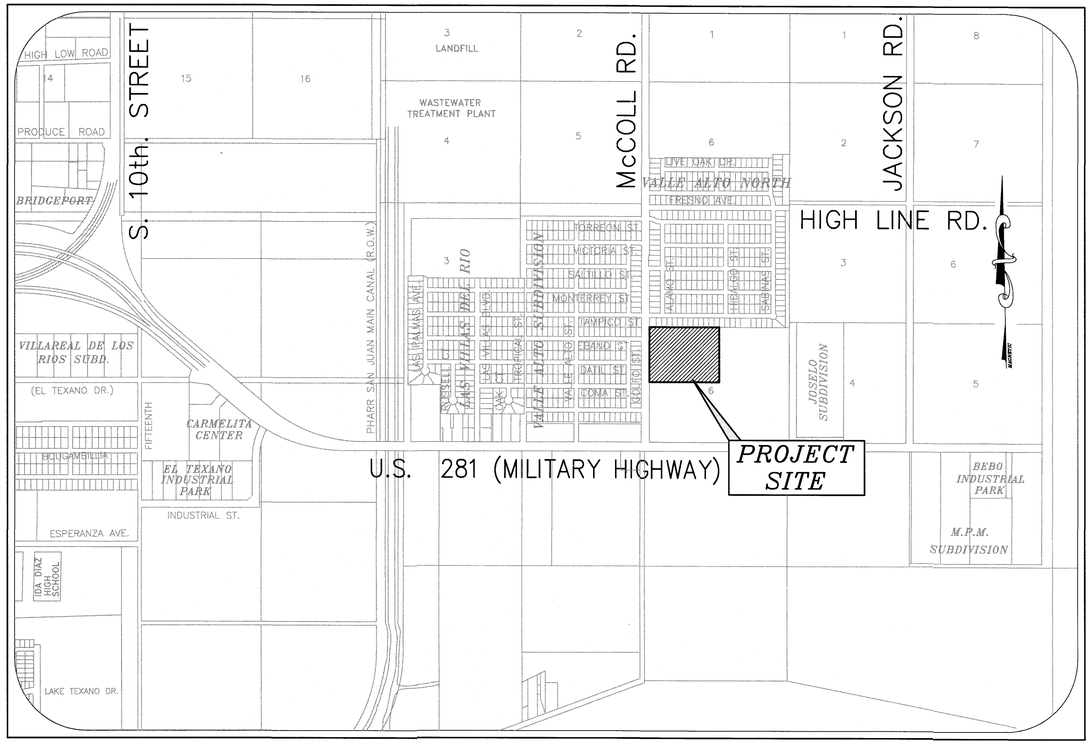
HIDALGO COUNTY URBAN COUNTY PROGRAM
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS

ACCOUNT NO. 5016-35-0306-5000-3500



LOCATION MAP (N.T.S.)

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CITY OFFICIALS

MAYOR	SERGIO CORONADO
MAYOR PRO-TEM	GUSTAVO "GUS" SANCHEZ
COUNCIL MEMBER PLACE 1	ABRAN RAMIREZ
COUNCIL MEMBER PLACE 3	RODOLFO "RUDY" FRANZ
COUNCIL MEMBER PLACE 4	LINDA AYALA
COUNCIL MEMBER PLACE 5	OZIEL TREVIÑO
CITY MANAGER	JULIAN GONZALEZ

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STATE OF TEXAS · JAVIER HINOJOSA · 74803 · REGISTERED · PROFESSIONAL ENGINEER

9/21/18

SEPTEMBER, 2018

180405

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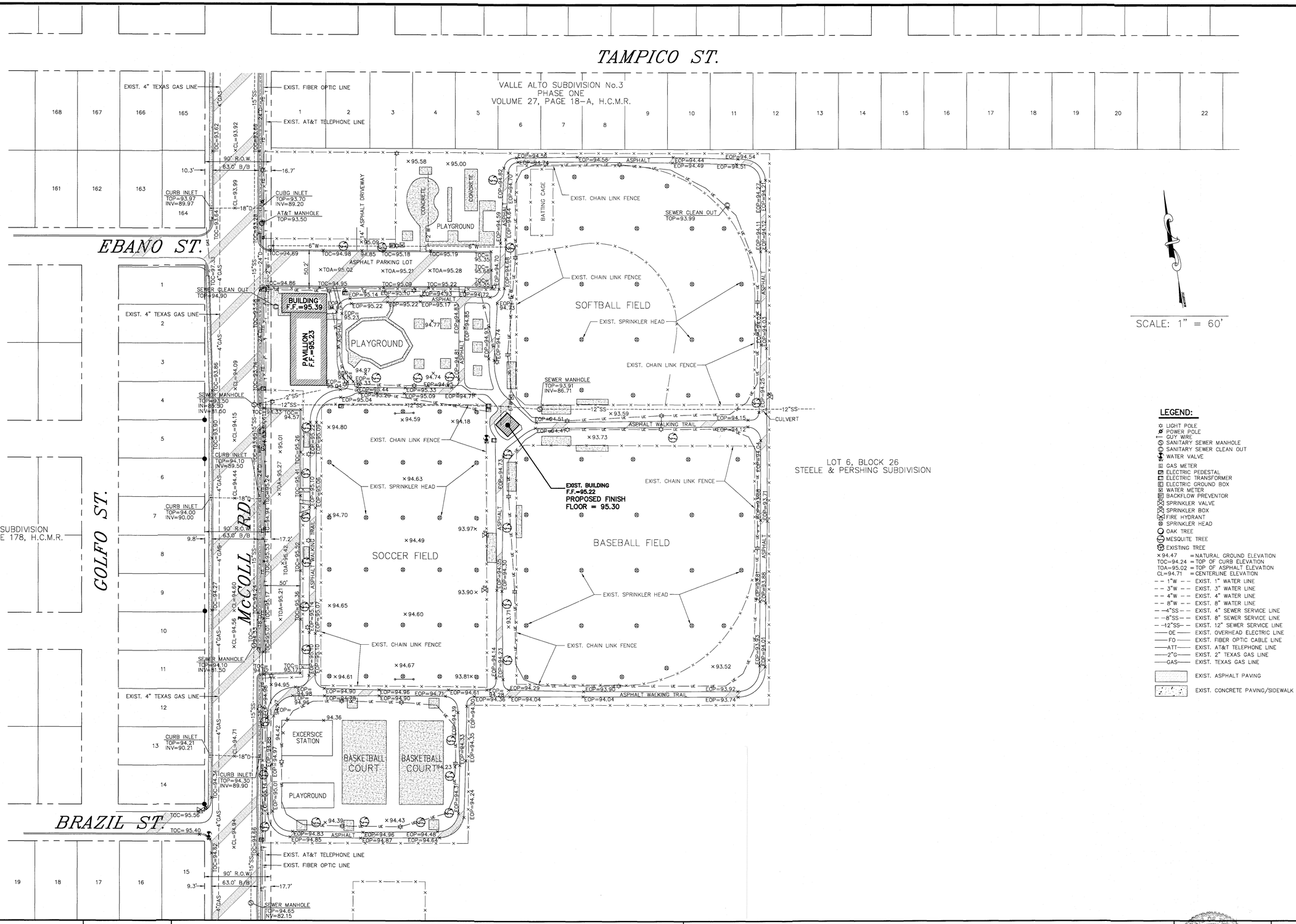

LEGEND:

- LIGHT POLE
- POWER POLE
- GUY WIRE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- WATER VALVE
- GAS METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- ELECTRIC GROUND BOX
- WATER METER
- BACKFLOW PREVENTOR
- SPRINKLER VALVE
- SPRINKLER BOX
- FIRE HYDRANT
- SPRINKLER HEAD
- OAK TREE
- MESQUITE TREE
- EXISTING TREE

× 94.47 = NATURAL GROUND ELEVATION
TOC=94.24 = TOP OF CURB ELEVATION
TOA=95.02 = TOP OF ASPHALT ELEVATION
CL=94.71 = CENTERLINE ELEVATION

- 1"W — EXIST. 1" WATER LINE
- 3"W — EXIST. 3" WATER LINE
- 4"W — EXIST. 4" WATER LINE
- 8"W — EXIST. 8" WATER LINE
- 4"SS — EXIST. 4" SEWER SERVICE LINE
- 8"SS — EXIST. 8" SEWER SERVICE LINE
- 12"SS — EXIST. 12" SEWER SERVICE LINE
- OE — EXIST. OVERHEAD ELECTRIC LINE
- FO — EXIST. FIBER OPTIC CABLE LINE
- ATT — EXIST. AT&T TELEPHONE LINE
- 2"G — EXIST. 2" TEXAS GAS LINE
- GAS — EXIST. TEXAS GAS LINE

EXIST. ASPHALT PAVING

EXIST. CONCRETE PAVING/SIDEWALK

REVISIONS		

PROJECT No.	180405
DATE:	SEPTEMBER, 2018
DRAWN BY	P.GONZALEZ
CHK. BY	J.H.

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EXISTING SITE, TOPOGRAPHICAL AND UTILITY LAYOUT
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VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

JAVIER HINOJOSA 74808 REGISTERED PROFESSIONAL ENGINEER
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SHEET
C1.1

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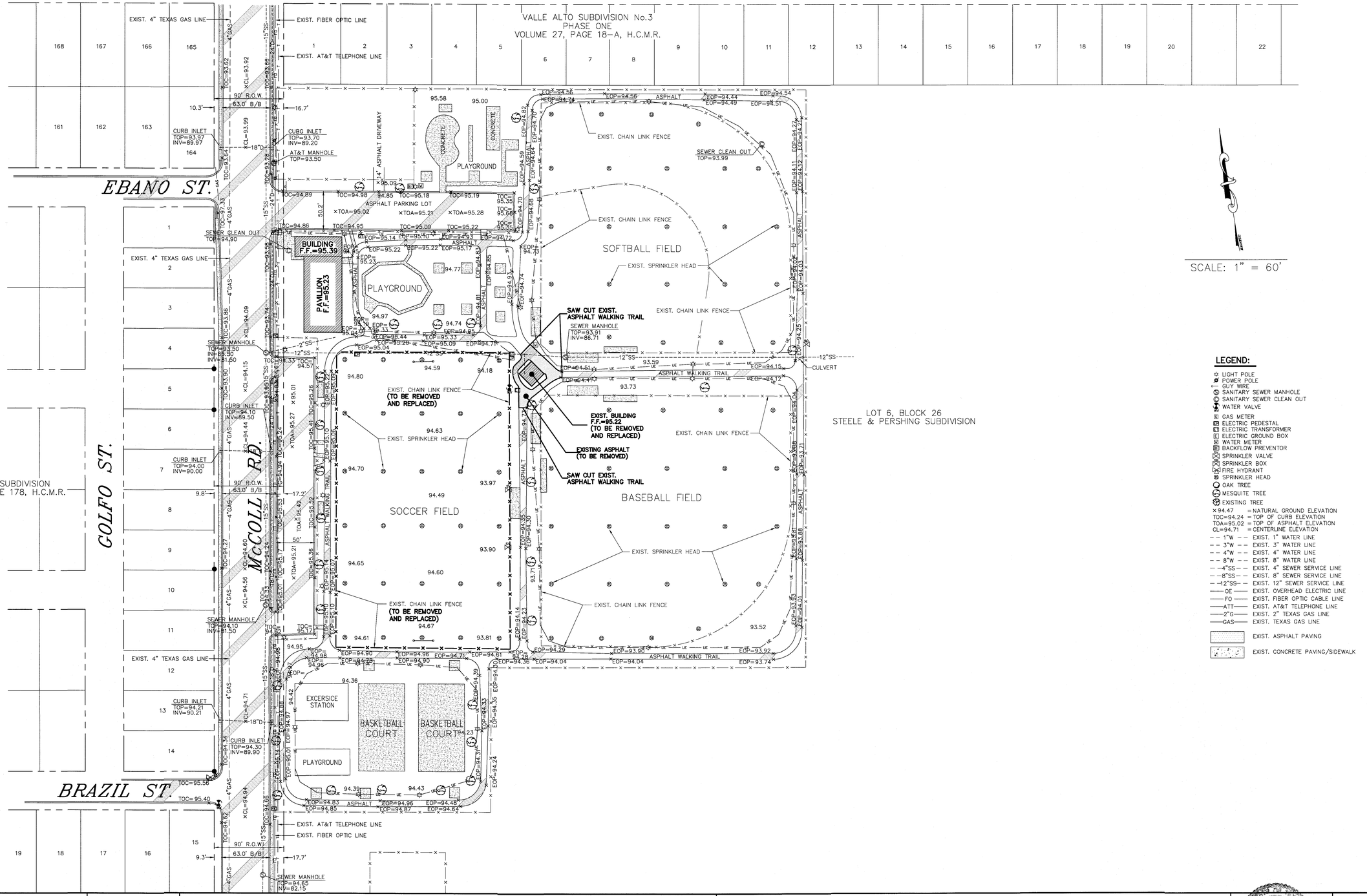

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PROPOSED DEMOLITION PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

JAVIER HINOJOSA 74808 REGISTERED PROFESSIONAL ENGINEER
9/21/18

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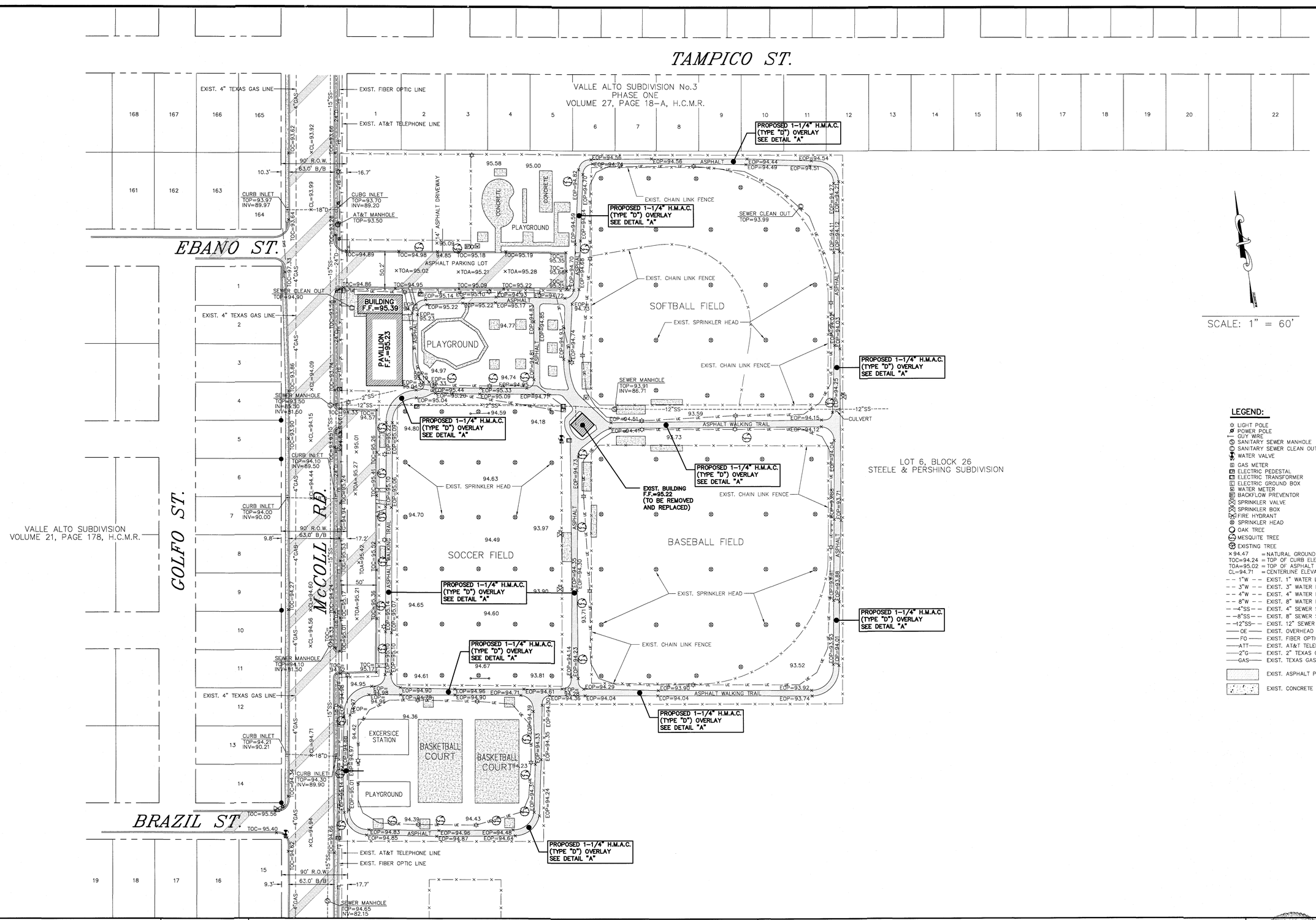

SCALE: 1" = 60'

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PROPOSED WALKING TRAIL OVERLAY
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

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SHEET
C1.3

180405

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TABLE 208.2 PARKING SPACES	
TOTAL # OF PARKING SPACES#	MIN. # OF REQ. ADA SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2% OF TOTAL
1001+	20+ 1:100 ABOVE 1000

*208.2.4 VAN PARKING SPACES: FOR EVERY 6 OR FRACTION OF SIX AT LEAST 1 SHALL BE VAN

96 MIN CAR | 132 (11') MIN | 60 MIN. WITH 11' VAN | 96 MIN. WITH 8' VAN

1 502.2 VEHICLE PARKING SPACES

60" MIN. | 36 MIN | 12 MIN | 12 MIN | 60 DIAMETER MIN

2a 304.3.2 TURNING SPACE (T-SHAPED SPACE TURNING SPACE)

48 MIN | 30 MIN | 305.3 CLEAR FLOOR OR GROUND SPACE | 48 MIN. | 30 MIN. | 30 MIN | 48 MIN | FORWARD APPROACH | PARALLEL APPROACH

2b 305.5 CLEAR FLOOR OR GROUND SPACE (POSITION OF CLEAR FLOOR OR GROUND SPACE)

X ≥ 24 | ≥ 15 | 36 MIN | 60 MIN | FORWARD APPROACH | PARALLEL APPROACH

3 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

60 MIN | 18 MIN | A

4 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (FRONT APPROACH, PULL SIDE)

X | 48 MIN | B X=0 | C X=12" MINIMUM IF BOTH CLOSER & LATCH ARE PROVIDED

5 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (FRONT APPROACH, PUSH SIDE)

48 MIN | A

6 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS (FRONT APPROACH)

60 MIN | 18 MIN | X ≥ 8 | A

7 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES (PULL SIDE)

1/4":FT MAX. | 1/4":1FT MAX.

1/4":FT MAX. SLOPE IN ANY DIRECTION TYPICAL AT H/C PARKING SPACES & ACCESS AISLE

8 PARKING LOT TYP.

*SIDE REACH ALLOWED FOR ADULTS ONLY

AGES 3-4: 20" MAX, 36" MAX
AGES 5-8: 18" MIN, 40" MAX
AGES 9-12: 16" MIN, 44" MAX
AGE 13 & UP: 15" MIN, 48" MAX
HIGH

A 308.2.1 UNOBSTRUCTED FORWARD REACH

AGES 3-4: 20" MIN
AGES 5-8: 18" MIN
AGES 9-12: 16" MIN
AGE 13 & UP: 15" MIN
LOW

AGE 12 & UNDER 48" MAX | AGE 13 & UP 48" MAX | 15 MIN | B 10" MAX | *308.3.1 UNOBSTRUCTED SIDE REACH

9 308 REACH RANGES (@ UNOBSTRUCTED REACH)

WORK SURFACES (CHILDREN) 28"-30" (ADULT) 28"-34"

KNEE CLEARANCE (CAUNDERT PARALLEL (CHILDREN) 27" MIN (ADULT) 27" MIN

20" MAX | 48" MAX | 20-25" MAX | A | B | 44" MAX

10 308.2.2 REACH RANGES (@ OBSTRUCTED HIGH FOWARD REACH)

B | 10-24" MAX | 46" MAX | 34" MAX | A | 10" MAX | 48" MAX

*308.3.2 REACH RANGES (@ OBSTRUCTED HIGH SIDE REACH)

D X=36" MINIMUM IF Y= 60" MIN
E X=42" MINIMUM IF Y=54" MIN

13 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (HINGE APPROACH, PULL SIDE)

* 22 MIN | F Y=42" MINIMUM | G Y=48" MINIMUM IF BOTH CLOSER & LATCH ARE PROVIDED | * BEYOND HINGE SIDE

14 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (HINGE APPROACH, PUSH SIDE)

42 MIN | B

15 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS (SIDE APPROACH)

X ≥ 8 | 48 MIN | B

16 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES (PUSH SIDE)

24" MAX | 24" MAX | 36 MIN | 32 MIN | 32 MIN | 36" MIN. WIDE

THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32" FOR A LENGHT OF 24" MAX. PROVIDED THAT REDUCED WITH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" MIN. LONG & 36" MIN. WIDE

17 403.5.1 ACCESSIBLE ROUTE (CLEAR WIDTH OF ACCESSIBLE ROUTE)

48 MIN | 60 MIN | 42 MIN | 42 MIN | X < 48 MIN | A 180 DEGREE TURN | 36 MIN | 36 MIN | X < 48 MIN | B 180 DEGREE TURN (EXCEPTION)

17 403.5.2 ACCESSIBLE ROUTE (CLEAR WIDTH AT TURN)

505.7.1 CIRCULAR CROSS SECTION. GRABBARS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" MIN. AND 2" MAX.

1-1/2" | 1" MIN | 505.6 HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACE | 4" | 12" MIN. EXTENSION | 34"-38" | LESS THAN 4"

2 1/4" MAX | 2 1/4" MAX | 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION (4"-6 1/4" PERIMETER) | 405.9.2 CURB OR BARRIER EDGE PROTECTION

18 505 HANDRAILS (@ RAMPS & STAIRS)

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4-1/2" MAX.

4" MAX. | LOBBY | HIGHER THAN 27" | 80" MIN. | ANY AMOUNT | CLEAR WIDTH | 27" OR BELOW

19 307 PROTRUDING OBJECTS (LIMITS OF PROTRUDING OBJECTS)

FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG CIRCULATION PATHS 12 IN MAX. WHEN LOCATED 27 IN MIN AND 80 IN MAX AFF

27"-80" | 12" MAX | 12" MAX | 27" MAX | X> 12 | X> 12 | 80" MIN.

20 307.3 POST-MOUNTED PROTRUDING OBJECTS

24 MIN

H Y=48" MINIMUM
I Y=54" MINIMUM IF BOTH CLOSER & LATCH ARE PROVIDED

21 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (LATCH APPROACH, PULL SIDE)

24 MIN

J Y=42" MINIMUM
K Y=48" MINIMUM IF BOTH CLOSER & LATCH ARE PROVIDED

22 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES (LATCH APPROACH, PUSH SIDE)

22 MIN | 42" MIN | C POCKET OR HINGE APPROACH | 42 MIN | 24 MIN | D STOP OR LATCH APPROACH

23 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

12 MIN | X ≥ 8 | 48 MIN | C

24 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES (PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH)

505.4. ADD SECOND SET OF HANDRAILS WHEN CHILDREN ARE PRINCIPAL USERS

RETURN ALL GRAB BARS TO WALL OR FLOOR

1-1/2" | 12" MIN | 12" | 505.10.3 BOTTOM EXTENSION, EQUAL TO ONE TREAD | 34"-38" TOP OF GRAB BAR | 9" MIN | 12" MIN | 34"-38" TOP OF GRAB BAR | 12" MAX TOP OF HANDRAIL ABOVE FINISH FLOOR ADD. @ LEVEL LANDINGS | 12" MIN | 1-1/2" | 12" MIN | EXTENSION REQUIRED AT FLOOR ONLY

25 505.4 HANDRAIL HEIGHT (@ RAMPS & STAIRS)

FRAMELESS MIRROR W/ 277 & 288 K & V HANGER T. & B.

FRONT EDGE TO FAUCET AGES (4-11)-18" MAX AGES (11-15)-20" MAX. AGES (ADULTS)-24" MAX. | ADA LAV | BOTTOM OF REFLECTIVE SURFACE | AGES (ADULT) 40" MAX | COUNTER HT (AGES) (6 TO 12) 31" MAX (ADULT) 34" MAX | KNEE CLEAR (AGES) (5 UNDER) PARALLEL (6 TO 12) 27" MIN (ADULT) 27" MIN | 8" MIN | 41 MIN. | 17-25 DEPTH | 8" MIN | 6" MAX TOE CLEAR | 29" MIN | 24" MIN. BOTTOM OF APRON | TOP OF REFLECTIVE SURFACE

26 606 LAVATORIES & SINKS CLEARANCES

(CHILDREN) 3-1/2" MAX (ADULTS) 5" MAX | 15 MIN | 9 MIN. | KNEE CLEAR | 8 MIN | 11 MIN MAX | 6 MIN | SPOUT HEIGHT | (CHILDREN) PARALLEL (ADULT) 27" MIN | (CHILDREN) 30 MAX (ADULT) 36 MAX (STANDING) 38-43

27 602.5 DRINKING FOUNTAIN (SPOUT LOCATION)

2 MAX | 15 MIN | 3-1/2 MAX | 48 MIN | 30 MIN | FREE-STANDING FOUNTAIN OR COOLER

28 602.5 DRINKING FOUNTAIN (SPOUT LOCATION)

DRINKING FOUNTAIN (CHILDREN'S USE WHERE SPOUT IS 30" MAX AFF)

29

48 MIN | A

30 404.2.6 DOORS IN SERIES AND GATES IN SERIES

48 MIN | B

31 404.2.6 DOORS IN SERIES AND GATES IN SERIES

48 MIN | C

32 404.2.6 DOORS IN SERIES AND GATES IN SERIES

18" MIN. | 9" MIN. | 9" MIN. | OFFICE NO. | 10" MIN. BOTTOM RAIL | 34"-48" | 43 MAX. BOTTOM OF EXPOSED GLASS | 48 MIN BASELINE OF CHARACTER | BASELINE OF FORMOST CHARACTER

404.2.7 DOOR HARDWARE
404.2.10 DOOR SURFACES
404.2.11 VISION LIGHTS
33 703 SIGNAGE MOUNTING LOCATION/HEIGHT

(CHARACTER SIZE SHALL BE AS PER T.A.S. 2012 STANDARDS | RESERVED PARKING | PROVIDE VAN ACCESSIBLE SIGN | HEIGHT SHALL MEET REQUIREMENTS ON MANUAL UNIFORM TRAFFIC CONTROL DEVICES AND T.A.S. 2012 REQUIREMENTS | 5'-0" MIN. SIGN IS NOT IN ACCESSIBLE ROUTE AND PROVIDED ON POLE MORE | WALK | CURB | PARKING SURFACE

34 502.6 IDENTIFICATION

TYPICAL AT ALL LAVATORIES PROVIDE PROTECTIVE INSULATION ON ALL EXPOSED PIPING

CLEAR FLOOR SPACE | 30" MIN | 9" | 6" MAX | A ELEV. | B PLAN | 27-25

306.2 TOE CLEARANCE

8" MIN | 27" MIN. | 11" MIN | 8" MIN | CLEAR FLOOR SPACE | 30" MIN | A ELEV. | B PLAN | 25" MAX

35 306.3 KNEE CLEARANCE

24" MAX | 36" (CLEAR) | 18" | ANCHOR OVERHEAD BRACE TO BRACE AT PARTITION | OVERHEAD BRACE AT URINALS | 13 1/2" MIN | URINAL PARTITION | ENLARGED SECTION BELOW | 1x1 ALUMINUM SQUARE TUBING FROM FINISHED FLOOR TO OVERHEAD BRACE | 24" MAX

36 605.2 URINALS PARTITIONS (PLAN VIEW)

RE: 36/G2.1 FOR MORE INFO.

OVERHEAD BRACED FOR URINAL PART. | ANCHOR TO O.H. BRACE & W.C. | BRACED URINAL PARTITION | 1x1 ALUMINUM SQUARE TUBING FROM FINISH FLOOR TO OVERHEAD BRACE | URINAL | 13 1/2" MIN | TOP OF RIM (ADULT) 17" MAX.

37 605.2 URINALS PARTITIONS (TYPICAL HEIGHTS)

54" MIN GRABBAR 42" MIN GRABBAR | 12" MAX | TOILET PAPER | 1-1/2" MIN | 9" | TOILET PAPER | 46" MAX | GRABBAR TOP (AGES) 18"-20" (5 TO 8) 20"-25" (9 TO 12) 25"-33" (ADULT) 33"-36" | DISPENSER (AGES) (3&4) 14" (5 TO 8) 17"-19" (9 TO 12) 17"-19" (ADULT) 15"-48" MIN. BELOW GRAB BAR | OUTLET OF DISPENSER

604.5.1 SIDE WALL GRAB BAR

38 604 WATER CLOSETS & TOILET COMPARTMENTS

36" MIN GRABBAR SIZE | 24 MIN GRABBAR FROM CTR. | 12" MIN | 1-1/2" MIN | FLUSH CONTROLS ON THE OPEN SIDE OF WATER CLOSET (TYP.) | 9" | TOILET PAPER | 1-1/2" MIN | TABLE 604.9 | TOILET CENTER TABLE 604.9 | 42" MIN | 56" MIN | 60" MIN | 48" MIN | 59 MIN FOR ADULT WALL HUNG W.C. | 65" MIN IF WALL ON FRONT SIDE

604.9 REAR WALL GRAB BAR

39 604.5.2 REAR WALL GRAB BAR

66" MIN. IF WALL ON SIDE | 60 MIN | TABLE 604.9 | TOILET CTR. | ALTERNATE DOOR LOCATION | 4 MAX | 4 MAX | 32 MIN CLEAR | 52" MIN | OTHER APPROACHES TO COMPLY WITH 404

NOTE: DOORS SHALL BE SELF CLOSING DOOR WITH PULL HANDLES ON BOTH SIDES OF DOOR

40 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

32"-37" WIDTH | 7-12" | 9" | 42" MIN | 42" MAX | 60 MIN | 56" MIN | 60" MIN | 32 MIN CLEAR | OTHER APPROACHES TO COMPLY WITH 404

NOTE: DOORS SHALL BE SELF CLOSING DOOR PULL ON BOTH SIDES OF DOOR

41 604.8.2 AMBULATORY ACCESSIBLE TOILET COMPARTMENT

27" MAX | ADJUSTABLE SHOWER HEAD CONTROL AREA | 1/2" MIN | CONTROL AREA | 18 MIN. CONTROLS | CTRL. AREA TOP ADULT) 48" MAX | 60 MIN. BACK (LONG) | A | 30 MIN. SIDE | B

GRABBAR TOP (AGES) 18"-20" (3&4) 20"-25" (5 TO 8) 25"-33" (9 TO 12) 33"-36" (ADULT)

42 608.2.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

6" MAX | 6" MAX | BACK | SIDE | SIDE | 30" MIN. | LAV. | 27" MAX | 60 MIN | NOTE: FLOOR SURFACE IN STALL SHALL NOT SLOPE IN EXCESS OF 1:50 IN ANY DIRECTION | C

43 608.3.2 GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWER

GRABBAR TOP (AGES) 18"-20" (3&4) 20"-25" (5 TO 8) 25"-33" (9 TO 12) 33"-36" (ADULT) | 15" MAX | 18" BAR | CONTROL WALL | 48" MAX | 36" MIN | 18" | 18" | SEAT | 22-23" | 14" MAX | 12" MAX | 15-16" | SEAT WALL | BACK WALL | 36" CLEAR | 18" BAR | 36" MIN | 48" MIN

608.5.1 CONTROL LOCATION (SIDE OPPOSITE SEAT)

608.2.1 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

44

609.2.1 CIRCULAR CROSS SECTION. GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" MINIMUM AND 2" MAXIMUM

1-1/4" MIN | 1-1/2" | 2" MAX | 609.2.2 GRAB BAR NON-CIRCULAR CROSS SECTION (4"-4.8" PERIMETER)

12" MIN | 1" MIN | 609.3 SPACING OF GRAB BARS

45 609 GRAB BARS (@ SHOWERS, TOILETS..)

