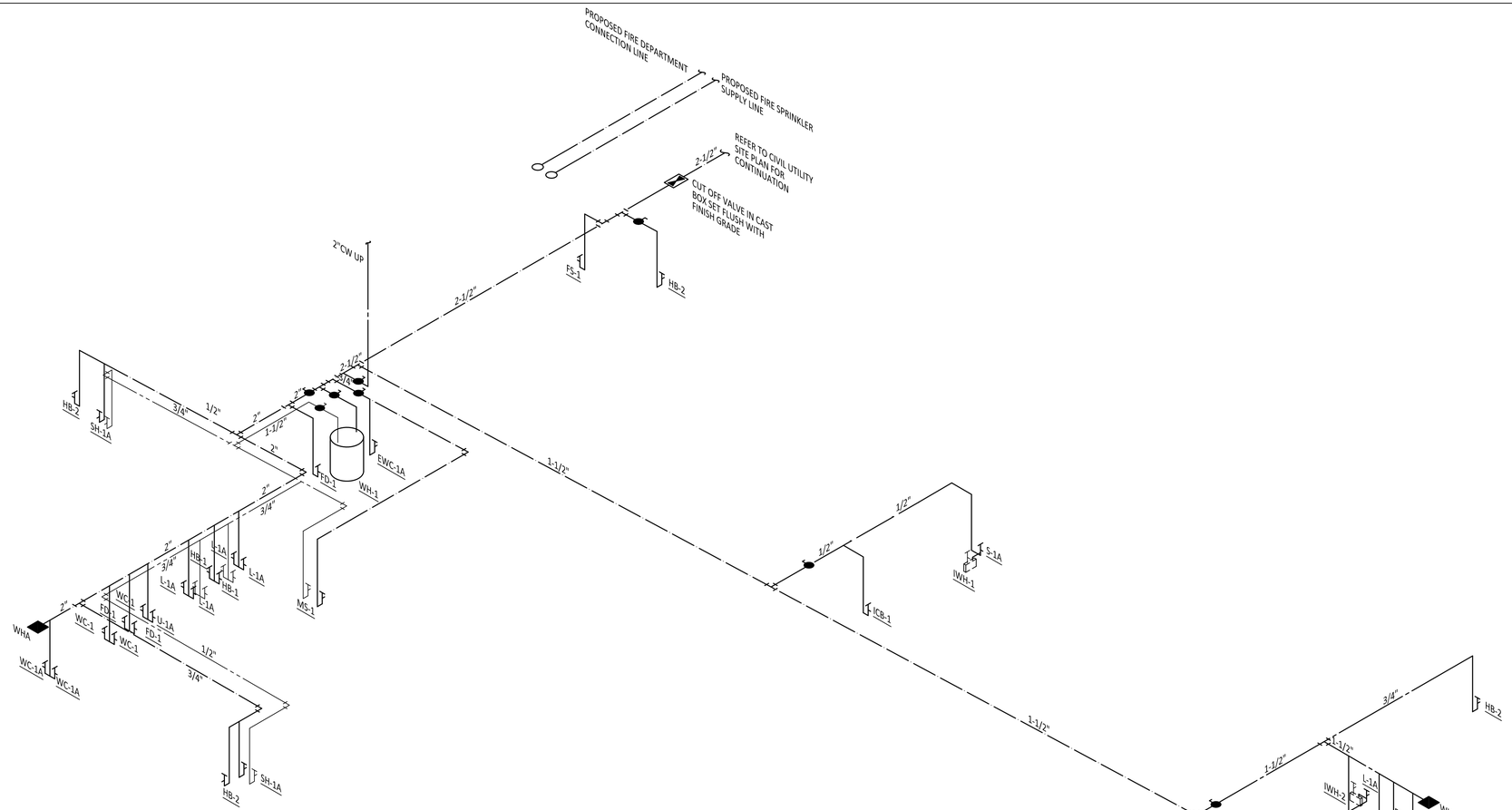
PLUMBING SCHEDULE & LEGEND

P-3.0



1 PLUMBING DOMESTIC WATER RISER DIAGRAM - SECOND FLOOR

SCALE: N.T.S.



2 PLUMBING DOMESTIC WATER RISER DIAGRAM - FIRST FLOOR

SCALE: N.T.S.

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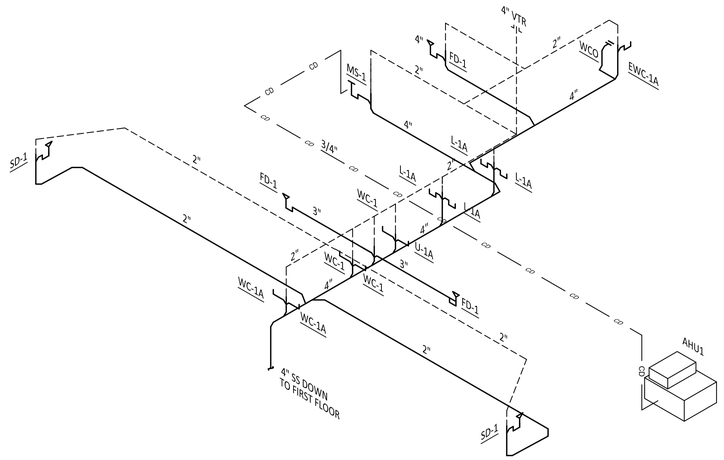
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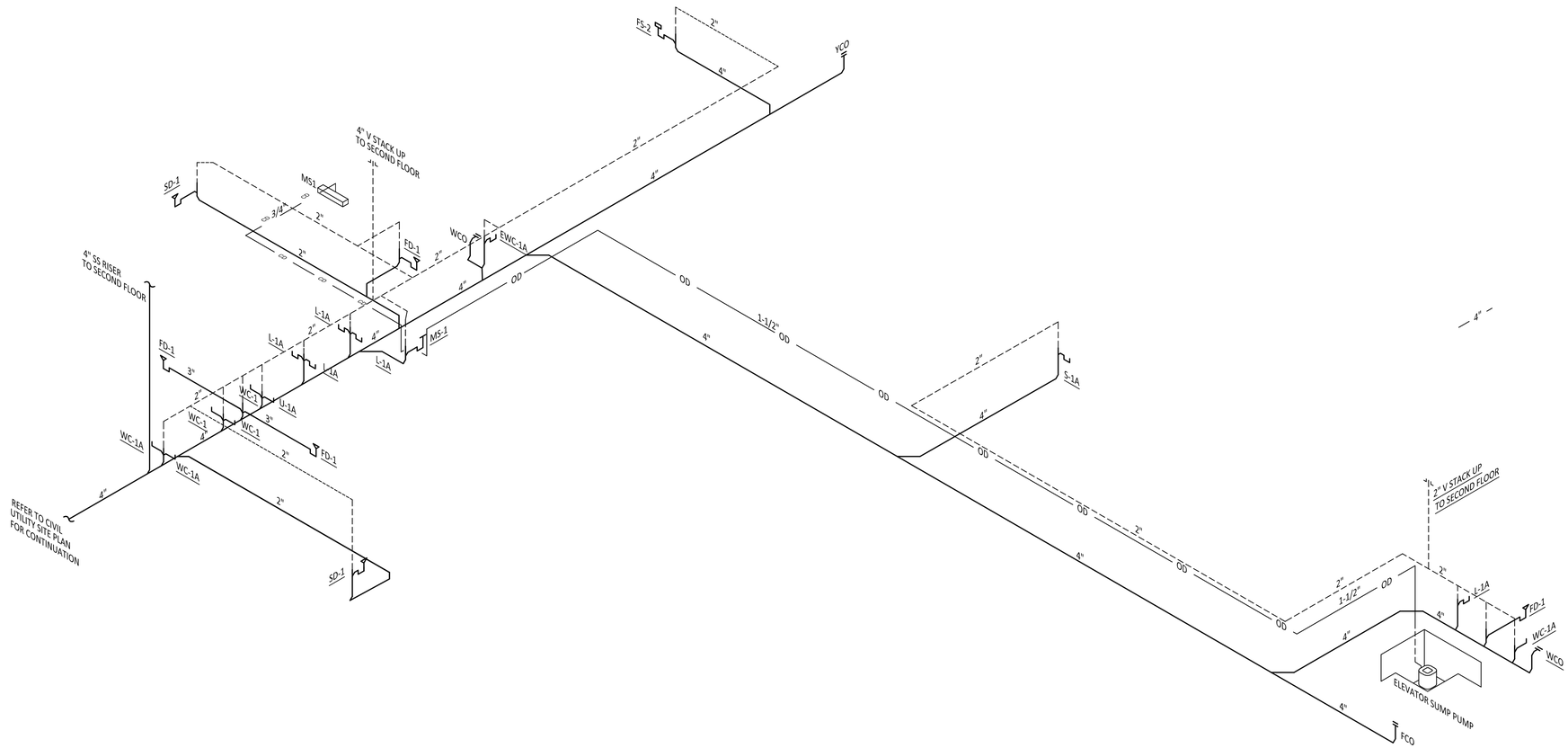
PLUMBING RISER DIAGRAM

P-4.0



1 PLUMBING SANITARY SEWER RISER DIAGRAM - SECOND FLOOR

SCALE: N.T.S.



2 PLUMBING SANITARY SEWER RISER DIAGRAM - FIRST FLOOR

SCALE: N.T.S.



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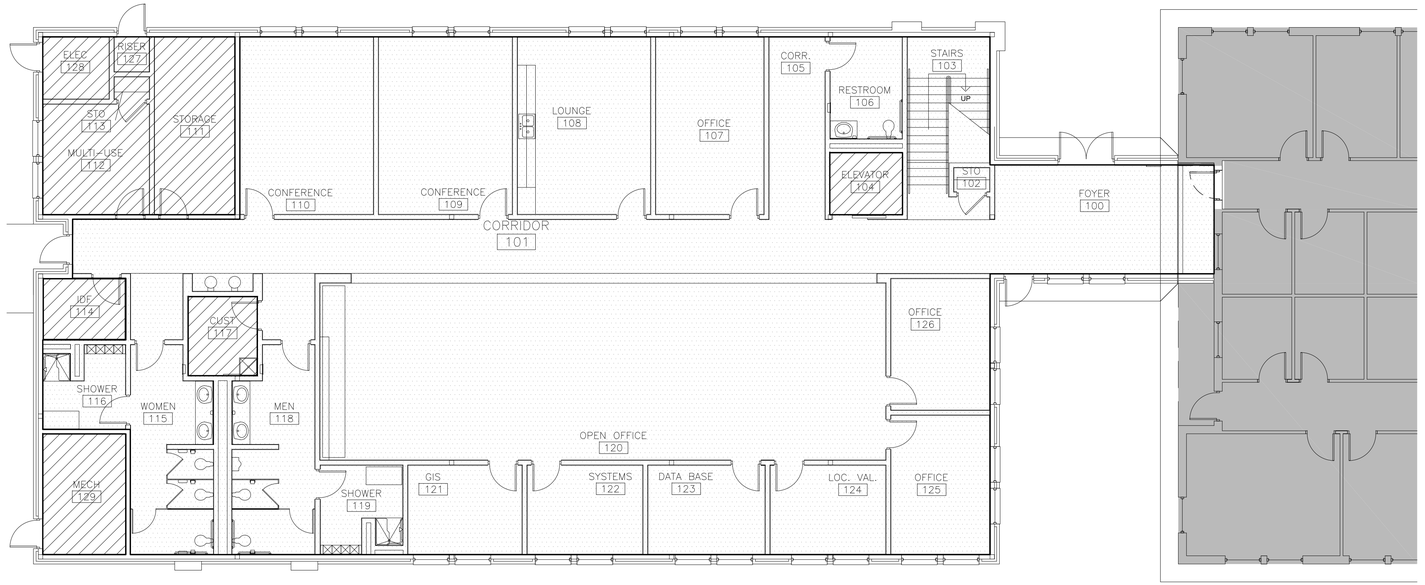
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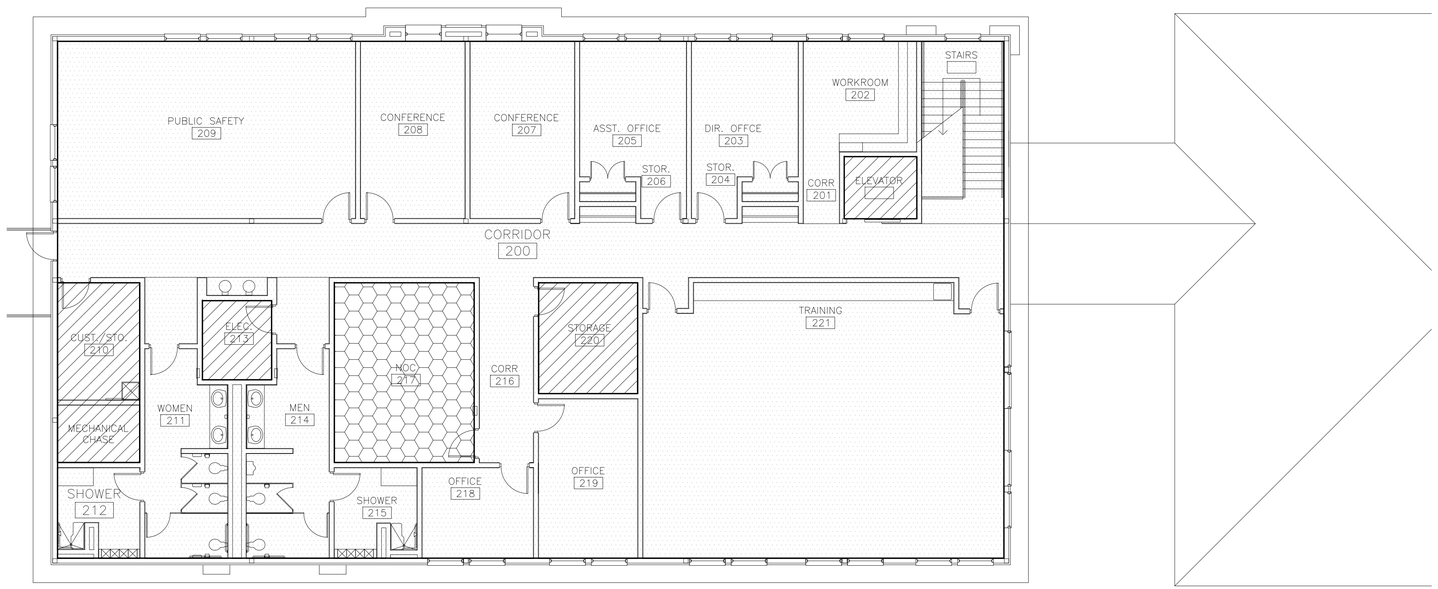
PLUMBING RISER DIAGRAM

