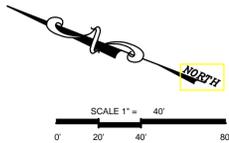


**KEYED NOTES**

- ① EXISTING STRUCTURES TO BE REMOVED.
- ② EXISTING ELECTRICAL POLE TO REMAIN IN PLACE.
- ③ CONTRACTOR TO COORDINATE WITH XCEL ENERGY TO REMOVE AND RELOCATE EXISTING ELECTRICAL METER.
- ④ EXISTING ITEMS TO REMAIN IN PLACE.

LEGEND	
	EXIST. GRADE 0.5' CONTOUR
	EXIST. GRADE 1.0' CONTOUR
	OVERHEAD ELECTRIC
	CENTERLINE OF ROAD
	PROPERTY LINE
	ELECTRIC METER POLE
	LIGHT POLE
	SEWER CLEANOUT
	ASPHALT
	CONCRETE
	GRAVEL



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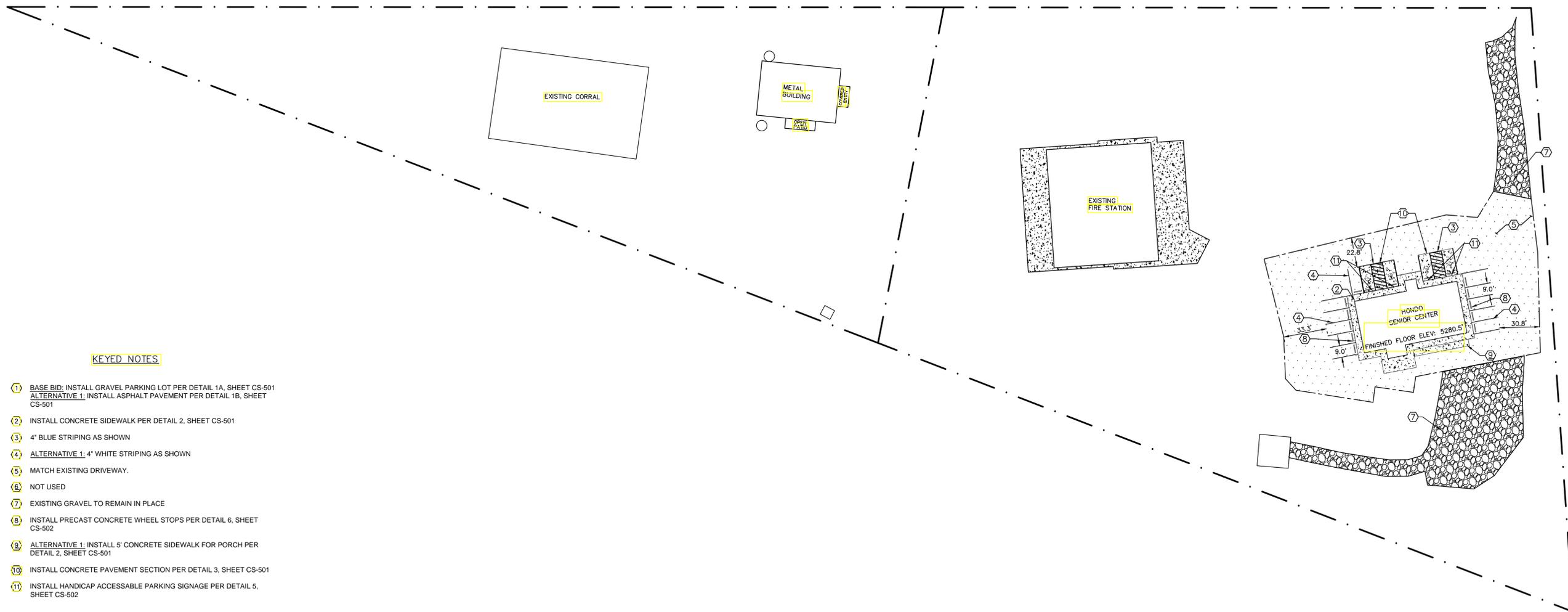
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 David Roy  
 12/04/2019

**2019 - 2020 NEW HONDO SENIOR CENTER  
 HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - CIVIL DEMOLITION PLAN**

Issue Date: 12-04-2019  
 Drawn by: AC  
 Checked by: JT  
 Revisions:

**CD-101**

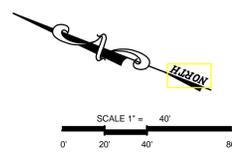
U.S. HIGHWAY NO. 380



**KEYED NOTES**

- ① BASE BID: INSTALL GRAVEL PARKING LOT PER DETAIL 1A, SHEET CS-501  
ALTERNATIVE 1: INSTALL ASPHALT PAVEMENT PER DETAIL 1B, SHEET CS-501
- ② INSTALL CONCRETE SIDEWALK PER DETAIL 2, SHEET CS-501
- ③ 4" BLUE STRIPING AS SHOWN
- ④ ALTERNATIVE 1: 4" WHITE STRIPING AS SHOWN
- ⑤ MATCH EXISTING DRIVEWAY.
- ⑥ NOT USED
- ⑦ EXISTING GRAVEL TO REMAIN IN PLACE
- ⑧ INSTALL PRECAST CONCRETE WHEEL STOPS PER DETAIL 6, SHEET CS-502
- ⑨ ALTERNATIVE 1: INSTALL 5' CONCRETE SIDEWALK FOR PORCH PER DETAIL 2, SHEET CS-501
- ⑩ INSTALL CONCRETE PAVEMENT SECTION PER DETAIL 3, SHEET CS-501
- ⑪ INSTALL HANDICAP ACCESSIBLE PARKING SIGNAGE PER DETAIL 5, SHEET CS-502

LEGEND	
	FINISH GRADE 0.5' CONTOUR
	FINISH GRADE 1.0' CONTOUR
	EXIST. GRADE 2.0' CONTOUR
	EXIST. GRADE 10.0' CONTOUR
	PROPOSED FENCE
	PROPOSED GRADING LIMITS
	ASPHALT
	CONCRETE



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*David Royal*

12/04/2019

**2019 - 2020 NEW HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM

**HONDO SENIOR CENTER - CIVIL SITE PLAN**

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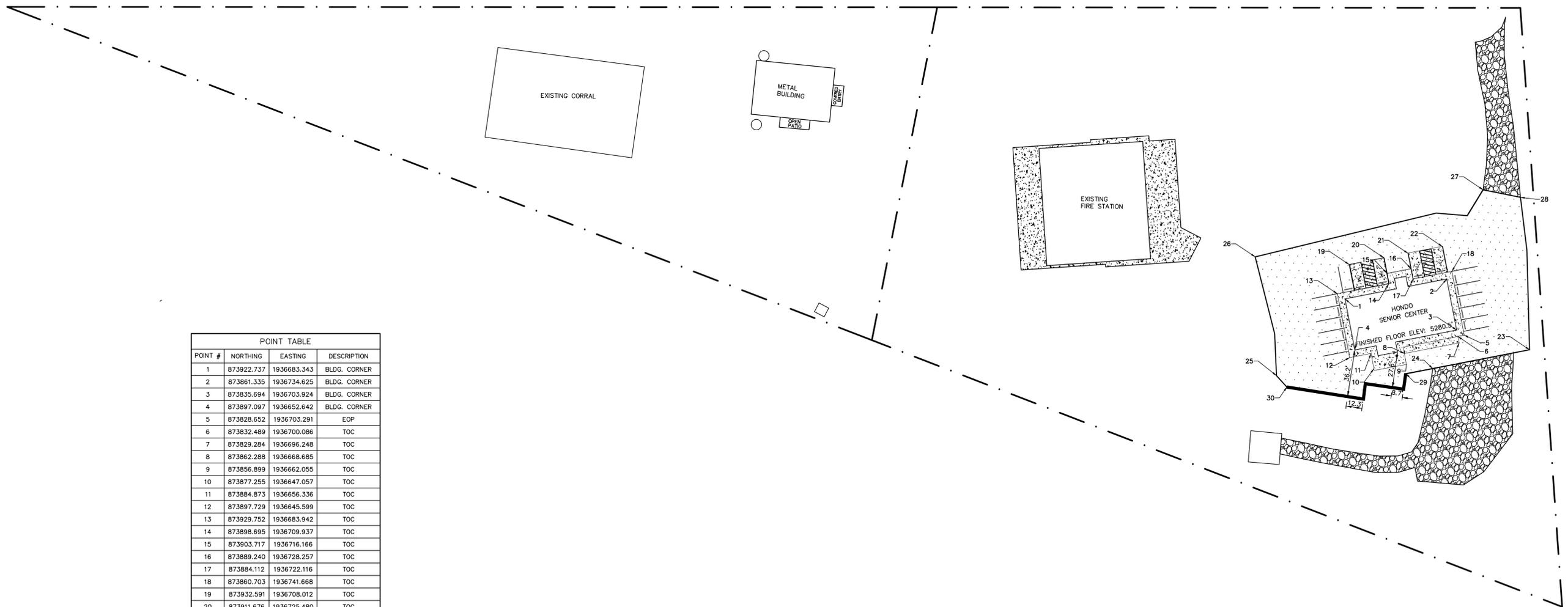
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CS-101



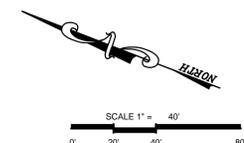


U.S. HIGHWAY NO. 380



POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	873922.737	1936683.343	BLDG. CORNER
2	873861.335	1936734.625	BLDG. CORNER
3	873835.694	1936703.924	BLDG. CORNER
4	873897.097	1936652.642	BLDG. CORNER
5	873828.652	1936703.291	EOP
6	873832.489	1936700.086	TOC
7	873829.284	1936696.248	TOC
8	873862.288	1936668.685	TOC
9	873856.899	1936662.055	TOC
10	873877.255	1936647.057	TOC
11	873884.873	1936656.336	TOC
12	873897.729	1936645.599	TOC
13	873929.752	1936683.942	TOC
14	873898.695	1936709.937	TOC
15	873903.717	1936716.166	TOC
16	873889.240	1936728.257	TOC
17	873884.112	1936722.116	TOC
18	873860.703	1936741.668	TOC
19	873932.591	1936708.012	TOC
20	873911.676	1936725.480	TOC
21	873896.933	1936737.467	TOC
22	873876.157	1936754.818	TOC
23	873779.134	1936717.805	TOP OF ASPHALT
24	873837.469	1936669.044	TOP OF ASPHALT
25	873940.537	1936606.178	TOP OF ASPHALT
26	873998.951	1936678.200	TOP OF ASPHALT
27	873869.848	1936808.155	TOP OF ASPHALT
28	873841.791	1936817.010	TOP OF ASPHALT
29	873853.951	1936655.711	WALL
30	873929.284	1936602.378	WALL

LEGEND	
	FINISH GRADE 0.5'
	CONTOUR
	FINISH GRADE 1.0'
	CONTOUR
	EXIST. GRADE 2.0'
	CONTOUR
	EXIST. GRADE 10.0'
	CONTOUR
	PROPOSED FENCE
	PROPOSED GRADING LIMITS
	ASPHALT
	CONCRETE



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**2019 - 2020 NEW HONDO SENIOR CENTER  
 HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - CIVIL CONTROL PLAN**