WATERCLOSET CENTERLINE | *16"-18" ADULTS | 17-19" | A WHEELCHAIR ACCESSIBLE WATER CLOSET | B AMBULATORY ACCESSIBLE WATER CLOSET

*NOTE: SEE TABLE 604.9 FOR CHILDREN WATER CLOSET CENTERLINES

46 604.2 WATER CLOSET LOCATION

56" MIN | 60 MIN | 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS | 18" MIN | 56" MIN | 60 MIN | 604.3.2 EXCEPTION: OVERLAP OF WATER CLOSET CLEARANCE IN RESIDENTIAL DWELLING UNITS

47 WATER CLOSETS AND TOILET COMPARTMENTS

RECESSED FIRE EXTINGUISHERS | RECESSED PAPER TOWEL DISPENSER | B359 | RECESSED HAND DRYER (B750) | SOAP DISPENSER | COAT HOOKS | TOP OF BRACKET MOUNT | FRONT APPROACH REACH HT. AGES (3-4) 36 MAX AGES (5-8) 44 MAX AGES (9-12) 44 MAX (ADULT) 48 MAX | MAX. FROM F.F. | F.F.

NOTE:
A. IF ACCESSORY IS LOCATED ABOVE COUNTERS, REFER TO DETAIL #10B FOR ADULT HT. AND #9A FOR CHILDREN.
B. IF ACCESSORIES PROTRUDE MORE THAN 4", INSTALL BELOW 27" PER DETAIL #19/G2.1

48 ACCESSORIES MOUNTING HEIGHTS | SEE: 308 REACH RANGES

49

604.9 WATER CLOSETS & TOILET COMPARTMENTS FOR CHILDREN'S USE				ADULT
	AGES 3 & 4	AGES 5 TO 8	AGES 9 TO 12	
WATER CLOSET CENTERLINE	12"	12 TO 15"	15 TO 18"	16 TO 18"
TOILET SEAT HEIGHT	11 TO 12"	12 TO 15"	15 TO 17"	17 TO 19"
GRAB BAR HEIGHT	18 TO 20"	20 TO 25"	25 TO 27"	33 TO 36"
DISPENSER HEIGHT	14"	14 TO 17"	17 TO 19"	15 TO 48"

REGISTERED ARCHITECT EDUARDO G. VELA #4407 STATE OF TEXAS
SEP 14 2018

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REVISIONS		

180405
PROJECT No.
SEPTEMBER, 2018
DATE:
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DRAWN BY
E.G.V., AIA
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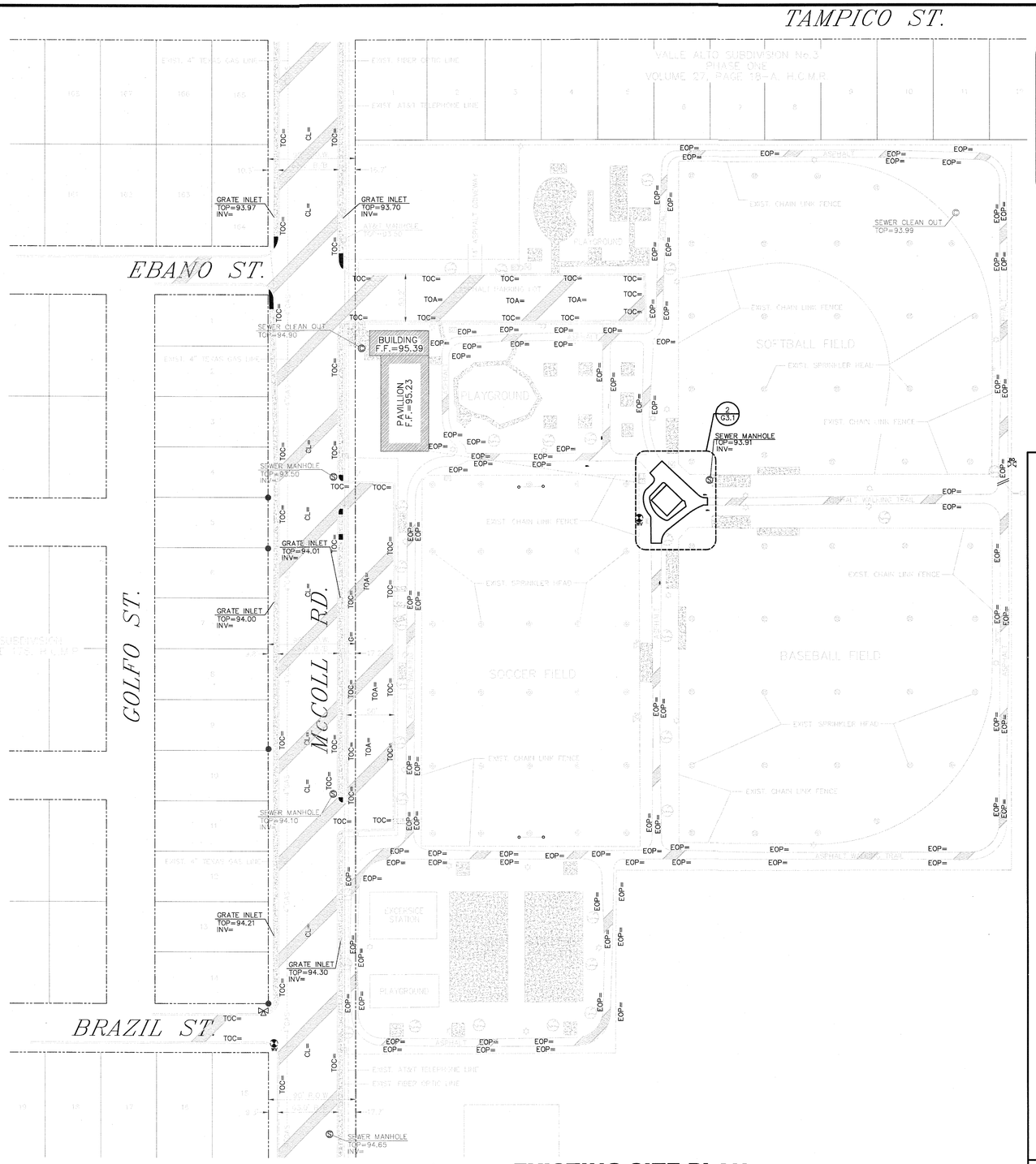
T.A.S. STANDARDS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
G2.1



N 1 **EXISTING SITE PLAN**
SCALE: 1"= 60'

LEGEND

ITEMS TO BE DEMOLISHED

LIMITS OF CONSTRUCTION (REFER TO DRAWINGS ON EACH TRADE FOR LIMITS OF WORK)

PROPOSED BLDG

1. CITY OF HIDALGO SHALL RETAIN THE RIGHT OF FIRST REFUSAL ON ALL REMOVED ITEMS, MATERIAL & EQUIPMENT. IF OWNER DOES NOT ELECT TO KEEP ANY REMOVED ITEMS, MATERIAL AND EQUIPMENT, IT SHALL THEN BECOME THE PROPERTY & RESPONSIBILITY OF THE CONTRACTOR.

2. ALL ITEMS INDICATED TO BE SALVAGED, REPOSITIONED, OR REPLACED SHALL BE CAREFULLY REMOVED, SAFELY STORED AND DELIVERED IN GOOD CONDITION TO OWNER'S MAINTENANCE STORAGE FACILITY. REPAIR ALL SUCH ITEMS IF DAMAGED OR REPLACE TO THE SATISFACTION OF THE OWNER.

3. GENERAL CONTRACTOR SHALL VISIT SITE AND GET FAMILIARIZED WITH ALL EXISTING CONDITIONS AND CONTRACT DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, QUANTITIES, ETC. CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY DISCREPANCIES OR IRREGULARITIES THAT MAY EXIST PRIOR TO SUBMITTING A BID.

4. CONTRACTOR SHALL NOTIFY THE DESIGN TEAM & THE OWNER IMMEDIATELY SHOULD UNANTICIPATED HAZARDOUS MATERIALS BE SUSPECTED OR DISCOVERED.

5. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, & ORDINANCES HAVING JURISDICTION.

6. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATION & SCHEDULING OF THE CONSTRUCTION WORK, PROVISION & CONTROL OF ALL MEANS & METHODS OF CONSTRUCTION, FIRE PREVENTION, COORDINATION, ORDERING, DELIVERY & STORAGE OF MATERIALS, REMOVAL OF DEBRIS, & ALL ASPECTS OF JOB SAFETY.

7. SWEEP DEBRIS FROM SELECTIVE DEMOLITION DAILY; NO ACCUMULATION OF TRASH AND DEBRIS MATERIALS WILL BE ALLOWED. APPROPRIATE TRASH DUMPSTERS PROVIDED BY CONTRACTOR ARE TO BE USED FOR SELECTIVE DEMOLITION WORKS. CONTRACTOR SHALL REMOVE ALL DEBRIS AND CONSTRUCTION MATERIAL OFF SITE AND DISPOSE ON APPROPRIATE DUMPSITE. VERIFY WITH OWNER LOCATION OF DUST CONTAINMENT BARRIERS FOR DEMOLITION.

8. CONTRACTOR SHALL TAKE EXTREME CARE ON WORKING WITH EXISTING ITEMS (BUILDING & SITE) THAT ARE TO REMAIN. PROTECT ALL WALLS & FLOOR FINISHES AS NEEDED IN ORDER TO PREVENT DAMAGE TO THOSE SURFACES FROM DEMOLITION MATERIALS & DISPOSAL OPERATIONS. DAMAGE CAUSED BY THE CONSTRUCTION PROCESS WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

9. G.C. SHALL PATCH & REPAIR EXISTING MATERIALS AT ALL AREAS AS REQUIRED TO MATCH WITH EXISTING.

10. REPAIR AND LEVEL ANY FLOOR & CONCRETE AREAS BEFORE INSTALLING NEW FLOORING SYSTEMS.

11. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS NOT TO INSTALL MATERIALS THAT CONTAIN ASBESTOS, P.C.B.'s OR OTHER HAZARDOUS MATERIALS.

12. THOROUGHLY CLEAN EXISTING (STRUCTURES, WALL, FLOOR, ROOF, ETC.) SCHEDULED TO RECEIVE NEW FINISHES.

*13. INSTALL ALL NEW OUTLETS, CONDUITS, & DATA BOXES INSIDE EXISTING OR NEW WALLS. ABSOLUTELY NO EXPOSED CONDUITS. REFER TO M.E.P. DRAWINGS FOR LOCATION OF NEW ELECTRICAL OUTLETS & MECHANICAL CONTROLS. IF CONDUITS ARE TO BE INSTALLED ON EXISTING MASONRY WALLS, CMU FACE MUST BE SAW CUT AND REPLACED TO CONCEAL CONDUITS

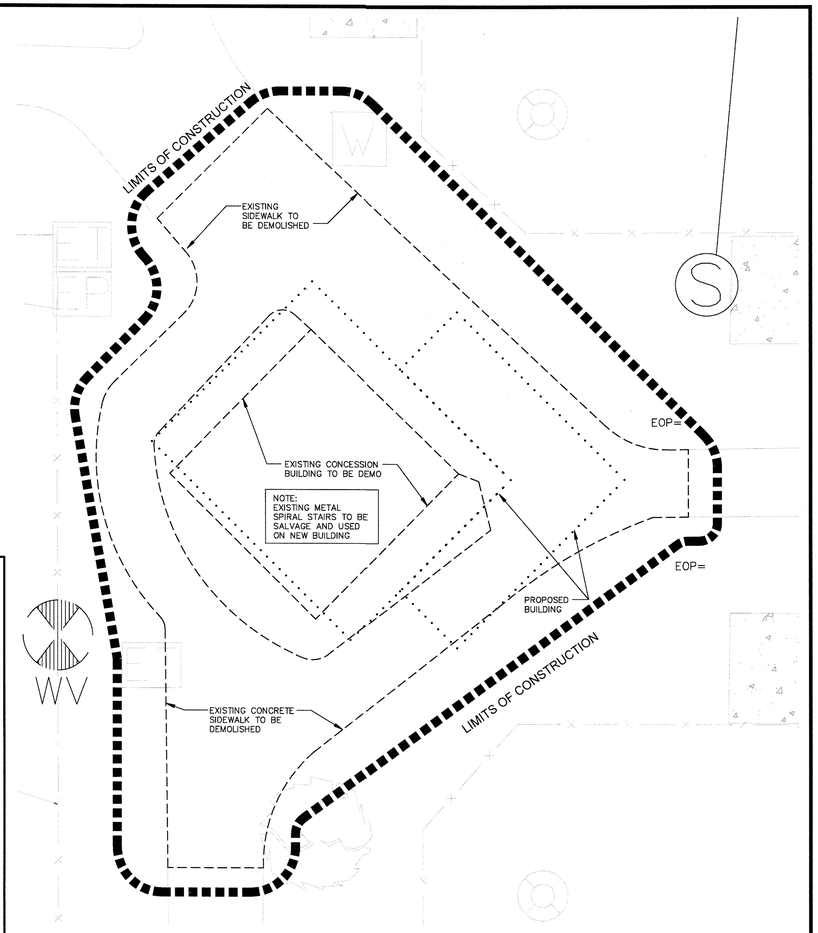
14. REFER TO MEP DEMOLITION PLANS, NOTES, & SPECIFICATIONS FOR INFORMATION ON OTHER EXISTING MECHANICAL, ELECTRICAL & PLUMBING EQUIPMENT TO BE DEMOLISHED.

15. REMOVE ALL ITEMS AS REQUIRED TO ACCOMPLISH THE FINAL CONSTRUCTION REQUIREMENTS EVEN IF NOT SHOWN ON THE CONTRACT DOCUMENTS.

16. CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF MECHANICAL, ELECTRICAL, & PLUMBING WITH THE OWNER DURING THE COURSE OF CONSTRUCTION.

17. ADJACENT BUILDINGS WILL REMAIN IN USE. NOTIFY OWNER & DESIGN TEAM 24 HR IN ADVANCE BEFORE INTERRUPTION OF POWER OR ANY UTILITIES

3 **NOTES TO G.C.**
N.T.S.



2 **ENLARGED DEMO**
SCALE: 1/8"=1'-0"

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UNDERGROUND UTILITIES. WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS, SUFFICIENTLY IN ADVANCE OF OPERATIONS TO PRECLUDE DAMAGE TO SAME.
2. CONTRACTOR TO SAW CUT EXISTING ASPHALT PAVEMENT ALONG EDGES OF PROPOSED AGENCY SERVICING THE FACILITY.
3. IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR
4. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
5. UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND THESE SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
6. CONTRACTOR SHALL REPAIR ALL ASPHALT PAVEMENT AND CONCRETE CURB, GUTTER, SIDEWALK OR DRAINAGE STRUCTURES DAMAGED DURING CONSTRUCTION.
7. CONSTRUCTION OF THE PROPOSED PAVING IMPROVEMENTS TO MATCH EXISTING ELEVATIONS TO INSURE POSITIVE DRAINAGE AS PRESENTLY EXISTS.
8. ALL SIDEWALKS CONNECTING TO PAVED DRIVES SHALL BE IN COMPLIANCE WITH A.D.A. REQUIREMENTS.
9. CONTRACTOR SHALL VERIFY EXISTING BENCH MARKS TO INSURE ACCURACY. CONTRACTOR SHALL NOTIFY ENGINEER IF CONFLICT APPEARS WITHIN BENCH MARKS.
THE LOCATION OF ALL EXISTING UTILITIES SHOWN WITHIN THE CONSTRUCTION AREA ARE APPROXIMATE AND AS LOCATED BY OWNER. ANY QUESTIONS REGARDING THE LOCATION OF THE EXISTING UTILITIES SHALL BE DIRECTED TO OWNER (CITY OF HIDALGO).
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT FROM CITY OF HIDALGO

4 **DEMOLITION NOTES**

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SEP 14 2018

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REVISIONS	

180405
PROJECT No. SEPTEMBER, 2018
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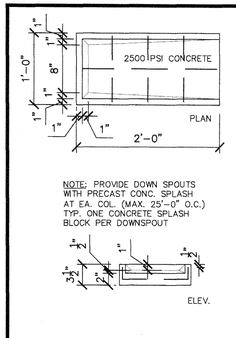
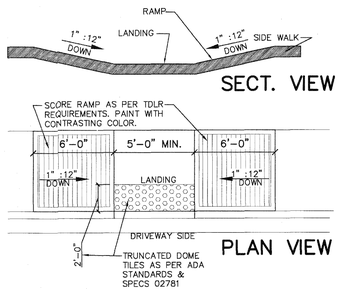
EXISTING SITE PLAN / ENLARGED DEMO
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

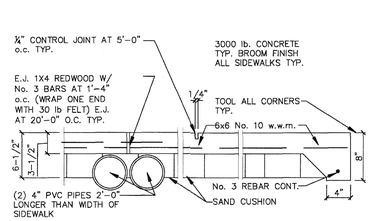
SHEET G3.1



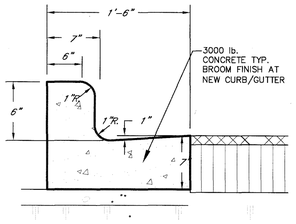
1 CONC. SPLASH
SCALE: 1"=1'-0"



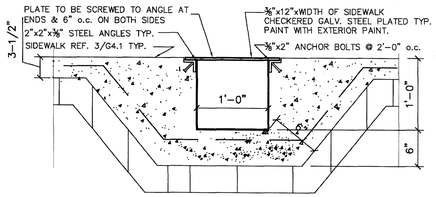
2 TYP. RAMP DET.
3/16"=1'-0"



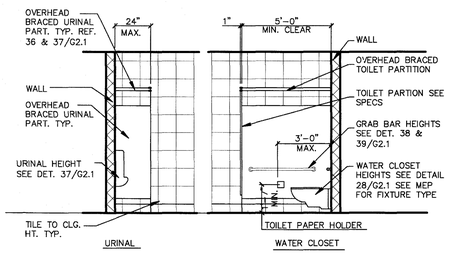
3 SIDEWALK & AC PAD
1"=1'-0"



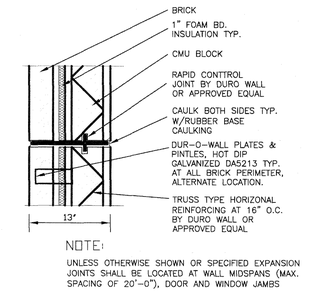
4 CURB/GUTTER DET.
1"=1'-0" REFER TO CIVIL



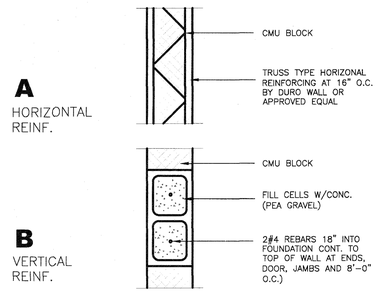
5 GUTTER DETAIL
1"=1'-0"



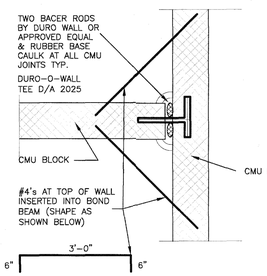
6 TYP. W.C.
N.T.S.



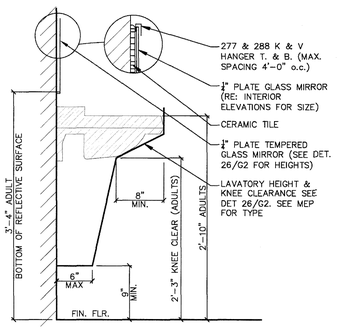
7 WALL E.J. EXPANSION JOINT AT CMU WALLS
SCALE: 1"=1'-0"



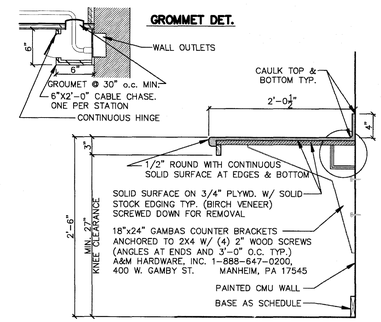
8 WALL REINF. (@ INT. & EXT.)
SCALE: 1"=1'-0"



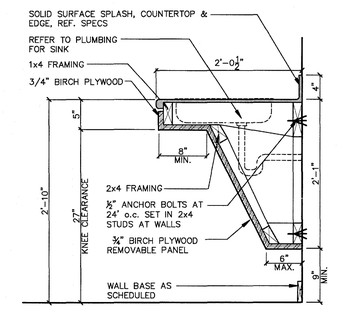
9 TOP OF WALL REINF.
SCALE: 1"=1'-0"



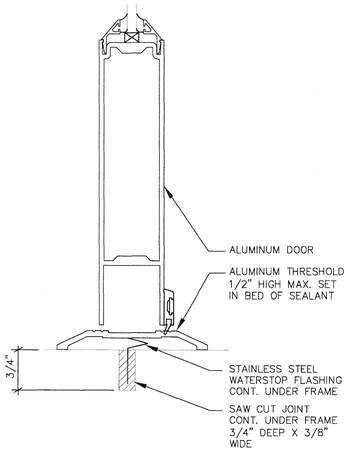
10 LAV. DETAIL
SCALE: 1"=1'-0"



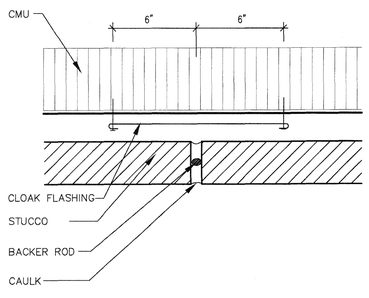
11 CABINET DETAIL
SCALE: 1"=1'-0"



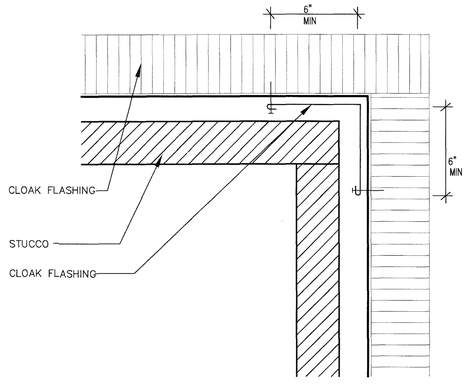
12 CABINET DETAIL
SCALE: 1"=1'-0"



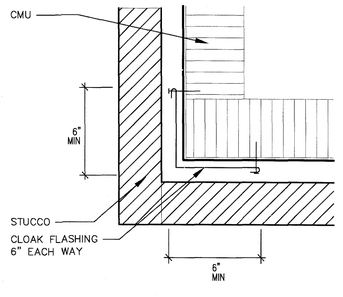
13 THRESHOLD DETAIL
NOT TO SCALE



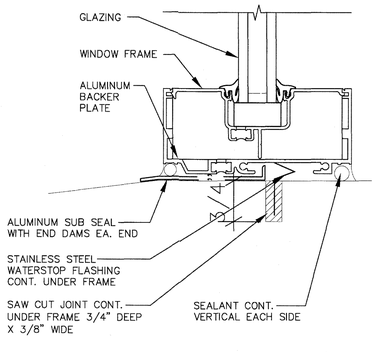
EXTERIOR VERTICAL CONTROL JOINT CLOAK FLASHING
14
NOT TO SCALE



VERTICAL FULL HEIGHT INTERIOR CORNER
15
NOT TO SCALE



VERTICAL FULL HEIGHT EXTERIOR CORNER
16
NOT TO SCALE



WINDOW SILL DETAIL
17
NOT TO SCALE

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DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
G4.1

NO.	NAME	FLOOR					BASE						WALL								CLG.			HT.	REMARKS
		1'X1' COMPOSITION TILE	CONCRETE (EPOXY PAINT W/ GRIT)	2"X2" CERAMIC TILE	T&G PLYWOOD (EPOXY PAINT W/ GRIT)	EXPOSED CONCRETE (BROOM FINISH)	4" RED OAK WOOD BASE	CERAMIC TILE COVE	PORCELAIN TILE COVE	4" PAINTED BASE (EPOXY PAINT)	1"X1" MOSAIC GLASS TILE	PAINTED CMU	CERAMIC TILE TO 10'	CMU WITH STUCCO FINISH	1"X1" MOSAIC GLASS TILE	2'X2' SUSPENDED ACOUSTICAL CEILING	⅜" TYPE "X" GYP. BD. (PAINTED)	STUCCO FINISH	T&G PLYWOOD (EPOXY PAINT W/ GRIT)					NOTES: 1. DO NOT INSTALL MATERIAL THAT CONTAINS ASBESTOS OR P.C.B.'S 2. PAINT ALL EXPOSED STRUCTURE, CONDUITS, A/C DUCTWORK, ETC.
NEW CONCESSION BUILDING																									
101	COVERED PORCH		○											○					○					8'-0"	
102	STORAGE		○				○						○							○				8'-0"	
103	CONCESSION STAND		○				○						○							○				8'-0"	
104	MEN RESTROOM		○				○						○							○				8'-0"	
105	WOMEN RESTROOM		○				○						○							○				8'-0"	
106	CHASE		○																					8'-0"	
107	ALCOVE		○																	○				8'-0"	
108	E.D.F.		○											○						○				8'-0"	
201	PRESS BOX				○		○						○							○				9'-7"	

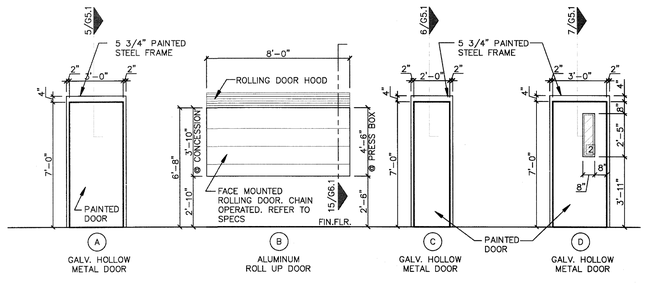
1 ROOM FINISH SCHEDULE

NO.	SIZE	LBL.	THK.	TYPE	MATERIAL			DETAILS			REMARKS
					DOOR	FRAME	VENEER	HEAD	JAMB	SILL	NOTES: 1. SEE SPECIFICATION 8710 FOR DOOR HARDWARE
101	3'-0"X8'-0"		1-3/4"	A	H. METAL	H. METAL	H. METAL	5A/G5.1	5B/G5.1	5C/G5.1	STORAGE 102
102	8'-0"X4'-8"		1-3/4"	B	ALUM.	ALUM.	ALUM.	15/G6.1		15/G6.1	CONCESSION STAND 103
103	8'-0"X4'-8"		1-3/4"	B	ALUM.	ALUM.	ALUM.	15/G6.1		15/G6.1	CONCESSION STAND 103
104	6'-0"X10'-8"		1-3/4"	A	H. METAL	H. METAL	H. METAL	5A/G5.1	5B/G5.1	5C/G5.1	MEN RESTROOM 104
105	3'-0"X7'-0"		1-3/4"	A	H. METAL	H. METAL	H. METAL	5A/G5.1	5B/G5.1	5C/G5.1	WOMEN RESTROOM 105
106	3'-0"X7'-0"		1-3/4"	C	H. METAL	H. METAL	H. METAL	6A/G5.1	6B/G5.1	6C/G5.1	CHASE 106
107	3'-0"X7'-0"		1-3/4"	D	H. METAL	H. METAL	H. METAL	7A/G5.1	7B/G5.1	7C/G5.1	CONCESSION STAND 103
201	8'-0"X4'-8"		1-3/4"	B	ALUM.	ALUM.	ALUM.	15/G6.1		15/G6.1	PRESS BOX 201
202	8'-0"X4'-8"		1-3/4"	B	ALUM.	ALUM.	ALUM.	15/G6.1		15/G6.1	PRESS BOX 201

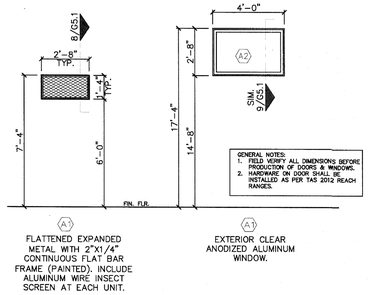
2 DOOR SCHEDULE

GLAZING TYPES:
1. **ALL GLAZING** ON ALL EXTERIOR WINDOWS & DOORS SHALL HAVE DOUBLE INSULATED TEMPERED GLASS (¼" GRAY OVER LOW "E" #3 AT EXTERIOR, ½" AIRSPACE, AND ¼" CLEAR GLASS AT INTERIOR) TYPICAL.
2. **ALL GLAZING** ON ALL INTERIOR WINDOWS & DOORS SHALL BE 1/4" CLEAR TEMPERED GLASS UNLESS OTHERWISE NOTED.