P-4.1



1 FIRST FLOOR CONCEPTUAL FIRE PROTECTION PLAN

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



2 SECOND FLOOR CONCEPTUAL FIRE PROTECTION PLAN

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

LEGEND

ORDINARY HAZARD GROUP 2 FOR STORAGE ROOMS, MECHANICAL ROOMS, LARGE STACK ROOM AREAS OF THE LIBRARY (IF ANY).
DESIGN DENSITY IS 0.20 GPM/SQ.FT.
250 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

ORDINARY HAZARD GROUP 1 FOR KITCHEN AREA AND LAUNDRY
DESIGN DENSITY IS 0.15 GPM/SQ.FT.
250 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

LIGHT HAZARD FOR CLASS ROOMS, OFFICES, CORRIDORS, GYMNASIUM, CAFETERIA, AUDITORIUM (EXCEPT STORAGE AREA), LIBRARY (EXCEPT LARGE STACK ROOM AREAS).
DESIGN DENSITY IS 0.10 GPM/SQ.FT.
100 GPM HOSE ALLOWANCE
DESIGN AREA=1500 SQ. FT.

HIGH HAZARD FOR STORAGE OF FLAMMABLE LIQUIDS
DESIGN DENSITY IS 0.60 GPM/SQ.FT.
500 GPM HOSE ALLOWANCE
DESIGN AREA=2000 SQ. FT.

PROVIDE A FIRE DETECTION AND INERGEN TOTAL FLOODING, GASEOUS, CLEAN AGENT, FIRE SUPPRESSION SYSTEM. THE AMOUNT OF AGENT STORAGE CYLINDERS SHALL BE DETERMINED BY THE MANUFACTURE RECOMMENDATIONS, SPECIFICATIONS, AND GUILDLINES. COORDINATE LOCATION WITH ARCHITECT.

GENERAL NOTES:

1. REFER TO SHEET P-5.1 FOR AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.
2. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

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FIRE PROTECTION PLAN

P-5.0

AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES:

PART 1 - GENERAL

1.01 SCOPE:

A. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED FOR THE COMPLETE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.

B. ALL AREAS OF THE BUILDING SHALL BE PROTECTED BY WET AUTOMATIC FIRE SPRINKLERS.THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED. DENSITY SHALL BE IN ACCORDANCE WITH NFPA-13, NFPA 24 AND NFPA 231.

C. THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FLOW TEST, FROM THE CITY, PERFORMED WITHIN THE LAST 12 MONTHS TO VERIFY ADEQUATE WATER SUPPLY FOR THE FIRE SPRINKLER SYSTEM PRIOR TO BIDDING.

D. FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DESIGNING AND INSTALLING SYSTEM.

E. WATER SUPPLY SHALL COME FROM A NEW FIRE LINE SERVICE COMPLETE WITH, DOUBLE CHECK BACKFLOW PREVENTER, AND VALVING AS REQUIRED BY THE CITY. THE FIRE SPRINKLER CONTRACTOR SHALL PAY ALL TAP FEES, PERMITS, AND CHARGES NECESSARY FOR A COMPLETE AND APPROVED INSTALLATION.

1.02 QUALITY ASSURANCE:

A. SPRINKLER SYSTEM SHALL COMPLY WITH ALL APPLICABLE STATE AND CITY CODES, NFPA REQUIREMENTS, AND OWNER'S INSURANCE COMPANY REQUIREMENTS; INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. UNIFORM BUILDING CODE.
2. NFPA CHAPTER 13, 24 & 231.
3. LIFE SAFETY CODE NFPA-101.
4. OWNER'S INSURANCE UNDERWRITER REQUIREMENTS.
5. INTERNATIONAL FIRE CODE.

1.03 SUBMITTALS:

A. PREPARE DETAILED WORKING DRAWINGS OF THE AUTOMATIC SPRINKLER SYSTEM.

B. SUBMIT DRAWINGS AND CALCULATIONS TO FIRE MARSHAL, AND OWNER'S INSURANCE UNDERWRITER AND OBTAIN THEIR APPROVAL.

C. SUBMIT FOUR (4) COPIES OF APPROVED DRAWINGS AND CALCULATIONS TO THE ARCHITECT AND TWO (2) COPIES TO THE FIRE MARSHALL FOR THEIR REVIEW AND APPROVAL.

D. SUBMIT "CUTSHEET" SAMPLES OF SPRINKLER HEADS TO ARCHITECT FOR APPROVAL.

PART 2 - PRODUCTS

2.01 GENERAL:

A. ALL MATERIALS, EQUIPMENT, VALVES AND DEVICES INSTALLED OR FURNISHED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED AND FACTORY MUTUAL (FM) APPROVED FOR USE BY THE AUTHORITIES, AGENCIES, CODES AND STANDARDS CITED IN THIS SECTION OF THE SPECIFICATIONS.

2.02 PIPING:

A. SPRINKLER PIPING SMALLER THAN 4" SHALL BE SCHEDULE 40 (ASTM SPECIFICATIONS A-120 OR A-53) BLACK STEEL PIPE WHICH SHALL BE ASSEMBLED WITH 175 PSIG STANDARD CAST IRON, THREADED FITTINGS OR WITH FLANGED SPRINKLER TYPE FITTINGS OR GROOVED FITTINGS AS REQUIRED. PIPING 4" AND LARGER MAY BE UL APPROVED STEEL PIPE WITH GROOVED OR WELDED FITTINGS AS APPROVED BY THE LOCAL AUTHORITIES. GROOVED FITTINGS SHALL BE VICTAULIC OR APPROVED EQUAL. THE GROOVING MACHINE SHALL BE THE SAME AS THAT RECOMMENDED BY THE FITTINGS MANUFACTURER.

B. SCHEDULE 10 (THIN WALL) SPRINKLER PIPING MAY BE USED WHERE APPROVED BY THE AUTHORITIES.

C. PIPING FROM 5'-0" OUTSIDE BUILDING TO ALARM CHECK VALVE INSTALLATION SHALL BE DUCTILE IRON PIPING WRAPPED WITH 3 MIL POLYETHYLENE.

2.03 HANGERS:

A. PROVIDE NECESSARY UL APPROVED HANGERS TO SUPPORT THE SPRINKLER PIPINGS. HANGERS SHALL BE SPACED IN ACCORDANCE WITH REQUIREMENTS OF THE NFPA CHAPTER 13.

2.04 SPRINKLERS:

A. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE PENDENT SPRAY TYPE, CHROME FINISH WITH CHROME ESCUTCHEON AND SHALL BE EQUAL TO GRINNELL ISSUE 'C' DURASPEED 1/2" ORIFICE AND UL AND FM LISTED.

B. HEADS IN AREAS WITHOUT CEILINGS AND WITH EXPOSED PIPING SHALL BE UPRIGHT TYPE, BRASS FINISH AND SHALL BE EQUAL TO GRINNELL QUICK RESPONSE MODEL "A" 1/2" ORIFICE AND UL AND FM LISTED.

C. HEAD IN VICINITY OF HEATING EQUIPMENT AND ELECTRICAL EQUIPMENT SHALL BE HIGH TEMPERATURE HEADS OF THE TYPE APPROVED BY FM AND UL.

2.05 FIRE DEPARTMENT SIAMESE:

A. SHALL BE EQUAL TO W.D. ALLEN NO. 231 UPRIGHT TWO WAY 2 1/2", 2-1/2" X 4" SIZE, CHROME PLATED, FRONT PLATE WITH RAISED LETTERING, "AUTOMATIC SPRINKLER", AND CHROME PLATED CAPS ATTACHED WITH SUFFICIENT AMOUNT OF CHAIN.

2.06 GATE VALVES:

A. GATE VALVES 2-1/2" AND LARGER SHALL BE UNDERWRITER'S APPROVAL EQUAL TO JENKINS 825A OR CRANE 467.

2.07 CHECK VALVES:

A. ALL CHECK VALVES SHALL BE EQUAL TO JENKINS 729, CRANE 375 OR WALWORTH 883F AND EQUIPPED WITH AN AUTOMATIC BALL DRIP TO DRAIN THE LINE BETWEEN THE FIRE DEPARTMENT CONNECTION AND THE CHECK VALVE.

2.08 FLOW SWITCHES:

A. PROVIDE A GRINNELL SERIES WFD FLOW SWITCH IN EACH SPRINKLER SYSTEM CONNECTION SERVING EACH SPRINKLER ZONE. SWITCHES SHALL BE SUITABLE FOR CONNECTION INTO THE FIRE ALARM SYSTEM.

2.09 MONITOR SWITCHES:

A. EACH MANUAL SECTIONALIZING VALVE AND SHUTOFF VALVE IN THE SPRINKLER SYSTEM SHALL BE PROVIDED WITH A GRINNELL F640 MONITORING SWITCH TO INDICATE WHETHER THE VALVE IS OPEN OR CLOSED. WIRING FROM SWITCHES TO THE FIRE ALARM SYSTEM WILL BE DONE UNDER DIVISION 16. THE SWITCH SHALL HAVE A TAMPER INDICATION IF REMOVED FROM ITS MOUNTING OR THE HOUSING COVER IS REMOVED; IT SHALL SIGNAL AN ALARM WHEN THE VALVE POSITION IS ALTERED.

2.10 ALARM VALVE ASSEMBLIES:

A. THE ALARM VALVE ASSEMBLY SHALL BE EQUAL TO GRINNELL MODEL A-3 CONSISTING OF A SERVICE SHUTOFF VALVE, A CLAPPER TYPE MAIN CHECK VALVE, AN AUXILIARY SEAT (ALARM OUTLET), A RETARDING CHAMBER, AND ELECTRIC CIRCUIT CLOSER, GAUGES, CHECK VALVES, GATE VALVES, GLOBE OR ANGLE VALVES AND COCKS.

2.11 WATER MOTOR GONG:

A. WATER POWERED GONG WITH CLAPPER ROLLER, CLAPPER, STRAINER, WATER WHEEL SHAFT, HOUSING, COVER PLATES AND OTHER STANDARD COMPONENTS.

2.12 SPARE SPRINKLERS:

A. PROVIDE A WALL MOUNTED SPRINKLER CABINET WITH A MINIMUM OF 12 SPRINKLERS OF EACH TYPE INSTALLED AND A SPRINKLER WRENCH. MOUNT CABINET NEXT TO SPRINKLER ALARM VALVE.

2.13 DOUBLE CHECK BACKFLOW PREVENTER:

A. FURNISH AND INSTALL A DOUBLE-CHECK BACKFLOW PREVENTER ASSEMBLY WITH POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION AS MANUFACTURED BY PARK EQUIPMENT, HOUSTON, TX. MODEL BPPF-1, OR APPROVED EQUAL.

PART 3 - EXECUTION

3.01 SCOPE:

A. FURNISH AND INSTALL WITH ALL RELATED ITEMS, A COMPLETELY DESIGNED FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM.

3.02 CERTIFIED CONTRACTORS:

A. FABRICATION AND INSTALLATION SHALL BE BY STATE LICENSED FIRE SPRINKLER COMPANY WITH EXPERIENCED, COMPETENT WORKMEN REGULARLY ENGAGED IN THE WORK.

3.03 COORDINATION:

A. WORK SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
1. REQUIRED FITTINGS AND VALVES, ETC.
2. OVERHEAD SPRINKLER SYSTEM FOR ENTIRE BUILDING, INCLUDING ALL REQUIRED ITEMS, EXCEPT UNDER EXTERIOR CANOPIES AND/OR OVERHANGS OVER WALKWAYS.

3.04 DESIGN:

A. PIPING IN AREAS HAVING CEILINGS, OTHER THAN THE UNDERSIDE OF THE ROOF DECK, SHALL BE CONCEALED; PIPING IN STORAGE AND SERVICE AREAS MAY BE EXPOSED BUT KEPT AT A MINIMUM DISTANCE FROM CEILING. ALL PIPING SHALL BE NEW, CLEAN AND FREE FROM RUST.

B. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK AND SERVICES WITH ALL OTHER CEILING MOUNTED, SUSPENDED OR OVERHEAD EQUIPMENT AND WITH STRUCTURAL SYSTEM. NO SPRINKLER LINES SHALL PASS THROUGH DUCTWORK.

C. DEEP ESCUTCHEONS MAY BE USED IN ORDER TO LOCATE HEADS CLOSE TO LIGHTING FIXTURES. WHERE SPRINKLER HEADS OCCUR UNDER OVERHANGS, ESCUTCHEONS OF LESSER DEPTH MAY BE USED WHERE ACCEPTABLE TO THE CITY FIRE MARSHAL AND NFPA 13.

D. RISERS SHALL BE LOCATED WHERE INDICATED ON THE DRAWINGS AND BE EQUIPPED WITH VARIABLE PRESSURE ALARM VALVES. VALVES SHALL BE COMPLETE WITH ALL NECESSARY ITEMS, FITTINGS, IDENTIFICATION TAGS OR PLATES, AND ACCESSORIES INCLUDING ALARM VALVE AND WATER MOTOR GONG. DESIGN SHALL ALLOW FOR SUITABLE VENTING AND DRAINAGE OF SAME, ALL TO MEET WITH THE APPROVAL OF THE CITY FIRE MARSHAL AND THE OWNER'S INSURANCE UNDERWRITER AND NFPA 13.

E. DESIGNS REQUIRING CUTTING OF STRUCTURAL MEMBERS FOR PASSAGE OF SPRINKLER PIPE AND HANGER SHALL BE AVOIDED. WHEN DESIGN, DUE TO ECONOMY, APPEARANCE AND SIMILAR ASPECTS, DENOTE THE NECESSITY OF CUTTING, IT SHALL BE HELD TO AN ABSOLUTE MINIMUM AND DONE ONLY WITH THE ARCHITECT'S WRITTEN APPROVAL.

F. IN ADDITION TO MEETING THE NATIONAL FIRE PROTECTION ASSOCIATION NO, 13 REQUIREMENTS, THE FOLLOWING WILL APPLY TO THE SPRINKLER SYSTEM:
1. THE SPRINKLER SYSTEM SHALL BE ELECTRICALLY INTER-CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
2. THE SPRINKLER SYSTEM MAIN CONTROL VALVE SHALL BE ELECTRICALLY SUPERVISED SO THAT AT LEAST A LOCAL ALARM WILL SOUND WHEN THE VALVE IS CLOSED.

3.05 DRAWINGS:

A. SHOP DRAWINGS CONSISTING OF THE FOLLOWING SHALL BE FURNISHED BY THE SPRINKLER SUB- CONTRACTOR:
1. LAYOUT DRAWING OF COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEM INDICATING RELATIONSHIP OF ALL OTHER OVERHEAD ITEMS INCLUDING LIGHT FIXTURES, LOCATION OF RISERS, PIPING, ETC. SHALL BE AS INCONSPICUOUS AS POSSIBLE, PROVIDE A PLEASING OVERHEAD APPEARANCE, AND STILL FULFILL ALL FUNCTIONAL REQUIREMENTS.
2. SPRINKLER CONTRACTOR SHALL OBTAIN A COPY OF APPROVED CEILING GRID SYSTEM FROM CEILING SUB-CONTRACTOR AND SHALL WORK TO THIS LAYOUT WHEN PREPARING SHOP DRAWINGS AND INSTALLING WORK. CUTTING OF CEILING RUNNERS WILL NOT BE PERMITTED.
3. PILOT PLAN INDICATING LOCATION OF ALL UNDERGROUND CONNECTIONS, CONTROL VALVES, PIPING AND ALL RELATED ITEMS, AND ANY OTHER ITEMS OF DATA DEEMED NECESSARY BY THE CITY FIRE MARSHAL AND NFPA 13.
4. COMPLETE DETAILS AND SECTIONS AS REQUIRED TO CLEARLY DEFINE AND CLARIFY THE DESIGN INDICATED BY THE AFOREMENTIONED LAYOUT AND PILOT PLAN.
5. ALL SHOP DRAWINGS, PRIOR TO BEING SENT TO THE ARCHITECT, MUST BEAR BOTH THE CITY FIRE ENGINEERING DEPT. STAMP OF ACCEPTANCE AND THE OWNER'S INSURANCE UNDERWRITER STAMP OF ACCEPTANCE.

B. FURNISH AND INSTALL, NEXT TO THE SPRINKLER RISER MAIN, A PRINTED SHEET, PROTECTED BY WOOD FRAMED GLASS COVER, GIVING BRIEF INSTRUCTIONS REGARDING CONTROL, EMERGENCY PROCEDURE AND OTHER DATA AS DEEMED NECESSARY BY THE CITY FIRE MARSHAL AND THE OWNER'S INSURANCE UNDERWRITER.

C. UPON COMPLETION OF THE WORK, ACCURATELY MARK ONE COPY OF SHOP DRAWINGS SHOWING LOCATION OF ALL UNDERGROUND FIRE PREVENTION SYSTEM PIPING, VALVES, ETC., AS FINALLY INSTALLED. SHOW LOCATION OF UNDERGROUND PIPING AND VALVES BY DIMENSION. ALSO, GIVE FLOW LINE ELEVATIONS OF UNDERGROUND PIPING FROM STREET MAIN TO BUILDING. UPON COMPLETION OF THE JOB, FURNISH OWNER ONE (1) NEAT LEGIBLE COPY OF "AS BUILT" DRAWINGS.

3.06 INSTALLATION:

A. SLEEVES SHALL BE PROVIDED FOR PIPING PASSING THROUGH CONCRETE SLABS, CONCRETE OR MASONRY WALLS AND PARTITIONS, THROUGH FLOORS, CEILINGS, WALLS, OR PARTITIONS OF OTHER BUILDING MATERIALS. WATERTIGHT SLEEVES CAULKED WITH MASTIC OR LEAD SHALL BE PROVIDED FOR FLOOR SLABS AND WALLS ON OR BELOW GRADE. STANDARD PIPE OR GALVANIZED SHEET METAL SLEEVES SHALL BE INSTALLED IN ABOVE GRADE CONSTRUCTION AS MAY BE REQUIRED. THE SLEEVES SHALL BE OF SUFFICIENT DIAMETER TO PASS PIPE LINES WITH COUPLINGS OR WITH INSULATION OR ANNULAR AREA FOR CAULKING WHERE REQUIRED. ESCUTCHEONS SHALL BE APPROVED FLOOR AND CEILING PLATES MADE OF STEEL OR BRASS, PLAIN OR CHROMIUM PLATE FINISH AND SHALL BE INSTALLED AROUND ALL EXPOSED PIPING PASSING THROUGH A FINISHED FLOOR, WALL OR CEILING. THE PLATES SHALL BE OF SUFFICIENT OUTSIDE DIAMETER TO COVER THE SLEEVE OPENING AND SHALL BE PROVIDED WITH SPRINGS OR SET SCREWS TO INSURE THEM FITTING SNUGLY AROUND THE PIPE.

B. ALL OPENINGS FOR PIPING SHOULD BE ANTICIPATED AND INDICATED ON THE APPROVED AND ACCEPTED SHOP DRAWINGS. ANY ADDITIONAL CUTTING OF OPENINGS MUST HAVE WRITTEN APPROVAL OF THE ARCHITECT.

C. THIS CONTRACTOR WILL NOT USE AIR CONDITIONING DUCT SUPPORTS, AIR DEVICE OUTLETS OR SUPPORTS, PIPING OR SUPPORTS AS A MEANS OF SUPPORT OF ANY MATERIAL, ACCESSORIES OR WORKMEN IN THE INSTALLATION OF THE SYSTEM.

3.07 GUARANTEE:

A. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE BUILDING ACCEPTANCE DATE.

3.08 TESTS:

A. PRIOR TO CONNECTING TO THE OVERHEAD SPRINKLER PIPING, THE UNDERGROUND MAIN SHALL BE FLUSHED PER THE REQUIREMENTS OF THE NFPA.

B. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE TESTED FOR ACCEPTANCE BY THE OWNER'S INSURANCE UNDERWRITER.

3.09 ACCEPTANCE:

A. THE OWNER'S INSURANCE UNDERWRITER, AFTER SATISFYING THEMSELVES THAT THE INSTALLATION IS SATISFACTORY IN ALL RESPECTS, WILL ISSUE A LETTER OF FINAL ACCEPTANCE. LETTER SHALL BE ADDRESSED TO THE SPRINKLER COMPANY RESPONSIBLE FOR THE INSTALLATION, PREPARED IN TRIPLICATE AND GIVEN TO THE OWNER.

B. AFTER COMPLETION OF ALL INSTALLATION, TESTS, ETC. AND PRIOR TO THE OPENING DATE THE SPRINKLER CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF THE SPRINKLER SYSTEM. PROVIDE WRITTEN OPERATING INSTRUCTIONS AND MOUNT ON WALL IN A FRAME WITH GLASS FRONT. INCLUDE THE FOLLOWING SO THAT THE OWNER:
1. WILL IMMEDIATELY RECOGNIZE THE MAIN VALVES ARE IN OPEN OR CLOSED POSITION.
2. WILL KNOW HOW TO DRAIN THE SYSTEM.
3. WILL KNOW HOW TO RESET THE ALARM SYSTEM,
4. WILL KNOW NOW TO MAKE COMPLETE WEEKLY INSPECTION.
5. WILL KNOW HOW TO MAINTAIN SYSTEM IN ACCORDANCE WITH NFPA NO, 13.

3.10 PROTECTION DURING CONSTRUCTION: CONTRACTOR SHALL COMPLETE THE AUTOMATIC FIRE SPRINKLER SYSTEM A. READY FOR OPERATION, IN ALL RESPECTS, AS SOON AS POSSIBLE. WHEN THE SYSTEM IS COMPLETE AND READY FOR CONTINUOUS OPERATION, ACTIVATE THE SYSTEM FOR ITS INTENDED USE.

FIRE PROTECTION NOTES:

1. CONTRACTOR SHALL INSTALL AN AUTOMATIC SPRINKLER SYSTEM FOR THE BUILDING IN ACCORDANCE WITH NFPA 13. "INSTALLATION OF SPRINKLER SYSTEM" AS DESIGNED BY A LICENSED FIRE PROTECTION SPECIALIST, AND AS APPROVED BY THE WESLACO, TX FIRE MARSHALL AND THE OWNER'S INSURANCE UNDERWRITER.
2. ALL SPRINKLERS LOCATED IN LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 AREA SHALL BE "STANDARD ORIFICE TYPE" WITH 1/2 INCH DIAMETER NOMINAL ORIFICE SIZE, AND ALL SPRINKLERS LOCATED IN ORDINARY HAZARD GROUP 2 AREA SHALL BE "LARGE ORIFICE TYPE" WITH 17/32 INCH DIAMETER NOMINAL ORIFICE SIZE OR OTHER FM APPROVED AND UL LISTED SPRINKLERS AS APPROVED FOR THE PROPOSED APPLICATION.
3. CONTRACTOR SHALL INSTALL 10 POUND DRY CHEMICAL PORTABLE FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS IN ACCORDANCE WITH NFPA 10, UNLESS OTHERWISE INDICATED BY THE CITY FIRE MARSHAL
4. CONTRACTOR SHALL INSTALL A FIRE ALARM SYSTEM, REQUIRED FOR LIFE SAFETY IN ACCORDANCE WITH NFPA 70, NFPA 72, FACTORY MUTUAL ENGINEERING DESIGN CRITERIA, UNIFORM FIRE CODE, CITY APPLICABLE BUILDING CODE, TEXAS ACCESSIBILITY STANDARDS, AND THE AMERICAN WITH DISABILITIES ACT REQUIREMENTS. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE PROPOSED FIRE ALARM SYSTEM DESIGN AND PRODUCT INFORMATION, AS PREPARED BY A REGISTERED QUALIFIED FIRE ALARM SPECIALIST.
5. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S REVIEW AND APPROVAL (BEFORE COMMENCEMENT OF WORK) A PROPOSED FIRE PROTECTION SPRINKLER SYSTEM PREPARED BY A LICENSED AND REGISTERED FIRE SPRINKLER SYSTEM PROFESSIONAL. THE SUBMITTAL SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING ELEMENTS:

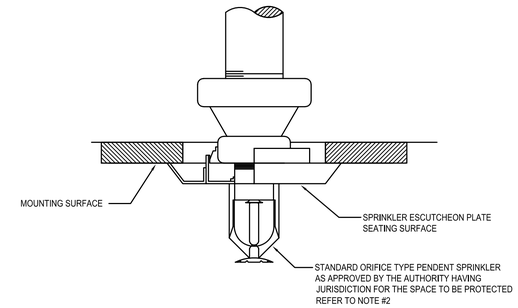
A. CONSTRUCTION DRAWINGS OF THE PROPOSED FIRE PROTECTION SYSTEM, INCLUDING: PIPE LAYOUT, ALARM VALVE, DRAIN VALVES, TEST VALVES, ETC., AND THE CENTERLINE ELEVATIONS OF THE BRANCH LINES, CROSS MAINS FEED MAINS.