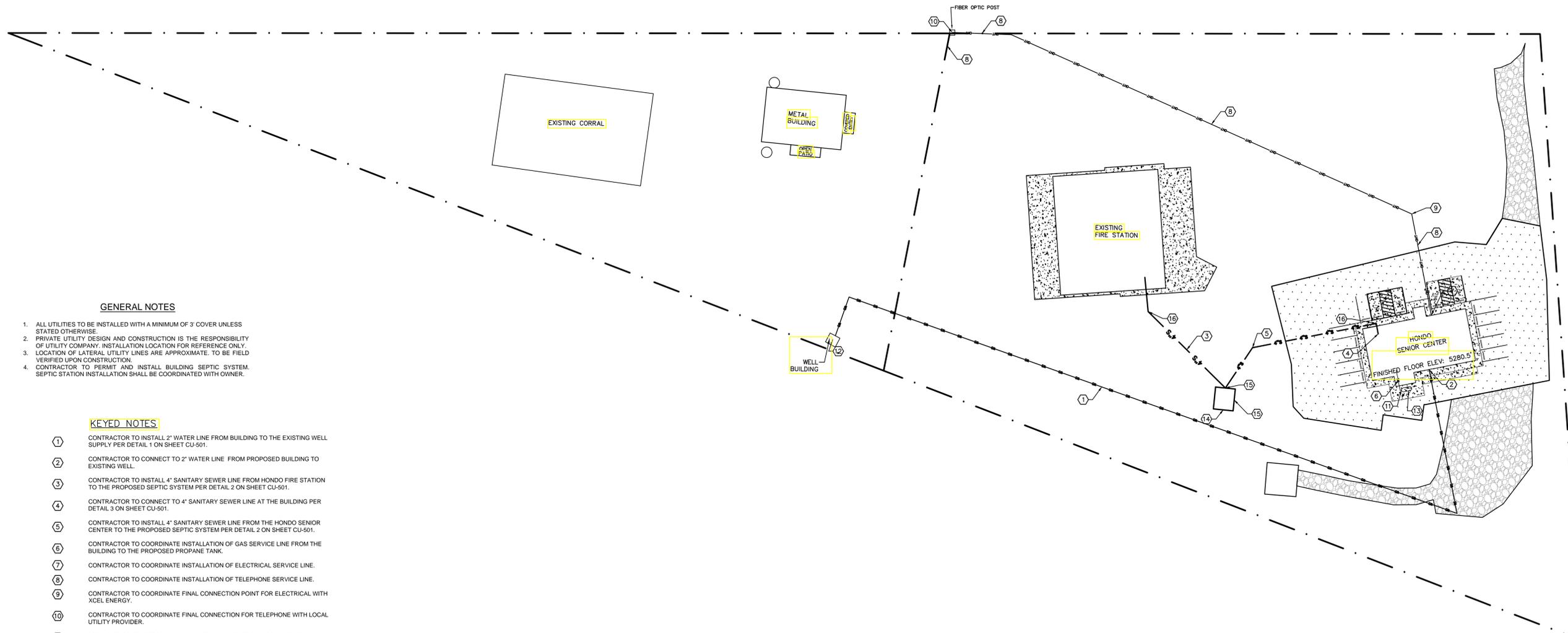
Issue Date: 12-04-2019  
 Drawn by: BF  
 Checked by: TT  
 Revisions:

CC-101

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U.S. HIGHWAY NO. 380



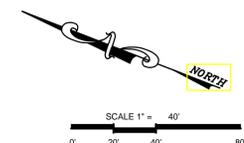
**GENERAL NOTES**

1. ALL UTILITIES TO BE INSTALLED WITH A MINIMUM OF 3' COVER UNLESS STATED OTHERWISE.
2. PRIVATE UTILITY DESIGN AND CONSTRUCTION IS THE RESPONSIBILITY OF UTILITY COMPANY. INSTALLATION LOCATION FOR REFERENCE ONLY.
3. LOCATION OF LATERAL UTILITY LINES ARE APPROXIMATE. TO BE FIELD VERIFIED UPON CONSTRUCTION.
4. CONTRACTOR TO PERMIT AND INSTALL BUILDING SEPTIC SYSTEM. SEPTIC STATION INSTALLATION SHALL BE COORDINATED WITH OWNER.

**KEYED NOTES**

- ① CONTRACTOR TO INSTALL 2" WATER LINE FROM BUILDING TO THE EXISTING WELL SUPPLY PER DETAIL 1 ON SHEET CU-501.
- ② CONTRACTOR TO CONNECT TO 2" WATER LINE FROM PROPOSED BUILDING TO EXISTING WELL.
- ③ CONTRACTOR TO INSTALL 4" SANITARY SEWER LINE FROM HONDO FIRE STATION TO THE PROPOSED SEPTIC SYSTEM PER DETAIL 2 ON SHEET CU-501.
- ④ CONTRACTOR TO CONNECT TO 4" SANITARY SEWER LINE AT THE BUILDING PER DETAIL 3 ON SHEET CU-501.
- ⑤ CONTRACTOR TO INSTALL 4" SANITARY SEWER LINE FROM THE HONDO SENIOR CENTER TO THE PROPOSED SEPTIC SYSTEM PER DETAIL 2 ON SHEET CU-501.
- ⑥ CONTRACTOR TO COORDINATE INSTALLATION OF GAS SERVICE LINE FROM THE BUILDING TO THE PROPOSED PROPANE TANK.
- ⑦ CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SERVICE LINE.
- ⑧ CONTRACTOR TO COORDINATE INSTALLATION OF TELEPHONE SERVICE LINE.
- ⑨ CONTRACTOR TO COORDINATE FINAL CONNECTION POINT FOR ELECTRICAL WITH XCEL ENERGY.
- ⑩ CONTRACTOR TO COORDINATE FINAL CONNECTION FOR TELEPHONE WITH LOCAL UTILITY PROVIDER.
- ⑪ CONTRACTOR TO COORDINATE FINAL CONNECTION POINT FOR THE GAS LINE WITH LOCAL UTILITY PROVIDER.
- ⑫ CONTRACTOR TO COORDINATE FINAL CONNECTION POINT FOR WATER LINE WITH OWNER.
- ⑬ PROPANE TANK BY OTHERS.
- ⑭ SEPTIC SYSTEM BY OTHERS.
- ⑮ CONTRACTOR TO INSTALL DOUBLE SEWER CLEAN OUT PER DETAIL 4, SHEET CU-501.
- ⑯ CONTRACTOR TO INSTALL SINGLE SEWER CLEAN OUT PER DETAIL 5, SHEET CU-501.

LEGEND	
	GAS LINE
	4" DIA. SEWER LINE
	2" DIA. WATER MAIN
	OVERHEAD ELECTRIC LINE
	OVERHEAD TELEPHONE
	PROPERTY LINE
	EXISTING FIRE HYDRANT
	SEWER MANHOLE
	ELECTRIC SERVICE POLE
	ASPHALT
	CONCRETE
	GRAVEL



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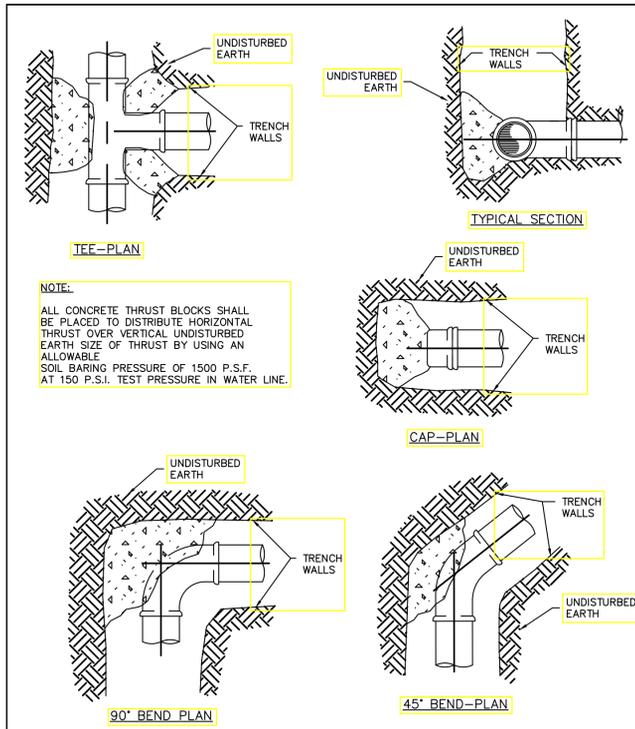
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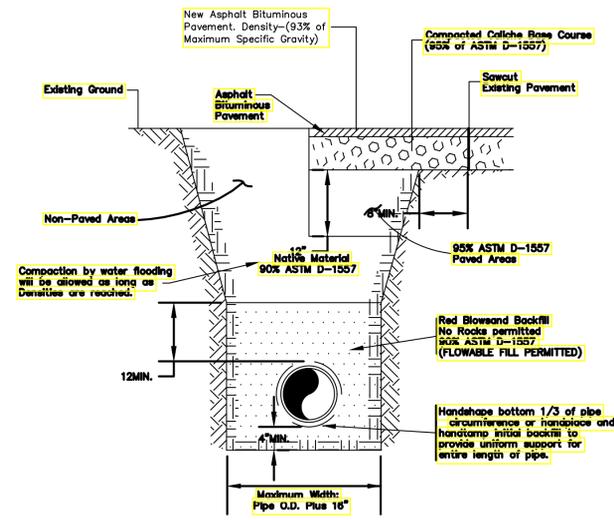
**2019 - 2020 NEW HONDO SENIOR CENTER  
 HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - CIVIL UTILITY PLAN**

Issue Date: 12-04-2019  
 Drawn by: BF  
 Checked by: DR  
 Revisions:

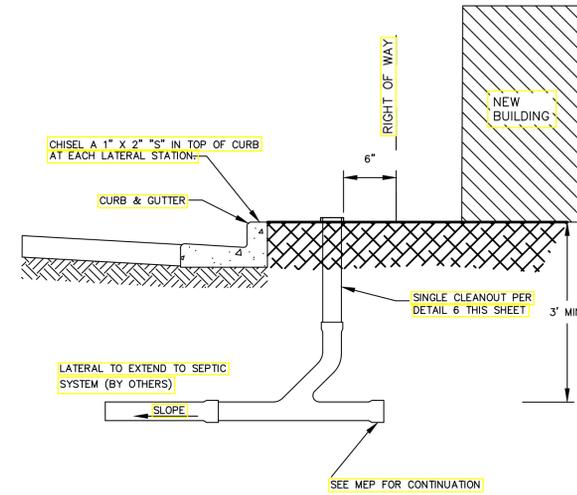
**CU-101**



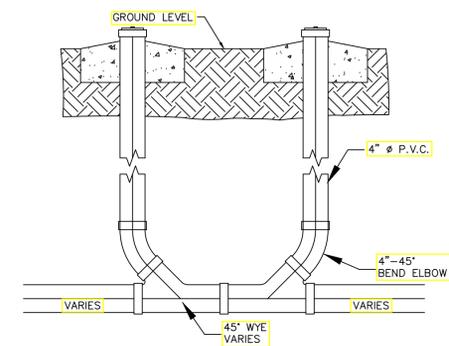
**1** CONCRETE HORIZONTAL BLOCK FOR WATER INSTALLATION N.T.S.



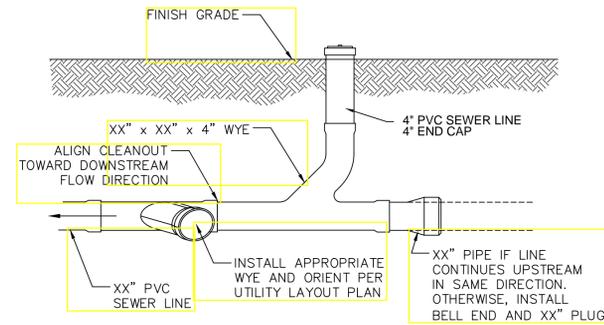
**2** TRENCH DETAIL N.T.S.