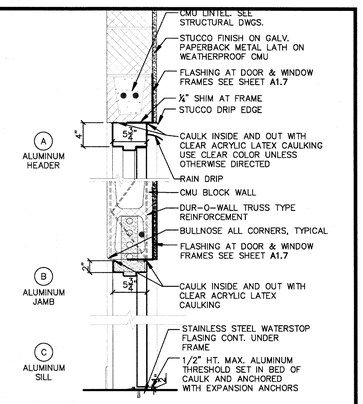
ALUMINUM FRAMES NOTES:
1. ALL ALUMINUM WINDOWS AND ENTRANCES SHALL BE CLASS 1 (.07 MIL) CLEAR ANODIZED ALUMINUM BY OLDCASTLE BUILDINGENVELOPE (VISTAWALL OR APPROVED EQUAL).
2. ALUMINUM WINDOWS: SERIES 3000 (2" x 4-1/2") THERMAL MULTIPLANE (CENTER SET) SYSTEM, SCREW SPLINE, OUTSIDE GLAZED TYPICAL FOR 1" GLAZING AS SPECIFIED.
3. REFER TO SHEET **G4.1 & G5.1** FOR EXTERIOR WINDOW & DOOR FLASHING DETAILS
4. FIELD VERIFY ALL DIMENSIONS BEFORE PRODUCTION OF DOORS & WINDOWS
5. ALL HARDWARE FINISH TO MATCH DOOR COLOR
6. PROVIDE WEATHERSTRIPPING & BOTTOM DOOR SWEEPS AT ALL EXERIOR DOOR



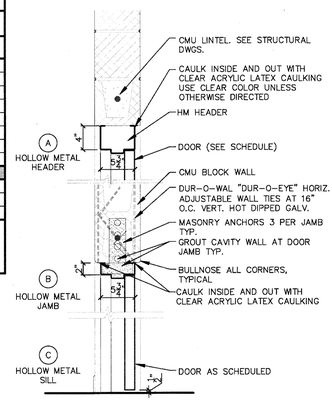
3 DOOR ELEVATIONS
SCALE: 1/4"=1'-0"



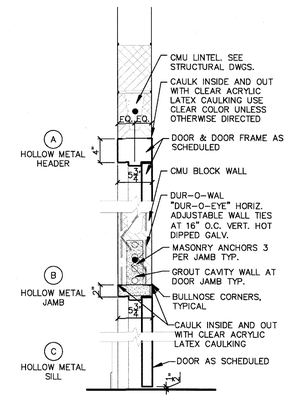
4 WINDOW ELEVATIONS
SCALE: 1/4"=1'-0"



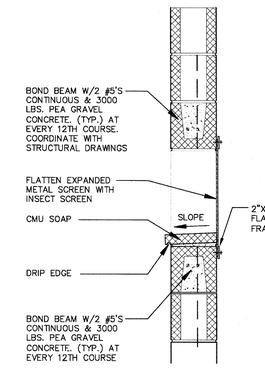
5 EXT. STEEL FRAME
SCALE: 1"=1'-0"



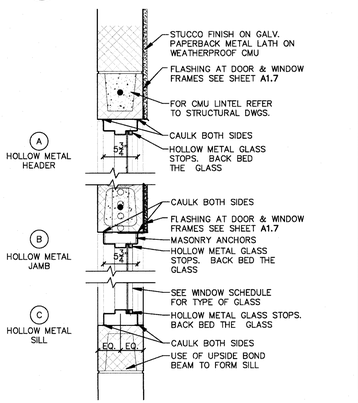
6 INT. STEEL FRAME
SCALE: 1"=1'-0"



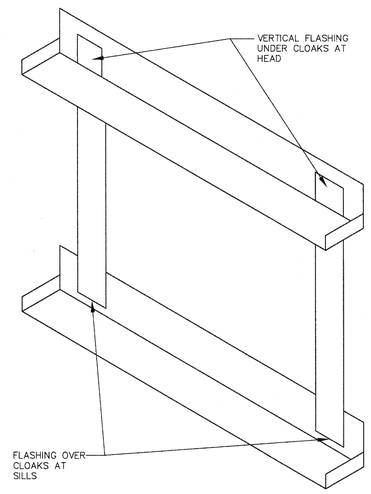
7 INT. STEEL FRAME
SCALE: 1"=1'-0"



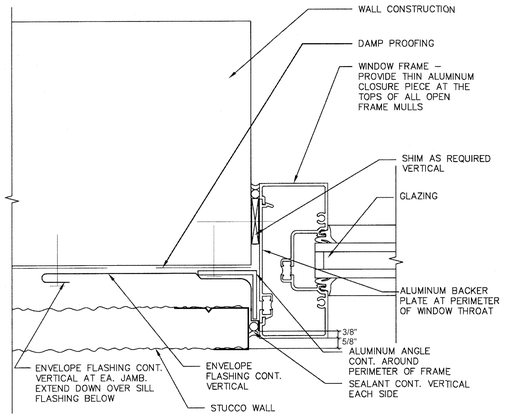
8 SCREEN WINDOW
SCALE: 1"=1'-0"



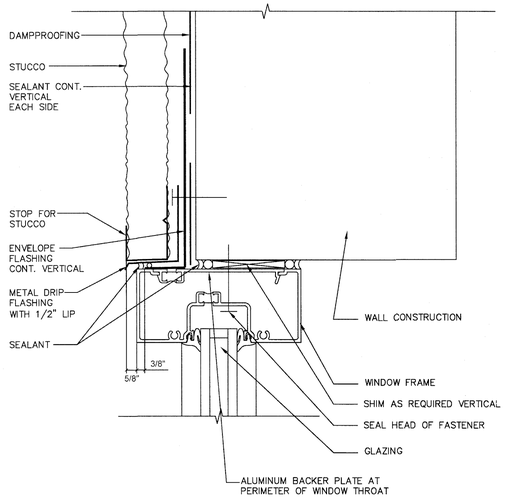
9 EXT. STEEL FRAME
SCALE: 1"=1'-0"



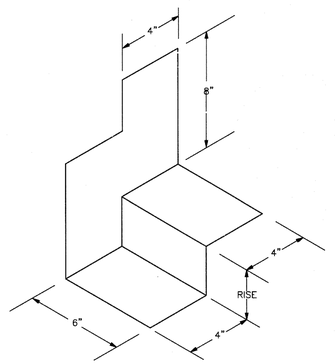
10 WINDOW FLASHING 1 DET.
NOT TO SCALE



11 WINDOW JAMB AT STUCCO DETAIL
NOT TO SCALE



12 WINDOW HEAD AT STUCCO DETAIL
NOT TO SCALE



13 LEVEL CHANGE CLOAK DETAIL
NOT TO SCALE

REGISTERED ARCHITECT EDUARDO G. VIELA #4407 STATE OF TEXAS
SEP 14 2018

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REVISIONS		

180405
PROJECT No.
DATE: SEPTEMBER, 2018
DRAWN BY R.E. RAMOS
CHK. BY E.G.V., AIA

JAVIER HINOJOSA ENGINEERING
CONSULTING ENGINEERS
416 E. DOVE AVENUE McALLEN, TEXAS 78504
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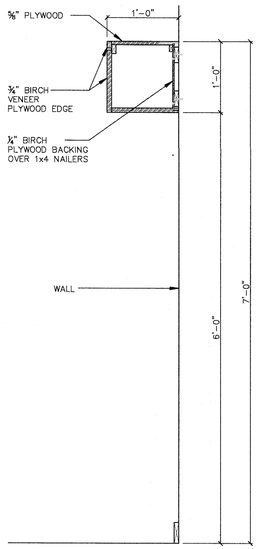
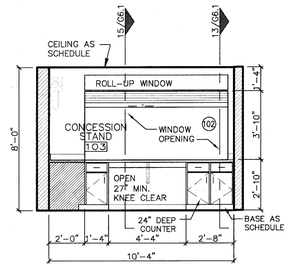
javhin@rgv.rr.com
TBPE FIRM No. F-1295

SCHEDULES, DOOR/WINDOW ELEVATIONS AND DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

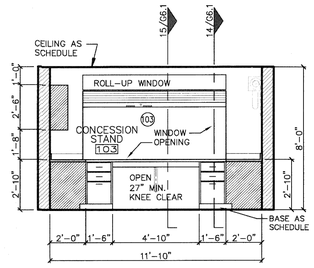
SHEET G5.1



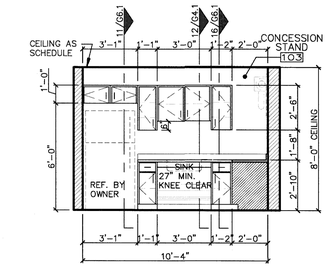
11 CABINET DETAIL
SCALE: 1"=1'-0"



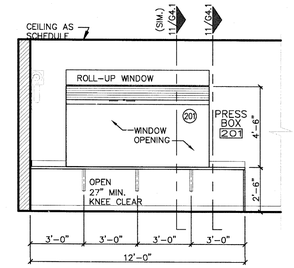
1 CONCESSION ELEV.
SCALE: 1/4"=1'-0" (RM 103)



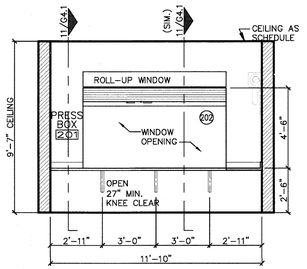
2 CONCESSION ELEV.
SCALE: 1/4"=1'-0" (RM 103)



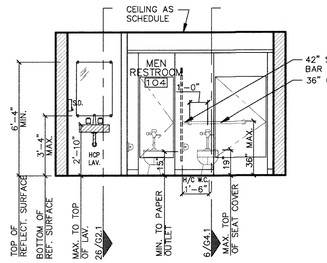
3 CONCESSION ELEV.
SCALE: 1/4"=1'-0" (RM 103)



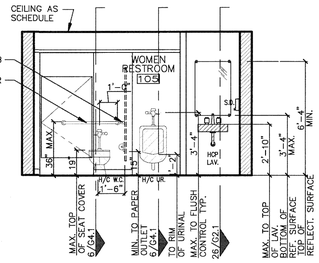
4 PRESS BOX
SCALE: 1/4"=1'-0" (RM 201)



5 PRESS BOX
SCALE: 1/4"=1'-0" (RM 201)

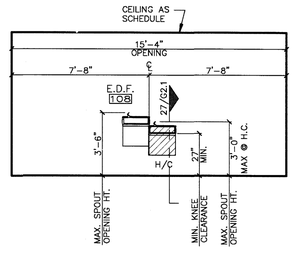


6 WOMEN RR
SCALE: 1/4"=1'-0" (RM 105)

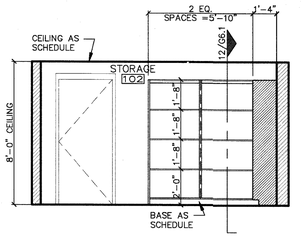


7 MEN RR
SCALE: 1/4"=1'-0" (RM 104)

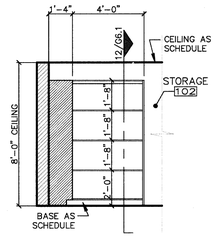
NOTES:
1. REFER TO ADA DRAWING G2.1 FOR RESTROOMS/LAVATORY SPECIFICATIONS AND DIMENSIONS UNLESS OTHERWISE NOTED.
2. TYPICAL AT ALL LAVATORIES PROVIDE PROTECTIVE INSULATION ON ALL EXPOSED PIPING.



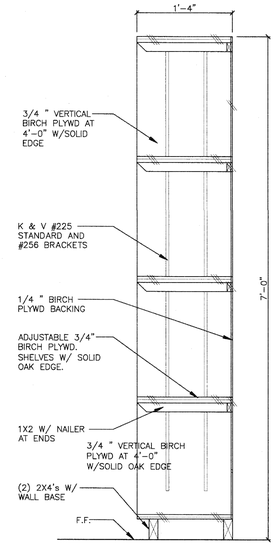
8 E.D.F.
SCALE: 1/4"=1'-0" (RM 108)



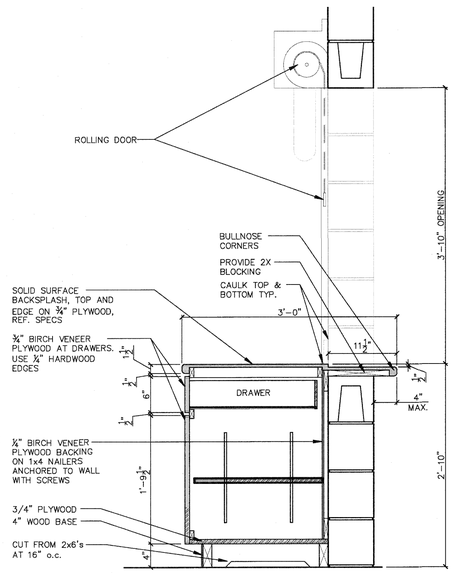
9 STORAGE
SCALE: 1/4"=1'-0" (RM 102)



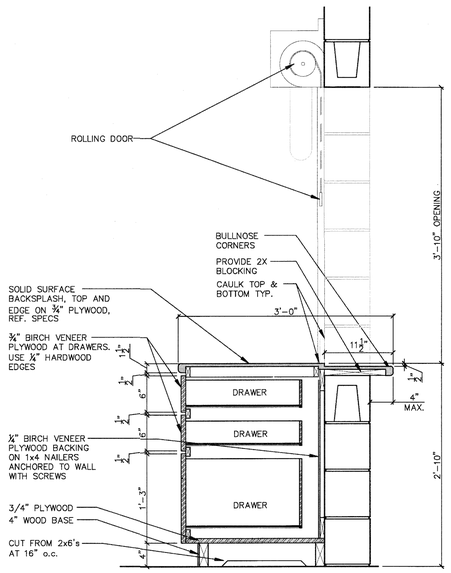
10 STORAGE
SCALE: 1/4"=1'-0" (RM 102)



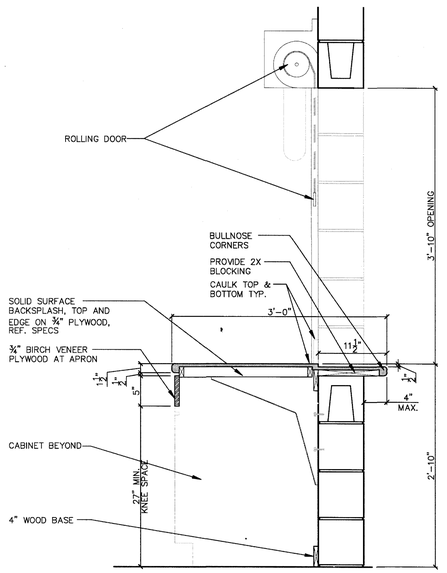
12 CABINET DETAIL
SCALE: 1"=1'-0"



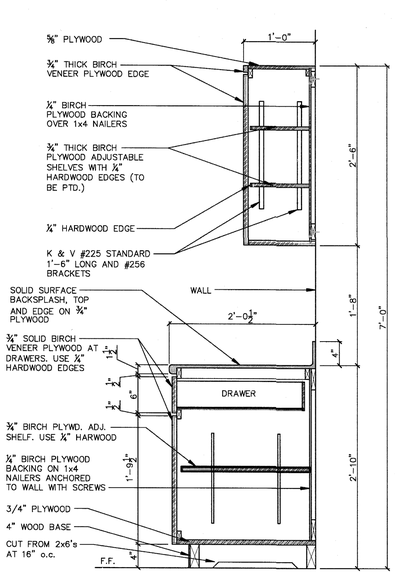
13 CABINET DETAIL
SCALE: 1"=1'-0"



14 CABINET DETAIL
SCALE: 1"=1'-0"



15 CABINET DETAIL
SCALE: 1"=1'-0"



16 CABINET DETAIL
SCALE: 1"=1'-0"

REGISTERED ARCHITECT EDUARDO G. VELA 14407 STATE OF TEXAS
SEP 14 2018

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REVISIONS		

180405
PROJECT No.
SEPTEMBER, 2018
DATE:
R.E. RAMOS
DRAWN BY
E.G.V., AIA
CHK. BY

JAVIER HINOJOSA ENGINEERING
CONSULTING ENGINEERS
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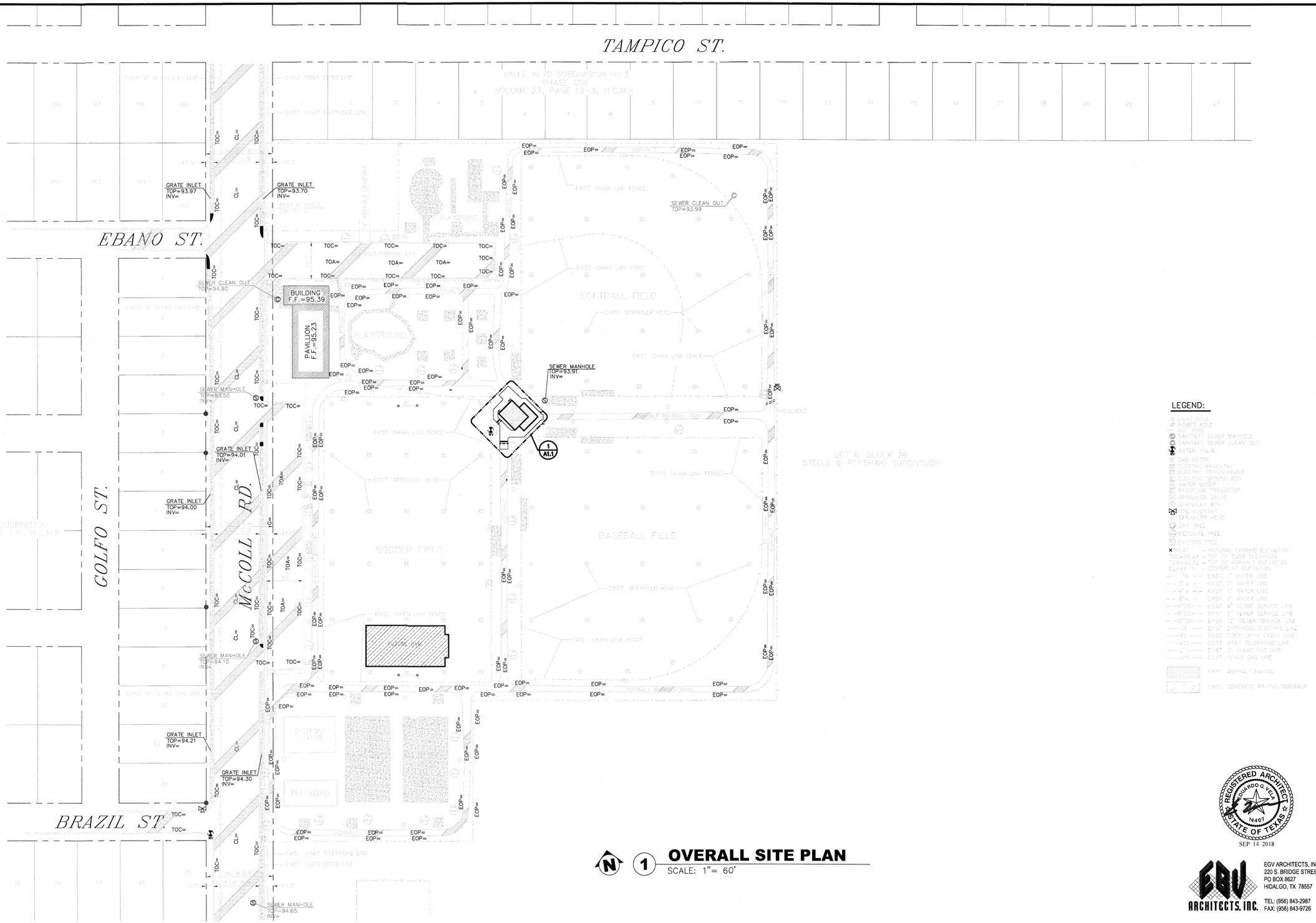
TBPE FIRM No. F-1295

INTERIOR ELEVATIONS AND CABINET DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
G6.1



LEGEND:

- LIGHT POLE
- POWER POLE
- GUY
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- WATER VALVE
- GAS METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- ELECTRIC GROUND BOX
- WATER METER
- BACKFLOW PREVENTOR
- IRRIGATION VALVE
- SPRINKLER BOX
- FIRE HYDRANT
- SPRINKLER HEAD
- OAK TREE
- MESQUITE TREE
- EXISTING TREE
- EXIST. NATURAL GROUND ELEVATION
- TOC=94.24 = TOP OF CURB ELEVATION
- TOA=93.92 = TOP OF ASPHALT ELEVATION
- CL=94.71 = CENTERLINE ELEVATION
- EXIST. 1" WATER LINE
- EXIST. 2" WATER LINE
- EXIST. 4" W — EXIST. 4" WATER LINE
- EXIST. 6" WATER LINE
- EXIST. 4" SEWER SERVICE LINE
- EXIST. 6" SEWER SERVICE LINE
- EXIST. 12" SEWER SERVICE LINE
- OE — EXIST. OVERHEAD ELECTRIC LINE
- FO — EXIST. FIBER OPTIC CABLE LINE
- AT — EXIST. AT&T TELEPHONE LINE
- 2" G — EXIST. 2" TEXAS GAS LINE
- G/S — EXIST. TEXAS GAS LINE
- EXIST. ASPHALT PAVING
- EXIST. CONCRETE PAVING/SIDEWALK

N

1 OVERALL SITE PLAN

SCALE: 1"= 60'

REGISTERED ARCHITECT
EDUARDO G. VELA
14407
STATE OF TEXAS
SEP 14 2018

EGV ARCHITECTS, INC.
220 S. BRIDGE STREET
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REVISIONS	

PROJECT No.	180405
DATE:	SEPTEMBER, 2018
DRAWN BY	R.E. RAMOS
CHK. BY	E.G.V., AIA

JAVIER HINOJOSA ENGINEERING
CONSULTING ENGINEERS
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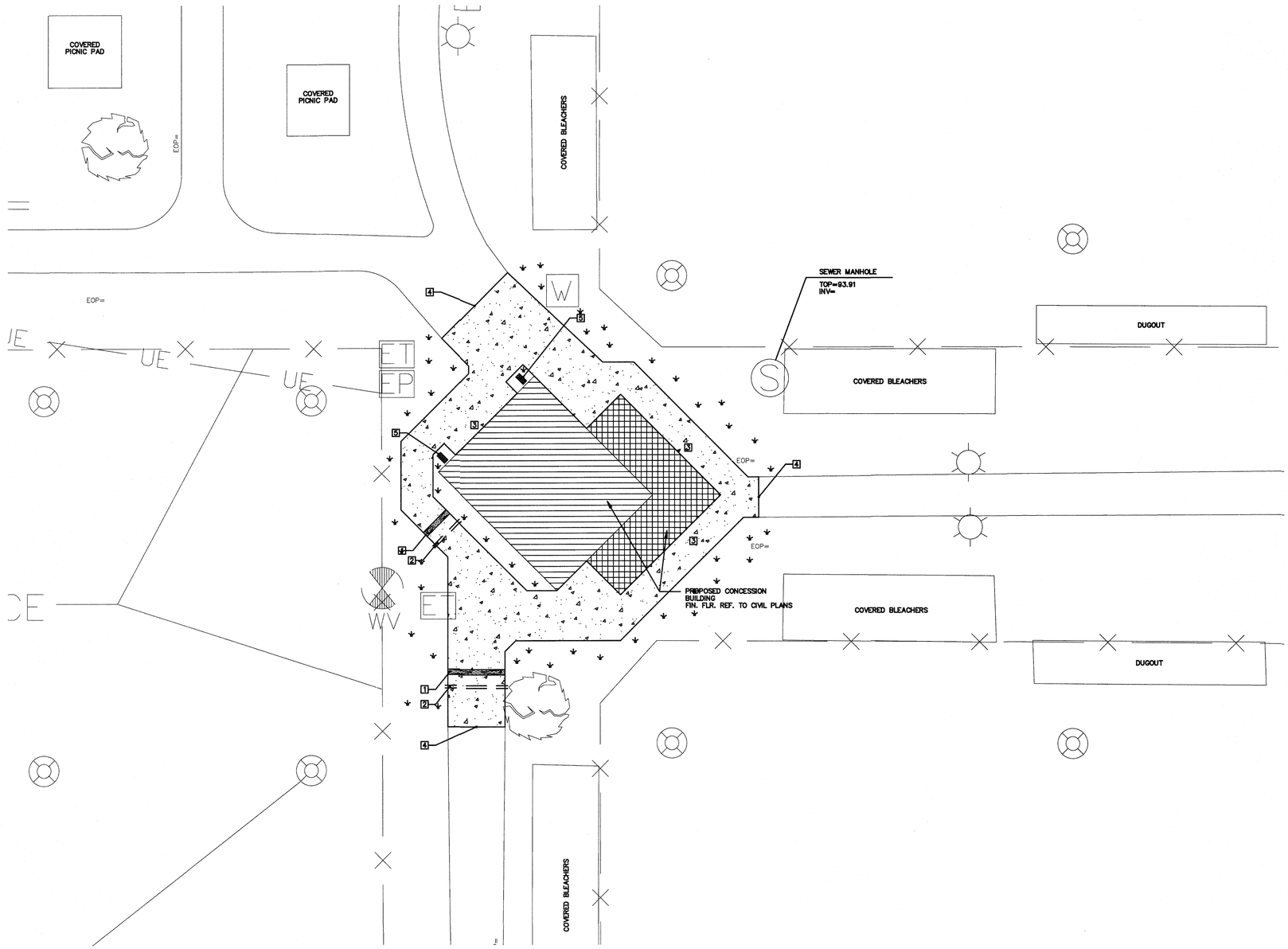
OVERALL SITE PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
A1.0



LEGEND

[1] NEW SIDEWALK W/ GUTTER RE: DET. 5/G4.1

[2] NEW SIDEWALK WITH PIPES BELOW PAVING RE: 3/G4.1

[3] MAX. 1/4"-FT SLOPE AWAY FROM BUILDING & ENTRANCES

[4] MATCH EXISTING ELEVATION

[5] PRECAST CONC. SPLASH BLOCK SEE DETAIL 1/G4.1

NEW SPOT ELEV. 408.01

SEEDED AREA BERMUDA GRASS (HYDRO-MULCH) SPRAY 30' BEYOND BUILDING REFER TO SPECS SECTION 2480.

PROVIDE 6" MIN. TOP SOIL TO GRADE AWAY FROM BUILDINGS @ 4:12

NOTE:
1. CONTACT CIVIL ENGINEER & ARCHITECT TO CHECK FLATWORK FORM BEFORE POURING CONCRETE. REFER TO SHEET G3.1 FOR EXISTING GRADES.
2. ALL SIDEWALKS /PORCHES / CONCRETE STOOPS SHALL SLOPE MIN. ¼"-12" AWAY FROM ENTRANCES

N

1 ENLARGED SITE PLAN

SCALE: 3/32"=1'-0"

REGISTERED ARCHITECT
EDUARDO G. ELA
14407
STATE OF TEXAS

SEP 14 2018

EGV ARCHITECTS, INC.
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REVISIONS		

180405
PROJECT No.
SEPTEMBER, 2018
DATE:
R.E. RAMOS
DRAWN BY
E.G.V., AIA
CHK. BY

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CONSULTING ENGINEERS
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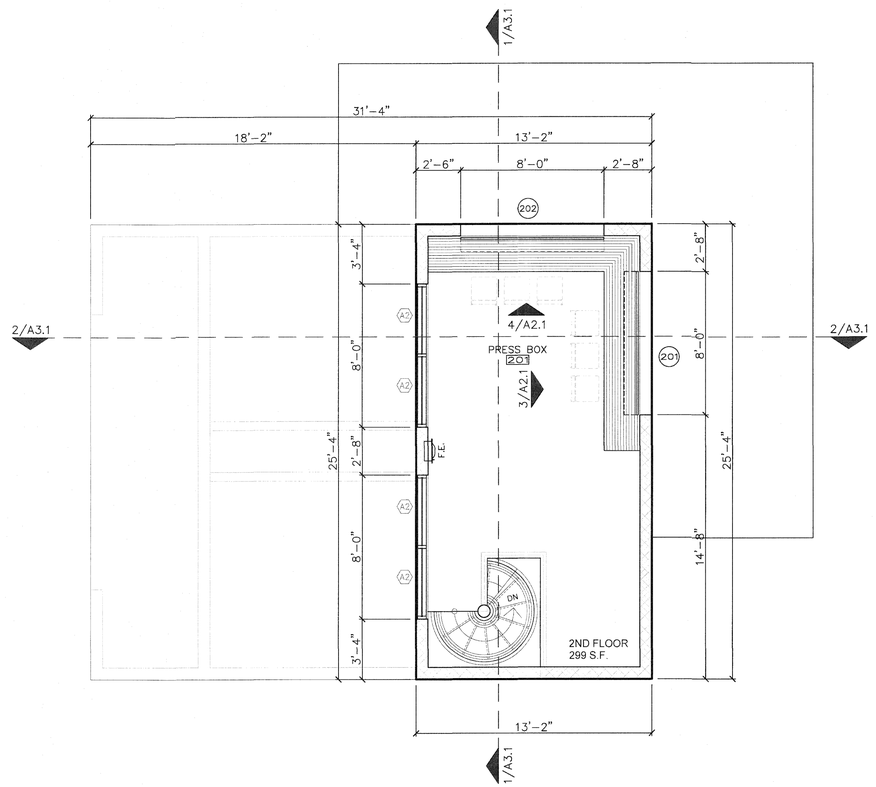
TBPE FIRM No. F-1295

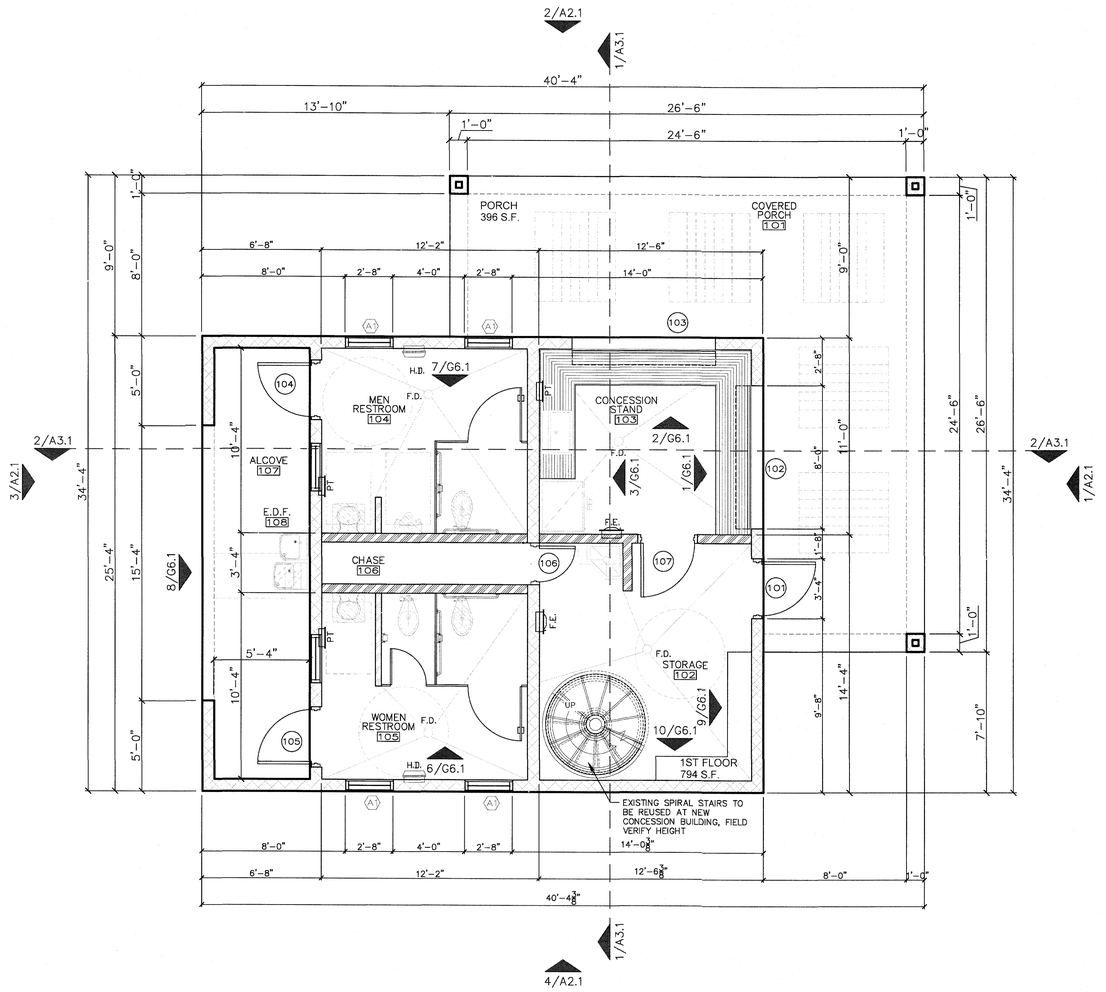
ENLARGED SITE PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
A1.1



SECOND FLOOR FLOOR PLAN

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



FIRST FLOOR FLOOR PLAN

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

NOTES TO CONTRACTOR:

1. PROVIDE BULLNOSE CMU AT ALL OUTSIDE CORNERS
2. TYP. 6" WALLS BEHIND FIRE EXTINGUISHERS & PAPER TOWEL DISPENSERS. SEE LEGEND FOR WALL TYPES AND SIZES. COORDINATE WALL TYPES AND SIZES WITH STRUCTURAL DWGS.
3. FURR ALL COLUMNS WHETHER SHOWN OR NOT MIN. 2" CLEARANCE BETWEEN STEEL COLUMNS AND FURR-AROUND. ALL FURRING SHALL BE 4"CMU. WITH COLUMN ANCHORS AT 2'-0" O.C. VERTICALLY.
4. ALL WALLS (CMU AND OTHERWISE) SHALL BE 8" MIN. ABOVE ADJACENT HIGHEST CEILING TYP. UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS NOT TO INSTALL MATERIALS THAT CONTAIN ASBESTOS, P.C.B.'s OR OTHER HAZARDOUS MATERIALS.
6. ALL WORK WHETHER SHOWN OR NOT SHALL CONFORM TO A.D.A (AMERICAN WITH DISABILITIES ACT) STANDARDS. RE: SHEET G-2.
7. PAINT ALL EXPOSED STRUCTURES, PURLINS, CONDUITS, DUCTWORK ETC.
8. ALL SIDEWALKS/PORCHES/CONCRETE STOOPS SHALL SLOPE MIN. 1/8":12" AWAY FROM ENTRANCES.
9. CAULK ALL PENETRATIONS WITH FIRE CAULKING

LEGEND

NEW DOOR NUMBER	00	ELEVATION MARKER	Sheet No. / 2/A1.1
NEW WINDOW NUMBER	00	4" CMU	
ROOM NAME & NUMBER	ROOM 000	6" CMU	
HANDICAPPED	P	8" CMU	
OPPOSITE HAND	O.H.	12" CMU	
FIRE EXTINGUISHER	FE	MOISTURE PROOF GYP. AT R.R. WET WALLS	
PAPER TOWEL DISPENSER	PT	(COORDINATE WALL TYPES AND SIZES WITH STRUCTURAL DRAWINGS)	
HAND DRYER	HD		

REGISTERED ARCHITECT
EDUARDO G. VELA
14401
STATE OF TEXAS
SEP 14 2018

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REVISIONS		

180405
PROJECT No.
SEPTEMBER, 2018
DATE:
R.E. RAMOS
DRAWN BY
E.G.V., AIA
CHK. BY

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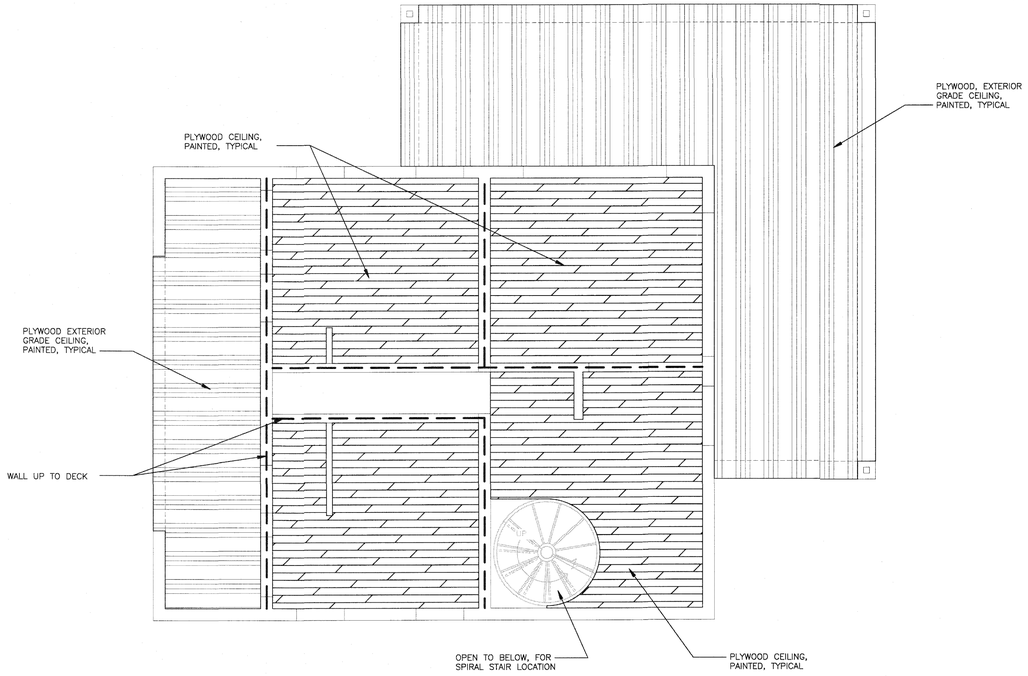
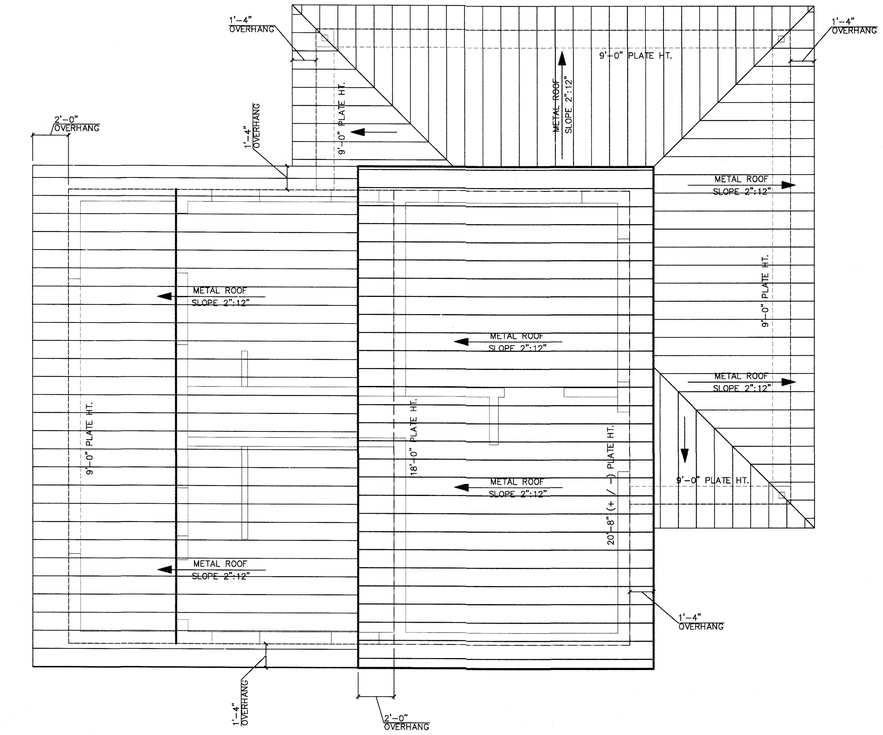
FLOOR PLAN – FIRST AND SECOND FLOOR
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
A1.2



FIRST FLOOR REF. CLG. PLAN

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



ROOF PLAN

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

CEILING LEGEND

PLYWOOD CLG.