B. CONTRACTOR'S WORK PLAN AND SCHEDULING.

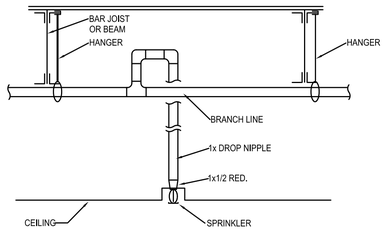
C. METHODS AND MATERIALS OF CONSTRUCTION, (THE LICENSED PROFESSIONAL MUST BE KNOWLEDGEABLE WITH AND IN COMPLIANCE WITH ALL APPROPRIATE UL LISTINGS AND FACTORY MUTUAL REQUIREMENTS. SYSTEM DESIGN, MATERIAL, FABRICATION AND INSTALLATION SHALL MEET MOST CURRENT EDITION OF NFPA 13, UNIFORM FIRE CODE, AND FACTORY MUTUAL DESIGN AND INSTALLATION REQUIREMENTS AND SHALL BE SUBMITTED FOR APPROVAL BY CITY FIRE MARSHAL, STATE AND THE OWNER'S INSURANCE UNDERWRITER.)

6. 3" AND LARGER PIPING SHALL BE BLACK CARBON STEEL SCH-40 ASTM A53 WITH CUT GROOVED FITTINGS. 2 1/2" AND SMALLER PIPING SHALL BE BLACK CARBON STEEL SCH-40 ASTM A53 WITH THREADED CLASS 125 FITTINGS. ALL PIPE HANGERS SHALL BE BLACK CARBON STEEL. PIPING, FITTINGS AND PIPE HANGERS BE AS MANUFACTURED BY VICTAULIC, ITT GRINNEL, GRUVLOK OR APPROVED EQUAL, OR OTHER FM APPROVED AND UL LISTED PIPING AS APPROVED FOR THE PROPOSED APPLICATION.
7. ALL PIPE HANGER MATERIAL TO BE BLACK IRON.
8. NEW PIPING TO BE HYDROSTATICALLY TESTED AT 210 PSI FOR A MINIMUM 2 HOURS, TEST TO BE WITNESSED BY OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL INSTALL FIRE PROTECTION SYSTEM PLUMB AND STRAIGHT WITH BUILDING VERTICAL AND HORIZONTAL.
10. ALL VALVES SUCH AS INSPECTOR TEST VALVES TO BE LOCATED AT LEAST 6' FROM FLOOR. INSPECTOR TEST VALVES SHALL BE INSTALLED AS PER 13 REQUIREMENTS.
11. CONTRACTOR SHALL PLACE THE SPRINKLER HEADS IN THE CENTERS OF CEILING TILES, AND SHALL ALIGN SPRINKLER HEADS.
12. CONTRACTOR SHALL INSTALL HIGH END TEST STATIONS AND LOW END AS REQUIRED BY NFPA.
13. CONTRACTOR SHALL INSTALL ALL SPRINKLER PIPES AND FITTINGS LEVEL, SO THAT THE SYSTEM CAN BE DRAINED, TRAPPED PIPING SHALL BE THROUGH AUXILIARY DRAINS. THESE AUXILIARY DRAINS SHALL BE AT THE LOCATIONS WHERE A CHANGE IN PIPING DIRECTION DRAINAGE OF THE SYSTEM PIPING THROUGH THE MAIN DRAIN

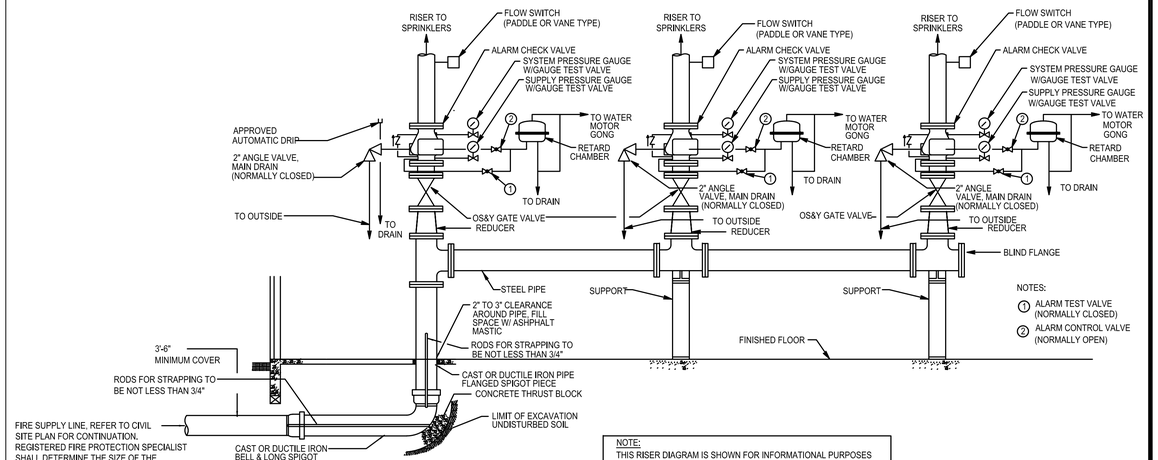
1 AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES
SCALE: N.T.S.



2 TWO-PIECE (ADJUSTABLE) FLUSH ESCUTCHEON PLATE
SCALE: N.T.S.



3 TYPICAL PENDENT SPRINKLER DETAIL
SCALE: N.T.S.



NOTE:
THIS RISER DIAGRAM IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE FINAL RISER CONFIGURATION, NUMBER OF RISERS, SIZE OF PIPING AND ALL OTHER DESIGN REQUIREMENTS SHALL BE DETERMINED BY THE LICENSED FIRE PROTECTION SPECIALIST

4 WET PIPE RISER DETAIL
SCALE: N.T.S.

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LICENSED PROFESSIONAL ENGINEER
06-05-2019

LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL EST 1967

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
Drawing Date:	06-05-2019
Drawn:	EC
Checked:	GH
Scale:	
ACAD File:	

Revisions:

Sheet Title:

SPRINKLER SYSTEM SPECIFICATIONS

P-5.1

DOOR STATUS CONTACT, POWER HINGE AND DOOR ELECTRIC LOCK SCHEDULE

ID#	VOLTAGE	DOOR CONTACT	POWER TRANFER HINGE & ELECTRIFIED LOCK	MTRNG. SWITCH
DC	24 VOLTS	SECURITRON#MSS-1	REFER TO DOOR HARDWARE SPEC.	101.1

KEYPAD SCHEDULE

ID#	KEYPAD DESCRIPTION	KEYPAD MFGR/MODEL	MOUNT TYPE	MOUNTING HEIGHT
KP	CORRIDOR & FOYER	HONEWELL #6160	WALL	48"

J-HOOK FILL TABLE

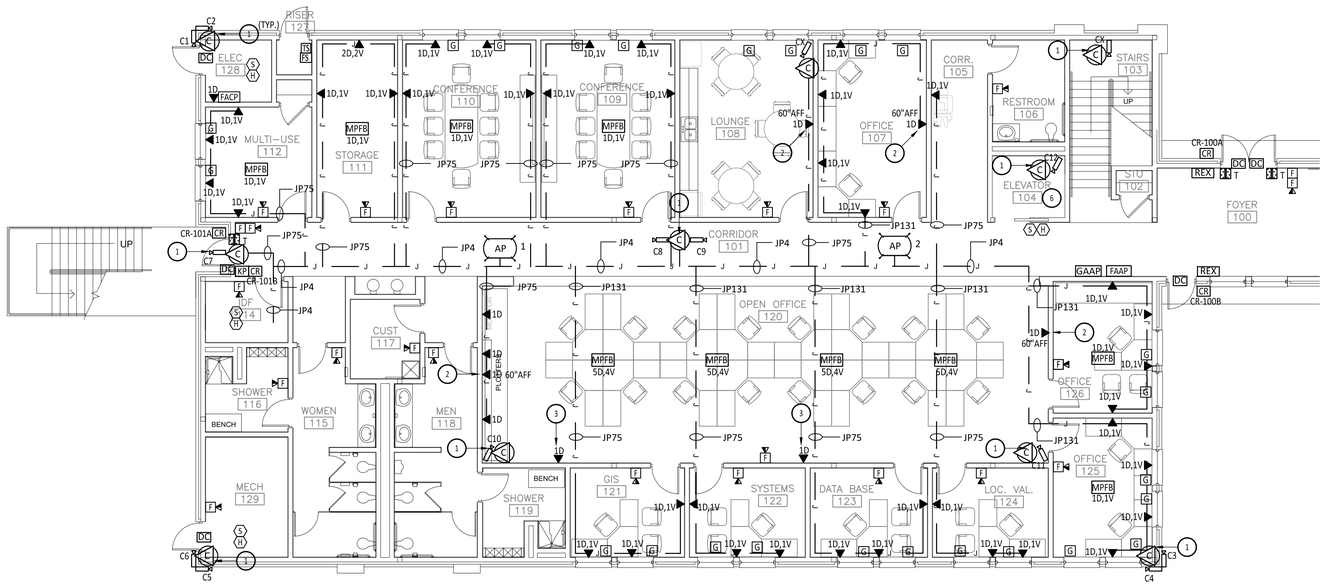
PANDUIT TRADE SIZE	.75" (JP75)	1.31" (JP131)	2"(JP2)	4"(JP4)
0.225 " OD CABLES***	8	25	46	180
0.3 " OD CABLES	5	15	30	115

NOTES:
1. CONDUIT FILL CALCULATIONS ARE BASED ON PANDUIT J-PRO.
VERIFY FILL RATES WITH ACTUAL HOOKS USED AND BY
MANUFACTURER CABLE DIMENSIONS AND UL LISTED FIRE STOP ASSEMBLIES.
2. ALL J-HOOKS ALONG CORRIDORS SHALL BE WALL MOUNTED WITH BRACKETS
3. ALL J-HOOKS WITHIN ROOMS SHALL BE INSTALLED WITH HAMMER-ON BEAM CLAMPS
4. FURNISH WITH LOOP CABLE TIES (MAROON) # HLP5S-X12
5. USE CABLE BUNDLE ORGANIZING TOOL TO ARRANGE CABLES
6. MAXIMUM SPACING BETWEEN J-HOOKS (4' TO 5')
7. MINIMUM BEND RADIUS (4X CABLE DIAMETER)
*** IDENTIFIES CABLE USED FOR BASIS OF DESIGN (CATEGORY 6)

CONDUIT FILL TABLE

TRADE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
0.225 " OD CABLES***	4	6	11	14	24	41	62	81	104
0.26 " OD CABLES	3	5	8	11	18	31	47	61	78
0.5" OD CABLES	0	1	2	3	5	8	13	16	21
1" OD CABLES	0	0	1	1	1	2	3	4	5

NOTES:
CONDUIT FILL CALCULATIONS ARE BASED ON EMT CONDUIT. VERIFY FILL RATES WITH ACTUAL CONDUIT USED AND BY
MANUFACTURER CABLE DIMENSIONS AND UL LISTED FIRE STOP ASSEMBLIES.
*** IDENTIFIES CABLE USED FOR BASIS OF DESIGN