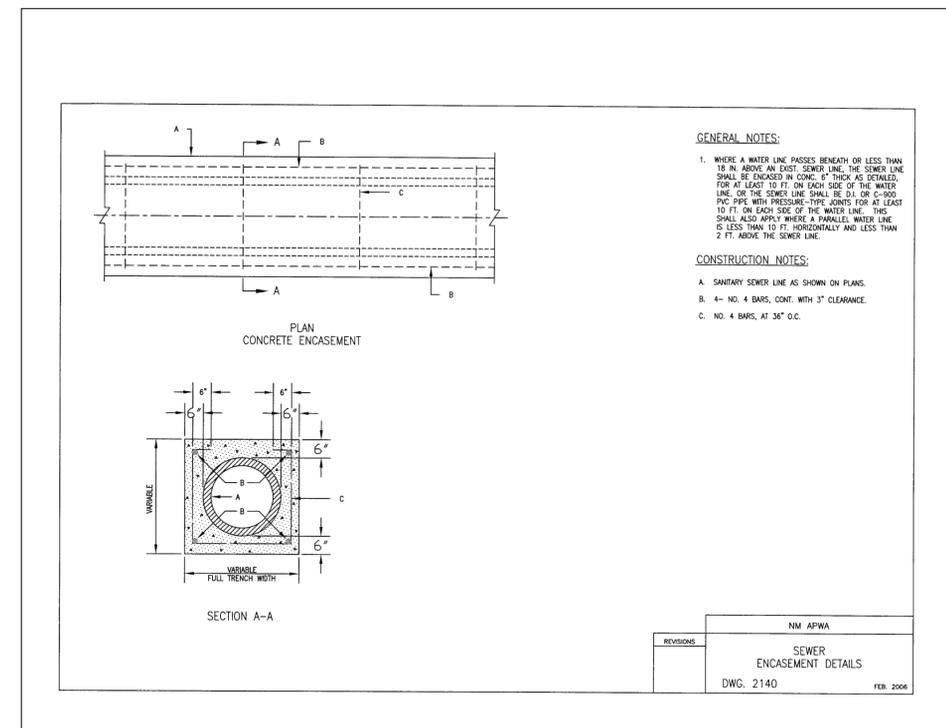
**3** SEWER CONNECTION N.T.S.



**4** DOUBLE SEWER CLEANOUT N.T.S.



**5** SINGLE SEWER CLEANOUT N.T.S.



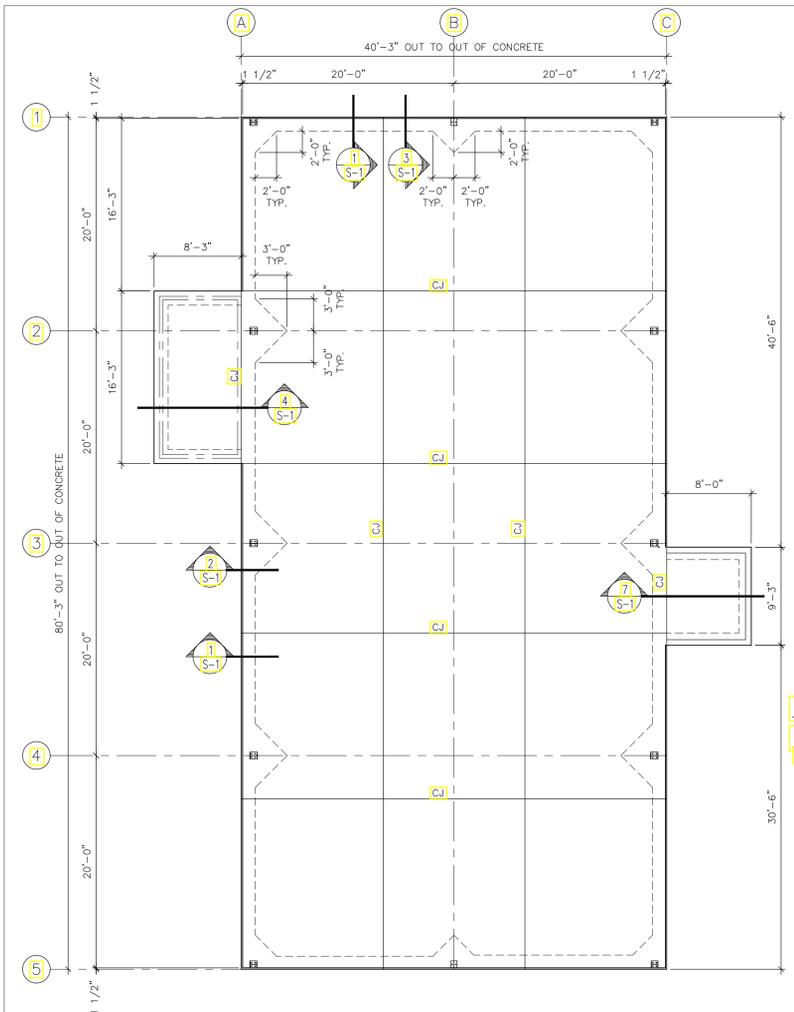
**6** SEWER CONCRETE ENCASEMENT DETAIL SCALE: 1\"/>



David Royval  
 12/04/2019

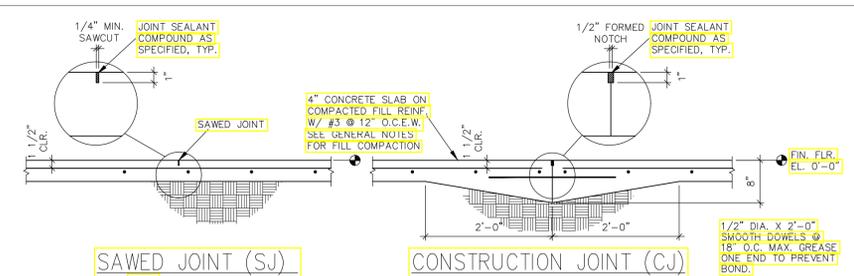
Issue Date: 12-04-2019
Drawn by: TT
Checked by: AC
Revisions:

CU-501



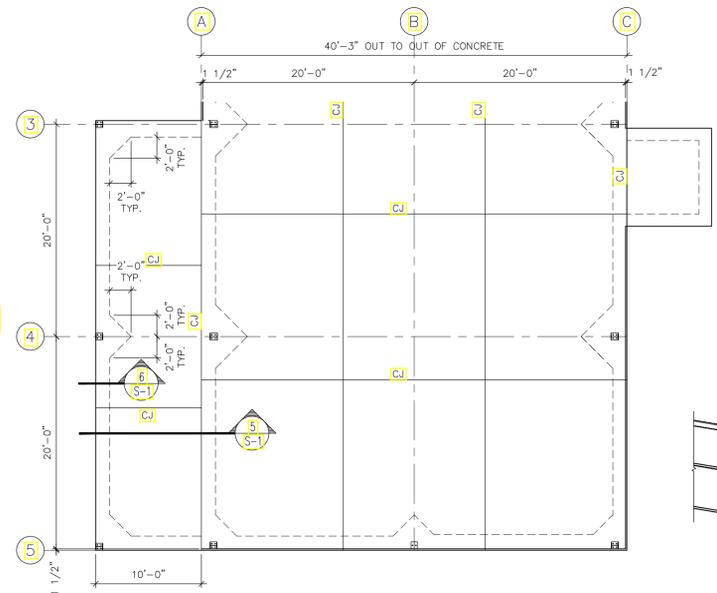
**FOUNDATION PLAN - BASE BID**  
SCALE: 1/8" = 1'-0"

NOTES:  
SEE THE SITE PLAN FOR LOCATION, ORIENTATION AND DATUM ELEVATION OF BUILDING FINISH FLOOR. COORDINATE THIS DRAWING WITH THE MANUFACTURERS ANCHOR BOLT SETTING PLAN FOR ALL BOLT SETTING LOCATIONS AND DETAILS.



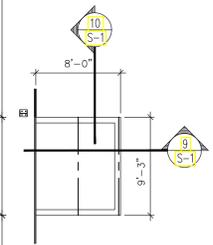
**SAWED JOINT (SJ) CONSTRUCTION JOINT (CJ)**

**8 SLAB ON GRADE JOINT DETAILS**  
SCALE: 3/4" = 1'-0"



**PARTIAL FOUNDATION PLAN - ADDITIVE ALTERNATE NO. 1**  
SCALE: 1/8" = 1'-0"

**PARTIAL ROOF PLAN AT ENTRY**  
SCALE: 1/8" = 1'-0"



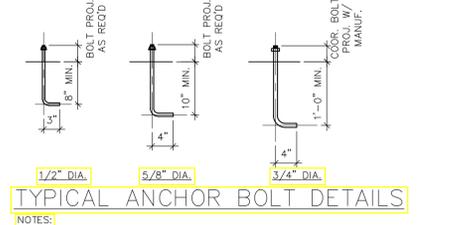
**GENERAL NOTES:**  
CONCRETE: ALL CONCRETE, UNLESS OTHERWISE NOTED Fc=3000 PSI @ 28 DAYS. CONCRETE PROTECTION FOR REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE AS FOLLOWS:  
CONCRETE DEPOSITED AGAINST EARTH - 3 INCHES CONCRETE BELOW GROUND DEPOSITED AGAINST FORMS 2 INCHES SLABS ON GRADE - 2 INCHES FROM TOP  
ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60. PROVIDE CONTINUITY OF REINFORCEMENT IN REINFORCED CONCRETE MEMBERS AND MASONRY BOND BEAMS AT CORNERS BY PROVIDING CORNER BARS OF SAME SIZE AND SPACING AS BARS BEING LAPPED. ALL LAPS SHALL BE OF SUFFICIENT LENGTH TO DEVELOP THE STRENGTH OF THE BAR. PROVIDE BAR SUPPORTS FOR ALL REINFORCING STEEL.  
ALL INTERIOR SLABS ON GRADE, UNLESS OTHERWISE NOTED, SHALL BE 4" THICK REINFORCED W/ #3 @ 12" O.C.E.W.  
THE SECTIONS, DETAILS AND NOTES SHOWN ON THE DRAWINGS ARE TYPICAL AND ARE APPLICABLE TO SIMILAR CONDITIONS THROUGHOUT THE DRAWINGS UNLESS OTHERWISE SPECIFIED. PROVIDE ALL MEASURES NECESSARY TO PROVIDE JOB SAFETY AND PROTECTION OF WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.  
THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DAMAGE TO THE STRUCTURE.