WALL TO DECK

1-HOUR FIRE-RATED WALL TO DECK

PLYWOOD EXTERIOR GRADE CLG.

NOTES

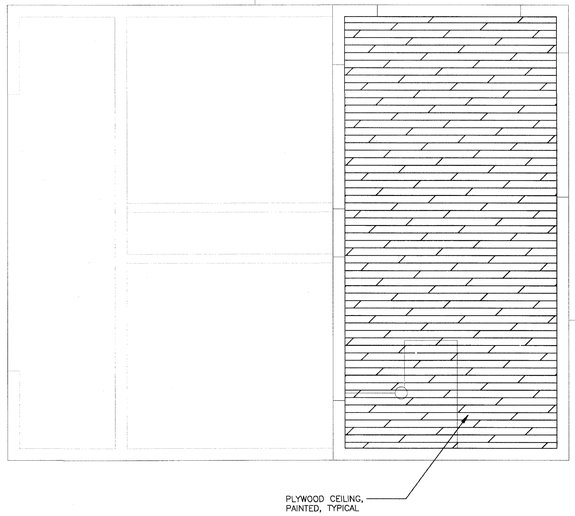
⅝" FIRE RATED GYP. BOARD ON FIRE FRONT GRID 659 AND 654 BY CHICAGO OR APPROVED EQUAL AT ALL GYP. BOARD CEILINGS TYP.

PAINT ALL EXPOSED STRUCTURES, PURLINS, CONDUITS, A/C DUCTWORK ETC.

ALL WALLS (CMU AND OTHERWISE SHALL BE MIN. 8" ABOVE ADJACENT HIGHEST CEILING. UNLESS OTHERWISE SPECIFIED).

FURR ALL COLUMNS WHETHER SHOWN OR NOT.

COORDINATE TYPES & LOCATION OF ALL LIGHT FIXTURES WITH MEP



SECOND FLOOR REF. CLG. PLAN

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

REGISTERED ARCHITECT EDUARDO G. PEÑA 74407 STATE OF TEXAS

SEP 14 2018

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REVISIONS		

180405

PROJECT No. SEPTEMBER, 2018

DATE: R.E. RAMOS

DRAWN BY E.G.V., AIA

CHK. BY

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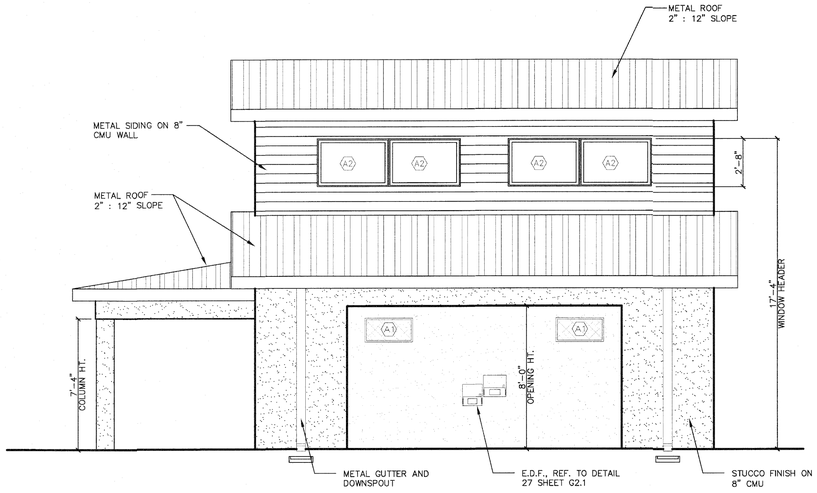
ROOF PLAN AND REFLECTED CEILING PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET A1.3



3 ELEVATION
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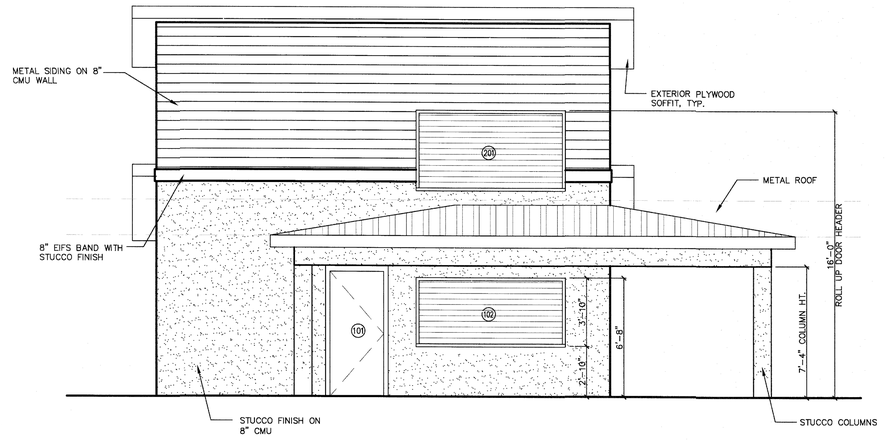

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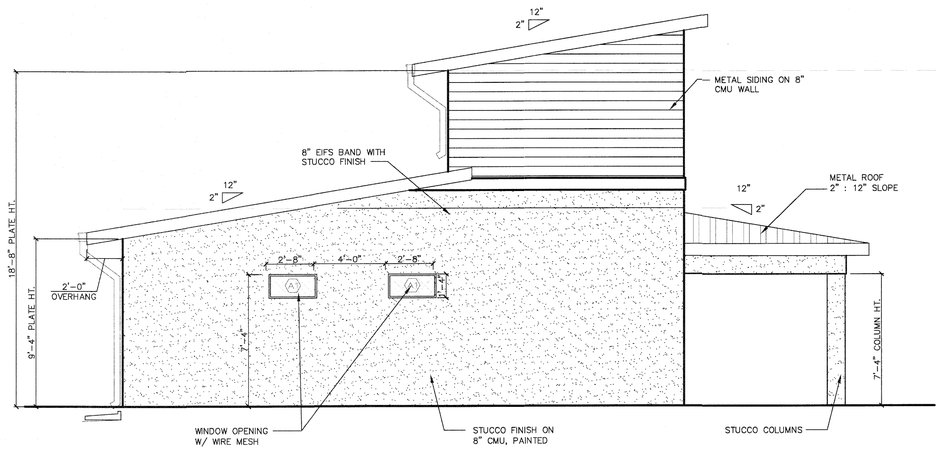

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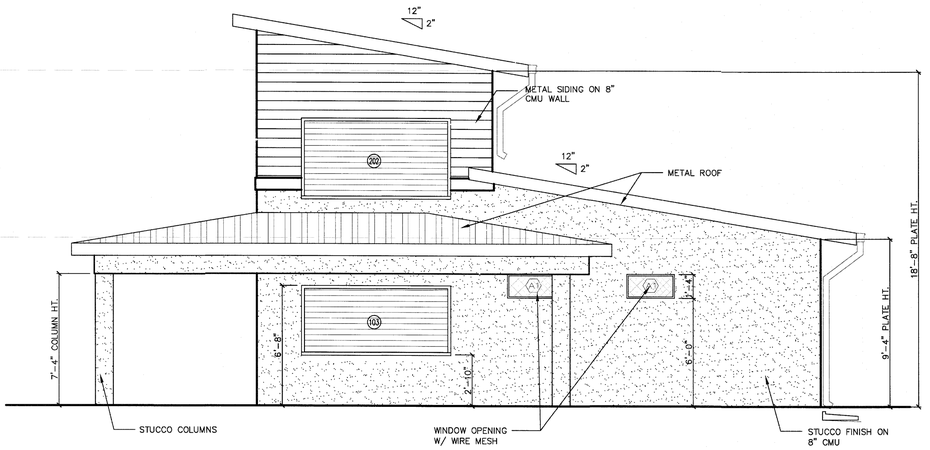

2 ELEVATION
SCALE: 1/4"=1'-0"

REGISTERED ARCHITECT
EDUARDO G. VIELA
14407
STATE OF TEXAS
SEP 14 2018

EGV ARCHITECTS, INC.
220 S. BRIDGE STREET
PO BOX 8627
HIDALGO, TX 78557
TEL: (956) 843-2987
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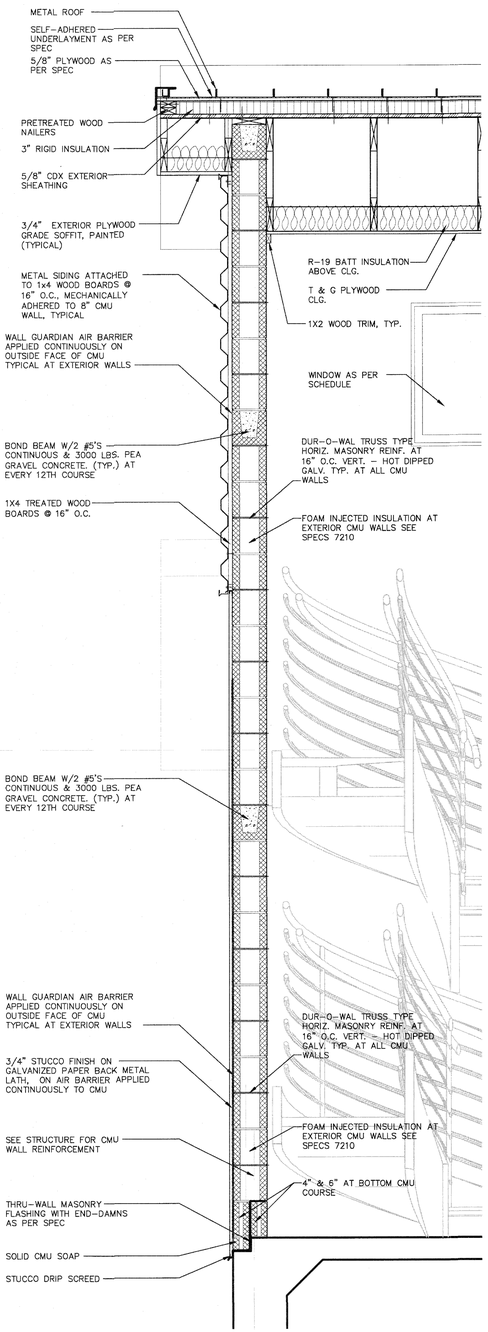
REVISIONS		

180405
PROJECT No.
SEPTEMBER, 2018
DATE:
R.E. RAMOS
DRAWN BY
E.G.V., AIA
CHK. BY

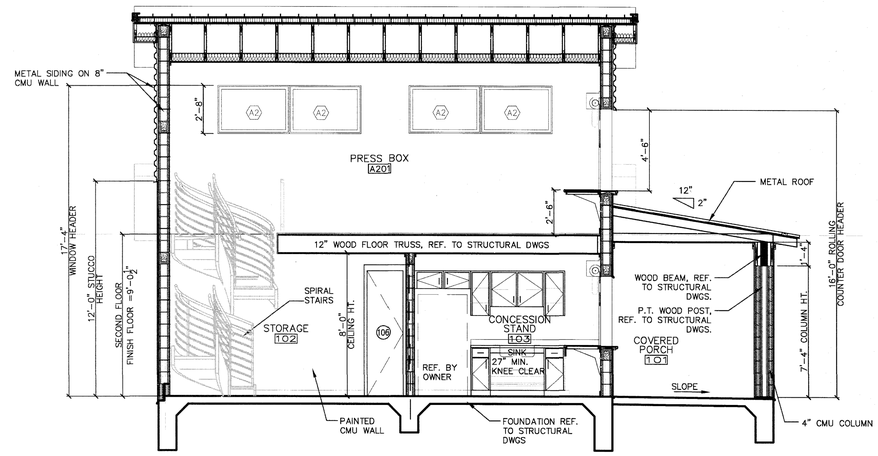
JAVIER HINOJOSA ENGINEERING
CONSULTING ENGINEERS
416 E. DOVE AVENUE McALLEN, TEXAS 78504
PHONE (956) 668-1588
javhin@rgv.rr.com
TBPE FIRM No. F-1295

EXTERIOR ELEVATIONS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

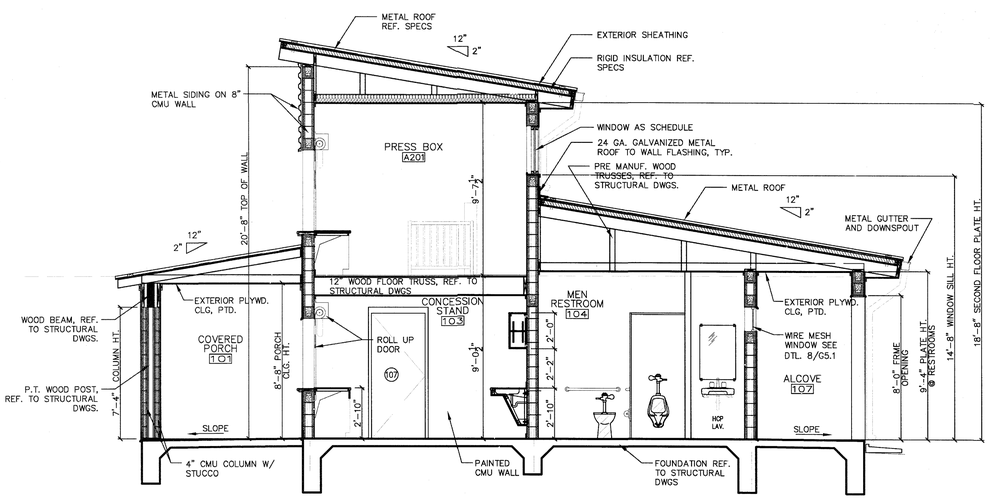
SHEET
A2.1



3 TYP. EXT. WALL SECTION
SCALE: 3/4"=1'-0"



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



2 BUILDING SECTION
SCALE: 1/4"=1'-0"

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BUILDING SECTIONS AND TYPICAL EXTERIOR WALL SECTION
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET A3.1

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 SHEATHING IS INSTALLED
    C. SECOND FLOOR SHEATHING
    D. FRAMING OF ROOF STRUCTURE BEFORE SHEATHING IS INSTALLED
    E. EXTERIOR SHEATHING INSTALLATION
    F. 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. INCLUDING CMU WALL
    D. REINFORCING STEEL
    E. CMU WALL COMPONENTS
2. DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE:
    A. PRE-MANUFACTURED WOOD TRUSSES INCLUDING REACTIONS (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 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.

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 8D 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.
3. SHEATHING FOR FLOOR TO BE TYPE CDX, STRUCTURAL I APA RATED, 3/4" THICK (32/16).

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
2. CODE: ..... IBC 2012
3. VERTICAL LOADS
    A. ROOF DEAD LOAD (PORCH): ..... 15 PSF
    B. ROOF DEAD LOAD (BUILT-UP ROOF): ..... 20 PSF
    C. FLOOR DEAD LOAD: ..... 20 PSF
    D. ROOF LIVE LOAD(REDUCIBLE) : ..... 20 PSF
    E. FLOOR LIVE LOAD: ..... 40 PSF
    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.
4. LATERAL LOADS
    A. WIND SPEED (V-ULT): ..... 129 MPH
    WIND SPEED (V-ASD) ..... 100 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.0
    D. BUILDING CATEGORY: II
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... D
5. GEOTECHNICAL ENGINEERING REPORT: NOT PROVIDED

GEOTECHNICAL INVESTIGATION

THE OWNER OF THIS PROJECT HAS DECLINED TO FURNISH A GEOTECHNICAL INVESTIGATION REPORT THEREFORE THE FOUNDATION DESIGN WAS BASED UPON AVERAGE SOIL CONDITIONS IN HIDALGO COUNTY, TEXAS. IF HIGHLY EXPANSIVE SOILS OR SOFT SOILS ARE ENCOUNTERED, DIFFERENTIAL FOUNDATION MOVEMENTS CAN BE EXPECTED. ALTHOUGH WE ATTEMPT TO MAKE ASSUMPTIONS THAT WILL NOT IMPAIR STRUCTURAL INTEGRITY OF THE PROJECT, WE DO NOT HAVE THE EXPERTISE OR BENEFIT OF LABORATORY INVESTIGATIONS OF A GEOTECHNICAL ENGINEER, THEREFORE THIS FIRM CANNOT ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE DESIGN FOUNDATION SHOULD ACTUAL SURFACE OR SUBSURFACE SOIL CONDITIONS VARY FROM THOSE ASSUMED. FOLLOWING ASSUMPTIONS:

1. SOIL BEARING PRESSURE (AT PROPOSED SITE) = 1000 PSF

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.

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.

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 AND SLAB	3000 PSI	4"-6"	1.5 IN.
C.I.P. BEAMS AND LINTELS	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.

WOOD FRAMING NOTES

1. ALL FRAMING LUMBER SHALL BE #2 SOUTHERN PINE OR BETTER.
2. PROVIDE SOLID BLOCKING BETWEEN ROOF RAFTERS, CEILING JOISTS AND FLOOR JOISTS AT BEARING LOCATIONS AND AT MID SPAN OF SPANS GREATER THAN 8'-0" OR AS NOTED. SIZE SHALL MATCH FRAMING MEMBER.
3. LAP FRAMING MEMBERS WHICH BEAR ON 2x4 STUDS OR PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
4. MINIMUM NAILING OF WOOD SHALL BE PER TABLE 2304.9.1 OF IBC 2012 UNLESS NOTED OTHERWISE ON 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.

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 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 7" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.
3. SHEATHING FOR EXTERIOR WALLS SHALL BE STRUCTURAL I-APA RATED, 1/2" THICK, (32/16).
4. PLACE WALL SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 7" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

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GENERAL NOTES
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
S1.0

GENERAL NOTES

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 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[b]	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	1704.3.3
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	1708.4
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	1704.3.1
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:	—	—	AWS D1.4 ACI 318: 3.5.2	—
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	—		
3) SHEAR REINFORCEMENT.	X	—		
4) OTHER REINFORCING STEEL.	—	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:		X		
a. DETAILS SUCH AS BRACING AND STIFFENING.	—	—	—	1704.3.2
b. MEMBER LOCATIONS.	—	—		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—	—		

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

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ ASCE 5/ TMS 402[a]	ACI 530.1/ ASCE 6/ TMS 602[a]
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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GENERAL NOTES
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

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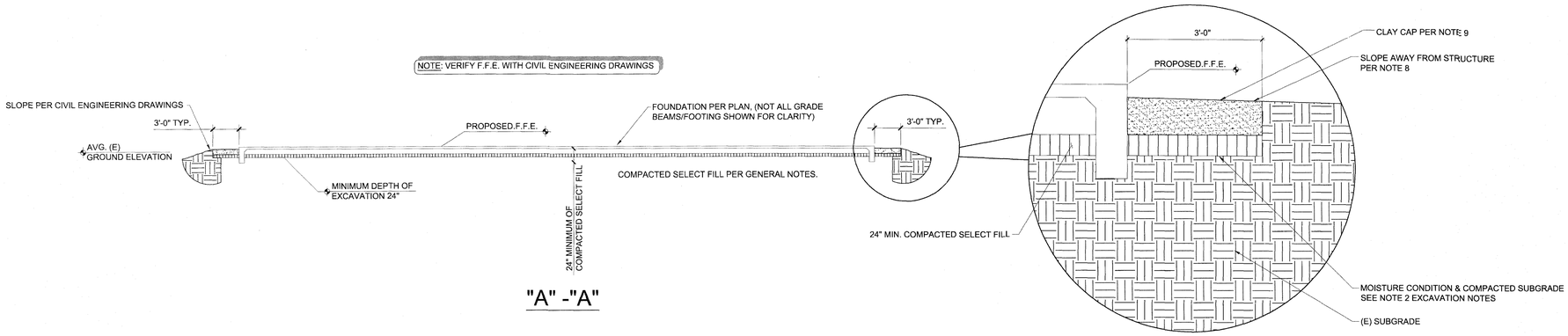

"A" -"A"

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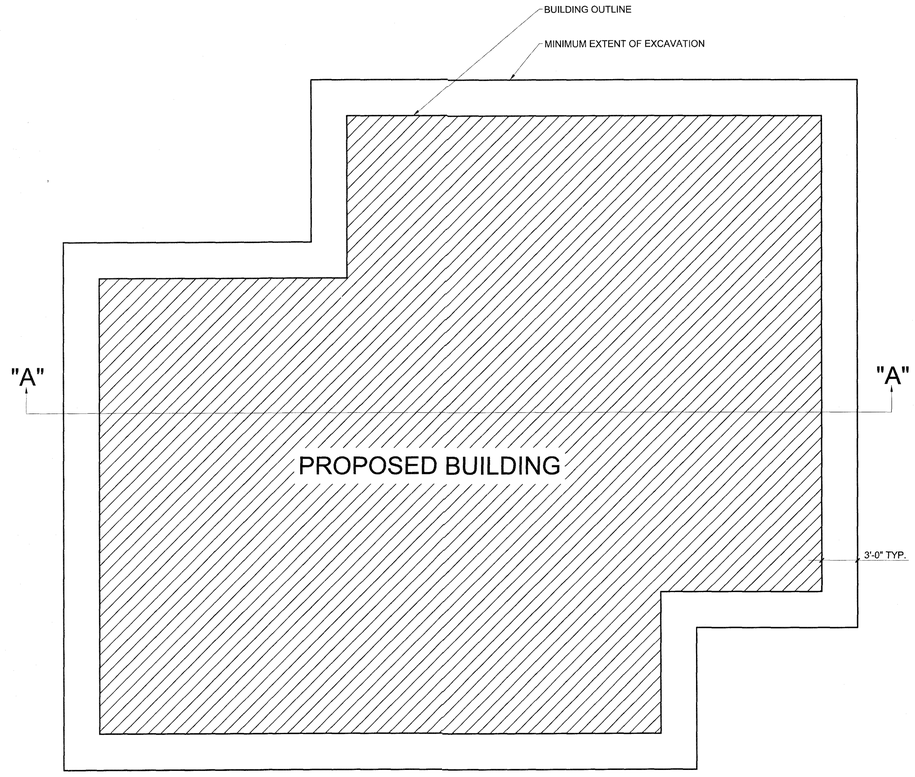
PLAN NORTH

PROFILE

SCALE: NTS



EXCAVATION NOTES

1. CONSTRUCTION AREAS REMOVE AT LEAST 24 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE PROPOSED BUILDING LINE.

2. EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOF ROLLED IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONE. 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 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED FROM THE ASTM D698 COMPACTION TEST. THE MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN THE OPTIMUM TO 3% ABOVE.

3. FILL BACK TO REQUIRED GRADE (A MINIMUM OF 24" OF SELECT FILL IS 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. LIQUID LIMIT SHALL BE LESS THAN OR EQUAL TO 40%.
   B. PLASTICITY INDEX SHALL BE LESS THAN 20 AND GREATER THAN 7.
   C. SHALL CONTAIN NO ORGANIC MATERIAL.
   D. SHALL CONTAIN NO STONES LARGER THAN 2 INCHES.

5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 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 LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, OR ABOVE 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. 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.

9. IF 3' PERIMETER OVER EXCAVATION IS NOT COVERED BY CONCRETE FLATWORK, PROVIDE 18" THICK CLAY CAP IN OVER EXCAVATED ZONE. CLAY CAP SHOULD BE SLOPED AWAY FROM THE FOUNDATION AT A MINIMUM SLOPE OF 2%, AND SURROUNDING AREAS SHOULD HAVE POSITIVE DRAINAGE. THE LOW PERMEANCE CLAY CAP SHALL MEET THE USCS CLASSIFICATION OF CH OR CL WITH A MINIMUM P.I. OF 20, A MINIMUM OF 50% BY WEIGHT PASSING THE NO. 200 SIEVE, AND SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM TO 4% ABOVE THE OPTIMUM MOISTURE.

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.