SPECIAL SYSTEMS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
CR	SECURITY SYSTEM CARD READER
T	EXIT DEVICE, (ELECTRIC STRIKE, ELECTROMAGNETIC)
	POWER TRANSFER HINGE
MC	MICROPHONE
PB	PANIC/DURESS BUTTON
KP	INTRUSION DETECTION KEYPAD
MD	MOTION DETECTION SENSOR
DC	DOOR STATUS SWITCH
G	GLASSBREAK SENSOR
ADO	AUTOMATIC DOOR OPERATOR
	CLOCKS - SINGLE OR DOUBLE FACE, IP BASED, DIGITAL CLOCKS
IDP	INTRUSION DETECTION PANEL
ACC	ACCESS CONTROL PANEL
AV	AUDIO AND VIDEO WALL WIRING DEVICE. FURNISH AND INSTALL LEGRAND EFSB4 WITH QTY.(3) 1-INCH CONDUITS WITH PULL STRINGS FROM BOX TO ACCESSIBLE ABOVE CEILING.
	CEILING MOUNTED PROJECTOR MOUNT HARDWARE, CEILING MOUNTED RECESSED AUDIO AND VIDEO DEVICES, AND CEILING MOUNTED RECESSED RECEPTACLE.
WAP X	WIRELESS ACCESS POINTS; X DENOTES ACCESS POINT ID# (FURNISH CEILING MOUNTED ENCLOSURE EQUAL TO LEGRAND # WAPENCL-24-24-4)
X DENOTES CAMERA # / CX / X DENOTES CAMERA TYPE / CX / X DENOTES CAMERA #	SURVEILLANCE CAMERAS (UNLESS OTHER WISE NOTED, ALL CAMERAS ARE FIXED) PTZ= (PAN-TILT-ZOOM) REFER TO MOUNTING DETAILS FOR MOUNTING HARDWARE REQUIREMENTS; FURNISH AND INSTALL 1-INCH CONDUIT WITH CATEGORY 6 CABLE FROM CAMERA MOUNTING HARDWARE TO TELECOM/MDF RM. CONDUIT STUB OUT SHALL BE ABOVE TELECOMMUNICATION LADDER RUNWAY.
S	INTRUSION DETECTION SIREN
MPFB	MULTIPURPOSE WIRING DEVICE FLOOR BOX; RECEPTACLES, DATA, AUDIO/VIDEO. FLOOR BOX AND RECEPTACLE TO BE FURNISH AND INSTALLED BY ELECTRICAL CONTRACTOR. DATA, AUDIO/VIDEO TO BE FURNISHED AND INSTALLED BY TELECOMMUNICATION CONTRACTOR.
FB	MULTIPURPOSE WIRING DEVICE FLOOR POKE THROUGH BOX; RECEPTACLES, DATA, AUDIO/VIDEO. FLOOR BOX AND RECEPTACLE TO BE FURNISH AND INSTALLED BY ELECTRICAL CONTRACTOR. DATA, AUDIO/VIDEO TO BE FURNISHED AND INSTALLED BY TELECOMMUNICATION CONTRACTOR.
DH	MAGNETIC DOOR HOLDER, FLOOR MOUNTED OR WALL MOUNTED; HEIGHT AS REQD.
REX	REQUEST TO EXIT CONTROL MOUNTING HEIGHT AS REQD.
AP X	WIRELESS ACCESS POINTS; X DENOTES ACCESS POINT #; (FURNISH CEILING MOUNTED ENCLOSURE EQUAL TO LEGRAND # WAPENCL-24-24-4)
ARC	AREA OF RESCUE CALL
	TELEPHONE BOARD
J J	SPECIAL SYSTEM SUPPORT SYSTEM (J-HOOKS) FURNISH SIZE AS NOTED ON PLANS
#D,#V	DATA OR TELEPHONE OUTLET. WALL MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
C #D,#V,	DATA OR TELEPHONE OUTLET. C=CEILING MOUNTED,F=FLOOR, P=POKE THROUGH-BOX MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
2D	COMMUNICATION FLOOR OUTLET; FURNISH WITH QTY(2) DATA DROPS AS FOLLOWS: ONE DATA DROP TO BE USED FOR 911 AND ONE DATA DROP TO BE USED FOR LRGV-DC STAFF. USE "RED"DATA JACKS FOR 911; ALL OTHERS SHALL BE "BLUE"
ADO	AUTOMATIC DOOR OPERATOR (MOUNTING HEIGHT AS REQD.)
AV RACK	AUDIO/VIDEO CONFERANCE TRAINING RACK
F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER. MTD: 80" AFF
	FIRE ALARM SPRINKLER FLOW SWITCH -
	FIRE ALARM SPRINKLER TAMPER SWITCH -
S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED 80" AFF
H	HEAT DETECTOR CEILING OR WALL MOUNTED -
D	DUCT SMOKE DETECTOR MTD: AS REQD.
FACP	FIRE ALARM CONTROL PANEL MTD: AS REQD.
FAAP	FIRE ALARM ANNUNCIATOR PANEL MTD: AS REQD.
FAEP	FIRE ALARM EXTENDING PANEL MTD: AS REQD.

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. FURNISH AND INSTALL DATA DROPS FOR POE SURVEILLANCE CAMERAS. REFER TO DETAILS FOR MOUNTING REQUIREMENTS. MOUNTING HEIGHT SHALL BE COORDINATED WITH OWNER PRIOR TO THE INSTALLATION OF THE ROUGH-IN INFRASTRUCTURE AND DATA CABLING.
2. FURNISH DATA DROP FOR TV MONITOR.
3. FURNISH DATA FOR EMPLOYEE TIME CLOCK SYSTEM.
4. FURNISH AND INSTALL 3 DATA DROPS WITHIN FLOOR BOXES.
5. FURNISH AND INSTALL DATA DROP FOR VIDEO PROJECTOR.
6. REFER TO SHEET E-2.0 DETAIL #8 FOR ELEVATOR INFORMATION.

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06-05-2019

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
Drawing Date:	06-05-2019
Drawn:	K.A.
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Scale:	
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Revisions:

Sheet Title:

TELECOM., ELECTRONIC SAFETY & SECURITY

TESS-1.0

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1 TELCOMMUNICATION, ELECTRONIC SAFETY & SECURITY PLAN - 1ST FLOOR
SCALE: 1/8" = 1'-0"

DOOR STATUS CONTACT, POWER HINGE AND DOOR ELECTRIC LOCK SCHEDULE

ID#	DOOR DESCRIPTION	VOLTAGE	DOOR CONTACT	POWER TRANFER HINGE & ELECTRIFIED LOCK	MTRNG. SWITCH
DC	CORRIDOR	24 VOLTS	SECURITRON#MSS-1	REFER TO DOOR HARDWARE SPEC.	101.1

J-HOOK FILL TABLE

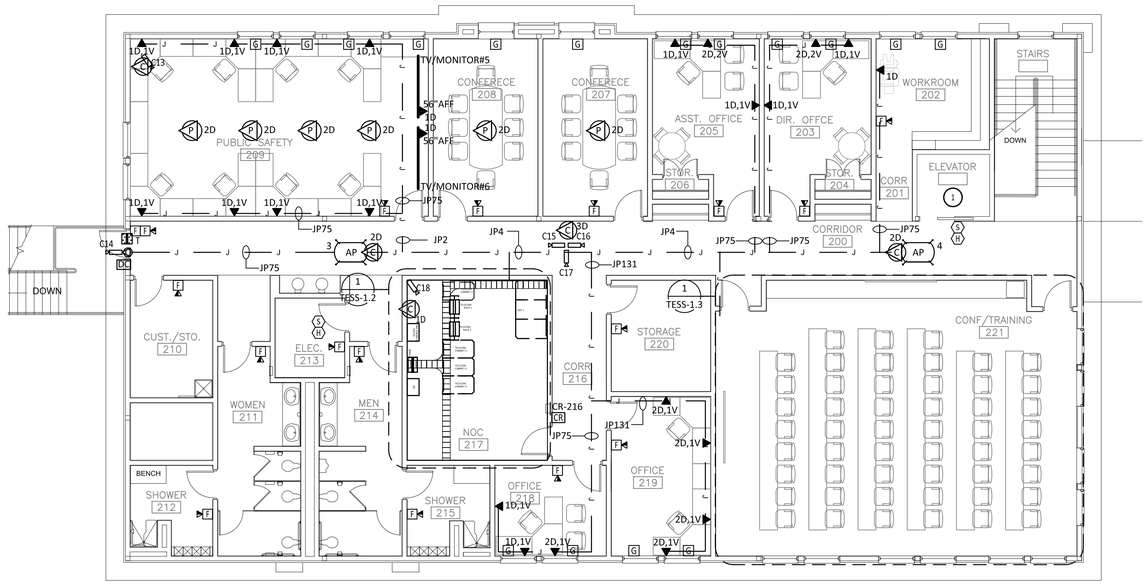
PANDUIT TRADE SIZE	.75" (JP75)	1.31" (JP131)	2"(JP2)	4"(JP4)
0.225 " OD CABLES***	8	25	46	180
0.3 " OD CABLES	5	15	30	115

NOTES:
1. CONDUIT FILL CALCULATIONS ARE BASED ON PANDUIT J-PRO.
VERIFY FILL RATES WITH ACTUAL HOOKS USED AND BY
MANUFACTURER CABLE DIMENSIONS AND UL LISTED FIRE STOP ASSEMBLIES.
2. ALL J-HOOKS ALONG CORRIDORS SHALL BE WALL MOUNTED WITH BRACKETS
3. ALL J-HOOKS WITHIN ROOMS SHALL BE INSTALLED WITH HAMMER-ON BEAM CLAMPS
4. FURNISH WITH LOOP CABLE TIES (MAROON) # HLP5S-X12
5. USE CABLE BUNDLE ORGANIZING TOOL TO ARRANGE CABLES
6. MAXIMUM SPACING BETWEEN J-HOOKS (4' TO 5')
7. MINIMUM BEND RADIUS (4X CABLE DIAMETER)
*** IDENTIFIES CABLE USED FOR BASIS OF DESIGN (CATEGORY 6)

CONDUIT FILL TABLE

TRADE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
0.225 " OD CABLES***	4	6	11	14	24	41	62	81	104
0.26 " OD CABLES	3	5	8	11	18	31	47	61	78
0.5" OD CABLES	0	1	2	3	5	8	13	16	21
1" OD CABLES	0	0	1	1	1	2	3	4	5

NOTES:
CONDUIT FILL CALCULATIONS ARE BASED ON EMT CONDUIT. VERIFY FILL RATES WITH ACTUAL CONDUIT USED AND BY
MANUFACTURER CABLE DIMENSIONS AND UL LISTED FIRE STOP ASSEMBLIES.
*** IDENTIFIES CABLE USED FOR BASIS OF DESIGN



SPECIAL SYSTEMS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
CR	SECURITY SYSTEM CARD READER
T	EXIT DEVICE, (ELECTRIC STRIKE, ELECTROMAGNETIC)
T	POWER TRANSFER HINGE
MC	MICROPHONE
PB	PANIC/DURESS BUTTON
KP	INTRUSION DETECTION KEYPAD
MD	MOTION DETECTION SENSOR
DC	DOOR STATUS SWITCH
G	GLASSBREAK SENSOR
ADO	AUTOMATIC DOOR OPERATOR
	CLOCKS - SINGLE OR DOUBLE FACE, IP BASED, DIGITAL CLOCKS
IDP	INTRUSION DETECTION PANEL
ACC	ACCESS CONTROL PANEL
AV	AUDIO AND VIDEO WALL WIRING DEVICE. FURNISH AND INSTALL LEGRAND EFSB4 WITH QTY.(3) 1-INCH CONDUITS WITH PULL STRINGS FROM BOX TO ACCESSIBLE ABOVE CEILING.
	CEILING MOUNTED PROJECTOR MOUNT HARDWARE, CEILING MOUNTED RECESSED AUDIO AND VIDEO DEVICES, AND CEILING MOUNTED RECESSED RECEPTACLE.
WAP X	WIRELESS ACCESS POINTS; X DENOTES ACCESS POINT ID# (FURNISH CEILING MOUNTED ENCLOSURE EQUAL TO LEGRAND # WAPENCL-24-24-4)
X DENOTES CAMERA # / X DENOTES CAMERA TYPE / X DENOTES CAMERA #	SURVEILLANCE CAMERAS (UNLESS OTHER WISE NOTED, ALL CAMERAS ARE FIXED) PTZ= (PAN-TILT-ZOOM) REFER TO MOUNTING DETAILS FOR MOUNTING HARDWARE REQUIREMENTS; FURNISH AND INSTALL 1-INCH CONDUIT WITH CATEGORY 6 CABLE FROM CAMERA MOUNTING HARDWARE TO TELECOM/MDF RM. CONDUIT STUB OUT SHALL BE ABOVE TELECOMMUNICATION LADDER RUNWAY.
S	INTRUSION DETECTION SIREN
MPFB	MULTIPURPOSE WIRING DEVICE FLOOR BOX; RECEPTACLES, DATA, AUDIO/VIDEO. FLOOR BOX AND RECEPTACLE TO BE FURNISH AND INSTALLED BY ELECTRICAL CONTRACTOR. DATA, AUDIO/VIDEO TO BE FURNISHED AND INSTALLED BY TELECOMMUNICATION CONTRACTOR.
FB	MULTIPURPOSE WIRING DEVICE FLOOR POKE THROUGH BOX; RECEPTACLES, DATA, AUDIO/VIDEO. FLOOR BOX AND RECEPTACLE TO BE FURNISH AND INSTALLED BY ELECTRICAL CONTRACTOR. DATA, AUDIO/VIDEO TO BE FURNISHED AND INSTALLED BY TELECOMMUNICATION CONTRACTOR.
DH	MAGNETIC DOOR HOLDER, FLOOR MOUNTED OR WALL MOUNTED; HEIGHT AS REQD.
REX	REQUEST TO EXIT CONTROL — MOUNTING HEIGHT AS REQD.
AP X	WIRELESS ACCESS POINTS; X DENOTES ACCESS POINT #; (FURNISH CEILING MOUNTED ENCLOSURE EQUAL TO LEGRAND # WAPENCL-24-24-4)
ARC	AREA OF RESCUE CALL
	TELEPHONE BOARD
J J	SPECIAL SYSTEM SUPPORT SYSTEM (J-HOOKS) FURNISH SIZE AS NOTED ON PLANS
#D,#V	DATA OR TELEPHONE OUTLET. WALL MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
C #D,#V,	DATA OR TELEPHONE OUTLET. C=CEILING MOUNTED,F=FLOOR, P=POKE THROUGH-BOX MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
2D	COMMUNICATION FLOOR OUTLET; FURNISH WITH QTY(2) DATA DROPS AS FOLLOWS: ONE DATA DROP TO BE USED FOR 911 AND ONE DATA DROP TO BE USED FOR LRGV-DC STAFF. USE "RED"DATA JACKS FOR 911; ALL OTHERS SHALL BE "BLUE"
ADO	AUTOMATIC DOOR OPERATOR (MOUNTING HEIGHT AS REQD.)
AV RACK	AUDIO/VIDEO CONFERANCE TRAINING RACK
F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER. — MTD: 80" AFF
FS	FIRE ALARM SPRINKLER FLOW SWITCH — -
TS	FIRE ALARM SPRINKLER TAMPER SWITCH — -
S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED — 80" AFF
H	HEAT DETECTOR CEILING OR WALL MOUNTED — -
D	DUCT SMOKE DETECTOR — MTD: AS REQD.
FACP	FIRE ALARM CONTROL PANEL — MTD: AS REQD.
FAAP	FIRE ALARM ANNUNCIATOR PANEL — MTD: AS REQD.
FAEP	FIRE ALARM EXTENDING PANEL — MTD: AS REQD.