**FOUNDATION NOTES:**  
SITE PREPARATION: REMOVE EXISTING CONSTRUCTION, PAVEMENTS, VEGETATION, DEBRIS, UNSATISFACTORY MATERIALS FROM GROUND SURFACE. SOILS THROUGHOUT THE ENTIRE BUILDING PAD SHALL BE EXCAVATED TO 2'-0" BELOW THE BOTTOM OF FOOTING ELEVATION. THE BUILDING PAD IS DEFINED BY A LINE APPROXIMATELY 2'-0" BEYOND THE EXTERIOR FACE OF THE CONTINUOUS TURNDOWN WHEN MEASURED AT THE BOTTOM OF THE SUBEXCAVATION. THE EXPOSED SUBGRADE AT THIS LEVEL SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 8" AND RECOMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 COMPACTION TEST. THE WATER CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT UNTIL PERMANENTLY COVERED. SUBGRADE COMPACTED WETTER THAN 3% PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT SHOULD NOT BE ACCEPTED WITHOUT APPROVAL BY THE GEOTECHNICAL ENGINEER. THE SOILS AT THE BOTTOM OF FOUNDATION EXCAVATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.  
STRUCTURAL FILL: MATERIALS USED AS STRUCTURAL FILL SHALL BE GRANULAR, FREE OF SLEETS, LENS, MATERIALS AND HAVE A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 12. STRUCTURAL FILL SHOULD BE PLACED IN 8" THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 COMPACTION TEST.  
ALL FOOTINGS SHALL BE FORMED WHENEVER THE CONCRETE CANNOT BE PLACED AGAINST SOLID EARTH EXCAVATION. ALL FOOTINGS SHALL BE EXCAVATED NEATLY AND, PRIOR TO PLACEMENT OF REINFORCEMENT AND CONCRETE, THE BASE SHALL BE COMPACTED AS SPECIFIED. ANY OVER-EXCAVATION SHALL BE FILLED WITH CONCRETE.

**STEEL ROOF DECK:**  
THE STEEL ROOF DECK SHALL BE 1 1/2" X 22 GAGE, TYPE B NESTABLE. THE FOLLOWING MINIMUM SECTION PROPERTIES PER FOOT OF WIDTH:  
I = 0.169 in<sup>4</sup> Sp = 0.186 in<sup>3</sup> Sn = 0.192 in<sup>3</sup>  
THE ROOF DECK SHALL BE CONTINUOUS OVER THREE SUPPORTS AND BE FASTENED AT EACH SUPPORT BY PUDDLE WELDING AS DETAILED. FASTEN THE ROOF DECK TO THE SILL ANGLE AT THE SUPPORT WALL PARALLEL TO THE DECK SPAN AS NOTED.  
MECHANICALLY FASTEN SIDE LAPS OF ADJACENT UNITS BETWEEN SUPPORTS AT 24" ON CENTER USING SELF DRILLING AND TAPPING NO. 8 OR LARGER SCREWS.

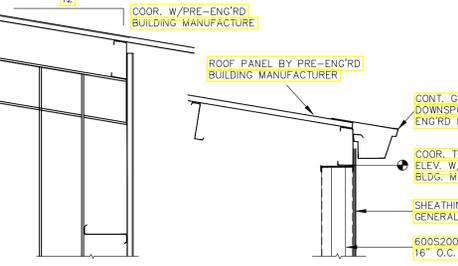
**LIGHT GAGE STEEL FRAMING:**  
LIGHT GAGE STEEL FRAMING MEMBERS SHALL BE AS NOTED ON THE DRAWINGS WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:  
600S200-54 Ixx = 3.319 in<sup>4</sup> Sxx = 1.106 in<sup>3</sup>  
600T200-54 Ixx = 3.145 in<sup>4</sup> Sxx = 1.015 in<sup>3</sup>  
LEGEND:  
DEPTH OF MEMBER 600 S/T 200 -54  
MEMBER TYPE I-TRACK MIN. METAL THICKNESS (MILLS)  
FLANGE WIDTH  
ALL MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM YIELD STRENGTH OF 40 KSI.  
ALL STEEL STUDS NOT INTERRUPTED BY DOOR/WINDOW OPENINGS SHALL RUN CONTINUOUS FROM FIRST FLOOR TO THE TOP OF PARAPET. STEEL STUDS INTERRUPTED BY DOOR/WINDOW OPENINGS WILL RUN CONTINUOUS BETWEEN OPENINGS AND BETWEEN OPENINGS AND TOP OF PARAPET. I.E., THERE WILL BE NO SPICING OF THE STEEL STUDS.  
ALL TRACK AND PERIMETER CHANNEL SHALL BE UNPUNCHED DEEP LEG TRACK NOMINALLY THE SAME SIZE AND GAGE AS THE STEEL STUDS/JOISTS. THE TRACK AND PERIMETER CHANNEL SHALL BE FORMED FROM A STANDARD COMMERCIAL STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.  
THE BASE TRACK SHALL BE ANCHORED TO THE FLOOR WITH 5/32" DIA. LOW VELOCITY POWER DRIVEN FASTENERS AT 16" O.C. WITH 1/4" MINIMUM PENETRATION OF FASTENERS. BUTT WELDS OR SPICES SHALL BE USED AT ALL JOINTS IN THE TRACK.

**SHEDDING:**  
EXTERIOR WALL SHEATHING SHALL BE STANDARD 1/2" THICK DFPA GRADE TRADE MARKED WITH IDENTIFICATION INDEX 24716 WITH EXTERIOR GRADE APPLIED HORIZONTALLY. STAGGER PANEL END JOINTS AND BUTT PANEL ENDS TO A CLOSE BUT NOT TIGHT FIT (ALLOW 1/16" GAP BETWEEN PANEL ENDS AND 1/8" GAP BETWEEN PANEL EDGES). PANELS SHALL BE SCREWED W/ SELF DRILLING AIR TAPPING SCREWS AT 6" O.C. ALONG PANEL EDGES AND AT 12" O.C. ALONG INTERMEDIATE SUPPORTS.

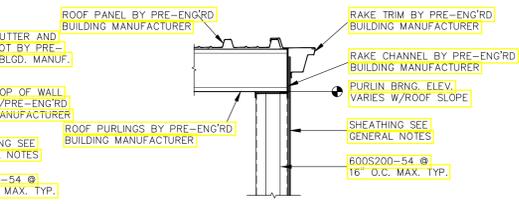


**TYPICAL ANCHOR BOLT DETAILS**

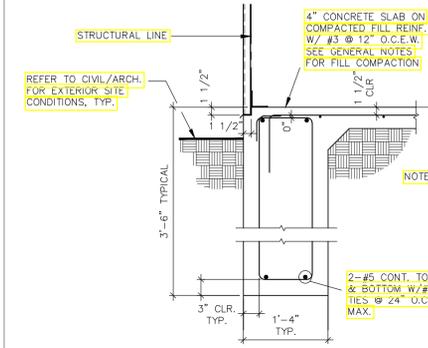
NOTES:  
COORDINATE ANCHOR BOLT SIZE, NUMBER AND LOCATIONS WITH THE BUILDING MANUFACTURERS ANCHOR BOLT SETTING PLAN AND DETAILS.



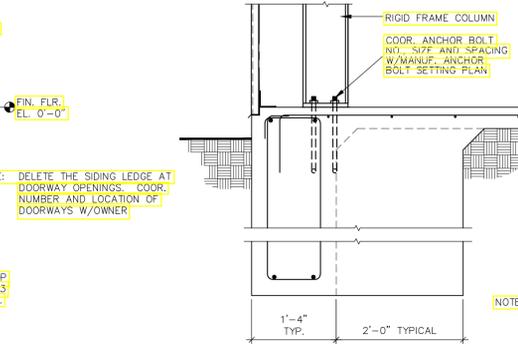
**9 SECTION**  
SCALE: 3/4" = 1'-0"



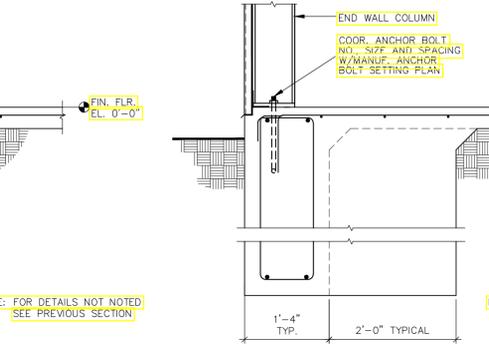
**10 SECTION**  
SCALE: 3/4" = 1'-0"



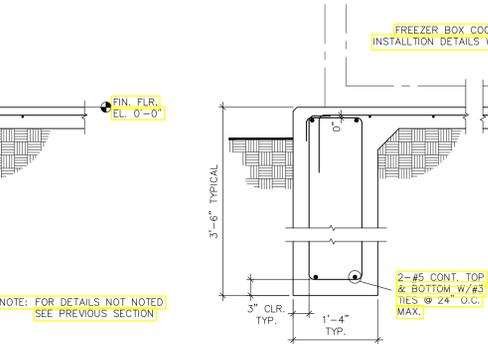
**1 SECTION**  
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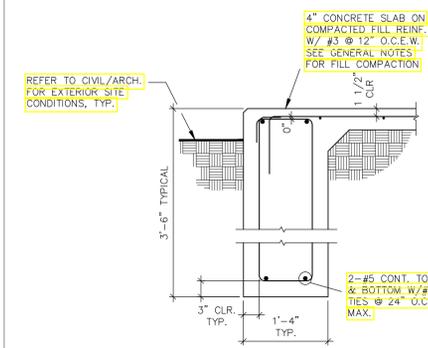
**2 SECTION**  
SCALE: 3/4" = 1'-0"



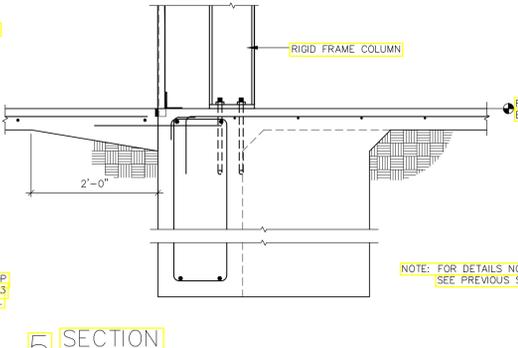
**3 SECTION**  
SCALE: 3/4" = 1'-0"



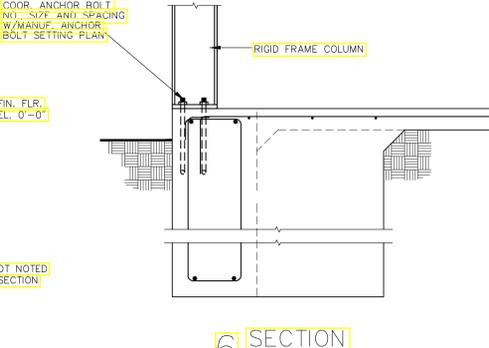
**4 SECTION**  
SCALE: 3/4" = 1'-0"



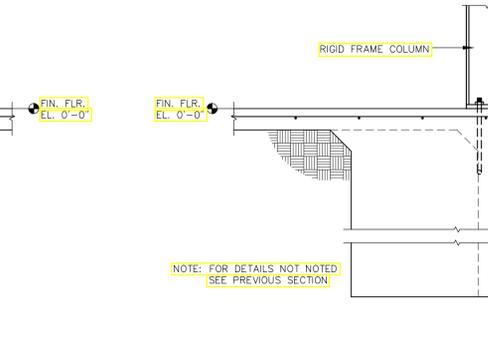
**5 SECTION**  
SCALE: 3/4" = 1'-0"



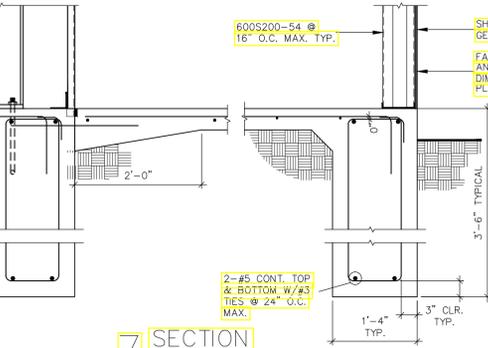
**6 SECTION**  
SCALE: 3/4" = 1'-0"