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PLAN NORTH

EXCAVATION PLAN

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EXCAVATION PLAN
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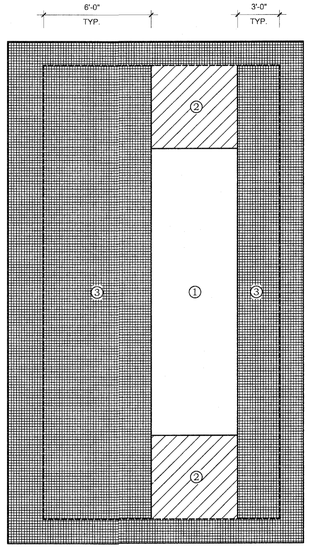

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PLAN NORTH

HIGH ROOF UPLIFT PLAN
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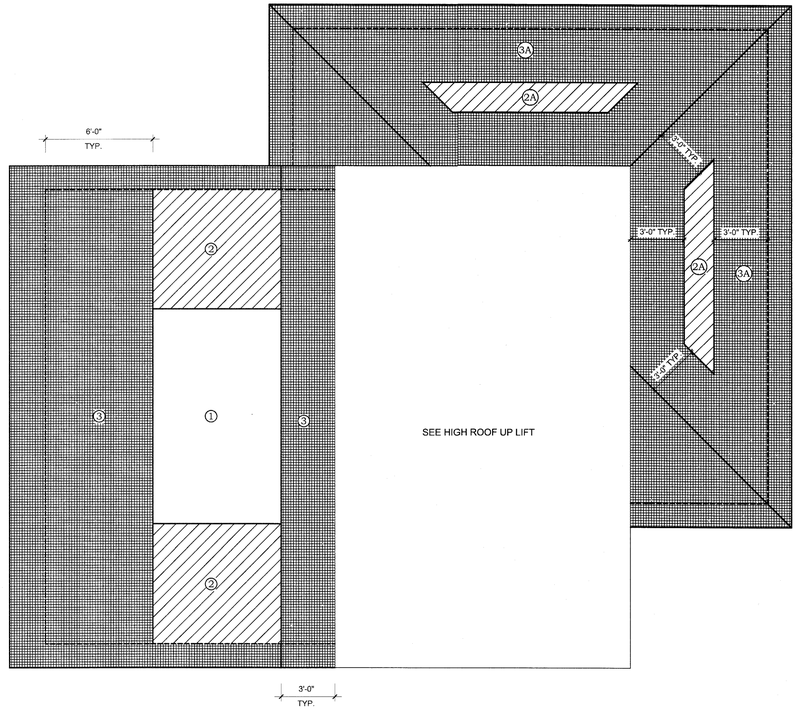

ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	1	26.0 psf	19.0 psf
20	1	26.0 psf	19.0 psf
50	1	26.0 psf	19.0 psf
10	2	42.4 psf	36.4 psf
20	2	42.4 psf	36.4 psf
50	2	27.5 psf	21.5 psf
10	3	62.8 psf	56.8 psf
20	3	41.6 psf	35.6 psf
50	3	27.5 psf	21.5 psf

ALLOWABLE STRESS DESIGN (PORCH)

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	2A	35.6 psf	29.6 psf
20	2A	35.6 psf	29.6 psf
50	2A	35.6 psf	29.6 psf
10	3A	55.6 psf	49.6 psf
20	3A	49.6 psf	43.6 psf
50	3A	41.6 psf	35.6 psf

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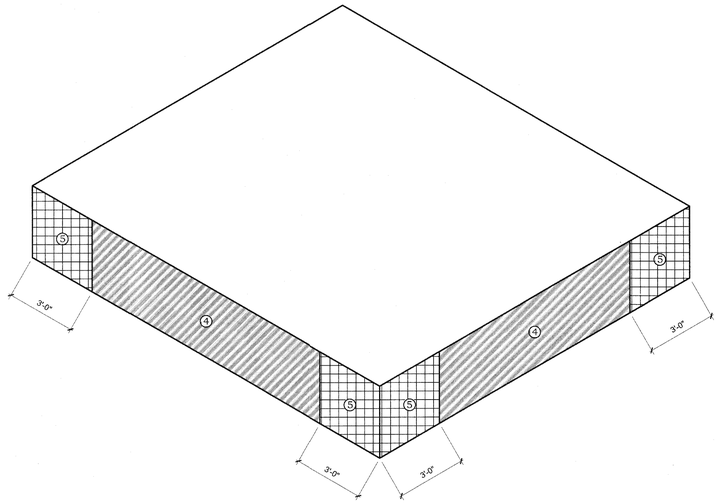
PLAN NORTH

LOW ROOF UPLIFT PLAN
SCALE: NTS



ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	4	26.1 psf
20	4	25.0 psf
50	4	23.6 psf
10	5	32.2 psf
20	5	30.1 psf
50	5	27.2 psf

COMPONENTS AND CLADDING
SCALE: NTS

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ROOF UPLIFT/COMPONENTS AND CLADDING
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HIDALGO, TEXAS

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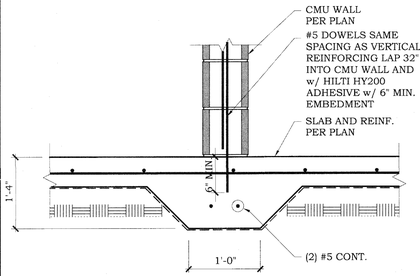
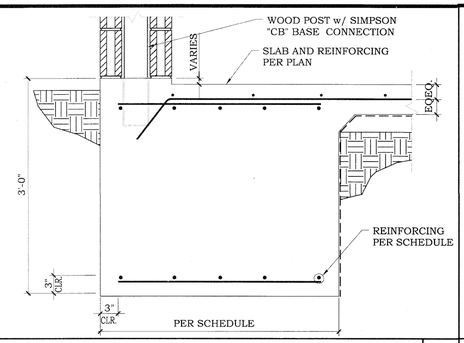
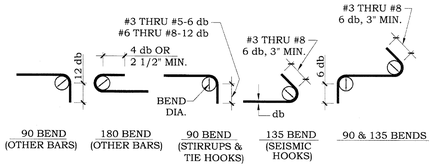
NOT USED 17



THICKENED SLAB AT NON BEARING CMU WALL 13

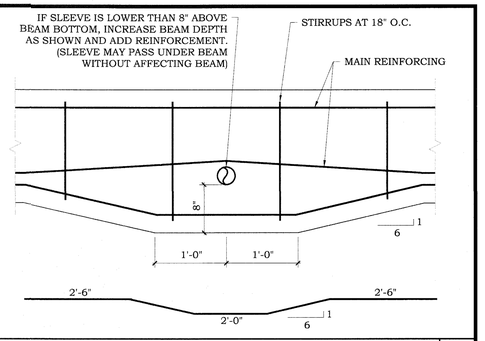


EXTERIOR FOOTING 9



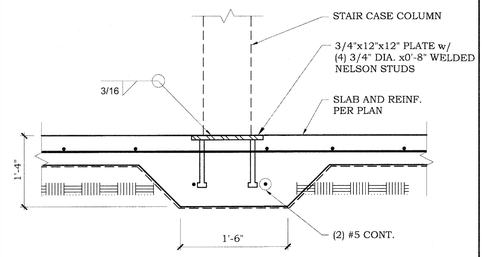
DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

STANDARD HOOKS 5

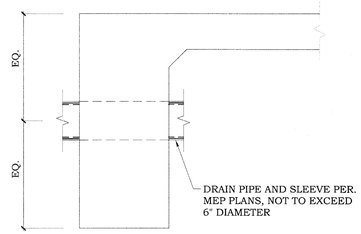


TYPICAL SLEEVE IN GRADE BEAM 1

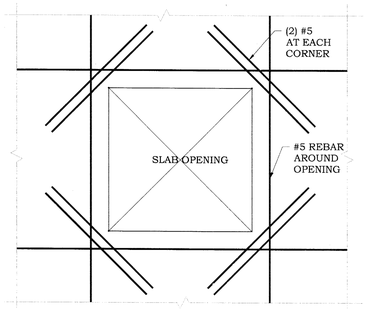
NOT USED 18



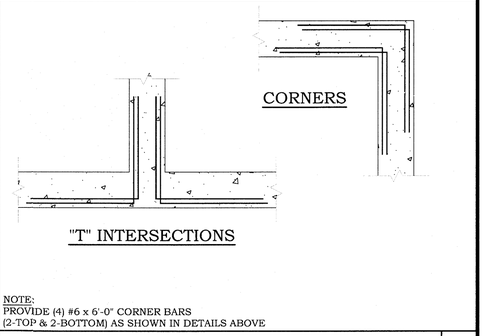
THICKENED SLAB AT EXISTING SPIRAL STAIR CASE 14



PIPE EXTERIOR FOOTING 10



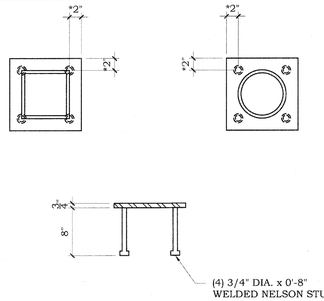
OPENINGS IN SLAB 6



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

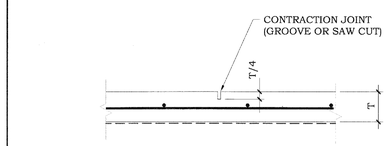
TYPICAL CORNER BARS 2

NOT USED 19



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

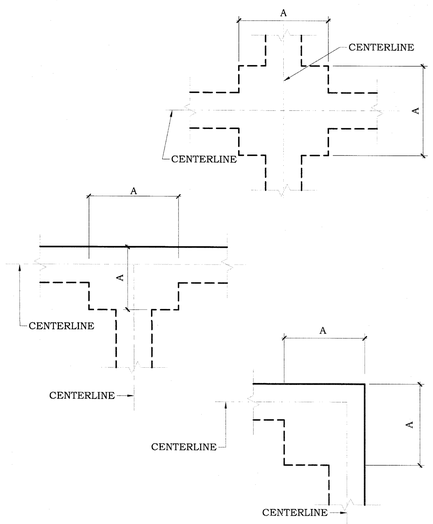
BASE PLATE DETAIL 15



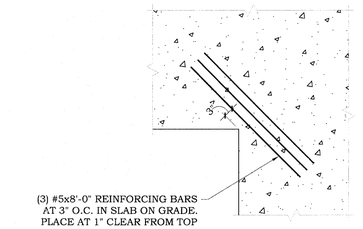
1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

CONTRACTION JOINT DETAIL 11

FOOTING SCHEDULE AT STEEL COLUMNS			
TYPE	A	DEPTH	REBAR REINFORCEMENT
S3	3'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM



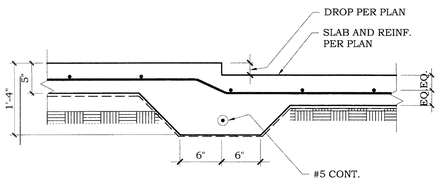
FOOTING SCHEDULE 8



TYPICAL SLAB REINFORCING 3

20

NOT USED 16



DROP AT SLAB ON GRADE 12

FOOTING SCHEDULE 8

CHANIN ENGINEERING, LLC
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McAllen, Texas 78504
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18230
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416 E. DOVE AVENUE McALLEN, TEXAS 78504
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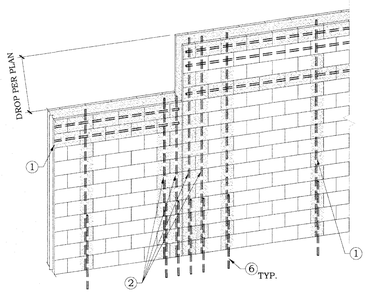
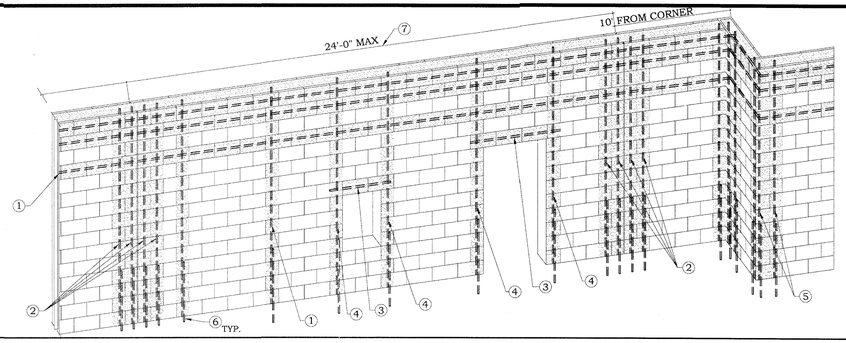
TBPE FIRM No. F-1295

TYPICAL DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

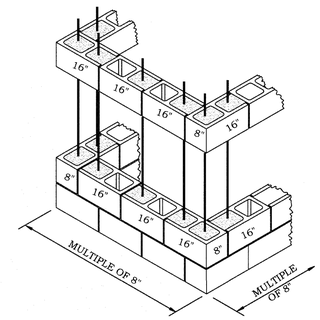
SHEET
S2.0

1. TYPICAL WALL REINFORCING AS CALLED OUT IN PLANS AND GENERAL NOTES.
2. VERTICAL REINFORCING AT CONTROL JOINTS, REFER TO DETAIL 8/S2.1
3. LINTELS PER LINTEL SCHEDULE, REFER TO DETAIL 7/S2.1
4. ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL OPENINGS
5. WALL CORNER REINFORCING, REFER TO DETAIL 1,2,3/S2.1
6. DOWELS TO MATCH VERTICAL REINFORCEMENT PER PLAN, TYPICAL
7. CONTROL JOINT SPACING AS NOTED IS MAXIMUM ALLOWED, COORDINATE CONTROL JOINT LOCATIONS w/ARCHITECTURAL PLANS.



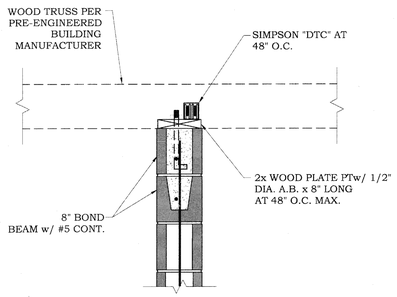


TYPICAL CMU WALL CONSTRUCTION | 5

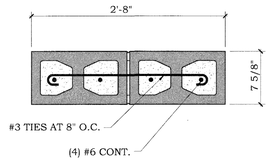


TYPICAL CMU CORNER DETAIL | 1

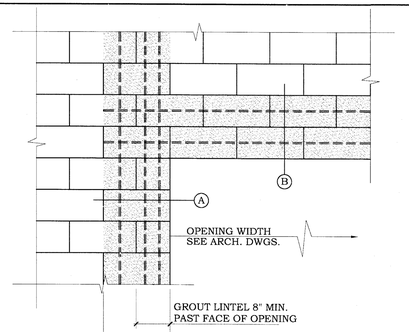
NOT USED | 18



CMU WALL TO WOOD TRUSS | 14

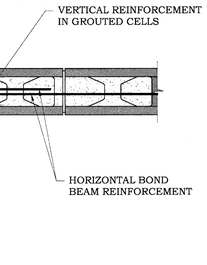


8" PILASTER "P1" | 10



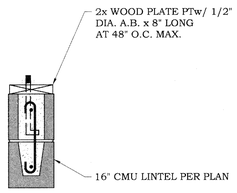
LINTEL SCHEDULE					
CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1)#5		
<4'-8"	8"	16"	(1)#5 (T) & (B)	8"	
<6'-8"	8"	16"	(1)#6 (T) & (B)	8"	
<10'-0"	8"	24"	(1)#6 (T) & (B)	8"	
<12'-0"	8"	24"	(1)#7 (T) & (B)	8"	

LINTEL SCHEDULE | 7

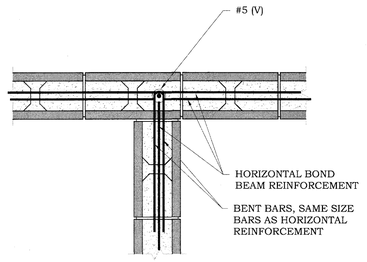


TYPICAL BOND BEAM CORNER | 2

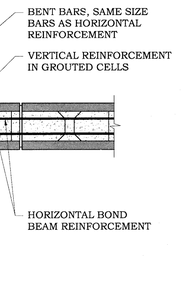
NOT USED | 19



16" CMU LINTEL | 15



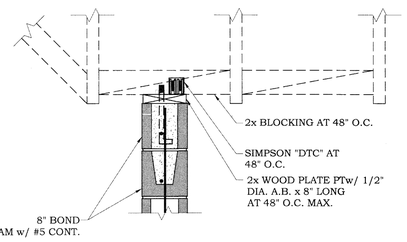
TYPICAL BOND BEAM INTERSECTION | 11



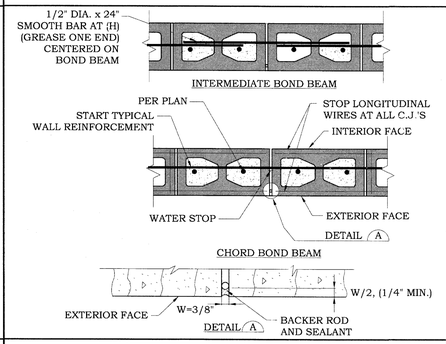
TYPICAL BOND BEAM CORNER | 3

NOT USED | 20

NOT USED | 16



CMU WALL TO WOOD TRUSS | 12



CMU CONTROL JOINT (C.J.) | 8

CHANIN ENGINEERING, LLC
TBPE FIRM REG. NUMBER F-9269
PH: (956) 687-9421
FAX: (956) 687-3211
400 Nolana, Suite H2
McAllen, Texas 78504
www.chaninengineering.com

REVISIONS		

18230
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SEPTEMBER, 2018
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L.R.
DRAWN BY
M.C.
CHK. BY

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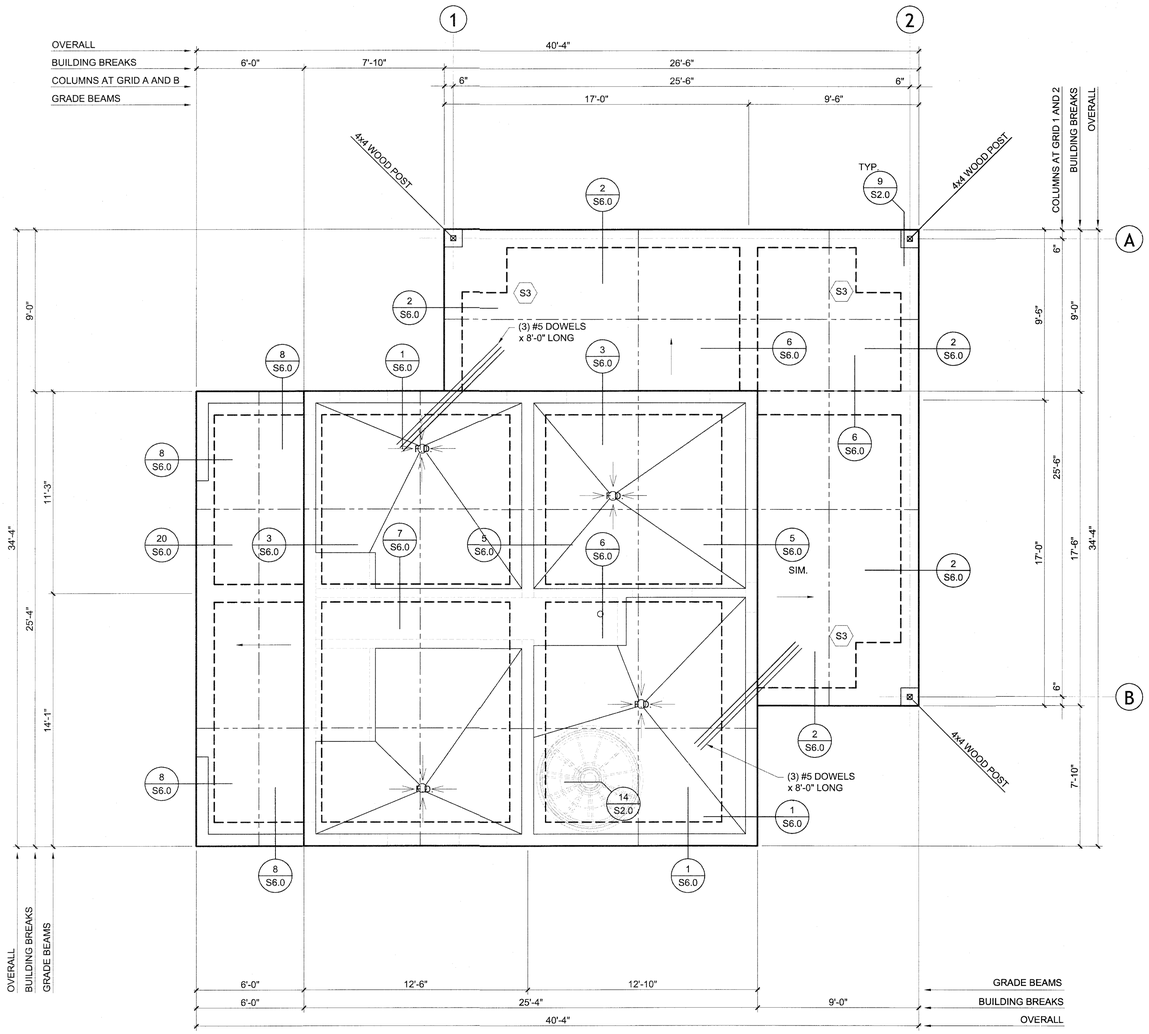
CONSULTING ENGINEERS
416 E. DOVE AVENUE McALLEN, TEXAS 78504
PHONE (956) 668-1588
javhin@rgv.rr.com
TBPE FIRM No. F-1295

TYPICAL DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
S2.1



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 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 8/S2.0
5. FOR THICKENED SLAB UNDERNEATH ALL CMU WALLS SEE 13/S2.0.

FOUNDATION PLAN

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

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
9-10-18

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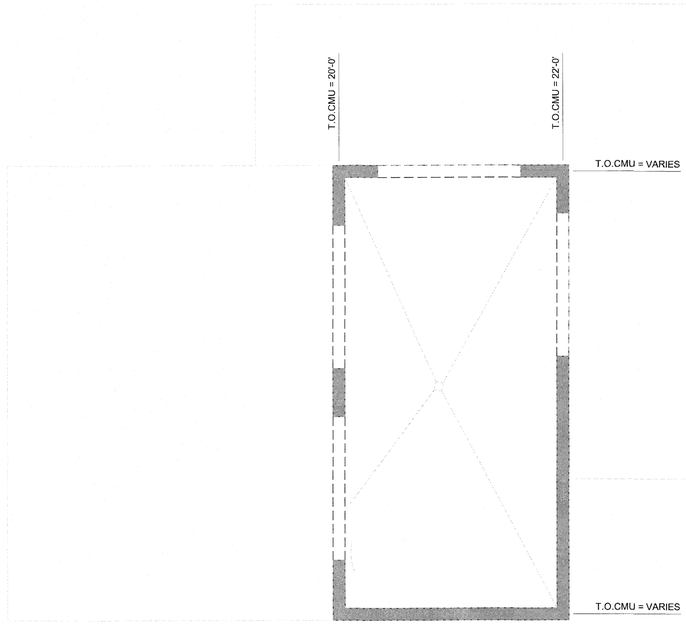
FOUNDATION PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
S3.0

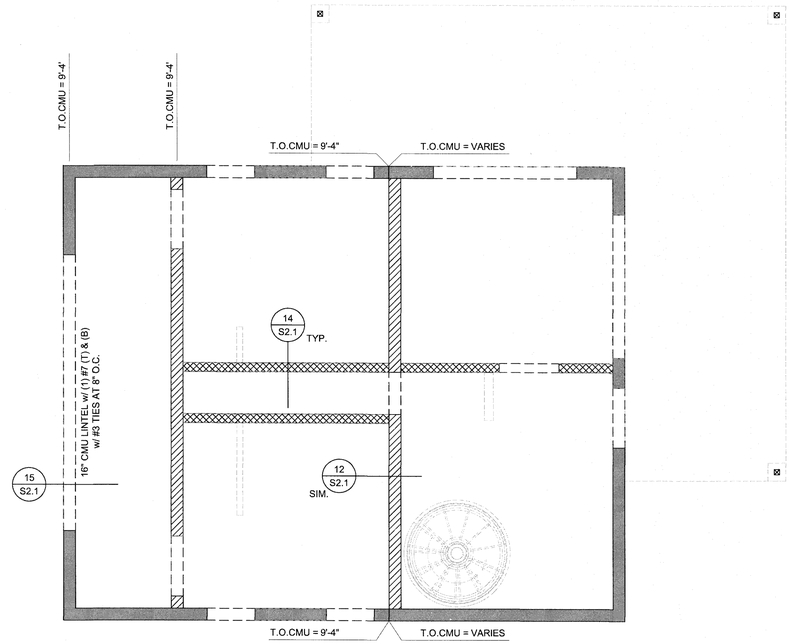


CMU WALL LAYOUT NOTES:

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 CMU WALL CONSTRUCTION SEE SHEET S2.1
3. FOR TYPICAL ATTACHMENT AT THE TOP OF ALL INTERIOR CMU WALLS (INCLUDING THOSE NOT SHOWN ON THIS PLAN) SEE DETAILS 12,14/S2.1.
4. INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 40" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
5. INDICATES INTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
6. INDICATES INTERIOR 6" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
6. INDICATES LINTEL, SEE DETAIL 7/S2.1.
7. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
8. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
9. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN CMU WALLS.
10. FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
11. PROVIDE CMU LINTEL OVER ALL MECHANICAL SYSTEM PENETRATIONS IN CMU WALL. COORDINATE WITH MEP DRAWINGS FOR ALL LOCATIONS.
12. 6" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 5 5/8".
13. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".

HIGH CMU WALL LAYOUT PLAN

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



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5. INDICATES INTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
6. INDICATES INTERIOR 6" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
6. INDICATES LINTEL, SEE DETAIL 7/S2.1.
7. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
8. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
9. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN CMU WALLS.
10. FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
11. PROVIDE CMU LINTEL OVER ALL MECHANICAL SYSTEM PENETRATIONS IN CMU WALL. COORDINATE WITH MEP DRAWINGS FOR ALL LOCATIONS.
12. 6" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 5 5/8".
13. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".

CMU WALL LAYOUT PLAN

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

STATE OF TEXAS
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4-10-18

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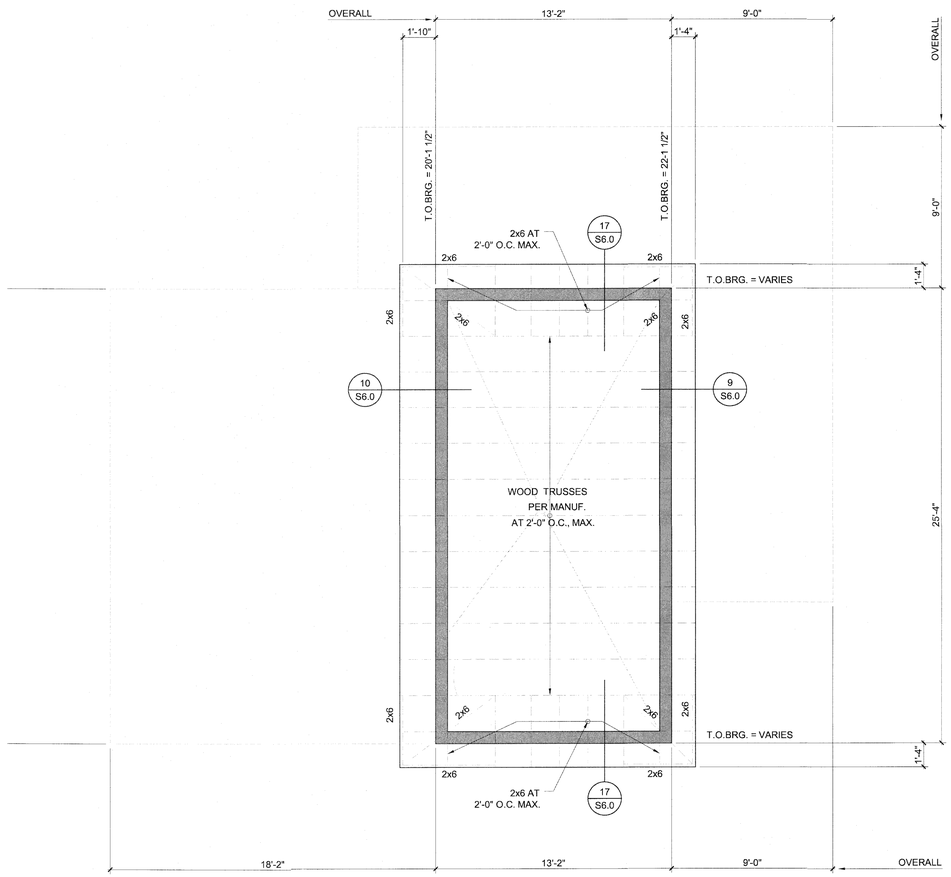
CMU WALL LAYOUIT PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
S4.0

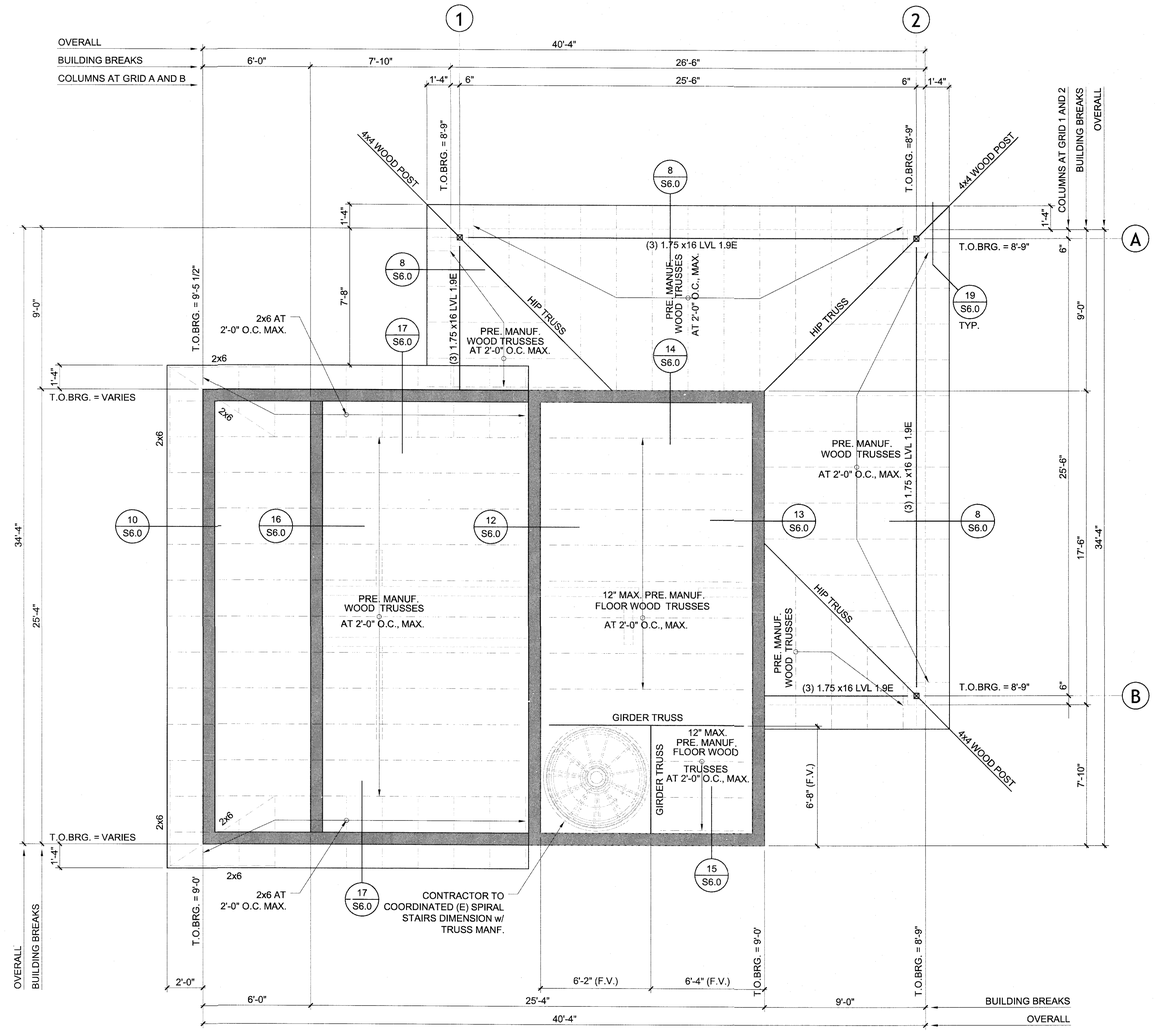


FRAMING NOTES:

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. TRUSS MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR TRUSSES .
5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".

HIGH ROOF FRAMING PLAN

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



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5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".