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. FURNISH AND INSTALL J-HOOKS AND DATA CABLING THROUGH 1ST FLOOR'S PLENUM SPACE TO SERVE POKE THROUGH BOXES ON THE SECOND FLOOR.

KEY NOTES: (#)

1. REFER TO SHEET E-2.0 DETAIL #8 FOR ELEVATOR INFORMATION.

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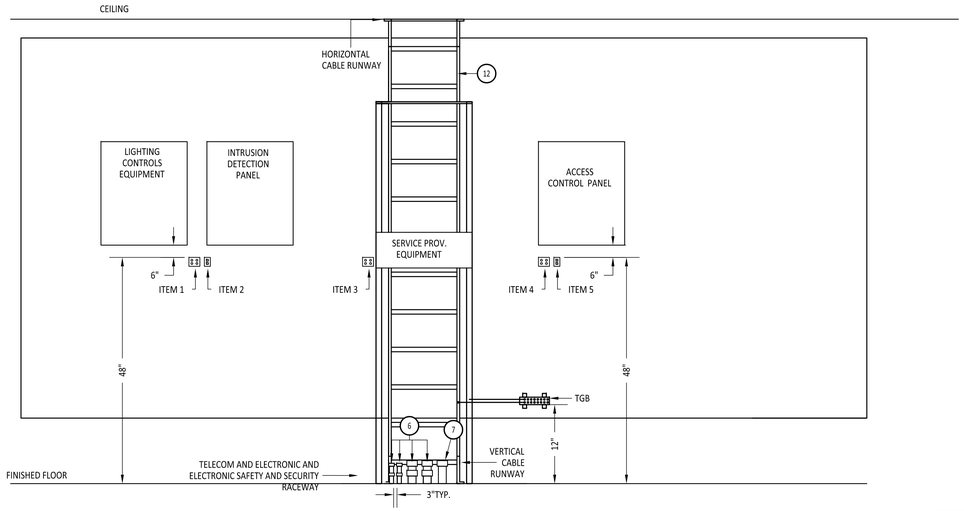
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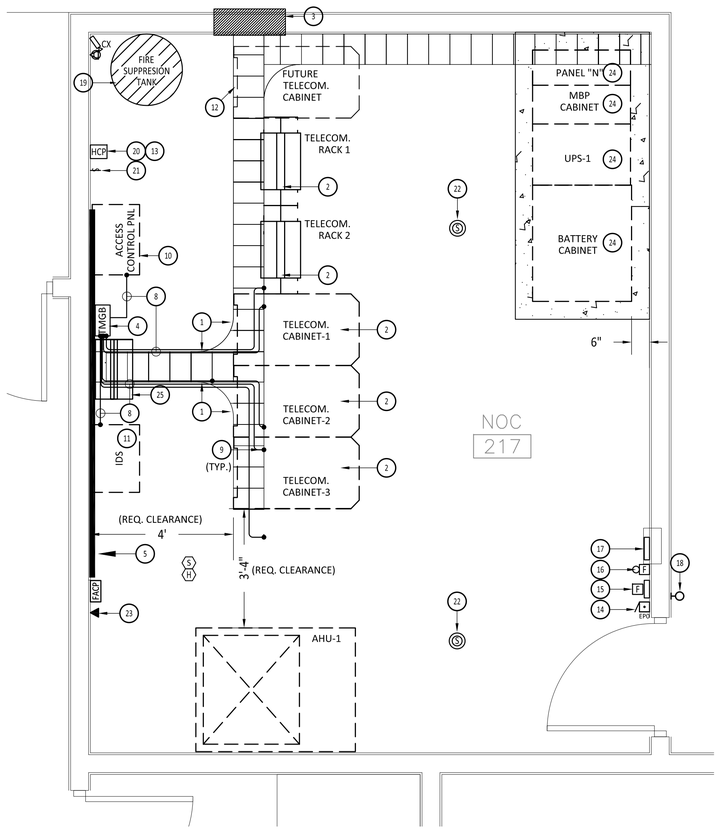
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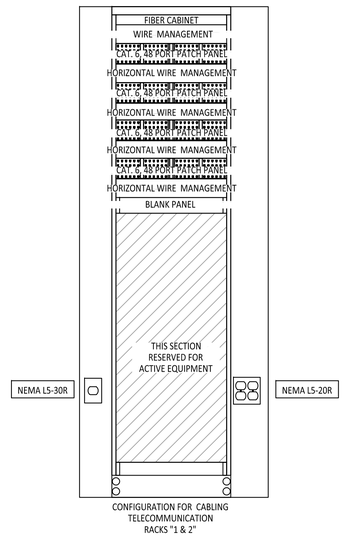
TELECOM., ELECTRONIC SAFETY & SECURITY

TESS-1.1

1 TELECOMMUNICATION, ELECTRONIC SAFETY & SECURITY PLAN - 2ND FLOOR
SCALE:1/8" = 1'-0"







CONFIGURATION FOR CABLING TELECOMMUNICATION RACKS "1 & 2"

TELECOMMUNICATION EQUIPMENT IDENTIFICATION				
ROW	RACK/ CABINET	UNIT SPACE NO. (1-42)	PORT (1-48)	NO.
1	2	1	48	

EXAMPLE: R-A-1-1-48

1 TELCOMMUNICATION, A/V, ELECTRONIC SAFETY & SECURITY PLAN ENLARGEMENT - NOC 217

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. REFER TO DETAIL SHEETS FOR PROJECTORS, PROJECTOR SCREEN, PROJECTOR MOUNTING HARDWARE, AUDIO/VIDEO EQUIPMENT, MULTIMEDIA CONTROLLERS AND OTHER SPECIAL SYSTEM EQUIPMENT.

KEY NOTES: (T)

1. FURNISH AND INSTALL 12" UNIVERSAL CABLE RUNWAY WITH THE FOLLOWING PRODUCTS:
   - A. 12" W 9'-11.5" L UNIVERSAL CABLE RUNWAYS
   - B. 12" CABLE RUNWAY E-BENDS
   - C. THREADED CEILING KITS
   - D. 12" OUTSIDE RADIUS BEND
   - E. 11" CROSS MEMBER RADIUS DROP (FURNISH AT EVERY DROP FROM THE CABLE RUNWAY TO THE RACKS AND CABINETS).
   - F. BUTT-SPLICE KITS
   - G. FLOOR KIT
   - H. WALL TRIANGLE SUPPORT BRACKETS.
   - I. CABLE MANAGEMENT RINGS (USE FOR ALL FIBER AND COPPER CABLING INSTALLED ALONG THE PLYWOOD WALL.
2. OWNER FURNISH & CONTRACTOR INSTALLED RACKS AND CABINETS.
3. QTY (3) EZD44+ FIRE STOP-EASY PATH. SECURE WALL PLATES TO DEVICES PER EQUIPMENT MANUFATURER RECOMMENDATIONS. MOUNT EZ PATH SYSTEM TO ALLOW EASY TRANSITION FROM THE NOC ROOM TO THE CORRIDOR.
4. APPROXIMATE LOCATION OF TELECOMMUNICATIONS MAIN GROUNDING BUS BAR.FURNISH AND INSTALL TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) FOR BONDING OF ELECTRONIC SAFETY AND SECURITY CABLING. ROUTE 1#4AWG CABLE FROM TGB TO THE MAIN ELECTRICAL GROUNDING TELECOMMUNICATIONS BAR. FURNISH ALL BONDING CONDUCTORS WITH IRRIVERSIBLE COMPRESSION CONNECTORS; TEST TO EQUAL TO OR LESS THAN .1 OHMS.
5. FURNISH AND INSTALL 8'H X 4'W X 3/4"T VERTICALLY HUNG, GRADE AC, PLYWOOD IN NOC ROOM AS INDICATED ON PLANS. PAINT PLYWOOD WITH TWO COATS OF FIRE RETARDANT TO MATCH EXISTING WALL FINISH. COORDINATE WITH ARCHITECT, PRIME CONTRACTOR, AND OWNER FOR INSTALLATION OF BACKBOARD. REFER TO DRAWINGS FOR PROPOSED LOCATION AND DETAILS.
6. FURNISH AND INSTALL RIGID METALLIC CONDUITS WITH 90 DEGREE BENT RADIUS EQUAL TO 20 TIMES THE OPTICAL FIBER AND COPPER BACKBONE CABLE'S OUTSIDE DIAMETER . STUB-OUT CONDUITS 12-INCHES ABOVE CABLE RUNWAY. CONDUIT SHALL BE BLUE COLOR. REFER TO TELECOMMUNICATIONS FIBER, COPPER, MULTIMEDIA CABLING AND CONDUIT SCHEDULE FOR REQUIREMENTS.
7. CONDUITS FOR GROUNDING AND BONDING. FURNISH RIGID METALLIC CONDUITS. CONDUITS SHALL BE GREEN. FURNISH AND INSTALL QTY.(4) SPARE PULL-STRINGS AT EACH CONDUIT.
8. FURNISH AND INSTALL #6 AWG TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR.
9. FURNISH AND INSTALL IRREVERSIBLE COMPRESSION CONNECTION BONDING TO ALL ELECTRONIC SAFETY AND SECURITY EQUIPMENT, TELECOM RACKS/CABINETS AND CABLE RUNWAY.
10. ACCESS CONTROL PANEL EQUAL TO HIRSCH#M8N
11. INTRUSION DETECTION PANEL EQUAL TO VISTA# V128FBP-9.
12. FURNISH AND INSTALL VERTICAL RUNWAY ALONG THE WALL UP TO HORIZONTAL RUNWAY.
13. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL NOVEC-1230 CLEAN AGENT FIRE SUPPRESSION SYSTEM. INSTALL PER MANUFACTURER RECOMMENDATIONS. FURNISH POWER TO AGENT RELEASE PANEL . REFER TO SHEET E-1.2 FOR CIRCUIT DESIGNATION.
14. APPROXIMATE LOCATION OF EMERGENCY POWER OFF SWITCH (E.P.O). MAKE FINAL CONNECTIONS TO UPS EQUIPMENT AS REQUIRED TO POWER OFF IN AN EVENT OF AN EMERGENCY.
15. APPROXIMATE LOCATION OF NOVEC 1230 CLEAN AGENT MANUAL PULL STATION. FURNISH AND INSTALL WITH DUAL ACTION INTERLOCK DEVICE.
16. APPROXIMATE LOCATION OF NOVEC 1230 ALARM BELL.
17. APPROXIMATE LOCATION OF CLEAN AGENT CAUTION AND ADVISORY SIGN.
18. FURNISH AND INSTALL FLASHING LIGHT AND SIGN ABOVE AND PERPENDICULAR TO THE DOOR. LIGHT SHALL INDICAT DISCHARGED OF AGENT TO PREVENT PERSONNEL FROM ENTERING THE ROOM.
19. APPROXIMATE LOCATION OF AGENT STORAGE CONTAINER. FURNISH AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
20. CLEAN AGENT RELEASE PANEL-NOVEC 1230. CONTRACTOR SHALL INCLUDE IN HIS BID MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL A COMPLETE NOVEC-1230 SYSTEM. INSTALL PER MANUFACTURER RECOMMENDATIONS.
21. APPROXIMATE LOCATION OF CELAN AGENT ABORT SWITCH.
22. APPROXIMATE LOCATION OF CLEAN AGENT DISPENSING VALVES. FURNISH AND INSTALL PER MANUFACTURING RECOMMENDATIONS; CONTRACTOR SHALL INCLUDE IN HIS BID VALVES, PIPING AND ALL NECESSARY EQUIPMENT TO PROVIDE A FULL FUNCTIONING SYSTEM.
23. FURNISH AND INSTALL QTY.(2) TELEPHONE (POTS) FOR FIRE ALARM CONTROL PANEL.
24. UPS SYSTEM SHALL BE EQUAL TO SCHNEIDER ELECTRIC GALAXY-VS SOLUTION WITH MAINTENANCE BY PASS (MBP) STATIC SWITCH, BATTERY CABINET, BATTERIES (RUN TIME: 30 MIN) AND DISTRIBUTION ELECTRICAL PANEL "N".
25. FURNISH AND INSTALL PANDUIT 2 POST 19" 45RU RACK (P2R)

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LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