**7 SECTION**  
SCALE: 3/4" = 1'-0"



**8 SECTION**  
SCALE: 3/4" = 1'-0"

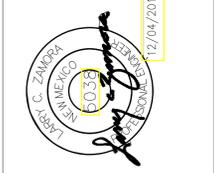


**9 SECTION**  
SCALE: 3/4" = 1'-0"



**10 SECTION**  
SCALE: 3/4" = 1'-0"

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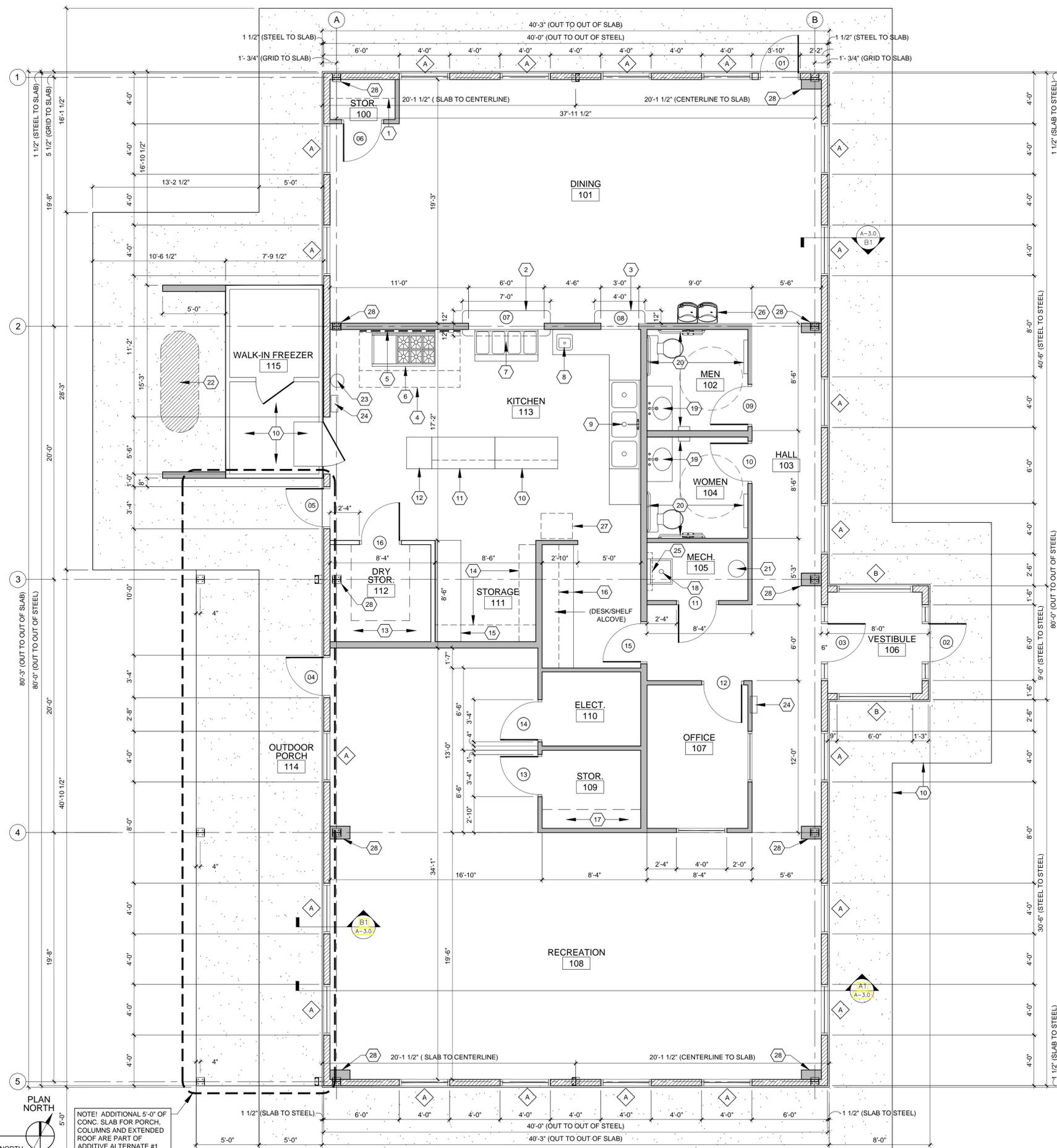


**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM

Issue Date: 06/08/2018

Drawn by:	
Checked by:	
Revisions:	





**A1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TRUE NORTH

NOTE! ADDITIONAL 5'-0" OF CONC. SLAB FOR PORCH, COLUMNS AND EXTENDED ROOF ARE PART OF ADDITIVE ALTERNATE #1

**GENERAL NOTES**

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR SECURING REQUIRED BUILDING PERMITS AND SCHEDULING ALL REQUIRED INSPECTIONS.
2. ALL WORK BY CONTRACTOR SHALL BE IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES AS LISTED ON THE COVER SHEET.
3. ALL WORK BY SUBCONTRACTORS SHALL BE PERFORMED BY LICENSED SUBCONTRACTORS RESPECTIVE OF THEIR DISCIPLINE.
4. ALL EXCESS BUILDING MATERIALS AND DEBRIS SHALL BE LEGALLY AND PROPERLY DISPOSED OF.
5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROPERLY TERMINATING, RECONNECTING OR CAPPING OFF EXISTING UTILITIES REQUIRED BY THE WORK, RESPECTIVE TO THEIR DISCIPLINE AND IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES.
6. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ARCHITECT OF CONFLICTS WITHIN THE CONTRACT DOCUMENTS OR WHEN THE DOCUMENTS MAY BE IN CONFLICT WITH EXISTING FIELD CONDITIONS.
7. ALL DIMENSIONS UNLESS NOTED OTHERWISE ARE TO THE FACE OF STUD AND/OR STRUCTURE.
8. UNLESS NOTED OTHERWISE, ALL DOORS SHALL BE LOCATED 4" FROM ADJACENT PERPENDICULAR WALLS.

**SHEET KEYNOTES**

1. FOUR 18"(D) X 80"(L) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON TWO ADJUSTABLE SHELF STANDARDS.
2. 1-1/2" THICK PLAS. LAM. COUNTERTOP (4" RADIUS CORNERS) @ 42" A.F.F.
3. 1-1/2" THICK PLAS. LAM. COUNTERTOP (4" RADIUS CORNERS) @ 42" A.F.F.
4. EXISTING RANGE HOOD AND ANSEL SYSTEM REINSTALLED FROM OLD CENTER.
5. 24 GA. STAIN. STEEL PANELING BEHIND RANGE/OVEN 8'-0"(L) X 10'-0" (H).
6. EXISTING RANGE/OVEN REINSTALLED FROM OLD CENTER.
7. EXISTING FOOD WARMER REINSTALLED FROM OLD CENTER.
8. NEW COUNTERTOP SINK, SEE MECH., REINSTALL EXISTING WATER FILTER FROM OLD CENTER.
9. 3 COMPARTMENT S.S. SINK, REINSTALLED FROM OLD CENTER.
10. 30" (D) X 60" (W) X 63" (H) S.S. WORKTABLE WITH 2 CHROME WIRE UNDERSHELVES AND 2 CHROME WIRE OVERSHELVES, MFG. BY 'EAGLE GROUP' MODEL: T3060EW-2, (800) 441-8440, info@eaglegrp.com, O.A.E.
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12. S.S. TABLE AND MIXER REINSTALLED FROM OLD CENTER.
13. FOUR 20"(D) X 7'-8" TO 8'-0"(LONG, VERIFY IN FIELD) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON MINIMUM OF TWO ADJUSTABLE SHELF STANDARDS PER SIDE.
14. FOUR 18"(D) X 7'-8" TO 8'-0"(LONG, VERIFY IN FIELD) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON MINIMUM OF TWO ADJUSTABLE SHELF STANDARDS PER SIDE.
15. EXISTING S.S. WORKTABLE TO BE RELOCATED FROM OLD CENTER.
16. 30" (D) X 1-1/2" THICK PLAS. LAM. COUNTERTOP MTD. @ 30" A.F.F. WITH TWO 16"(D) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON TWO ADJUSTABLE SHELF STANDARDS. WIDTH OF COUNTERTOP & SHELVES IS APPROXIMATELY 7'-8", VERIFY EXACT DIMENSIONS IN FIELD.
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18. UTILITY SINK, SEE MECHANICAL.
19. COUNTERTOP SINK IN 36" (W) X 25-1/2" (D) PLAS. LAM. COUNTERTOP WITH 4" BACKSPASH AND PLAS. LAM. CABINET BELOW, WITH 24"(W) X 36" (T) TILTED A.D.A. COMPLIANT MIRROR, BY BOBRICK, MODEL B-293 2436, O.A.E.
20. TOILET ACCESSORIES: GRAB BARS: (SIDE) BOBRICK B-5806 X 48, (REAR) BOBRICK B-5806 X 36, (VERTICAL) BOBRICK B-5806 X 24. TOILET PAPER DISPENSERS: TWO ROLLS, BOBRICK B-2740 SURFACE MTD. PAPER TOWEL DISPENSERS: BOBRICK B-2622. DIAPER CHANGING STATION: BOBRICK B-2200, OR APPROVED EQUAL ON ANY OF THESE ACCESSORIES. SEE SPECIFICATIONS, SECTION 102813.
21. WATER HEATER, SEE MECHANICAL.
22. PROPANE TANK LOCATION (TANK BY OTHERS).
23. WET CHEMICAL FIRE EXTINGUISHER MOUNTED ON WALL HOOK.
24. 10 LBS. TYPE 'A.B.' FIRE EXTINGUISHER IN CABINET, TYP. TYPE 'K' IN KITCHEN.
25. MOP HOLDER AND SHELF, SEE SPECIFICATIONS, SECTION 10283.
26. DOUBLE LEVEL DRINKING FOUNTAIN, SEE MECHANICAL.
27. ICE MACHINE (BY OWNER).
28. WRAP EXPOSED STRUCT. COLUMN FRAMES WITH 3 - 5 1/8" MTL. STUDS & 5/8" GYP. BD.