ROOF FRAMING PLAN/FLOOR FRAMING

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

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9-10-18

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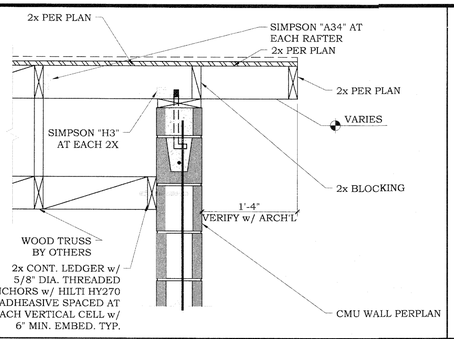
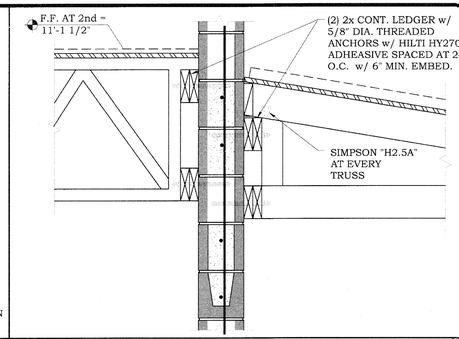
FRAMING PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

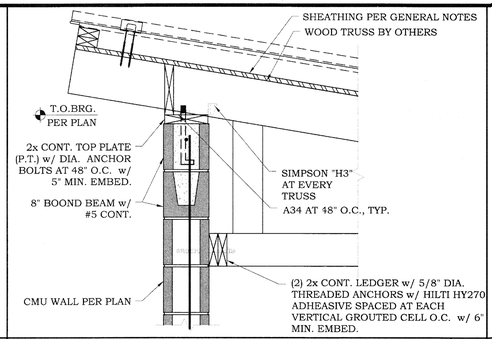
SHEET
S5.0



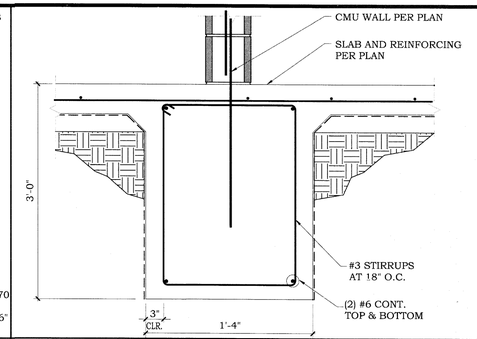
WOOD TRUSS TO CMU WALL | 17



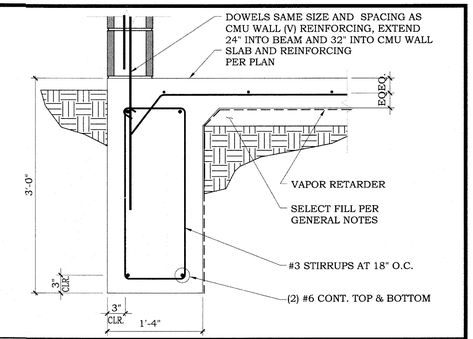
WOOD TRUSS TO CMU WALL | 13



WOOD TRUSS TO CMU WALL | 9



INTERIOR FOOTING | 5



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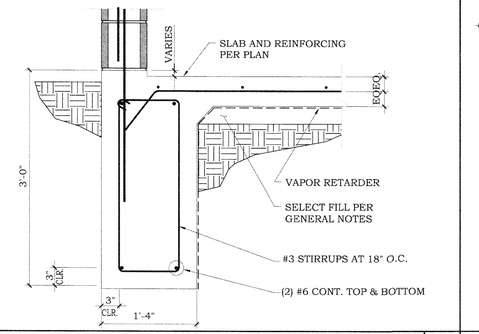

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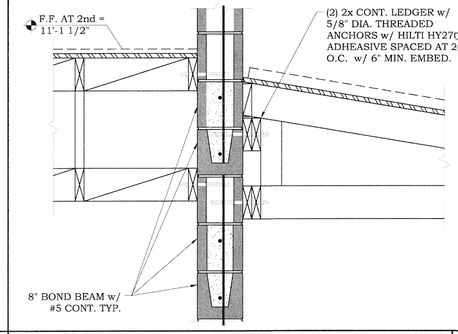
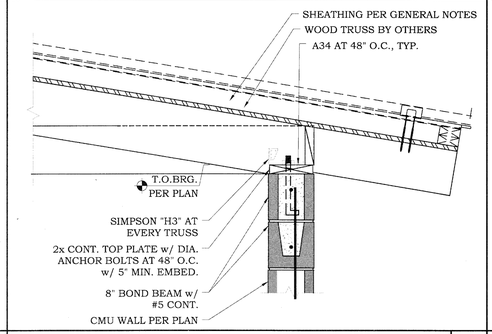
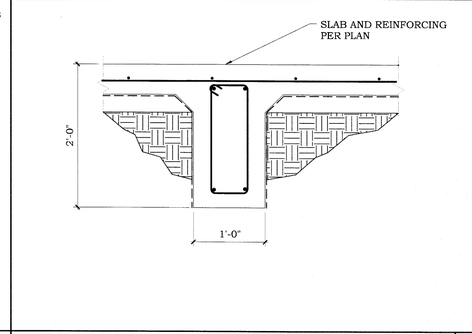


WOOD TRUSS TO CMU WALL | 14



WOOD TRUSS TO CMU WALL | 10



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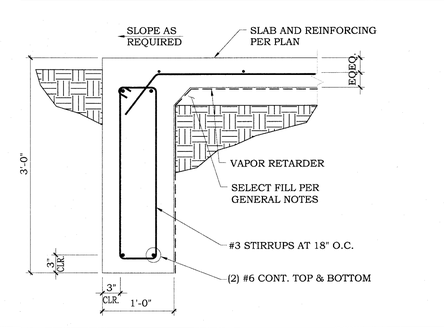

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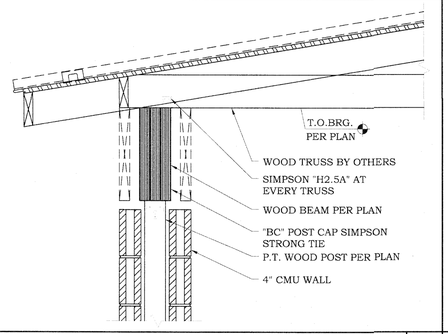
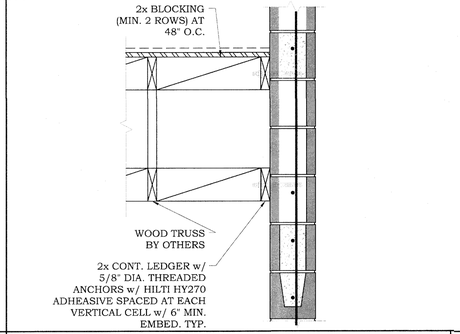


WOOD TRUSS TO WOOD BEAM | 19



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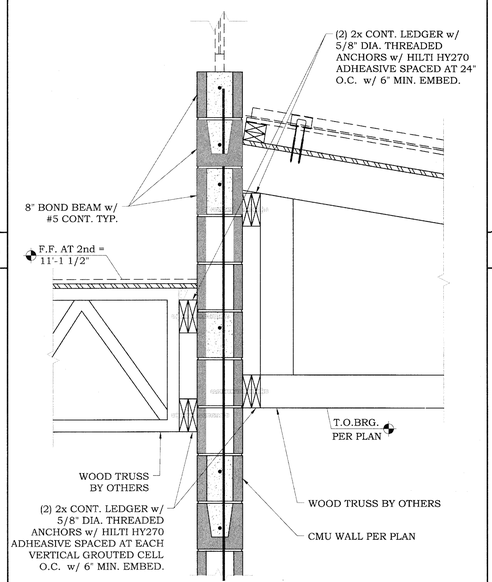

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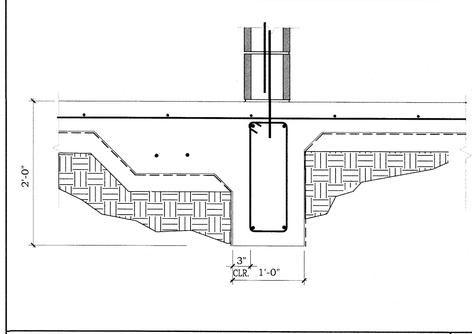

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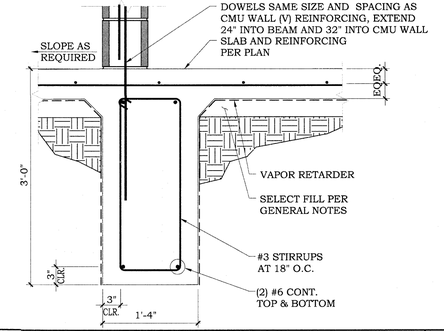

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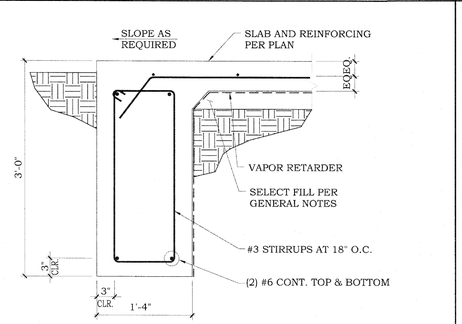

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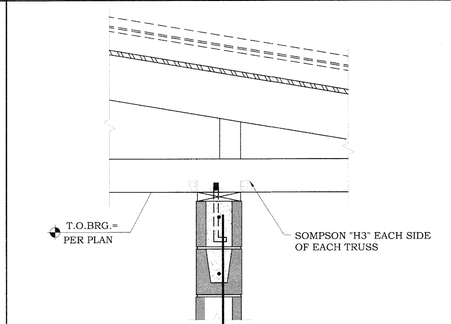
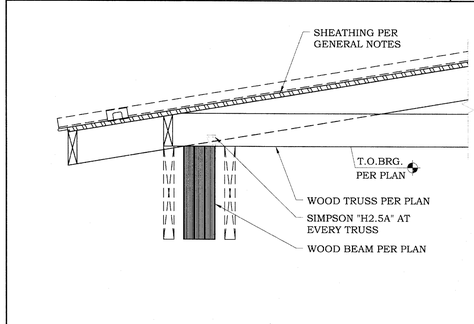


WOOD TRUSS TO CMU WALL | 16



WOOD TRUSS TO WOOD BEAM | 8

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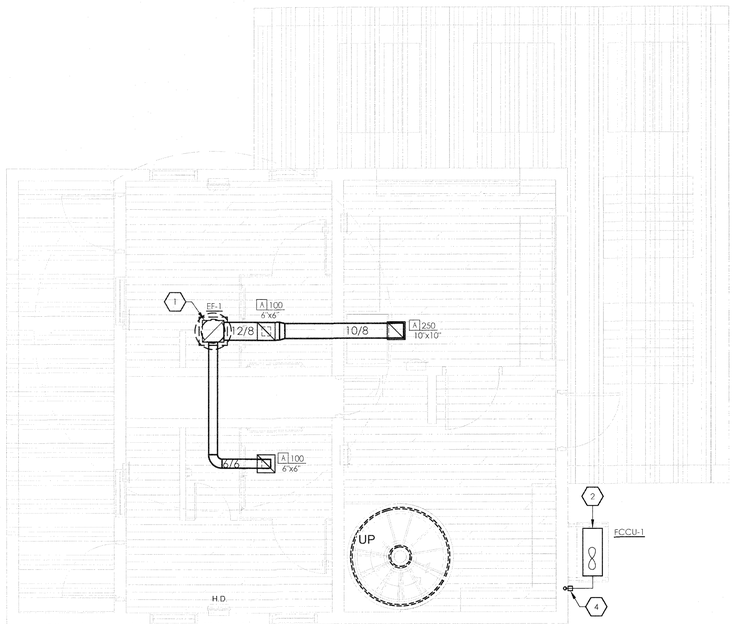
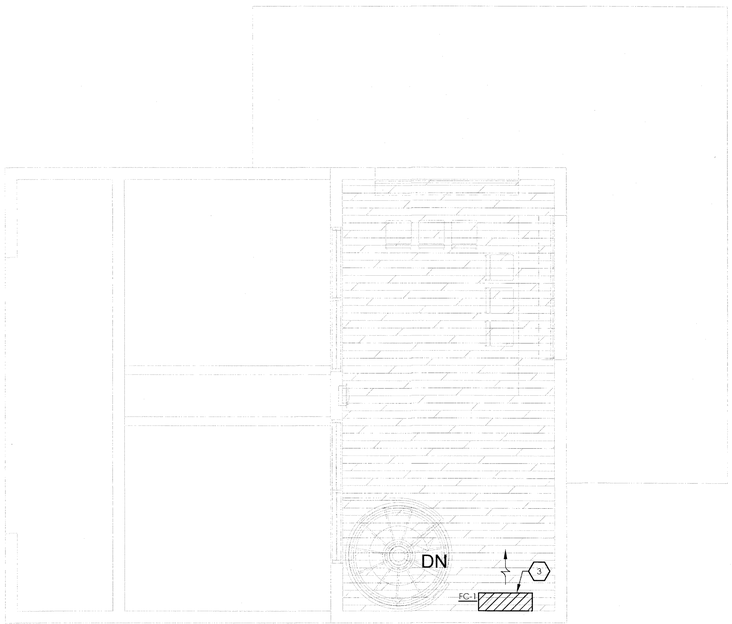
DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
S6.0



1 MECHANICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



2 MECHANICAL 2ND FLOOR PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES: MECHANICAL

1. EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
2. PLACE CONDENSING UNIT ON WALL MOUNTED BRACKETS.
3. MOUNT AIR CONDITIONING UNIT CENTERED ABOVE DOOR. REFER TO PLUMBING PAGES FOR CONDENSATE ROUTING.
4. PROVIDE W/ REFRIGERANT LINE WALL PENETRATION HOUSING/PANEL EQUAL TO "WALL VAULT" MADE BY "ROOF PENETRATION HOUSINGS, LLC". WALL PANEL TO BE SIZED TO ACCOMMODATED REFRIGERANT LINES & CONDUIT. COORDINATE W/ ELECTRICAL. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE TITLED WITH LOCK-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SCORED TO PREVENT UNAUTHORIZED ACCESS.

09/10/18

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			DRAWN BY — —
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MECHANICAL FLOOR PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET M1.0

GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL 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/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH 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 AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) 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.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) 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 8000 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

(7) 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 ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) 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 NFFA 90A AND 90B,(NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS)(NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) 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.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

(13) PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT, DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER, SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

(15) **FILTER INSTALLATION AND REPLACEMENT**

A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR HANDLERS DURING CONSTRUCTION.

B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING FLUSH-OUT.

1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS.
2. REPLACE SUPPLY FILTERS.

MECHANICAL SYMBOL LEGEND

CFM; TAG: A 325(2); NECK SIZE: 10"Ø(D); QUANTITY; OPPOSED BLACE DAMPER	
CONICAL DUCT SPIN TAP; FLEXIBLE DUCT; ROUND SHEET-METAL DUCT; BALANCING DAMPER	
8/ MH107	DETAIL NUMBER; SHEET NUMBER
	PERFORATED INNER METAL LINER, WHERE INDICATED (DOUBLE WALL); HIDDEN DUCT (FOR CLARITY)
	SUPPLY AIR GRILLE; SUPPLY AIR GRILLE-SLOT DIFFUSER
	RETURN AIR GRILLE ALL RETURN AIR DUCT DROPS TO INCLUDE A MANUAL DAMPER
T, S, H	THERMOSTAT TEMPERATURE SENSOR TEMPERATURE OVERRIDE SENSOR/SWITCH
FD / FSD	FIRE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR FIRE/SMOKE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR
	FLOW DIRECTION
	PIPE DROP
	PIPE RISE
	RETURN AIR DUCT RISE/DROP
	SUPPLY AIR DUCT RISE/DROP
	WALL OR FLOOR SLEEVE
	CHILLED WATER SUPPLY/RETURN PIPING
SQUARE / ROUND	SQUARE TO ROUND DUCT TRANSITION

MECHANICAL ABBREVIATIONS

A/C	AIR CONDITIONED
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CLG	CEILING
CWP	CONDENSER WATER PUMP
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CL	CENTER LINE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
F	DEGREES FAHRENHEIT
FC	FAN COIL
FD	FIRE DAMPER W/ DUCT ACCESS DOOR
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HR	HEAT PUMP (WATER SOURCE)
HR	HOUR
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWP	HOT WATER PUMP
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IN	INCHES
INSUL	INSULATION
IN WG	INCHES OF WATER
KW	KILOWAT(S)
LAT	LEAVING AIR TEMPERATURE
LB	POUND
L	LOUVER
MAX	MAXIMUM
MBD	MANUAL BALANCING DAMPER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MS	MOTOR STARTER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAH	OUTSIDE AIR INTAKE HOOD
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
P	PUMP
PBD	PARALLEL BLADE DAMPER
PP	PRIMARY CHILLED WATER PUMP
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
R	RETURN (AIR DEVICE)
RA	RETURN AIR
RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01
RET	RETURN
RH	RELATIVE HUMIDITY
RHD	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SUPPLY (AIR DEVICE)
SA	SUPPLY AIR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SEC	SECOND
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SF	SQUARE FOOT
STD	STANDARD
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UF	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
VEL	VELOCITY
VENT	VENTILATE
VF	VENTILATION FAN
VOL	VOLUME
VOLT	VOLTAGE
W	WIDE, WIDTH
W/	WITH
WB	WET BULB
W/O	WITHOUT

H.V.A.C. SYSTEM — SECTION 15500

THE WORK INCLUDES PROVIDING THE HVAC SYSTEMS, INCLUDING DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, CONTROLS, AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING;

- HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
- SUPPLY AND RETURN DUCTWORK SYSTEMS WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT.
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
- CONTROLS AND WIRING FOR CONNECTION TO LANDLORD'S FIRE-SMOKE ALARM SYSTEM (WHERE APPLICABLE).

THE CONTRACTOR SHALL COORDINATE ALL NEW DUCTWORK INCLUDING DUCTWORK INSULATION AND REINFORCING WITH EXISTING DUCTWORK AND DUCTWORK ANGLE BRACING SUCH THAT THE NEW DUCTWORK WILL FIT WITHIN THE SPACE LIMITATIONS OF THE PROJECT.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE A MINIMUM OF 3/4" COPPER TYPE "L" PIPE. ALL CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION SIMILAR TO ARMAFLEX 2000.

THE DESIGN, SELECTION, SPACING AND APPLICATION OF HORIZONTAL PIPE HANGERS, SUPPORTS, RESTRAINTS, ANCHORS AND GUIDES SHALL BE IN ACCORDANCE WITH THE STANDARD CODE FOR PRESSURE PIPING ANSI B31.1 AND THE LATEST EDITION OF THE MANUFACTURERS' STANDARDIZATION SOCIETY STANDARDS MSS SP- 69, "PIPE HANGERS AND SUPPORTS--SELECTION AND APPLICATION".

PROVIDE PIPE COVERING PROTECTION SHIELDS AND SADDLES FOR ALL INSULATED PIPING AT THE LOCATIONS OF ALL SUPPORTS. THE PROTECTION SHIELD LENGTH AND GAUGE THICKNESS FOR USE AT EACH CLEVIS HANGER SHALL BE AS SPECIFIED FOR TYPE 40 PROTECTION SHIELDS IN THE CURRENT EDITION OF MSS SP-69. PROTECTION SHIELDS SHALL BE GALVANIZED AND SHALL BE ARRANGED TO COVER ONE-HALF OF THE CIRCUMFERENCE OF THE INSULATION AND SHALL BE MOUNTED ON THE OUTSIDE OF THE INSULATION WITH INSULATION BLOCKING BETWEEN THE PIPE AND SADDLE TO PREVENT CRUSHING OF THE INSULATION. INSULATION BLOCKING SHALL BE UP JOHN 2 POUND HIGH DENSITY MOLDED URETHANE OR SEGMENTED MACHINERY CORK DIPPED IN HOT ASPHALT VAPOR SEAL OF NOT LESS THAN THE SAME LENGTH AND CIRCUMFERENCE AS THE PIPE PROTECTION SHIELD.

ALL HANGERS, HARDWARE, RODS, CLAMPS, CHANNELS, BASE PLATES, ANGLES, BOLTS, NUTS AND OTHER FACTORY-BUILT OR SHOP FABRICATED PIPE SUPPORT DEVICES SHALL BE GALVANIZED OR CADMIUM PLATED UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SHOP FABRICATED AND WELDED STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ALL CONCRETE INSERTS FOR HANGER RODS SHALL BE NATIONAL PIPE HANGERS CORPORATION FIGURE 606 WITH FIGURE 607, OR GRINNELL FIGURE 282, FIGURE 152, OR APPROVED EQUAL. METAL DECK CONCRETE INSERT SHALL BE F & S MANUFACTURING CORPORATION FIGURE 282, GALVANIZED FABRICATED STEEL METAL DECK CEILING BOLT, PHILLIPS RED HEAD, OR APPROVED EQUAL. HANGER RODS, INSERTS, ETC., SHALL BE SIZED AND INSTALLED AS RECOMMENDED BY THE HANGER MANUFACTURER FOR THE SERVICE INTENDED.

FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING DUCTWORK AND PIPING PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS, AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE LANDLORD, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE AN ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED, AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWING ARE SHEET METAL DIMENSIONS ON UNLINED DUCTS (INTERIOR DIMENSIONS).

SHEET METAL DUCTWORK: SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED TO MEET ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30".

DUCT SHALL BE EXTERNALLY WRAPPED W/ 2" FIBERGLASS BLANKET INSULATION.

RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEETMETAL COMPLYING WITH SMACNA.

FIBERGLASS DUCT BOARD IS AN ACCEPTABLE W/ PRIOR WRITTEN OWNER PERMISSION. MINIMUM R-VALUE OF 5 REQUIRED FOR CONDITIONED SPACES AND MINIMUM R-VALUE OF 8 FOR UNCONDITIONED SPACES.

FLEXIBLE DUCT CONNECTOR: WHERE INDICATED PROVIDE U.L. LABELED 30oz. NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

GRILLES AND DIFFUSERS: PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

PROVIDE WHERE APPLICABLE, DUCT MOUNTED SUPPLY AND/OR RETURN AIR PHOTOELECTRIC TYPE UL LISTED SMOKE DETECTORS. DETECTORS SHALL BE LISTED FOR THE AIR VELOCITIES ENCOUNTERED. PROVIDE INTERLOCK WIRING AND RELAYS FOR UNIT SHUT DOWN. ON ACTIVATION OF ANY DETECTOR, ALL HVAC UNIT FANS SHALL STOP.

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC REGISTERED CONTRACTOR. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM, AND SUBMIT COMPLETED TEST

EXPOSED ROUND (SPIRAL) DUCT TO BE INTERNALLY LINED. SUPPLY DUCTWORK SHALL BE LINED W/1" INSULATION. RETURN/EXHUAST/VENTILATION DUCT TO BE LINED W/1/2" INSULATION. CONCEALED ROUND DUCT TO BE EXTERNALLY INSULATED. USING R-5 INSULATION MIN FOR CONDITIONED SPACES (WHERE PLENUM RETURN IS USED) OR R-8 INSULATION MIN FOR UNCONDITIONED SPACES.

09/10/18

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			PROJECT No. SEPTEMBER, 2018
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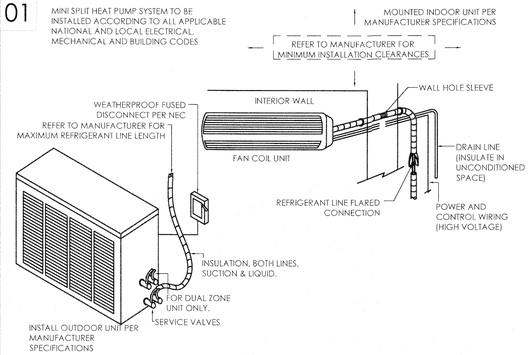
MECHANICAL LEGEND
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET M2.0

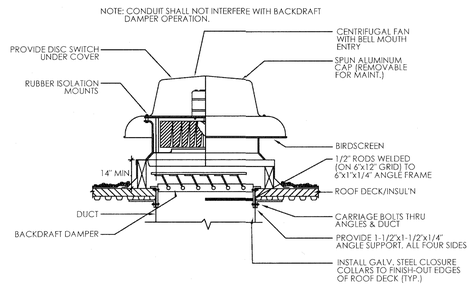
01



MINI SPLIT UNIT - CONDENSER AND EVAPORATOR

NO SCALE

02



ROOF MTD. EXHAUST FAN

NO SCALE

03

04

DX MINI-SPLIT SCHEDULE

INDOOR UNIT TAG	FC-1
SERVES	PRESS BOX
LOCATION	WALL
UNIT TYPE	HEAT PUMP
FAN PROPERTIES	
MIN SUPPLY (CFM)	700
MINIMUM O/A (CFM)	0
UNIT CAPACITIES	
ENTERING AIR (DB/WB)	74/62
TOTAL CAPACITY (BTUH)	24,000
HEATING CAPACITY (BTUH)	24,000
UNIT DETAILS	
VOLTAGE/PHASE	208/1
MANUFACTURER	DAIKIN
MODEL NO.	FTX24
MAX WEIGHT (LBS)	50

CONDENSING UNIT TAG	FCCU-1
DETAILS	
VOLTAGE/PHASE	208/1
MCA/MOCP	19/20
AMB. AIR TEMP. (CLG°F/HTG°F)	100/33
REFRIGERANT	R-410A
COOLING MODE OPER. RANGE	15°F - 110°F
HEATING MODE OPER. RANGE	N/A
MANUFACTURER	DAIKIN
MODEL NO.	RX24
MAX WEIGHT (LBS)	125
MIN COOL/HEAT EFFICIENCY	18 SEER/9 HSPF
MIN EQUIV. LINE LENGTH (FT)	95
MIN VERTICAL RISE (FT)	65
CONTROL TYPE	WL-RC
NOTES	ALL

NOTES:
01. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT & WIRE TO INDOOR UNIT.
02. WIRELESS REMOTE CONTROLLER.
03. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF REQUIRED.
04. SEE PLUMBING FOR CONDENSATE ROUTING.
05. CONTRACTOR TO PROVIDE CONCRETE PAD TO ANCHOR CONDENSER TO.
06. CONTRACTOR TO PROVIDE LINE SETS.
07. SIGHT GLASSES, FILTER DRYERS, & FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON THIS EQUIPMENT.
08. INSTALL PER MANUFACTURERS INSTRUCTIONS & PIPING RECOMMENDATIONS.

FAN SCHEDULE

TAG	EF-1
SERVICE	RRs & CONCESSIONS
LOCATION	ROOF
FAN PROPERTIES	
CFM	700
FAN RPM	1638
EXT SP (IN WG)	0.5
FAN POWER	1/6 HP - ECM
VOLTS/PHASE	120/1
SOUND LEVEL	9.8 SONES
MOUNTING	14" TDI CURB
MANUFACTURER	GREENHECK
MODEL	G-095-VG
MAX WEIGHT	50 lbs
NOTES	ALL

NOTES:
01. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
02. INTERLOCK FAN W/ LIGHTS.
03. PROVIDE W/ BACKDRAFT DAMPER.
04. PROVIDE W/ EC MOTOR & FAN MOUNTED SPEED CONTROLLER.
05. PROVIDE W/ LIFTING LUGS.
08. PROVIDE IBC 2015 COMPLIANT CURB & ATTACHMENTS FROM UNIT TO CURB & CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
A) ATTACHMENT OF EQUIPMENT TO CURB.
B) CURB TO STRUCTURE.
C) CURB & ATTACHMENT HARDWARE STRENGTH.
REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS. EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 'A' & 'B' LISTED ABOVE. BOTH, THE ENGINEERED ANALYSIS & THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING & PROJECT SITE & STAMPED & SEALED BY A TEXAS LICENSED ENGINEER. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.

AIR DEVICE SCHEDULE

TAG	A
SERVICE TYPE	EXHAUST
PHYSICAL PROPERTIES	
FACE SIZE	12"x12"
NECK SIZE	10"x10"
MOUNTING SURFACE	CEILING
DETAILS AND ACCESSORIES	
DAMPER TYPE	OPPOSED BLADE
ACCESSORY	NONE
COLOR FINISH	WHITE
MATERIAL	STEEL
MANUFACTURER	PRICE
MODEL	MSL
NOTES	1

NOTES:
01. USE TAMPER RESISTANT FASTENERS.

09/10/18

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MECHANICAL DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
M3.0

1 ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1"=60'-0"

GENERAL DEMOLITION NOTES: (TO ALL SHEETS)

A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.

B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS IN ADDITION TO THE DIVISION 15 AND 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

D. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.

E. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED JUNCTION BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.

F. WHERE CONDUITS RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE NOT PART OF DEMOLITION ARE TO REMAIN UNDISTURBED, CONDUCTORS SHALL BE REMOVED AND THE CONDUITS CAPPED AND ABANDONED.

G. WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITION.

H. COORDINATE DEMOLITION OF DIVISION 16 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.

I. ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.

J. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

K. EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.

L. ALL DEVICES WITH AN "EX" SYMBOL ARE EXISTING TO REMAIN.

M. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.

KEYED NOTES: DEMOLITION

1. EXISTING POWER COMPANY PAD MOUNTED TRANSFORMER TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
2. EXISTING ELECTRICAL SERVICE EQUIPMENT TO BE REMOVED.
3. EXISTING RISER DIP POLE TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
4. EXISTING CONCESSION BUILDING SHALL BE DEMOLISHED. EXISTING LIGHTS, CONDUIT, WIRING, RECEPTACLES, WALL PLATES, DATA OUTLETS, SWITCHES SHALL BE REMOVED.
5. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PRIMARY TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.

09/10/18

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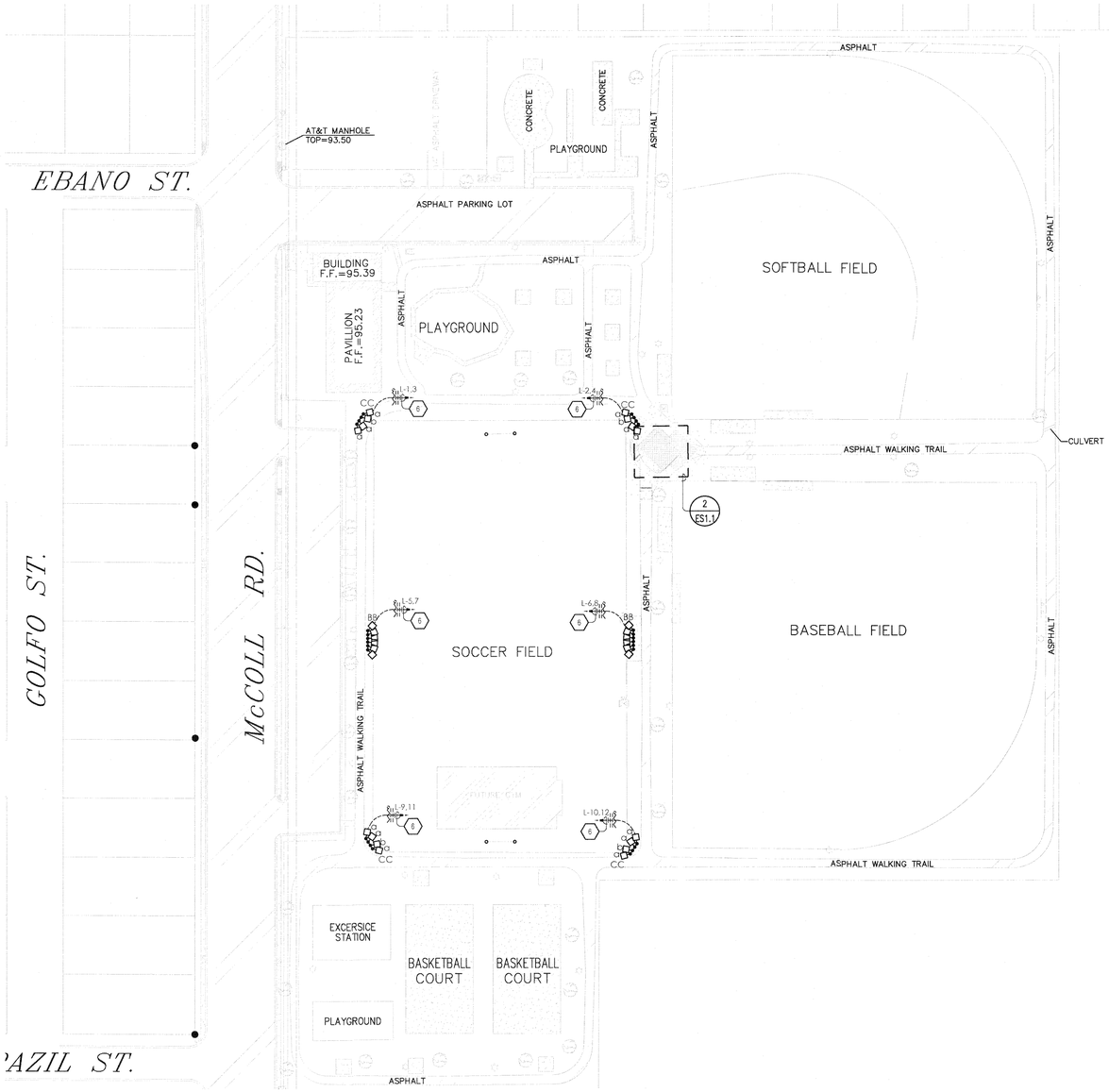
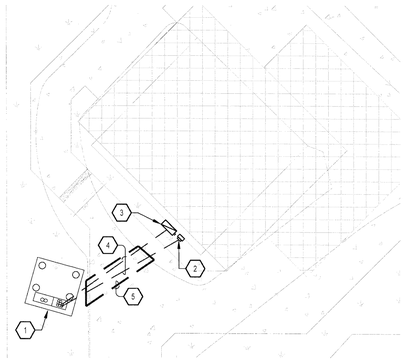
ELECTRICAL DEMOLITION SITE PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
EDS1.1



1 ELECTRICAL SITE PLAN
SCALE: 1"=60'-0"



2 ELECTRICAL SITE PLAN ENLARGEMENT
SCALE: 1"=60'-0"

GENERAL ELECTRICAL NOTES (TO ALL SHEETS)

A. CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER SERVICES AND COORDINATE WITH POWER COMPANY FOR ALL NEW REQUIREMENTS AND ALL COST ASSOCIATED. CONTRACTOR SHALL INCLUDE ANY COST FOR THE NEW TRANSFORMER AND OTHER ASSOCIATED FEES IN BID. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FEES WITH POWER COMPANY AND TO INCLUDE IN BID. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY AS SOON THE CONTRACT IS AWARDED TO ORDER TRANSFORMER AND THE RELATED ELECTRICAL SERVICE EQUIPMENT AS SOON AS POSSIBLE.

B. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.

C. CONTRACTOR TO VERIFY ALL EXISTING MAIN TELEPHONE SERVICES AND COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIREMENTS AND ALL COST ASSOCIATED, INCLUDE ALL COST IN BID. CONDUIT FROM MAIN TELEPHONE RISER SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.

E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.

F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST. TO OWNER, ARCHITECT, OR ENGINEER.

G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.

H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.

J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.

K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.