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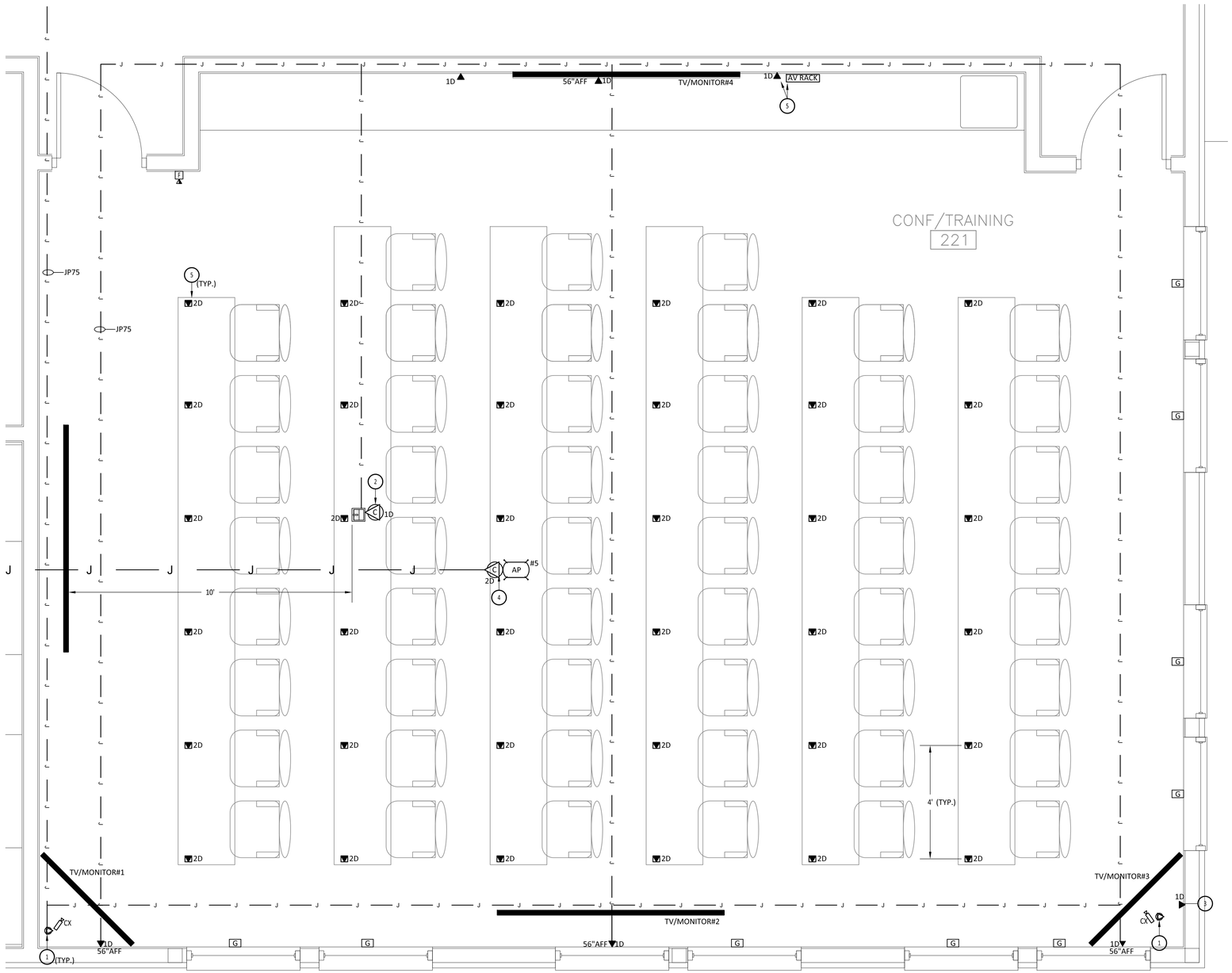
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TESS-1.2



GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. REFER TO DETAIL SHEETS FOR PROJECTORS, PROJECTOR SCREEN, PROJECTOR MOUNTING HARDWARE, AUDIO/VIDEO EQUIPMENT, MULTIMEDIA CONTROLLERS AND OTHER SPECIAL SYSTEM EQUIPMENT.

KEY NOTES:

1. FURNISH AND INSTALL DATA DROP FOR POE SURVEILLANCE CAMERAS. REFER TO DETAILS FOR MOUNTING REQUIREMENTS. MOUNTING HEIGHT SHALL BE COORDINATED WITH OWNER PRIOR TO THE INSTALLATION OF THE ROUGH-IN INFRASTRUCTURE AND DATA CABLING.
2. FURNISH AND INSTALL DATA DROP FOR VIDEO PROJECTOR; REFER TO DETAILS FOR PROJECTION SCREEN EQUIPMENT REQUIREMENTS.
3. FURNISH DATA DROP FOR EMPLOYEE TIME CLOCK SYSTEM.
4. FURNISH AND INSTALL QTY.(2) DATA DROPS FOR WIRELESS ACCESS POINTS.
5. FURNISH AND INSTALL DATA DROP FOR AUDIO/VIDEO (A/V) RACK; MOUNT AV RACK AND EQUIPMENT WITHIN MILLWORK; REFER TO DETAILS FOR EQUIPMENT REQUIREMENTS.

1 TELCOMMUNICATION, A/V, ELECTRONIC SAFETY & SECURITY PLAN ENLARGEMENT - CONFERENCE/TRAINING ROOM
SCALE: 1/2" = 1'-0"

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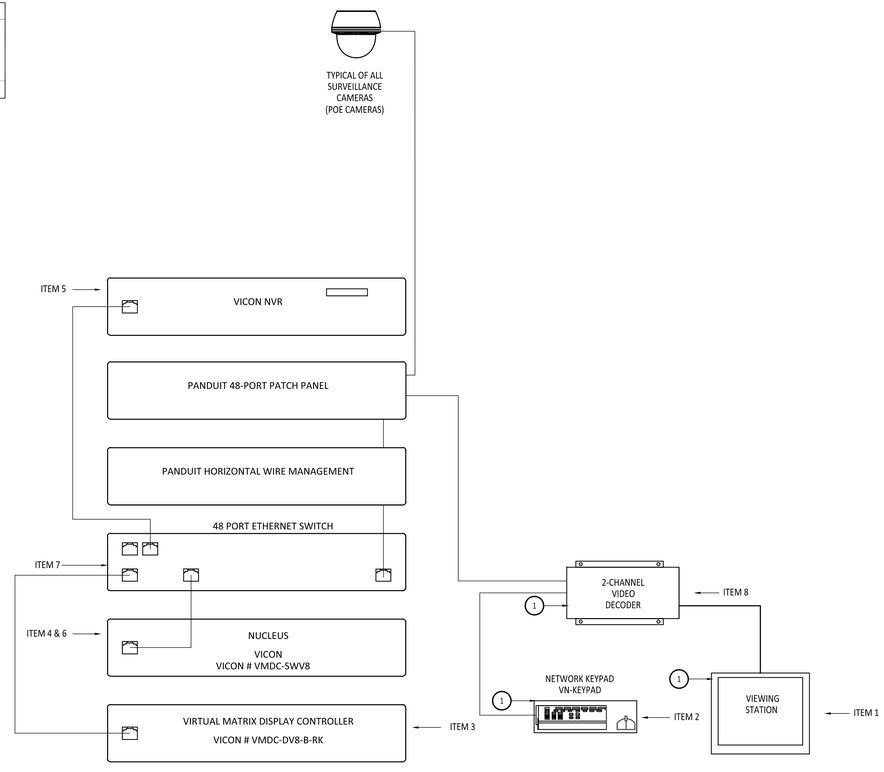
CAMERA SURVEILLANCE RACK EQUIPMENT

ITEM ID#	MANUFACTURER	MODEL #	DESCRIPTION	QUANTITY
1	VIEWSONIC	CDE5500-L	55-INCH VIEW SONIC MONITOR	1
2	VICON	VN-KEYPAD	KEYBOARD AND MOUSE	1
3	VICON	VMDC-DV8-B-RK	VIRTUAL MATRIX DISPLAY CONTROLLER	1
4	VICON	VMDC-SWV8	SOFTWARE LICENSE	1
5	VICON	VNR-38TBV6-R5	RACK MOUNTED NETWORK VIDEO RECORDER PRELOADED WITH VICONNET VERSION 6 WITH INTERNAL RAID 5	1
6	VICON	VN-NUC-SYSTEM-R	NUCLEUS ENTERPRISE SYSTEM MANAGEMENT SERVER, PC WITH PRELOADED, VICON NET V6 SOFTWARE, SINGLE LICENSE, RACK MOUNT	1
7	CISCO	WS-C3850-48P-S	CISCO CATALYST 3850 48 PORT POE IP BASE	1
8	VICON	VN-DECODER-2A	2-CHANNEL VIDEO DECODER	1

SURVEILLANCE CAMERA-ETHERNET POE SWITCH

MODEL #	DESCRIPTION
WS-C3850-48P-S	CISCO CATALYST 3850 48 PORT POE IP BASE
CAB-SPWR-30CM	CATALYST 3750X STACK POWER CABLE 30 CM
PWR-C1-715WAC	715W AC CONFIG 1 POWER SUPPLY
S3850UK9-32-0SE	CAT3850 UNIVERSAL
STACK-T1-50CM	50CM TYPE 1 STACKING CABLE
C3850-NM-2-10G	CISCO CATALYST 3850 2 X 10GE NETWORK MODULE
CAB-TA-NA	NORTH AMERICA AC TYPE A POWER CABLE
CON-SNT-WSC388PS	SMARTNET 8X5XNBD CISCO CATALYST 3850 48 PORT POE IP BASE
GLC-SX-MMD=	1000BASE-SX SFP MODULE

TELECOMMUNICATION EQUIPMENT IDENTIFICATION			
ROW	RACK/ CABINET	UNIT SPACE NO. (1-42)	PORT NO. (1-48)
6	1	1	48



1 SURVEILLANCE CAMERA SYSTEM EQUIPMENT RACK SCHEDULE
SCALE: N.T.S.

SURVEILLANCE CAMERA SCHEDULE

CAMERA ID	MANUFACTURER	MODEL	SENSOR SIZE	INSTALLATION HEIGHT	FOCAL LENGTH	ASPECT RATIO	RESOLUTION
C1	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C2	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C3	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C4	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C5	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C6	VICON	IQM55NR-B5	1/3 "	WALL, 12-FEET	3.0	4:03	2560x1920 (5 MP)
C7	VICON	IQM55NR-B5	2.8 CMOS	UNDER CANOPY	4.3	-	1080P
C8	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C9	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C10	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C11	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C12	VICON	IQM55NR-B5	1/3 "	CEILING	4.4	4:03	2560x1920 (5 MP)
C13	VICON	V-CELL-HD	-	WALL	2.6	4:03	1080P
C14	VICON	IQM55NR-B5	2.8 CMOS	UNDER CANOPY	4.3	-	1080P
C15	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C16	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C17	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)
C18	VICON	IQM55NR-B5	1/3 "	CEILING	4.0	4:03	2560x1920 (5 MP)

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH OWNER THE FINAL LOCATION OF ACCESS CONTROL SERVER/WORKSTATION

KEY NOTES:

1. COORDINATE WITH OWNER THE INSTALLATION LOCATION FOR THESE DEVICE; FURNISH ONE DATA DROP FOR NETWORK INTERFACE.

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LICENSED
PROFESSIONAL ENGINEER
06-05-2019

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

Project Number:	19009
Drawing Date:	06-05-2019
Drawn:	K.A.
Checked:	J.A.N.
Scale:	
ACAD File:	

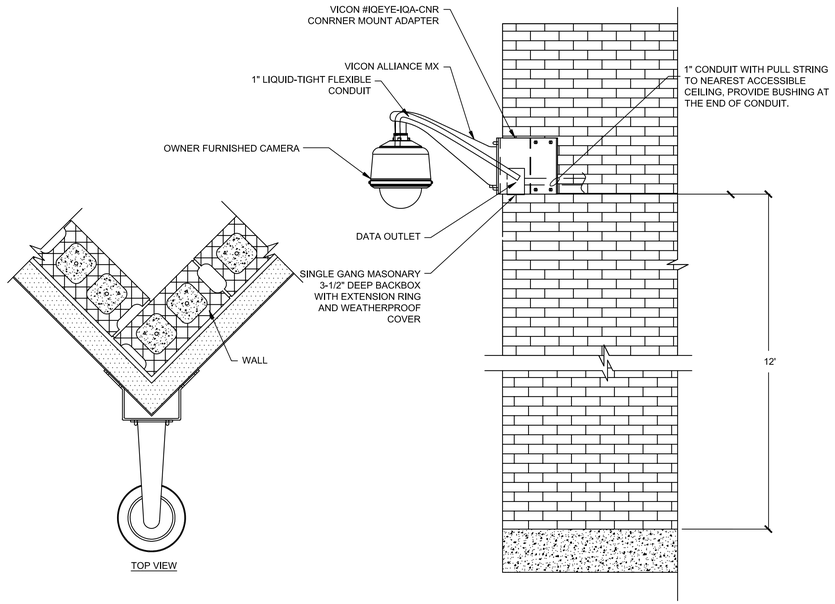
Revisions:

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Sheet Title:

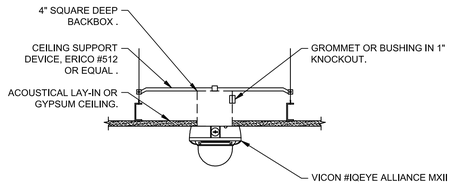
SURVEILLANCE CAMERA SYSTEM DETAIL & SCHEDULES

TESS-2.0



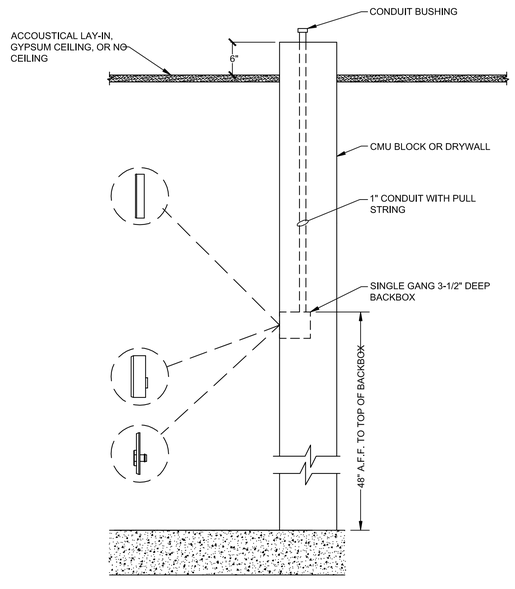
1 EXTERIOR (BRICK) CORNER CAMERA MOUNT DETAIL

SCALE:N.T.S.