**MATERIAL LEGEND**

	EXTERIOR WALLS: METAL R-PANEL OVER 6" 22 GA. MTL. STUDS @ 16" O.C. WITH R-19 BATT INSULATION AND 5/8" TYPE X GYP. BD. UNLESS NOTED OTHERWISE
	INTERIOR PARTITIONS: 3-5/8" OR 6" 22 GA. MTL. STUDS @ 16" O.C. WITH 5/8" TYPE "X" GYP. BD. EACH SIDE AND 4" RUBBER BASE (TYP). SEE PLAN FOR DIMENSION OF WALL THICKNESS.
	SUPPLY AIR DIFFUSER, 24" X 24" - REF. TO MECH.
	RETURN AIR GRILLE, 24" X 24" - REF. TO MECH.
	SUPPLY AIR DIFFUSER, 12" X 12" - REF. TO MECH.
	RETURN AIR GRILLE, 12" X 12" - REF. TO MECH.
	EXHAUST FAN - REF. TO MECH.
	FLUORESCENT CAN DOWNLIGHT - REF. TO ELECT.
	FLUORESCENT LAY-IN FIXTURE - REF. TO ELECT.
	SURFACE MOUNTED FIXTURE, REF. TO ELECT.
	EXIT SIGN - REF. TO ELECT.
	36" LONG GLOBE LAMP THEATRICAL STRIP LIGHT
	24" X 48" ACOUSTICAL LAY-IN GRID AND CEILING PANELS
	5/8" TYPE "X" GYP. BD. SUSPENDED ON HAT CHANNELS

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STATE OF NEW MEXICO  
Gary J. Yabumoto  
No. 3275  
12/05/19  
REGISTERED ARCHITECT

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM

**HONDO SENIOR CENTER - FLOOR PLAN**

Issue Date: 12/02/19  
Drawn by: GY  
Checked by: GY  
Revisions:  
DATE  
DATE  
DATE  
DATE

**A-1.0**

## GENERAL NOTES

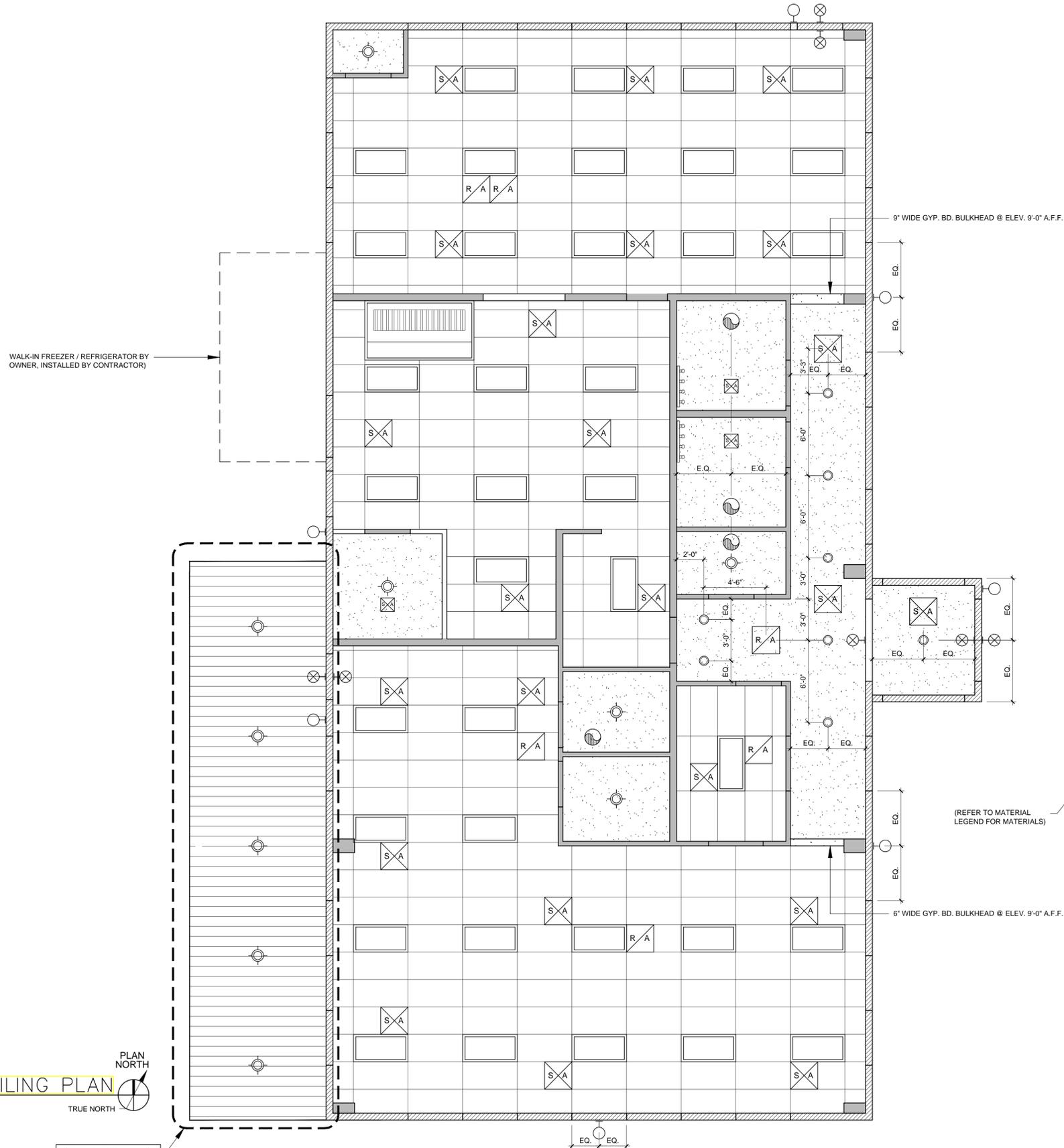
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## SHEET KEYNOTES

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2. 1-1/2" THICK PLAS. LAM. COUNTERTOP (4" RADIUS CORNERS) @ 42" A.F.F.
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23. WET CHEMICAL FIRE EXTINGUISHER MOUNTED ON WALL HOOK.
24. 10 LBS. TYPE "A.B.C." FIRE EXTINGUISHER IN CABINET, TYP. TYPE "K" IN KITCHEN.
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	FLUORESCENT LAY-IN FIXTURE - REF. TO ELECT.
	SURFACE MOUNTED FIXTURE, REF. TO ELECT.
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	24" X 48" ACOUSTICAL LAY-IN GRID AND CEILING PANELS
	5/8" TYPE 'X' GYP. BD. SUSPENDED ON HAT CHANNELS



**A1 REFLECTED CEILING PLAN**  
SCALE: 1/4" = 1'-0"



NOTE! ADDITIONAL 5'-0" OF CONC. SLAB FOR PORCH, COLUMNS AND EXTENDED ROOF ARE PART OF ADDITIVE ALTERNATE #1

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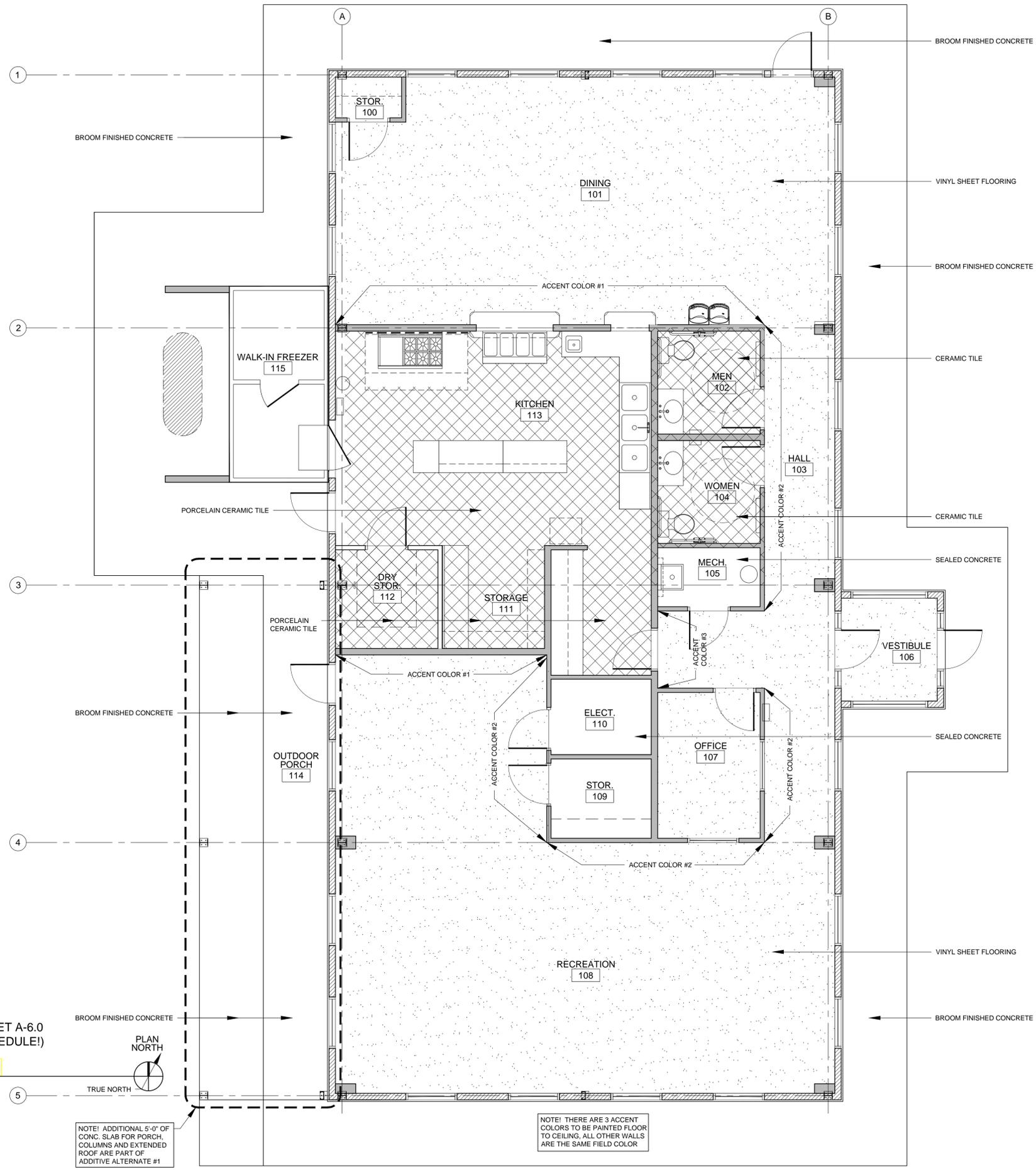
STATE OF NEW MEXICO  
Gary J. Yabumoto  
No. 3275  
12/05/19  
REGISTERED ARCHITECT

# 2019 - 2020 HONDO SENIOR CENTER HONDO, NEW MEXICO for LINCOLN COUNTY, NM

Issue Date	08/2018
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Checked by	ky
Revisions:	
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DATE	
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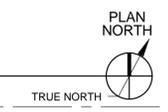
**A-1.1**

HONDO SENIOR CENTER - REFLECTED CEILING PLAN



(NOTE: REFER TO SHEET A-6.0 FOR ROOM FINISH SCHEDULE!)

**A1 FINISH PLAN**  
SCALE: 1/4" = 1'-0"



NOTE! ADDITIONAL 5'-0" OF CONC. SLAB FOR PORCH, COLUMNS AND EXTENDED ROOF ARE PART OF ADDITIVE ALTERNATE #1

NOTE! THERE ARE 3 ACCENT COLORS TO BE PAINTED FLOOR TO CEILING, ALL OTHER WALLS ARE THE SAME FIELD COLOR

**GENERAL NOTES**

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**SHEET KEYNOTES**

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**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM

**HONDO SENIOR CENTER - FINISH PLAN**

Issue Date: 08/2018  
Drawn by: [Signature]  
Checked by: [Signature]  
Revisions:  
DATE [Signature]  
DATE [Signature]  
DATE [Signature]

**A-1.2**



**A1** SOUTH & EAST ELEVATIONS  
SCALE: NTS



**B2** NORTH & WEST ELEVATIONS  
SCALE: NTS

**GENERAL NOTES**

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR SECURING REQUIRED BUILDING PERMITS AND SCHEDULING ALL REQUIRED INSPECTIONS.
2. ALL WORK BY CONTRACTOR SHALL BE IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES AS LISTED ON THE COVER SHEET.
3. ALL WORK BY SUBCONTRACTORS SHALL BE PERFORMED BY LICENSED SUBCONTRACTORS RESPECTIVE OF THEIR DISCIPLINE.
4. ALL EXCESS BUILDING MATERIALS AND DEBRIS SHALL BE LEGALLY AND PROPERLY DISPOSED OF.
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7. ALL DIMENSIONS UNLESS NOTED OTHERWISE ARE TO THE FACE OF STUD AND/OR STRUCTURE.
8. UNLESS NOTED OTHERWISE, ALL DOORS SHALL BE LOCATED 4" FROM ADJACENT PERPENDICULAR WALLS.