L. ALL WIRING SHALL BE COPPER.

M. ALL SLEEVES, PENETRATIONS, ETC, SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.

N. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

O. CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE WITH EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

P. CONTRACTOR IS RESPONSIBLE CALL DIG-TESS: 1-1800-DIG-TESS 2-BUSINESS DAYS IN ADVANCE.

KEYED NOTES: ELECTRICAL

1. EXISTING POWER COMPANY PAD MOUNTED TRANSFORMER.
2. NEW 120/208V, 3Ø, 4W, ELECTRICAL SERVICE METER.
3. NEW BUILDING MAIN SWITCH DISCONNECT 'MS'. PROVIDE WEATHER PROOF LABEL.
4. CONTRACTOR TO PROVIDE AND INSTALL PVC CONDUIT FROM EXISTING UTILITY TRANSFORMER TO NEW ELECTRICAL SERVICE EQUIPMENT PER POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER DIAGRAM.
5. SAW-CUT AND PATCH TO MATCH EXISTING CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
6. VIA LIGHTING RELAY PANEL 'LCP1'.

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ELECTRICAL SITE PLAN
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
ES1.1

GENERAL NOTES: LIGHTING

A. ALL EXIT FIXTURES/EMERGENCY BATTERY PACK LIGHT FIXTURE SHALL BE CONNECTED TO UNSWITCHED OR NON-DIMMING HOT LEG OF SAME VOLTAGE/PHASE OF LOCAL LIGHTING CIRCUIT IN SPACE.

B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.

C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.

D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

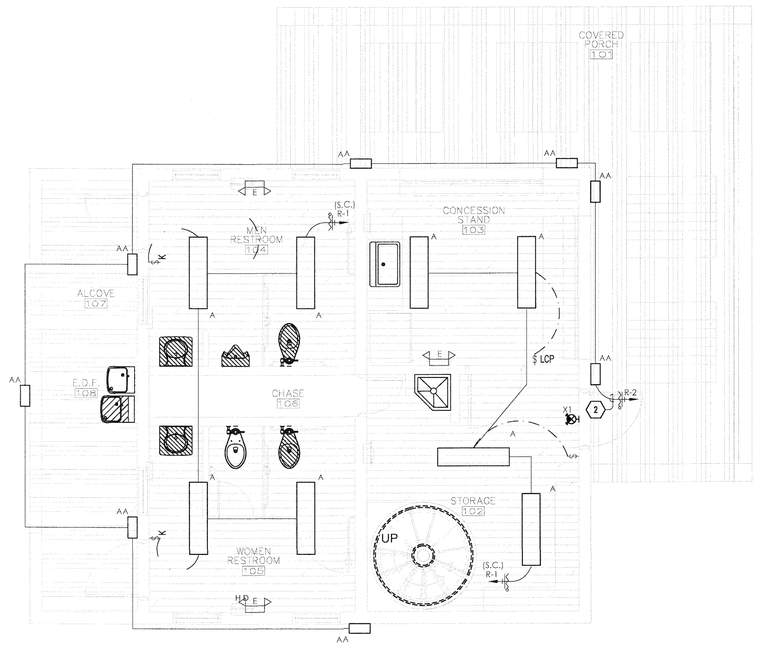
F. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "LB-8". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

G. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.

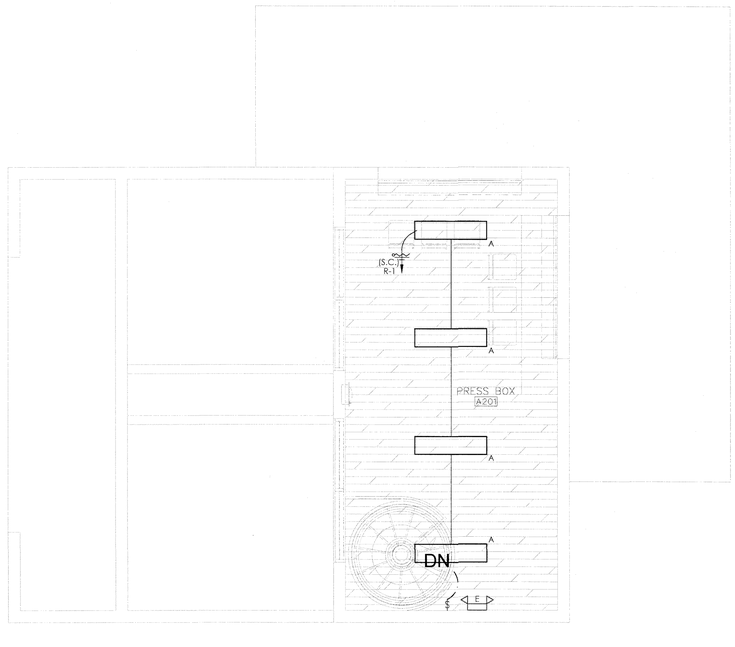
H. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.

KEYED NOTES: LIGHTING

1. 120V PHOTOCELL. LOCATE AS DIRECTED BY MANUFACTURER.
2. CONTROLLED VIA 'LCP1'



1 LIGHTING FLOOR PLAN
SCALE: 1/4"=1'-0"



2 LIGHTING 2ND FLOOR PLAN
SCALE: 1/4"=1'-0"

09/10/18

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ELECTRICAL LIGHTING FLOOR PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
E1.0

GENERAL NOTES: POWER

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.

B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.

D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.

E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.

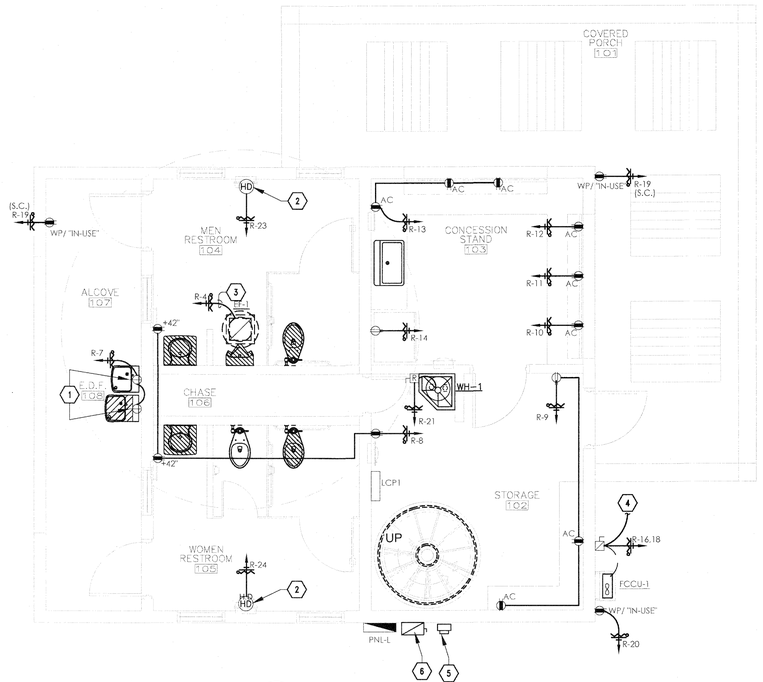
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

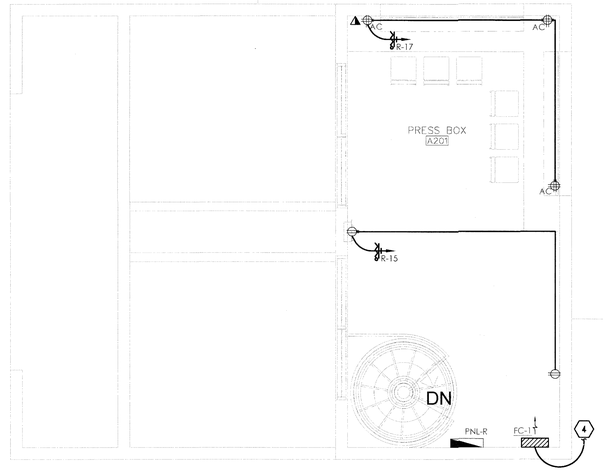
H. CONTRACTOR SHALL REFER TO EQUIPMENT SUBMITTAL FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.

KEYED NOTES: POWER

1. COORDINATE EXACT LOCATION WITH PLUMBER TO CONCEAL CORD BEHIND ELECTRIC DRINKING FOUNTAIN PRIOR TO ANY ROUGH-IN.
2. J-BOX FOR HAND DRYER CIRCUIT. PROVIDED BY CONTRACTOR. VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
3. CONTROLLED VIA 'LCP1'
4. INTERLOCK FCCU-1 WITH FC-1 H.V.A.C. EQUIPMENT. WIRING SHALL BE 3#10, 1#10G, 3/4"C.
5. NEW ELECTRICAL METER, 120/208V 3ø, 4W AT NEW LOCATION.
6. NEW ELECTRICAL DISCONNECT AT NEW LOCATION.



1 ELECTRICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



2 ELECTRICAL 2ND FLOOR PLAN
SCALE: 1/4"=1'-0"

09/10/18

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ELECTRICAL POWER FLOOR PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET E2.0

ELECTRICAL LEGEND-LIGHTING

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

SYMBOL	DESCRIPTION
	2'x4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X4' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	2'x2' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X2' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	1'X4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	TRACK LIGHT WITH HEADS AS INDICATED
	INCANDESCENT, LED, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD. REFER TO LUMINAIRE SCHEDULE
	INCANDESCENT, LED, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD. REFER TO LUMINAIRE SCHEDULE
	LED, FLUORESCENT, OR HID FIXTURE WITH EMERGENCY BATTERY PACK, CLG. OR WALL MTD. REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT SAME AS ABOVE, EXCEPT WITH AN EMERGENCY UNIT AS A COMBO, REFER TO LUMINAIRE SCHEDULE
	CEILING FAN
	STRIP UTILITY LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	STRIP UTILITY STRIP LIGHT WITH EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
$	WALL SWITCH SPST, 20A,120/277V
$2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V
$3	3-WAY WALL SWITCH, 20A,120/277V
$4	4-WAY WALL SWITCH, 20A,120/277V
$D	WALL DIMMER SWITCH
$P	WALL SWITCH SPST, 20A,120/277V - PILOT LIGHT SWITCH
$K	WALL SWITCH SPST, 20A,120/277V - KEYED SWITCH, X = 3 OR 4 WAY

ELECTRICAL LEGEND-SPECIAL SYTEMS

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

SYMBOL	DESCRIPTION	
TV	WALL MOUNTED TELEPHONE/DATA OUTLET, FURNISH AND INSTALL 1"C., WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED TELEPHONE OUTLET. FURNISH AND INSTALL 3/4"C. , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED DATA OUTLET. FURNISH AND INSTALL 1"C , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
P	PUBLIC TELEPHONE OUTLET.: J-BOX & 3/4"C	
TV TV	TELEVISION OUTLET. CLG. OR WALL MOUNTED - STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	
	PUSHBUTTON WALL MOUNTED.	
	FLOOR MOUNTED 2-DUPLEX RECEPTACLE /1GANG FOR TELE/DATA OUTLETS- FLUSH MOUNTED UNO FLOOR BOX = MFR.-WIREMOLD MODEL#RFB4-, RFB-B,RFB-DR,RFB4-LPB COVER #FPBTCBK-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR POWER OUTLETS.	
	FLOOR MOUNTED 2-DUPLEX RECEPTACLE /1GANG FOR DATA OUTLET- FLUSH MOUNTED UNO FLOOR BOX = MFR.-WIREMOLD MODEL#RFB4-, RFB-B,RFB-DR,RFB4-LPB COVER #FPBTCBK-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR POWER OUTLETS.	
AV	AUDIO VIDEO DROP, REFER TO DETAIL	
IC IC	INTERCOM - CALL SWITCH- JBOX WITH 3/4"C	
S	INTERCOM/PAGING LAY-IN SPEAKER	
T	PA EXTERIOR SPEAKER	10'-6" AFF
DC	SECURITY DOOR CONTACT SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
MD	SECURITY MOTION DETECTOR SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
G	SECURITY GLASS BREAK SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
KP	SECURITY KEY PAD - STUB 3/4"C ABOVE CEILING FROM OUTLET BOX	
SEC	SECURITY PANEL JUNCTION BOX	54"
ACC	ACCESS CONTROL PANEL JUNCTION BOX - BY OTHERS	54"
CR	CARD READER BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
ML	MAGNETIC LOCK BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
S	INTRUSION EXTERIOR SPEAKER	10'-6" AFF
C	SINGLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.
C	DOUBLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.
	CAMERA J-BOX W/ 3/4" CONDUIT	----

ELECTRICAL LEGEND-GENERAL

—ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
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SYMBOL	DESCRIPTION
	HEAVY DUTY DISCONNECT SWITCH FUSED
	HEAVY DUTY DISCONNECT SWITCH NONFUSED
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER
	HEAVY DUTY MOTOR STARTER
	ENCLOSED BREAKER. RE: TO SCH. FOR MORE INFO.
R	ROTARY TYPE DISCONNECT SWITCH
$M	120/277-208/480V,20AMP, MOTOR RATED SWITCH, NEMA-1 (INTERIOR) ENCLOSURE. NEMA-3R(EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.
	MOTOR
	PANELBOARD, CLEARANCE AS PER LATEST NEC
	SWITCH LEG
	ELECTRICAL CONDUIT
	UNDERGROUND ELECTRICAL CONDUIT
C	COMMUNICATION CONDUIT AND WIRING
X, X, X	MULTI-POLE DEVICE CIRCUIT NUMBERS
X/X/X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS
A-1	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
A-1	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
#	DETAIL NUMBER
#	SHEET NUMBER
T	THERMOSTAT WALL MOUNTED - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANICAL DIVISION.
	TELEPHONE BOARD
PC	PHOTO CELL(MFR.INTERMATIC #K4136M)
LC	LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH
TC	TIME CLOCK (MFR.TORK#72022)
CP	CIRCULATING PUMP
$	ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE SYSTEM.

ELECTRICAL ABBREVIATIONS:

ABBV:	DESCRIPTION	ABBV:	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	MFR.	MANUFACTURER
BFC	BELOW FINISHED CEILING	(S.C.)	SHARE CIRCUIT
C	CONDUIT	QRCPT(S)	QUAD RECEPTACLE(S)
CB	CIRCUIT BREAKER	RCPT(S)	DUPLEX RECEPTACLE(S)
EC	EMPTY CONDUIT	CRCPT(S)	I.G. RECEPTACLE(S)
EX	EXISTING	QCRCPT(S)	QUAD I.G. RECEPTACLE(S)
F	FUSE	PNL	PANEL
G	GROUND (EQUIPMENT)	SO (S.O.)	SPACE ONLY
GFI	GROUND FAULT INTERRUPTER	SP	SPARE
MTD	MOUNT OR MOUNTED	ST (S.T.)	SHUNT TRIP
NF	NONFUSED	SW	SWITCH
NIC	NOT IN CONTRACT	UF	UNDERFLOOR
H.D	HEAVY DUTY	UG	UNDERGROUND
NL	NIGHT LIGHT	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
AC	ABOVE COUNTER	WG	WIRE GUARD
HT.	HEIGHT	WP	WEATHERPROOF
MTD.	MOUNTING	XFMR	TRANSFORMER
FDR.	FEEDER	MB	MAIN BREAKER
CKT.	CIRCUIT	MLO	MAIN LUGS ONLY
LTG.	LIGHTING	RMC	RIGID METAL CONDUIT
LC	LIGHTING CONTACTOR	RNC	RIGID NONMETALLIC CONDUIT
IG	ISOLATED GROUND	EMT	ELECTRICAL METALLIC TUBING CONDUIT
EA.	EACH	S/N	SOLID NEUTRAL
N1	NEMA-1	AC	ABOVE COUNTER
N3R	NEMA-3R	AHJ	AHUTHORITY HAVING JURISDICTION
N4X	NEMA-4X		
SS	STAINLESS STEEL		

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.
AC INDICATES 6" ABOVE COUNTER TO BOTTOM OF DEVICE.

ELECTRICAL LEGEND - WIRING DEVICES

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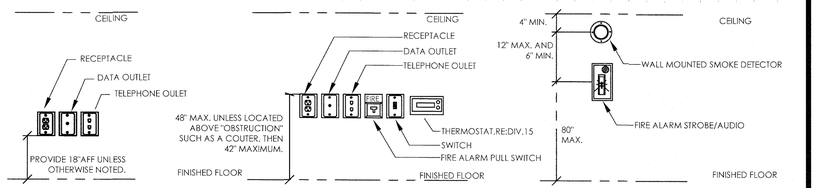
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
H H	HOSPITAL GRADE DUPLEX RECEPTACLE/GFI - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R
WP/ "IN-USE"	DUPLEX RCPT.,WEATHER RESISTANT "WR", GFI INSTALLED IN A "IN-USE" WEATHER PROOF STEEL ENCLOSURE- 20A/125V/2P/3W/G NEMA 5-20R WP/"IN-USE" SHALL BE EQUAL TO MFR. CARLON, MEDIUC SERIES SINGLE GANG, VERTICAL MOUNT #ME9UVMG DOUBLE GANG, VERTICAL MOUNT #ME9U2VMG
	QUADRAPLEX RECEPTACLE
	ISOLATED GROUND QUADPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R
	208V RECEPTACLE, VERIFY NEMA NO. WITH EQUIPMENT SUPPLIER
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)
J J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED MINIMUM OF 4" SQUARE
HD	J-BOX - AIR HAND DRYER: (RECESSED HAND DRYERS TO BE PROVIDED BY DIVISION 16, ELECTRICAL) #B-750 AUTOMATIC HANDCRAFT AS MANUFACTURER BY BOBRICK. (COLOR WHITE) QUANTITY: REFER TO DRAWINGS (MIN. ONE PER LAV. COMPLETE W/ ELE. CONNECTIONS TYP.)
4G	4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30CR-24GCVRNK(COVER)-(2)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6G	6-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB6G30CR-CFBS1R8CVRALU(COVER)-(3)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6P	6" FIRE RATED POKE-THROUGHS BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)- MFR.-HUBBELL MODEL#S1R6PTFIT-S1R6SPE-S1R6SPL-S1R6SPH(50/50 DEVICE PLATE COMBINATION)-S1R6CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
8P	8" FIRE RATED POKE-THROUGHS BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)- MFR.-HUBBELL MODEL#S1R8PTFIT-S1R8CSPK-S1R8CSPK-S1R8PSPZ(50/50 DEVICE PLATE COMBINATION)-S1R8CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

MOUNTING HEIGHT DETAIL

NOTE: VERIFY WITH ARCHITECTURAL FOR **ADA REQUIREMENTS.**



GENERAL ELECTRICAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.
2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
3. IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS.
4. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTRCATOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
5. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS (270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC.
6. COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
7. ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: ET"LA-3).

LUMINAIRE SCHEDULE

MARK	VOLTAGE	LAMP	MOUNTING	DESCRIPTION	MODEL NO.
A	120V	LED 5956 LM 4000K 48W	SURFACE	4' LED SURFACE MOUNT FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	KENALL R12-48-45L40K-DCC-1-120-.156
E	120V	INCLUDED	SURFACE	EMERGENCY LIGHTING UNIT W/ SELF-DIAGNOSTICS	LITHONIA ELM2 LED SD
X1	120V	LED	SURFACE	LED THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	LITHONIA LHQM LED _ R SD

EXTERIOR LUMINAIRE SCHEDULE

AA	120V	LED 3442LM 4000K 28W	SURFACE	LED WALL LUMINAIRE, WET LOCATION RATED, UL LISTED	LITHONIA TWR1 LED-P2-40K-MVOLT
BB	208V	6-LED FIXTURES 77019 LM(570W) EACH 5000K	38'POLE	LED AREA LUMINAIRE, POLE MOUNT LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 110 MPH, INCLUDE VIBRATION DAMPERS, INCLUDE ALL BRACKETS	FIXTURE MFR. VISIONAIRE LIGHTING BLX-III-B-FN-256LC-7-5K-UNV POLE MFR. KW INDUSTRIES #RSP30-5.0-7-NA-DM10-BC-VD
CC	208V	a- LED FIXTURE 77019 LM(570W) EACH 5000K b- LED FIXTURE 77862 LM(570W) EACH 5000K	38'POLE	LED AREA LUMINAIRE, POLE MOUNT LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 110 MPH, INCLUDE VIBRATION DAMPERS, INCLUDE ALL BRACKETS	FIXTURE MFR. VISIONAIRE LIGHTING (a)-BLX-III-B-FN-256LC-7-5K-UNV (b)-BLX-III-B-FM-256LC-7-5K-UNV POLE MFR. KW INDUSTRIES #RSP30-5.0-7-NA-DM10-BC-VD

DISCONNECT SCHEDULE

LABEL	DESCRIPTION
FCCU-1	30AMP, 1Ø, 3W, N3R.208V, S/N, H.D. FUSED DISCONNECT
WH-1	30AMP, 1Ø, 3W, N1.120V, S/N, N.F., H.D. NON-FUSED DISCONNECT

NOTE: 1. REFER TO BREAKER SIZE FOR FUSE SIZE.
2. REFER TO PANELBOARD FOR DISCONNECTION PHASES AND VOLTAGE.

09/10/18

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180405
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ELECTRICAL LEGEND
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
E3.0

120/208V, 3Ø, 4W ELECTRICAL LOAD ANALYSIS	
DESCRIPTION	TOTAL KVA
LIGHTING	20
GENERAL POWER	18
A/C	3
WATER HEATER	2
TOTAL WATTS:	43 KVA
TOTAL AMPS:	119 AMPS
TOTAL AMPS+25%:	148 AMPS
WIRE SIZE AMPS:	200 AMPS

GENERAL NOTES:

A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.

B. NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC., BY ELECTRICAL CONTRACTOR.

C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.

D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.

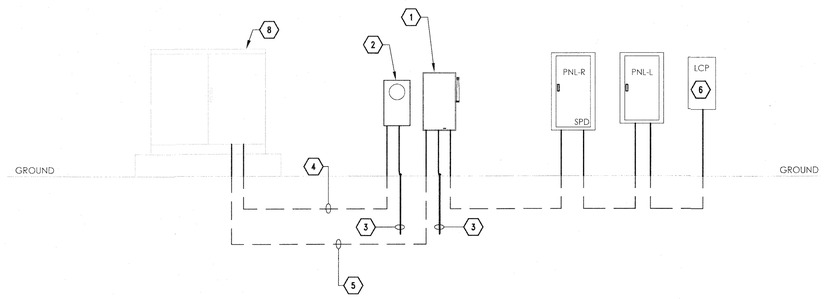
E. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E-STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.3 AND ANEEX D.

F. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS. INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.

ELECTRICAL RISER DIAGRAM KEYED NOTES:

1. PROVIDE 200AMPS, 208W, 3Ø, 4W, S/N, N3R, HEAVY DUTY FUSED SERVICE ENTRANCE DISCONNECT, FUSED@200AMPS.
2. NEW ELECTRICAL SERVICE METER 208V/120V, 3Ø, 4W. CONTRACTOR SHALL PROVIDE METER BASE. VERIFY WITH POWER FOR METER BASE REQUIREMENTS PRIOR TO BID DATE. INCLUDE ALL COST IN BID. COORDINATE ALLOCATION OF METER SOCKET AND WIRING WITH POWER COMPANY.
3. 1#3/0G IN 1"C, 3/4"X10' COPPER CLAD RODS. PROVIDE GROUNDING AS PER NEC REQUIREMENTS.
4. PROVIDE 1-2"C WITH PULLSTRING.
5. PROVIDE 1-RUN OF 4#4/0, 3"C.
6. LIGHTING CONTROL RELAY PANEL. MFR# GR1404LTENC SM.NE4 DTC. MFR TECH TO PROGRAM SYSTEM TO MEET IECC 2015 SITE LIGHTING REQUIREMENTS.
7. LIGHTING CONTROL RELAY PANEL. MFR# GR1424LTENC SM.NE4 DTC. MFR TECH TO PROGRAM SYSTEM TO MEET IECC 2015 SITE LIGHTING REQUIREMENTS.
8. EXISTING 208V/120V POWER COMPANY PAD MOUNTED TRANSFORMER TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.



1 ELECTRICAL SCHEMATIC DIAGRAM
SCALE: NTS

PANEL-R	AMP	LUGS	NEMA	V(LL)		(P)		(W)		V(LN)	MNT	KAIC	FDR: 1-RUN	
LOCATION-	200	MLO	1	208		3		4		120	SUR.	10	4#3/0, 1#6G, 2.5"C	
LOAD SERVED	CKT #	LOAD KVA	BKR SIZE	POLE	FEEDER/BRANCH CIRCUIT SIZE	A	B	C	FEEDER/BRANCH CIRCUIT SIZE	POLE	BKR SIZE	LOAD KVA	CKT #	LOAD SERVED
LIGHTING	1	0.6	20	1	2#12, 1#12G,1/2"C	*			2#12, 1#12G,1/2"C	1	20	1.2	2	EXTERIOR LTG
EMERGENCY/ EXITS	3	1.2	20	1	2#12, 1#12G,1/2"C		*		-				4	SPACE
SPACE	5				-			*	-				6	SPACE
2) EDF	7	1.2	20	1	2#12, 1#12G,1/2"C	*			2#12, 1#12G,1/2"C	1	20	1.2	8	3 RCPTS
3 RCPTS	9	0.6	20	1	2#12, 1#12G,1/2"C		*		2#12, 1#12G,1/2"C	1	20	1.2	10	1 RCPT
1 RCPT	11	1.2	20	1	2#12, 1#12G,1/2"C			*	2#12, 1#12G,1/2"C	1	20	1.2	12	1 RCPT
3 RCPTS	13	1.2	20	1	2#12, 1#12G,1/2"C	*			2#12, 1#12G,1/2"C	1	20	1.2	14	REF
2 RCPTS	15	0.4	20	1	2#12, 1#12G,1/2"C		*		3#12, 1#12G,1/2"C	2	20	1.6	16	FCCU-1
3 QUAD	17	1.2	20	1	2#12, 1#12G,1/2"C			*	-			1.6	18	"
1 RCPT	19	0.6	20	1	2#12, 1#12G,1/2"C	*			2#12, 1#12G,1/2"C	1	20	1.5	20	1 RCPT
WH-1	21	1.5	20	1	2#12, 1#12G,1/2"C		*		-				22	SPACE
HAND DRYER	23	2.4	25	1	2#10, 1#10G,3/4"C			*	-				24	SPACE
HAND DRYER	25	2.4	25	1	2#10, 1#10G,3/4"C	*			-				26	SPACE
SPACE	27				-		*		-				28	SPACE
SPACE	29				-			*	-				30	SPACE
SPACE	31				-	*			4#2, 1#8G,2"C	3	100	5	32	PANEL-L
SPACE	33				-		*		-			6	34	"
SPACE	35				-			*	-			6	36	"
SPARE	37		20	1	-	*			-	1	20		38	SPARE
SPARE	39		20	1	-		*		-	1	20		40	SPARE
SPARE	41		20	1	-			*	-	1	20		42	SPARE
LOADS	-	(KVA)				16	13	14				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	42				KVA/PHASE						3	-	LIGHTING
RESERVE	25	11										18	-	RECEPTACLES
TOTAL LOAD	-	53										3	-	COOLING
												0	-	HEATING
TOTAL AMPS	-	146										18	-	OTHER

NOTES:
1) PROVIDE INTEGRAL SURGE PROTECTION DEVICE, 140KA WITH SEPARTE DISCONNECT MEANS
2) PROVIDE GFI BREAKER
3)

PANEL-L	AMP	LUGS	NEMA	V(LL)		(P)		(W)		V(LN)	MNT	KAIC	FDR	
LOCATION-	100	MLO	3R	208		3		4		120	SUR.	10	1-RUN 4#2, 1#8G, 2"C	
LOAD SERVED	CKT #	LOAD KVA	BKR SIZE	POLE	FEEDER/BRANCH CIRCUIT SIZE	A	B	C	FEEDER/BRANCH CIRCUIT SIZE	POLE	BKR SIZE	LOAD KVA	CKT #	LOAD SERVED
EXTERIOR LIGHTING	1	1.2	20	2	3#8, 1#10G,1"C	*			3#8, 1#10G,1"C	2	20	1.2	2	EXTERIOR LIGHTING
"	3	1.2			-		*		-			1.2	4	"
EXTERIOR LIGHTING	5	1.2	20	2	3#8, 1#10G,1"C			*	3#8, 1#10G,1"C	2	20	1.2	6	EXTERIOR LIGHTING
"	7	1.2			-	*			-			1.2	8	"
EXTERIOR LIGHTING	9	1.8	25	2	3#6, 1#8G,1.25"C		*		3#6, 1#8G,1.25"C	2	25	1.8	10	EXTERIOR LIGHTING
"	11	1.8			-			*	-			1.8	12	"
SPACE	13				-	*			-				14	SPACE
SPACE	15				-		*		-				16	SPACE
SPACE	17				-			*	-				18	SPACE
SPACE	19				-	*			-				20	SPACE
LOADS	-	(KVA)				5	6	6				(KVA)	-	DESCRIPTIVE LOADS
CONNECTED LOAD	-	17				KVA/PHASE						17	-	LIGHTING
RESERVE	0	0										0	-	RECEPTACLES
TOTAL LOAD	-	17										0	-	COOLING
												0	-	HEATING
TOTAL AMPS	-	47										0	-	OTHER

NOTES:
1)
2)
3)

09/10/18

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REVISIONS			180405
			PROJECT No. SEPTEMBER, 2018
			DATE: --
			DRAWN BY --
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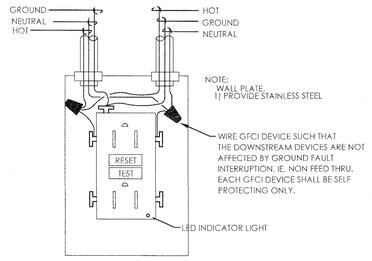
ELECTRICAL SCHEDULES
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
E4.0

01



GFI RECEPTACLE- WIRING DIAGRAM

NO SCALE

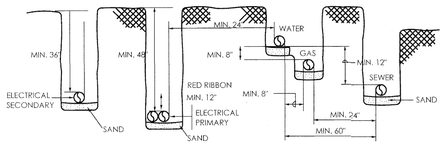
02

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

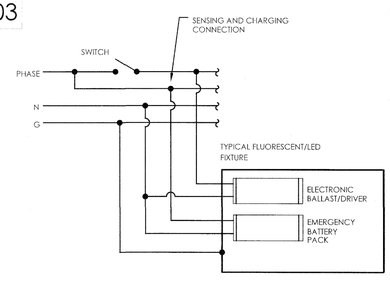
MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.



TRENCH DETAIL

NO SCALE

03

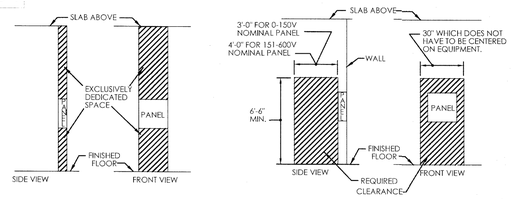


NOTE:
ALL EXIT LIGHT FIXTURE AND EMERGENCY FIXTURES SHALL BE ON THE NON-SWITCHED LEG. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE AND PLANS.

TYPICAL EMERGENCY LIGHT FIXTURE SCHEMATIC

NO SCALE

04

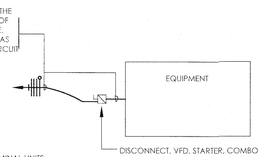


NOTE:
REFER TO THE LATEST NATIONAL ELECTRICAL CODE AND LOCAL CODES.

TYPICAL PANEL BOARD REQUIRED CLEARANCE

NO SCALE

05



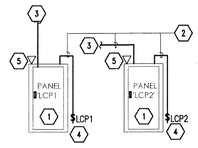
EQUIPMENT CIRCUIT DETAIL

NO SCALE

06

KEYED NOTES:

1. LIGHTING CONTROL RELAY PANELS. REFER TO SPECIFICATIONS - 26 09 26. EACH MATER RELAY PANEL SHALL INCLUDE DISPLAY MONITOR.
2. PROVIDE COMMUNICATION CABLE AS RECOMMENDED BY MANUFACTURER IN A 3/4"C. REFER TO PLAN FOR PANEL LOCATIONS.
3. LTG CKTS
4. PROVIDE OVERRIDE SWITCH STATION. PROVIDE WIRING AS RECOMMENDED BY MANUFACTURER.
5. PROVIDE DATA CONNECTION TO PANEL.