2 INTERIOR CEILING CAMERA MOUNT DETAIL

SCALE:N.T.S.



3 WALL MOUNT DEVICE DTL. (CARD READER AND KEPAD)

SCALE:N.T.S.

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LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL
EST. 1967
WILLACY HIDALGO CAMERON

LRGV DEVELOPMENT COUNCIL

BUILDING D EXPANSION

WESLACO, TEXAS

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CAMERA SURVEILLANCE DETAILS

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TESS-2.1

ACCESS CONTROL EQUIPMENT SCHEDULE

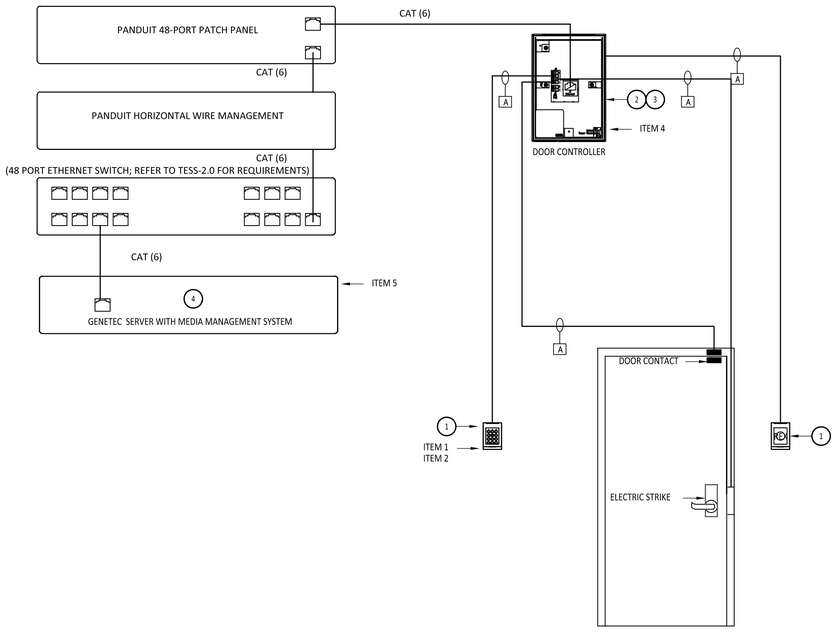
ITEM	MFGR	MODEL/DESCRIPTION
1	HID GLOBAL	HID PIV CLASS READER# RK40
2	HID GLOBAL	HID PIV CLASS READER#R40
3	HID GLOBAL	SLIM PROFILE HID PIV CLASS READER #R15
4	GENETEC	GENETEC SYNERGIS CLOUD LINK, HID VERTX V100
5	GENETEC	STREAM VAULT 1000

CARD READER SCHEDULE

ID#	CARD READER DESCRIPTION	MOUNT TYPE	MOUNTING HEIGHT
CR-101A	CORRIDOR 101	WALL	48"
CR-101B	CORRIDOR 101	WALL	48"
CR-100A	FOYER 100	WALL	48"
CR-100B	FOYER 100	WALL	48"
CR-216	NETWORK OPERATING CENTER (RM 217)	WALL	48"

CABLING SCHEDULE

ID	MFGR/DESCRIPTION
A	BELDEN ACCESS CONTROL BANANA PEEL CABLE



GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH OWNER THE FINAL LOCATION OF ACCESS CONTROL SERVER/WORKSTATION

KEY NOTES:

1. REFER TO PLANS AND DOOR READER SCHEDULE FOR CARD READER REQUIRED.
2. FURNISH AND INSTALL CABLING FROM DOOR CONTROLLER TO CARD READERS, ELECTRIC STRIKES, AND DOOR CONTACTS TO MATCH DEVICES TERMINAL COLOR CODING. REFER TO CABLING SCHEDULE FOR CABLING REQUIREMENTS.
3. FURNISH AND INSTALL INTERFACE RELAY TO FIRE ALARM CONTROL PANEL.
4. FURNISH AND INSTALL TOUCH-LESS REQUEST TO EXIT BUTTON.
5. FURNISH VIDEO MANAGEMENT SOFTWARE EQUAL TO GENETEC-OMNICAST FOR MANAGEMENT AND CONTROL OF VIDEO SURVEILLANCE CAMERA, ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS.

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ACCESS CONTROL DETAILS

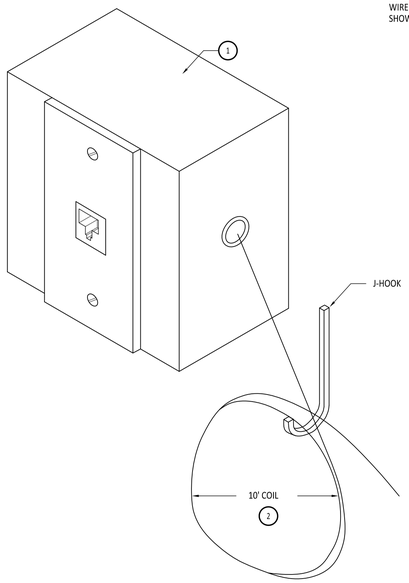
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1 ACCESS CONTROL SYSTEM DRAWING, TYPICAL DOOR DETAIL AND SCHEDULES
SCALE: N.T.S

TESS-2.2

KEYED NOTES:

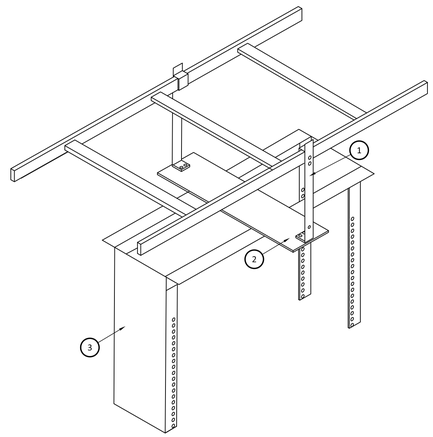
1. WIRELESS DATA OUTLETS FOR NETWORK CONNECTIVITY. MOUNT AND SUPPORT OUTLET AND CABLING IN STANDARD 4-SQ BOX.
2. CONTRACTOR TO PROVIDE 1 COILS OF 10-FEET SLACK OF UTP CABLING AND COIL UP SPACE AT WIRELESS BE TERMINATED IN A BOX AS SHOWN.



1 WIRELESS ACCESS POINT OUTLET DETAIL
SCALE: N.T.S.

KEYED NOTES:

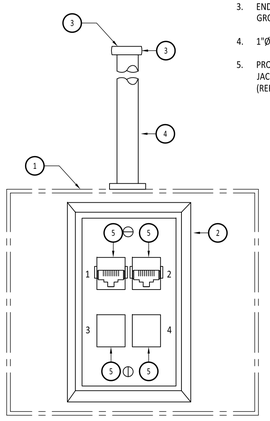
1. CABLE RUNWAY ELEVATION KIT.
2. RACK-TO-RUNWAY MOUNTING PLATE.
3. RACK AS INDICATED ON PLANS.



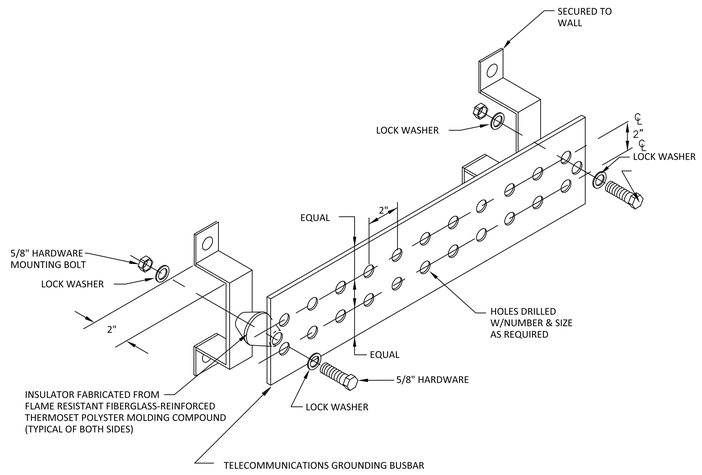
2 19-INCH-TWO POST TELECOM. RACK ELEVATION DETAIL
SCALE: N.T.S.

KEYED NOTES:

1. RECESSED DOUBLE GANG J-BOX (5"W X 5"L X 2 1/8"D) WITH 1"Ø CONDUIT, PULL STRING COMPLETE WITH AN INTERIOR WALL SINGLE GANG OR DUAL MUDRING SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. COMMUNICATION CABLING, OUTLETS, FACE PLATES AND JACKS SUPPLIED/INSTALLED BY TELECOMMUNICATIONS CONTRACTOR. COORDINATE FACE PLATE TYPE AND COLOR WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO PURCHASE.
3. END OF CONDUIT DEBURRED AND FITTED WITH PROTECTIVE GROMMET.
4. 1"Ø EMT CONDUIT C/W 200 LBS 1/4" POLYLINE PULL STRING.
5. PROVIDE 8 PIN/8 POSITION TERMINATION PANDUIT MINICOM JACKS FOR EACH CABLE(#). FILL UNUSED POSITIONS WITH BLANKS. (REFER TO PLANS FOR QUANTITY REQUIRED.)



3 TYPICAL DATA-TELEPHONE OUTLET DETAIL
SCALE: N.T.S.



4 WALL MOUNTED MTGB/TGB DETAIL
SCALE: N.T.S.

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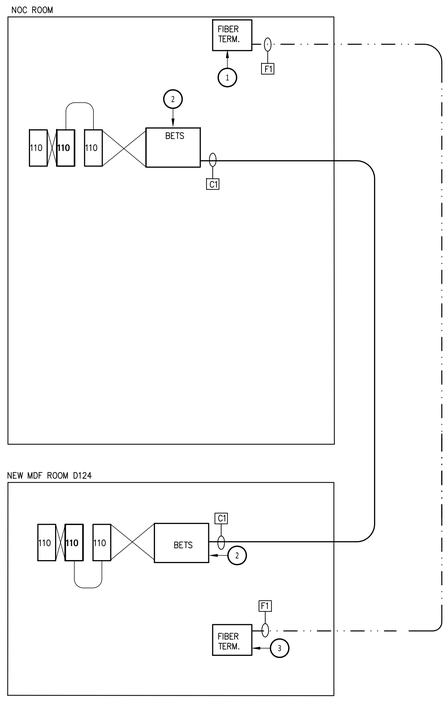
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TELCOMM. DETAILS

TESS-2.3

TELECOMMUNICATIONS FIBER, COPPER, MULTIMEDIA CABLING AND CONDUIT SCHEDULE

MARK	TYPE	FROM	TO	CABLE	CONDUIT (INCH)
F1	FIBER	NOC ROOM 217	IDF ROOM 114	12 STRAND OS1, SINGLE MODE FIBER OPTIC CABLE	4
CU1	COPPER	NOC ROOM 217	IDF ROOM 114	50 PAIR CAT6 UTP CABLE	4



GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. REFER TO DETAIL SHEETS FOR PROJECTORS, PROJECTOR SCREEN, PROJECTOR MOUNTING HARDWARE, AUDIO/VIDEO EQUIPMENT, MULTIMEDIA CONTROLLERS AND OTHER SPECIAL SYSTEM EQUIPMENT.

KEY NOTES:

1. FIBER CABINET. CONTRACTOR SHALL FURNISH AND INSTALL NEW 12-STRAND, OM3,INDOOR/OUTDOOR, LOW SMOKE ZERO HALOGEN RISER DISTRIBUTION, ARMORED OPTIC CABLE. USE DUPLEX LUCENT CONNECTORS (LC)-(LC) CONNECTORS.
2. FURNISH AND INSTALL 50-PAIR INDOOR BET-110/110-COVER AND SPLICE CHAMBER EQUAL TO CIRCA1880ECA1-50S52.
3. 12 PORT FIBER CABINET IN RACK "1". USE DUPLEX LUCENT CONNECTORS (LC). FURNISH AND INSTALL FIBER PATCH CORDS FROM THE CABINET TO THE FOLLOWING EQUIPMENT:
   A. SURVEILLANCE CAMERA SERVERS
   B. DATA/VOICE ETHERNET SWITCHES

GIGNAC | ARCHITECTS

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TELCOMM. DETAIL & SCHEDULE

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1 TELECOMMUNICATIONS BACKBONE, CONDUIT, GROUDING RISER, & SCHEDULE
SCALE: N.T.S.

TESS-2.4