**SHEET KEYNOTES**

1. FOUR 18"(D) X 60"(L) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON TWO ADJUSTABLE SHELF STANDARDS.
2. 1-1/2" THICK PLAS. LAM. COUNTERTOP (4" RADIUS CORNERS) @ 42" A.F.F.
3. 1-1/2" THICK PLAS. LAM. COUNTERTOP (4" RADIUS CORNERS) @ 42" A.F.F.
4. EXISTING RANGE HOOD AND ANSEL SYSTEM REINSTALLED FROM OLD CENTER.
5. 24 GA. STAIN. STEEL PANELING BEHIND RANGE/OVEN 8'-0"(L) X 10'-0" (H).
6. EXISTING RANGE/OVEN REINSTALLED FROM OLD CENTER.
7. EXISTING FOOD WARMER REINSTALLED FROM OLD CENTER.
8. NEW COUNTERTOP SINK, SEE MECH., REINSTALL EXISTING WATER FILTER FROM OLD CENTER.
9. 3 COMPARTMENT S.S. SINK, REINSTALLED FROM OLD CENTER.
10. 30" (D) X 60" (W) X 63" (H) S.S. WORKTABLE WITH 2 CHROME WIRE UNDERSHELVES AND 2 CHROME WIRE OVERSHELVES, MFG. BY 'EAGLE GROUP' MODEL: T3060EW-2, (800) 441-8440, info@eaglegrp.com, O.A.E.
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13. FOUR 20"(D) X 7'-8" TO 8'-0" (LONG, VERIFY IN FIELD) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON MINIMUM OF TWO ADJUSTABLE SHELF STANDARDS PER SIDE.
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15. EXISTING S.S. WORKTABLE TO BE RELOCATED FROM OLD CENTER.
16. 30" (D) X 1-1/2" THICK PLAS. LAM. COUNTERTOP MTD. @ 30" A.F.F. WITH TWO 16"(D) X 3/4"(T) FINISH GRADE PLYWOOD SHELVES (PAINTED) WITH 3/4" X 3/4" HARDWOOD NOSINGS, ON TWO ADJUSTABLE SHELF STANDARDS. WIDTH OF COUNTERTOP & SHELVES IS APPROXIMATELY 7'-8", VERIFY EXACT DIMENSIONS IN FIELD.
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18. UTILITY SINK, SEE MECHANICAL.
19. COUNTERTOP SINK IN 36" (W) X 25-1/2" (D) PLAS. LAM. COUNTERTOP WITH 4" BACKSPASH AND PLAS. LAM. CABINET BELOW, WITH 24"(W) X 36" (T) TILTED A.D.A. COMPLIANT MIRROR, BY BOBRICK, MODEL B-293 2436, O.A.E.
20. TOILET ACCESSORIES: GRAB BARS: (SIDE) BOBRICK B-5806 X 48, (REAR) BOBRICK B-5806 X 36, (VERTICAL) BOBRICK B-5806 X 24. TOILET PAPER DISPENSERS: TWO ROLLS, BOBRICK B-2740 SURFACE MTD. PAPER TOWEL DISPENSERS: BOBRICK B-262. DIAPER CHANGING STATION: BOBRICK B-2200, OR APPROVED EQUAL ON ANY OF THESE ACCESSORIES. SEE SPECIFICATIONS, SECTION 102813.
21. WATER HEATER, SEE MECHANICAL.
22. PROPANE TANK LOCATION (TANK BY OTHERS).
23. WET CHEMICAL FIRE EXTINGUISHER MOUNTED ON WALL HOOK.
24. 10 LBS. TYPE 'A,B,C' FIRE EXTINGUISHER IN CABINET, TYP. TYPE 'K' IN KITCHEN.
25. MOP HOLDER AND SHELF, SEE SPECIFICATIONS, SECTION 10283.
26. DOUBLE LEVEL DRINKING FOUNTAIN, SEE MECHANICAL.
27. ICE MACHINE (BY OWNER).
28. WRAP EXPOSED STRUCT. COLUMN FRAMES WITH 3 - 5 1/8" MTL. STUDS & 5/8" GYP. BD.

**MATERIAL LEGEND**

	EXTERIOR WALLS: METAL R-PANEL OVER 6" 22 GA. MTL. STUDS @ 16" O.C. WITH R-19 BATT INSULATION AND 5/8" TYPE 'X' GYP. BD. UNLESS NOTED OTHERWISE
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	SUPPLY AIR DIFFUSER, 24" X 24" - REF. TO MECH.
	RETURN AIR GRILLE, 24" X 24" - REF. TO MECH.
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	EXIT SIGN - REF. TO ELECT.
	36" LONG GLOBE LAMP THEATRICAL STRIP LIGHT
	24" X 48" ACOUSTICAL LAY-IN GRID AND CEILING PANELS
	5/8" TYPE 'X' GYP. BD. SUSPENDED ON HAT CHANNELS

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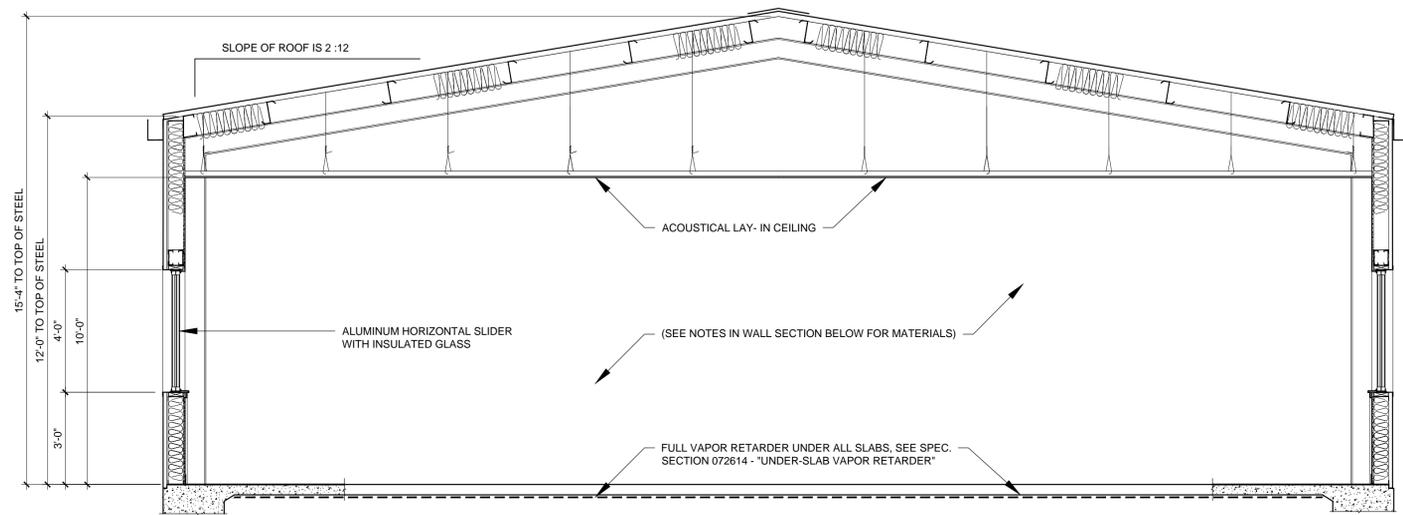
STATE OF NEW MEXICO  
Gary J. Yabumoto  
No. 3275  
12/05/19  
REGISTERED ARCHITECT

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM

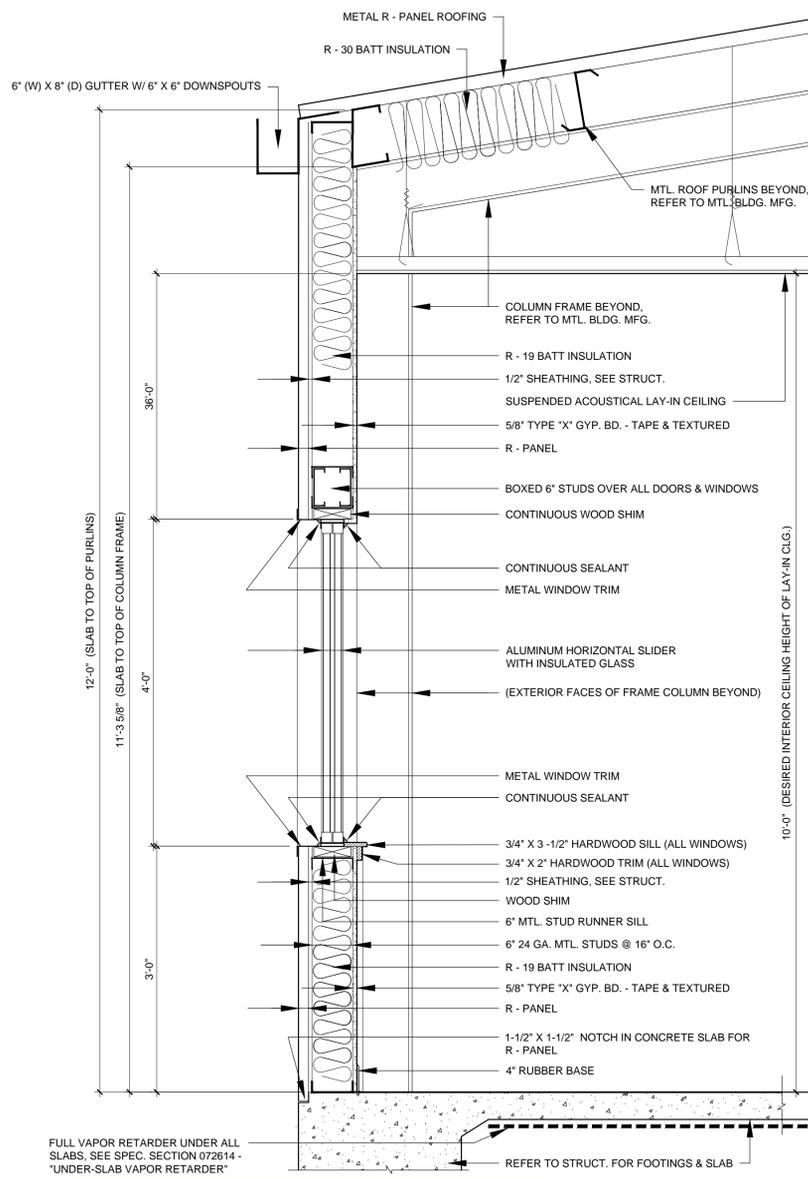
**HONDO SENIOR CENTER - EXTERIOR ELEVATIONS**

Issue Date: 08/2018  
Drawn by: [Signature]  
Checked by: [Signature]  
Revisions:  
DATE  
DATE  
DATE

**A-2.0**



**A1** BUILDING SECTION  
SCALE: 3/8" = 1'-0"



**B1** TYP. EXTERIOR WALL SECTION  
SCALE: 1" = 1'-0"

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**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
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Issue Date: 08/2018  
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**A-3.0**