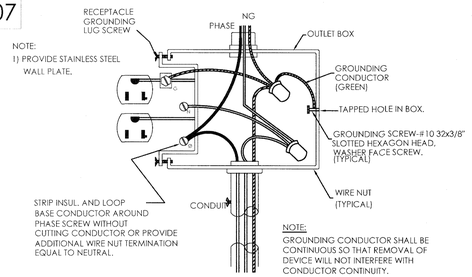


NOTE:
1.) ALL EXTERIOR CIRCUITS SHALL BE PROGRAMMED AT OWNERS DIRECTIONS.

LIGHTING RELAY PANEL - SCHEMATIC DETAIL

NO SCALE

07



TYPICAL RECEPTACLE GROUNDING DETAIL

NO SCALE

08

RELAY LIGHTING CONTROL PANEL
Master CABINET CIRCUIT SCHEDULE
120/208VAC, 3 PHASE

PANEL NAME: LCP1

PANEL LOCATION:
PANEL DESCRIPTION: NETWORKING 4 Relay Cabinet:
CATALOG NUMBER: XXX
PANEL FEED: R
PANEL ID: Master
MOUNTING: Surface

RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
1	1	20	R-1	120V	1200	Lighting
3	1	20	R-4	120V	1200	EF-1

RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
2	1	20	R-1	120V	1200	Lighting
4	1	20		120V	1200	Space

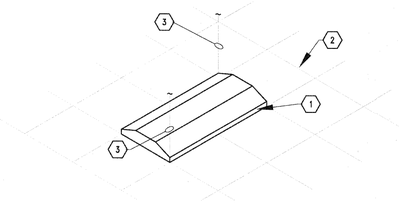
LEGEND:
1 = RELAY-1-POLE,20A, UP TO 277VAC
2 = RELAY-2-POLE, 2-POLE, 20A, UP TO 480VAC
A=AMPS

NOTES:
1. INCLUDE EXTERIOR PHOTO CELL,SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS.
2. VERIFY WITH OWNER FOR ALL PROGRAMMING SEQUENCE.
3. REFER TO SPECIFICATION 16515.
4. PROVIDE DEDICATED 20AMP 120V FROM NEAREST 120/208V PANEL.
5. INCLUDE ALL TRAINING FOR PROGRAMMING AND STARTUP IN CONTRACT. REFER TO SPECIFICATIONS.
6. INCLUDE REMOTE CONTROL OPTION. OWNER TO PROVIDE DATA INPUT.
7. INCLUDE ASTRONOMICAL TIME CLOCK.

09

KEYED NOTES:

1. 2'x 4' LAY-IN LED/FLUORESCENT FIXTURE
2. SUSPENDED CEILING
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO TOP OF STRUCTURE, INDEPENDENT OF CEILING SUPPORTS.

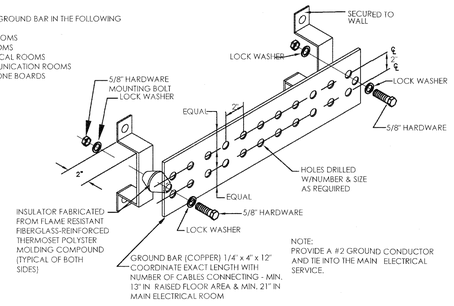


TYPICAL LAY-IN FIXTURE SUPPORT

NO SCALE

10

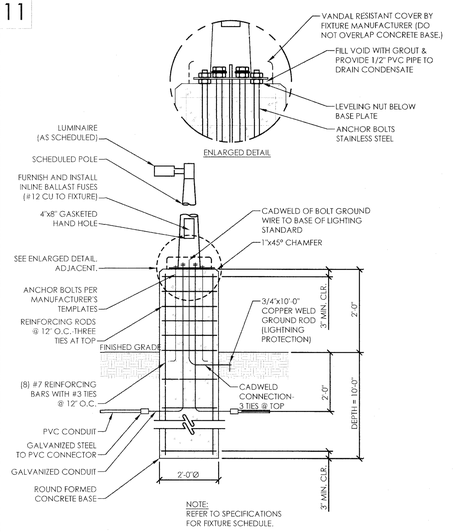
PROVIDE GROUND BAR IN THE FOLLOWING ROOMS:
1. MDF ROOMS
2. IDF ROOMS
3. ELECTRICAL ROOMS
4. COMMUNICATION ROOMS
5. TELEPHONE BOARDS



WALL MOUNTED SINGLE-POINT GROUND BAR DETAIL

NO SCALE

11



LOT LIGHT POLE BASE-BB /CC

NO SCALE

RELAY LIGHTING CONTROL PANEL
Master CABINET CIRCUIT SCHEDULE
120/208VAC, 3 PHASE

PANEL NAME: LCP2

PANEL LOCATION:
PANEL DESCRIPTION: NETWORKING 24 Relay Cabinet:
CATALOG NUMBER: XXX
PANEL FEED: L
PANEL ID: Master
MOUNTING: Surface

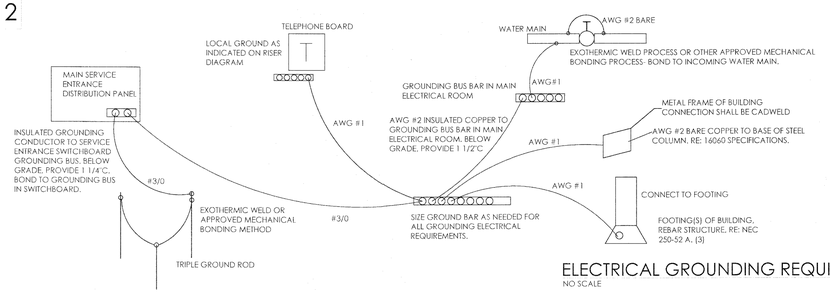
RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
1	2	20	L-1,3	208V	1500	EXTERIOR Lights
3			"	208V	1500	"
5	2	20	L-5,7	208V	1500	EXTERIOR Lights
7			"	208V	1500	"
9	2	20	L-9,11	208V	1500	EXTERIOR Lights
11			"	208V	1500	"
13	1	20	R-2	120	1500	EXTERIOR Lights
15						
17	2	20	R-31,33	208V	1500	EXTERIOR Lights
19			"	208V	1500	"
21	2	20	R-32,34	208V	1500	EXTERIOR Lights
23			"	208V	1500	"

RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
2	2	20	L-2,4	208V	1500	EXTERIOR Lights
4		20	"	208V	1500	"
6	2	20	L-6,8	208V	1500	EXTERIOR Lights
8		20	"	208V	1500	"
10	2	20	L-10,12	208V	1500	EXTERIOR Lights
12		20	"	208V	1500	"
14	2	20	R-28,30	208V	1500	EXTERIOR Lights(30%)
16		20	"	208V	1500	"
18	2	20	R-31,33	208V	1500	EXTERIOR Lights(30%)
20		20	"	208V	1500	"
22	2	20	R-32,34	208V	1500	EXTERIOR Lights(30%)
24		20	"	208V	1500	"

LEGEND:
1 = RELAY 1-POLE,20A, UP TO 277VAC
2 = RELAY-2-POLE, 2-POLE, 20A, UP TO 480VAC
A=AMPS
3 = FAN RELAY 1-POLE, 20AMP, 120V

NOTES:
1. INCLUDE EXTERIOR PHOTO CELL,SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS.
2. VERIFY WITH OWNER FOR ALL PROGRAMMING SEQUENCE.
3. REFER TO SPECIFICATION 16515.
4. PROVIDE DEDICATED 20AMP 120V FROM NEAREST 120/208V PANEL.
5. INCLUDE ALL TRAINING FOR PROGRAMMING AND STARTUP IN CONTRACT. REFER TO SPECIFICATIONS.
6. INCLUDE REMOTE CONTROL OPTION. OWNER TO PROVIDE DATA INPUT.
7. INCLUDE ASTRONOMICAL TIME CLOCK.

12



ELECTRICAL GROUNDING REQUIREMENTS

NO SCALE

09/10/18

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180405
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ELECTRICAL DETAILS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET
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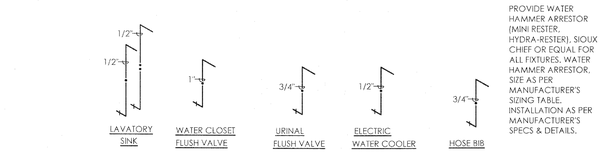
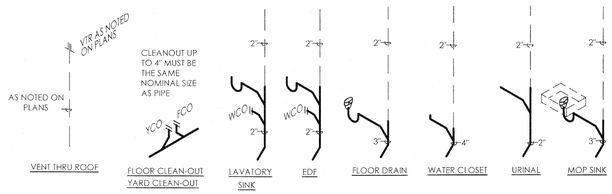


PROVIDE WATER HAMMER ARRESTOR (MINI RESTER, HYDRA-RESTER), SIOUX CHIEF OR EQUAL FOR ALL FIXTURES. WATER HAMMER ARRESTOR, SIZE AS PER MANUFACTURER'S SIZING TABLE. INSTALLATION AS PER MANUFACTURER'S SPECS & DETAILS.

SEWER & VENT
04 TYPICAL RISER SCHEMATICS
SCALE: NTS



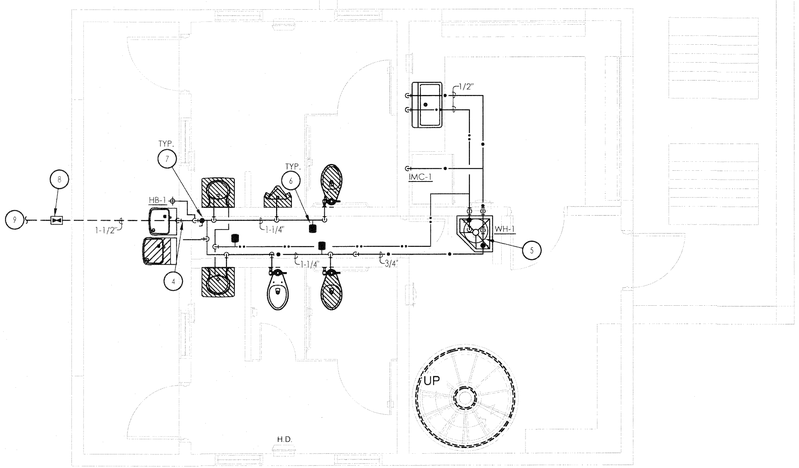
SEWER & VENT
03 TYPICAL RISER SCHEMATICS
SCALE: NTS

NOTE:

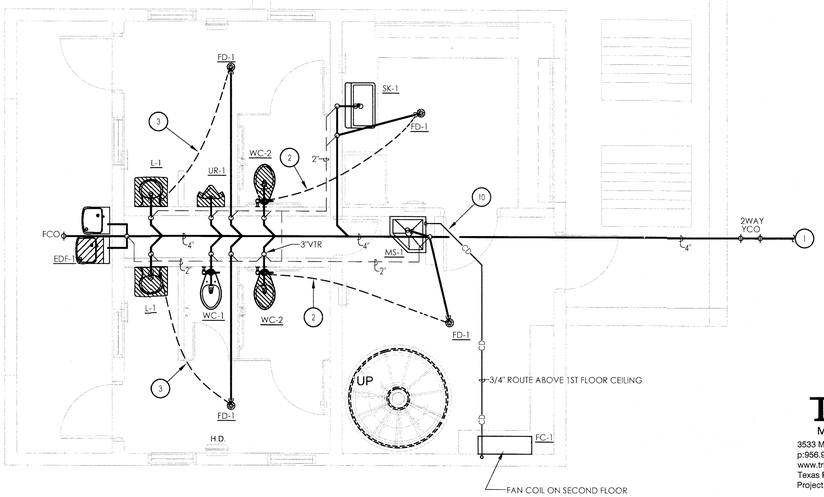
DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE PLUMBING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

KEYED NOTES: PLUMBING

1. REFER TO CIVIL SITE PLAN FOR CONTINUATION OF PLUMBING FIVE FEET AWAY FROM BUILDING. PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS. CONTRACTOR SHALL VERIFY LOCATIONS, INVERT SLOPE, ELEVATION, AND DIRECTION OF FLOW WITH CIVIL ENGINEERING DRAWINGS.
2. 1/2" COPPER FROM TRAP PRIMER COVER WITH POLYETHYLENE SLEEVE "POLY SLEEVE" OR EQUAL. PROVIDE FLUSHVALVE TRAP SEAL PRIMER EQUAL TO SLOAN VBF-72-A. SEE DETAIL 16/P3.0.
3. 1/2" COPPER FROM TRAP PRIMER. PROVIDE LAVATORY WITH WATER SAVER TRAP PRIMER. SEE DETAIL 17/P3.0. COVER WITH SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL FOR ALL TRAP-PRIMERS.
4. WATER SERVICE ENTRANCE. REFER TO DETAIL 01/P3.0.
5. INSTALL WALL MOUNTED WATER HEATER ABOVE MOP SINK. REFER TO DETAIL 03/P3.0.
6. WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"x12" PAINTED TO MATCH CEILING.
7. BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
8. CUT-OFF VALVE IN CAST IRON BOX. SET BOX FLUSH WITH FINISHED GRADE.
9. REFER TO CIVIL SITE PLAN FOR CONTINUATION OF PLUMBING FIVE FEET AWAY FROM BUILDING. PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS. PROVIDE 1-1/2" WATER METER AND BACKFLOW PREVENTER.
10. COPPER CONDENSATE DRAIN FROM FAN COIL UNIT, PROVIDE 1/2" INSULATION. DISCHARGE TO MOP SINK. COORDINATE ROUTING WITH HVAC CONTRACTOR.



DOMESTIC WATER
2 PLUMBING FLOOR PLAN
SCALE: 1/4"=1'-0"



SEWER & VENT
1 PLUMBING FLOOR PLAN
SCALE: 1/4"=1'-0"

09/10/18

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	CHK. BY

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PLUMBING SEWER & VENT / DOMESTIC WATER PLANS
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET P1.0

ABBREV. DESCRIPTION

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
ASA	AMERICAN STANDARDS ASSOCIATION
ASME	AMERICAN SOICIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AW	ACID WASTE
AWWA	AMERICAN WATER WORKS ASSOCIATION
AV	ACID VENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CI	CAST IRON
CO	CLEANOUT
CU	COPPER
DN	DOWN
EQ	EQUAL
FCO	FLOOR CLEANOUT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
GAL	GALLON(S)
GALV	GALVANIZED
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORESPOWER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
RD	ROOF DRAIN(S)
RE:4/P6	REFER TO DETAIL 4 DRAWING P-6
RO	REVERSE OSMOSIS
SD	STORM DRAIN
SPEC	SPECIFICATION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
VTR	VENT THRU ROOF
V	VACUUM
W/	WITH
WCO	WALL CLEAN OUT
YCO	YARD CLEAN OUT

PLUMBING PIPING MATERIAL:

1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE:
   SCHEDULE 40 PVC
2. SANITARY DRAIN OUTSIDE BUILDING:
   SCHEDULE 40 PVC
3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE:
   SCHEDULE 40 PVC
4. SANITARY DRAIN & VENT IN PLENUM CEILING:
   NO-HUB CAST IRON
5. DOMESTIC HOT & COLD WATER:
   COPPER, TYPE "L" HARD DRAWN
6. DOMESTIC WATER BELOW GRADE:
   COPPER, TYPE "K" SOFT ANNEALED
7. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING 2" SIZE AND SMALLER:
   COPPER, TYPE "L" HARD DRAWN

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
WC-1	WATER CLOSET FLOOR MOUNTED STANDARD	4"	2"	1"	-	KOHLER "WELLCOMME ULTRA" MODLE NO. K-96056-8, LOW CONSUMPTION (1.6GPF)FLOOR MOUNTED WATER CLOSET, ELONGATED RIM. 15-1/4" RIM HEIGHT, VITREOUS CHINA (WHITE). 1 1/2" TOP SPUD, SIPHON JET ACTION, WITH SLOAN UPPERCUT FLUSH VALVE MODEL NO. WES 111, COMPLETE WITH BEMIS MODEL NO. 1955SSTFR, OPEN FRONT SEAT LESS COVER, FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
WC-2	WATER CLOSET FLOOR MOUNTED HANDICAPPED	4"	2"	1"	-	KOHLER "HIGHCLIFF ULTRA" MODLE NO. K-96057, FLOOR MOUNTED WATER CLOSET, WITH ELONGATED RIM, 16-5/8" RIM HEIGHT, VITREOUS CHINA, SIPHON JET FLUSH ACTION 10"- 12" ROUGH IN, WITH SLOAN UPPERCUT FLUSH VALVE MODEL NO. WES 111, INCLUDES 1-1/2" TOP SPUD AND 2 BOLT CAPS. COMPLETE WITH BEMIS MODEL NO. 1955SSTFR, OPEN FRONT SEAT LESS COVER, FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
UR-1	URINAL STANDARD AND ADA REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	3/4"	-	KOHLER "DEXTER" MODEL NO. K-5016-ER, SIPHON JET WALL HUNG URINAL, VITREOUS CHINA, 1 GPF FLUSH OR LESS, COMPACT DESIGN, WITH INTEGRAL TRAP, 3/4" TOP INLET, 14" LIP, INCLUDES WALL HANGERS, 2" IPS OUTLET FLANGE AND RUBBER GASKET, WITH SLOAN "ROYAL" FLUSHOMETER VALVE MODEL NO. 186-1, PROVIDE ZURN CARRIER SYSTEM MODEL NO. Z-1221.
L-1	LAVATORY WALL HUNG STANDARD AND ADA REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	1/2"	KHOLAR "BRENHAM" MODEL NO. K-1997-4 (21x19) WALL HUNG LAVATORY, WITH OVERFLOW, INCLUDES WALL HANGER. VITREOUS CHINA, WITH 4-INCH CENTER FAUCET HOLES. PROVIDE TWO-HANDLE METERING FAUCET EQUAL TO MOEN MODEL NO. 8886 (CHROME), VANDAL RESISTANT, ADA APPROVED, PROVIDE ANTI-ROTATION DECKPLATE MODEL NO. 99550, PROVIDE PROTECTIVE COVER ON P-TRAP AND STOPS. PROVIDE ZURN CARRIER SYSTEM MODEL: 21231 PROVIDE P-TRAP: 17 GAUGE CHROME DEARBORN BRAND PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV), WATTS LFMMV-US-M1, SET TEMPERATURE AS PER LOCAL JURISDICTION.
SK-1	STAINLESS STEEL SINK ADA	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK BY ELKAY MODEL NO. LRAD222255 SELF RIMMING, TOP MOUNT WITH STAINLESS STEEL MOUNTING CHANNELS, 18 GAUGE TYPE 304 CENTERED REAR DRAIN, COMPLETE WITH ELKAY MODEL LK535AT10L2 FAUCET ADA, HOLE DRILLING 1, PROVIDE LKADOS CHROME PLATED BRASS OFFSET TAILPIECE FOR WHEELCHAIR USE. PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV), WATTS LFMMV-US-M1, SET TEMPERATURE AS PER LOCAL JURISDICTION.
IMC-1	ICE MAKER CONNECTION BOX	-	-	1/2"	-	CONNECTION BOX EQUAL TO GUY GRAY NO. BIM875 PREFABRICATED RECESSED BOX WITH COMPRESSION ANGLE VALVE.
EDF-1	ELECTRIC WATER COOLER REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	-	FROST-RESISTANT OUTDOOR USE BI-LEVEL ELECTRIC WATER COOLER SHALL BE "HALSEY TAYLOR" MODEL NO. HVR8BLFR ADA,WITH CAPACITY OF 8.0 GALLONS, VANDAL RESISTANT, STAINLESS STEEL BASIN WITH INTEGRAL DRAIN GRID AND BUBBLER, LEAD FREE ADA COMPLIANT.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	FIAT MODEL NO. TSBCR 1000, NEO-CORNER TERRAZO MOP SINK. COMPLETE WITH FAUCET MODEL 830-AA. MOP SINK SHALL INCLUDE ALL HOSE BRACKETS, HOSE, AND MOP HANGER, WITH 3" DRAIN WITH STRAINER & DEEP SEAL P-TRAP, PROVIDE WALL GUARD MSG2828.
HB-1	HOSE BIB EXTERIOR	-	-	3/4"	-	MILD TEMPERATURE WALL HYDRANT SHALL BE WOODFORD MODEL B65 3/4" INLET WITH BRONZE CASING, BRONZE FACE AND STRAIGHT INLET CONNECTION WITH INTEGRAL BACKFLOW PREVENTER.
FD-1	RESTROOM FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.

WATER HEATER SCHEDULE

MARK	STORAGE GALLONS	RECOVERY GPH	DEGREE RISE DEG F	WATER TEMP LEAVING	WATER INLET	WATER OUTLET	VOLTAGE/ PHASE	ELEMENTS KW	DESCRIPTION
WH-1	12	10	60	120	3/4"	3/4"	120/1	1.5	BRADFORD WHITE LIGHT DUTY COMMERCIAL WALL HUNG WATER HEATER, MODEL NO. LD-WH12U3-1

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE	— • —	DOMESTIC COLD WATER
	CHECK VALVE	— •• —	DOMESTIC HOT WATER
	GATE VALVE	— ••• —	DOMESTIC HOT WATER RETURN
	UNION	— — —	SANITARY SEWER VENT
	DIRECTION OF FLOW		SANITARY WASTE LINE
	WALL CLEANOUT	—140°—	140° HOT WATER
	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
	FLOOR SINK		BRANCH - TOP CONNECTION
	FLOOR DRAIN		PIPE RISER
	WALL HYDRANT OR HOSE BIBB		PIPE DROP
WHA	WATER HAMMER ARRESTOR		POINT OF CONNECTION (APPROXIMATED FIELD VERIFY EXACT POINT OF CONNECTION)

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT
2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.
3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING GENERAL NOTES: (ALL SHEETS)

A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.

B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES.

C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.

D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.

E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.

F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS.

G. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER. UNLESS NOTED OTHERWISE (UNO).

S. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT.

I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.

J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW. HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.

K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.

L. LABEL ALL PIPING PER ANSI STANDARD.

M. PROVIDE PROPER INSULATION ON ALL HOT WATER PIPING, STORM PIPING AND CONDENSATE PIPING.

N. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.

O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.

P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.

Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.

R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.

T. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER, UNO.

09/10/18

TRINITY
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Texas Registered Engineering Firm - F10362
Project number: 18.2.20

STATE OF TEXAS — LEONARDO MUNOZ — 97123 — LICENSED PROFESSIONAL ENGINEER

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REVISIONS		

180405
PROJECT No. SEPTEMBER, 2018
DATE:
DRAWN BY
CHK. BY

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CONSULTING ENGINEERS
416 E. DOVE AVENUE McALLEN, TEXAS 78504
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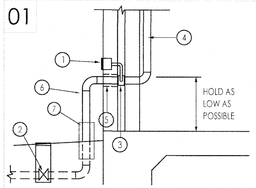
TBPE FIRM No. F-1295

PLUMBING LEGEND & SCHEDULES
CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS
VALLE ALTO PARK IMPROVEMENTS
HIDALGO, TEXAS

SHEET P2.0

01



1. WALL HYDRANT - INSTALL LOW ENOUGH TO DRAIN RISER.
2. MAIN SHUT-OFF VALVE
3. TEE
4. TYPE "L" COPPER
5. SLEEVE
6. PROVIDE 1" ARMAFLEX INSULATION W/ METAL JACKET ON EXPOSED PIPING.
7. 2-1/2" PVC SCH 40 SLEEVE

WATER SERVICE ENTRANCE DETAIL

NO SCALE

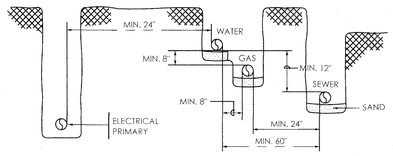
02

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

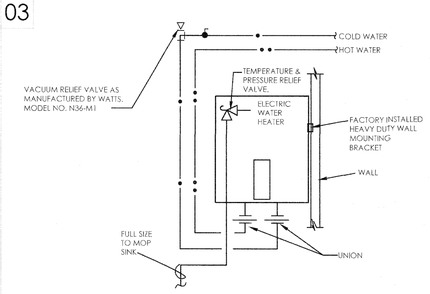
MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES. GAS LINES. TELEPHONE RACEWAYS AND CABLE RACEWAYS.



TRENCHING DETAIL

NO SCALE

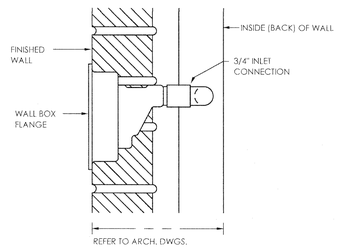
03



WALL MOUNTED ELECTRIC WATER HEATER

NO SCALE

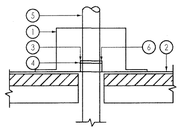
04



WALL HYDRANT DETAIL

NO SCALE

05

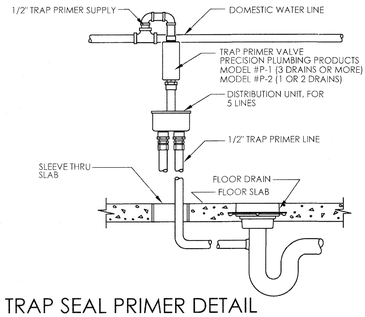


1. PREFABRICATED ROOF CURB. FURNISHED & INSTALLED BY ROOFING CONTR. (COORDINATE)
2. METAL ROOFING
3. STAINLESS STEEL CLAMP
4. SLEEVE PIPE BY ROOFING CONTR.
5. VTR
6. PROVIDE CAULKING GROVE
7. LOCATE MIN. 10'-0" FROM A/C AIR INTAKES

VENT THRU ROOF DETAIL

NO SCALE

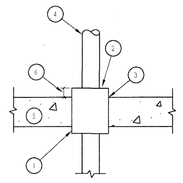
06



TRAP SEAL PRIMER DETAIL

NO SCALE

07

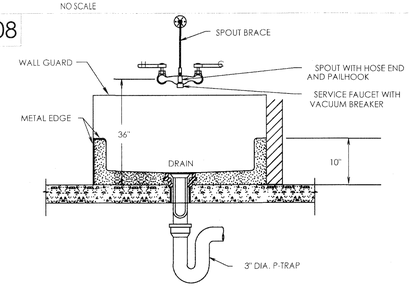


1. METAL SLEEVE TWO SIZES LARGER THAN PIPE
2. FILL VOID WITH NON-SHRINKING WATERPROOF, VERMIN PROOF MATERIAL
3. ALL PLUMBING PIPE PENETRATIONS THROUGH GROUND FLOOR, AND GRADE BEAMS SHALL BE SLEEVED
4. PIPE
5. CONCRETE SLAB
6. MINIMUM 2"

FLOOR PENETRATION DETAIL

NO SCALE

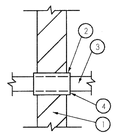
08



MOP SINK DETAIL

NO SCALE

09

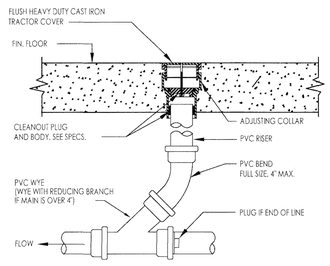


1. MASONRY WALL
2. GALVANIZED SCHEDULE 40 STEEL OR COPPER SLEEVE, SIZE TO BE MINIMUM 3/8" LARGER IN DIAMETER THAN PIPE AND INSULATION.
3. PLUMBING PIPE (RELIER LINES, DOMESTIC WATER, AIR, AND GAS PIPING).
4. FILL VOID WITH MINERAL WOOL AND CAULK VERMIN TIGHT.

WALL SLEEVE DETAIL

NO SCALE

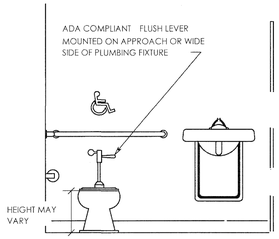
10



FLOOR CLEANOUT DETAIL

NO SCALE

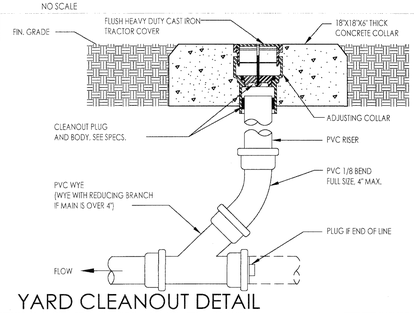
11



ADA WATER CLOSET DETAIL

NO SCALE

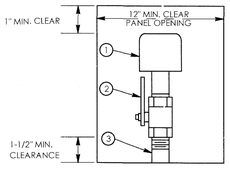
12



YARD CLEANOUT DETAIL

NO SCALE

13



1. WATER HAMMER ARRESTOR, SIZE AS PER MANUFACTURER'S SIZING TABLE.
2. BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH, OPENING IN BALL VALVE TO MATCH PIPE I.D.
3. PIPE SAME SIZE AS BRANCH LINE TO WHICH IT IS ATTACHED.

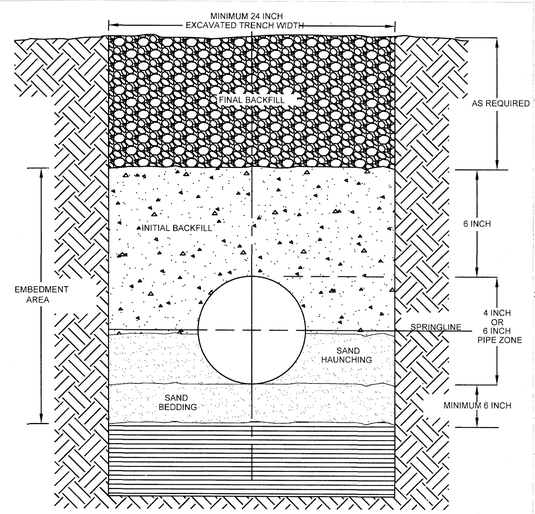
NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

DIMENSIONS FOR MIN. PANEL SIZE AND OPENING IF WATER HAMMER ARRESTOR IS LOCATED IN WALL. LOCKING PANEL COLOR TO BE DETERMINED BY ARCHITECT.

WATER HAMMER ARRESTOR DETAIL

NO SCALE

14



UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

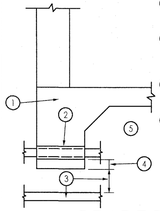
RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 6 INCHES OF FIRM, STABLE AND UNIFORM SAND BEDDING IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 8 INCHES OF SAND BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD SHOULD BE ABOUT ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS

NO SCALE

15

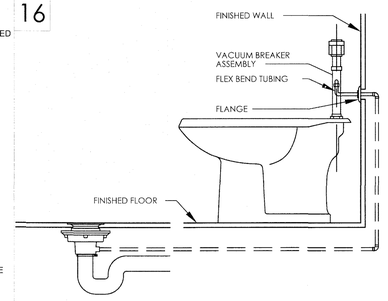


1. GRADE BEAM
2. GALVANIZED SCH 40 STEEL SLEEVE, SIZE PER SPECS. CENTER PIPE IN SLEEVE.
3. PIPING PASSING HORIZONTALLY UNDER GRADE BEAM SHALL BE LOCATED A MINIMUM OF 6" BELOW BEAM. PROVIDE A SLEEVE.
4. PIPING PASSING HORIZONTALLY THROUGH GRADE BEAM SHALL BE LOCATED NO LESS THAN 6" ABOVE BOTTOM OF BEAM.
5. COORDINATE LOCATIONS OF PIPING IN 3,4,5 ABOVE AS RELIEVING ARCHES OR ADDITIONAL CONCRETE MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF BEAM.

GRADE BEAM SLEEVE DETAIL

NO SCALE

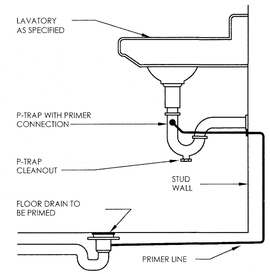
16



FLUSH VALVE TRAP SEAL PRIMER

NO SCALE

17



TRAP SEAL PRIMER INSTALLATION DETAIL

NO SCALE

09/10/18

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REVISIONS		

180405

PROJECT No. SEPTEMBER, 2018

DATE: __

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PLUMBING DETAILS

CITY OF HIDALGO PARKS/RECREATIONAL FACILITY IMPROVEMENTS

VALLE ALTO PARK IMPROVEMENTS

HIDALGO, TEXAS

SHEET P3.0