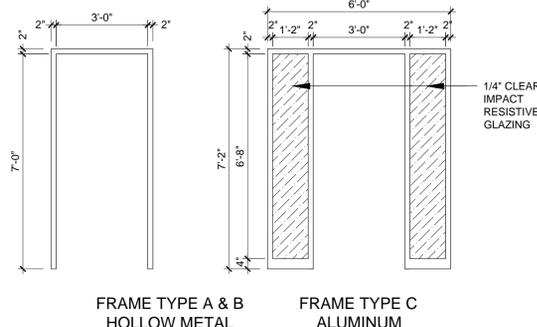
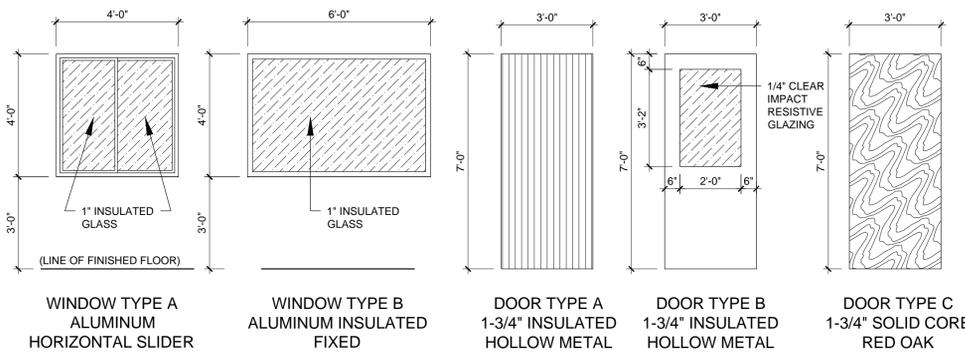
**HONDO SENIOR CENTER - SECTIONS**

ROOM FINISH AND SIGNAGE SCHEDULE																												
NO.	ROOM NAME	FLOOR	BASE	WALL	WAINSCOT	CEILING	SIGNAGE	REMARKS																				
100	STORAGE	1																										
101	DINING	1																										
102	MEN	1																										
103	HALL	1																										
104	WOMEN	1																										
105	MECHANICAL	1																										
106	VESTIBULE	1																										
107	OFFICE	1																										
108	RECREATION	1																										
109	STORAGE	1																										
110	ELECTRICAL	1																										
111	STORAGE	2																										
112	DRY STORAGE	2																										
113	KITCHEN	2																										
114	OUTDOOR PORCH	2																										
115	WALK-IN FREEZER	2																										

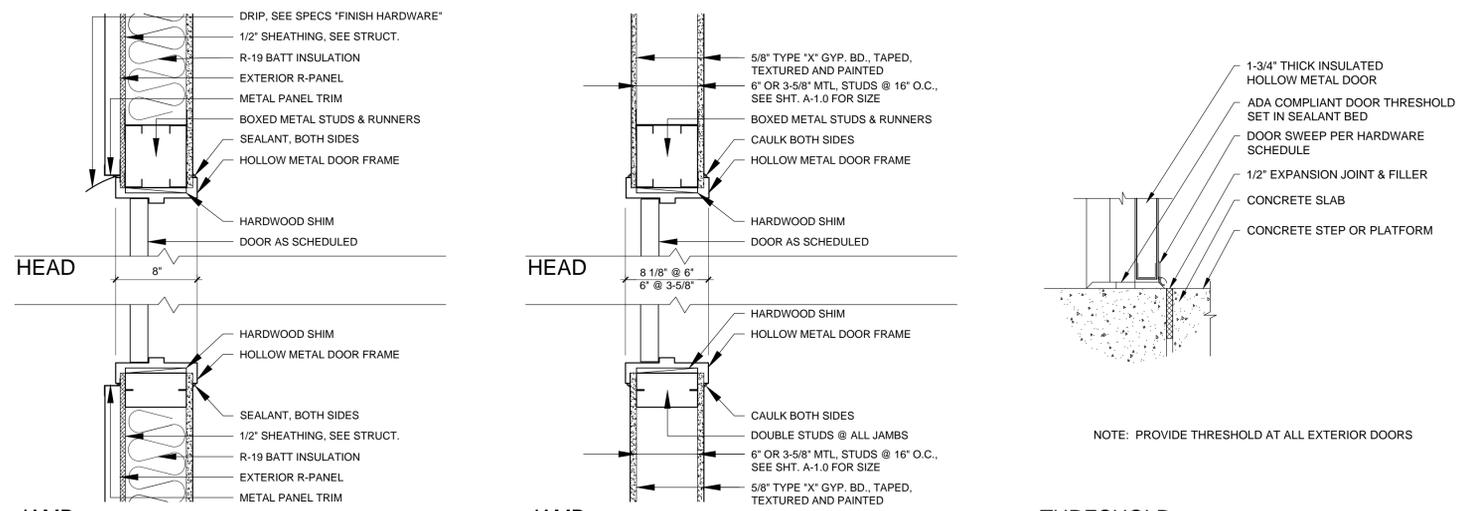
DOOR SCHEDULE										
DOOR NO.	DOOR TYPE	HARDWARE	DOOR SIZE	DOOR MAT'L.	FRAME TYPE	DETAILS	SIGNAGE	FIRE LABEL	COMMENTS	
01	A	01	3'-0" x 7'-0" x 1 3/4"	H.M.	A	C1 & C3/A-6.0	(NONE)	N.R.		
02	D	02	3'-0" x 7'-0" x 1 3/4"	ALUM.	C	C1 & C3/A-6.0 (SIM.)	(NONE)	N.R.	COORD. DETAILS W/ MFG.	
03	D	02	3'-0" x 7'-0" x 1 3/4"	ALUM.	C	C1 & C3/A-6.0 (SIM.)	(NONE)	N.R.	COORD. DETAILS W/ MFG.	
04	B	01	3'-0" x 7'-0" x 1 3/4"	H.M.	A	C1 & C3/A-6.0	(NONE)	N.R.		
05	A	03	3'-0" x 7'-0" x 1 3/4"	H.M.	A	C1 & C3/A-6.0	(NONE)	N.R.		
06	C	04	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	STORAGE	N.R.		
07	-	05	6'-0" x 3'-6" x 1"	ALUM.	(NONE)	(NONE)	(NONE)	45 MIN.	OVERHEAD COILING SHUTTER	
08	-	05	3'-0" x 3'-6" x 1"	ALUM.	(NONE)	(NONE)	(NONE)	45 MIN.	OVERHEAD COILING SHUTTER	
09	C	06	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	MEN	N.R.		
10	C	06	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	WOMEN	N.R.		
11	C	04	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	MECHANICAL	45 MIN.		
12	C	07	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	OFFICE	N.R.		
13	C	04	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	STORAGE	N.R.		
14	C	04	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	ELECTRICAL	45 MIN.		
15	C	09	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	KITCHEN	45 MIN.		
16	C	04	3'-0" x 7'-0" x 1 3/4"	S.C.W.	A	C2/A-6.0	DRY STORAGE	N.R.		

**A1 ROOM FINISH SCHEDULE**  
SCALE: (NONE)

**A2 DOOR SCHEDULE**  
SCALE: (NONE)



**B1 WINDOW, DOORS AND FRAMES**  
SCALE: 1/2" = 1'-0"



**C1 EXTERIOR DOORS**  
SCALE: 1-1/2" = 1'-0"

**C2 INTERIOR DOORS**  
SCALE: 1-1/2" = 1'-0"

**C3 EXTERIOR DOOR THRESHOLD**  
SCALE: 1-1/2" = 1'-0"

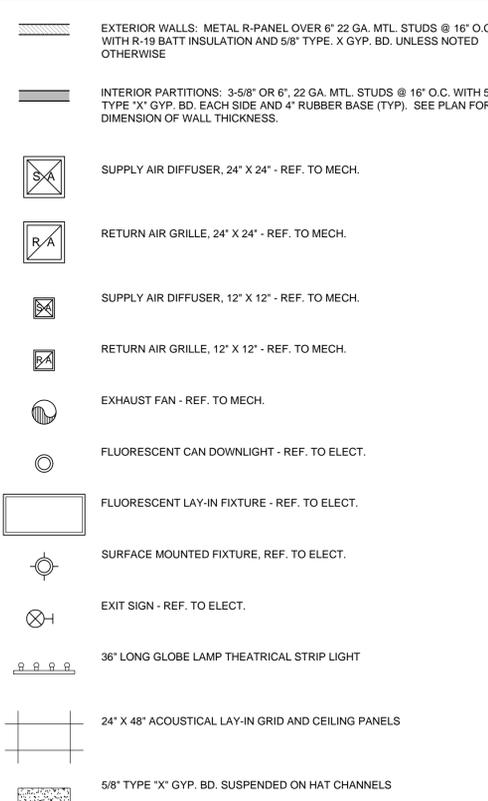
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- UTILITY SINK, SEE MECHANICAL.
- COUNTERTOP SINK IN 36" (W) X 25-1/2" (D) PLAS. LAM. COUNTERTOP WITH 4" BACKSPLASH AND PLAS. LAM. CABINET BELOW, WITH 24"(W) X 36" (T) TILTED A.D.A. COMPLIANT MIRROR, BY BOBRICK, MODEL B-293 2436, O.A.E.
- TOILET ACCESSORIES: GRAB BARS: (SIDE) BOBRICK B-5806 X 48, (REAR) BOBRICK B-5806 X 36, (VERTICAL) BOBRICK B-5806 X 24. TOILET PAPER DISPENSERS: TWO ROLLS, BOBRICK B-2740 SURFACE MTD. PAPER TOWEL DISPENSERS: BOBRICK B-262. DIAPER CHANGING STATION: BOBRICK B-2200, OR APPROVED EQUAL ON ANY OF THESE ACCESSORIES. SEE SPECIFICATIONS, SECTION 102813.
- WATER HEATER, SEE MECHANICAL.
- PROPANE TANK LOCATION (TANK BY OTHERS).
- WET CHEMICAL FIRE EXTINGUISHER MOUNTED ON WALL HOOK.
- 10 LBS. TYPE "A-B-C" FIRE EXTINGUISHER IN CABINET, TYP. TYPE "K" IN KITCHEN.
- MOP HOLDER AND SHELF, SEE SPECIFICATIONS, SECTION 10283.
- DOUBLE LEVEL DRINKING FOUNTAIN, SEE MECHANICAL.
- ICE MACHINE (BY OWNER).
- WRAP EXPOSED STRUCT. COLUMN FRAMES WITH 3 - 5/8" MTL. STUDS & 5/8" GYP. BD.

**MATERIAL LEGEND**



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STATE OF NEW MEXICO  
Gary J. Yabumoto  
No. 3275  
12/05/19  
REGISTERED ARCHITECT

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM

Issue	08/2018
Drawn by	ky
Checked by	ky
Revisions:	
DATE	
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**A-6.0**

**HONDO SENIOR CENTER - SCHEDULES & DETAILS**

# MECHANICAL SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

## GENERAL PIPING SYMBOLS

SYMBOL	DESCRIPTION
	VENTURI
	AUTOMATIC AIR VENT
	BACK FLOW PREVENTER
	BALL JOINT
	BASKET STRAINER ASSEMBLY
	BLIND FLANGE
	STEAM TRAP
	CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION (PIPE)
	FLOW DIRECTION
	PRESSURE SWITCH
	FLOW SWITCH
	GAUGE COCK CONNECTION
	GAUGE COCK & PRESSURE GAUGE
	PIPE ANCHOR
	PIPE DROP
	PIPE RISER
	PIPING GUIDE
	REFRIGERANT SITE GLASS
	STRAINER (Y TYPE) W/ BLOWDOWN & CAP
	THERMOMETER IN WELL
	DIAL THERMOMETER
	TEST PLUG
	TEST WELL
	UNION
	CONDENSATE DRAIN
	EXISTING PIPING
	FUEL OIL FILL
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	SPRING ISOLATOR - PIPE OR EQUIPMENT
	VIBRATION ISOLATOR
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	NEW PIPING
	PIPING TO REMAIN
	PIPING TO BE REMOVED
	PUMP (SCHEMATIC)
	TURBINE METER ASSEMBLY
	ORIFICE ASSEMBLY
	NEW CONNECTION TO EXISTING
	UNDERGROUND PIPING

## AIR CONDITIONING

SYMBOL	DESCRIPTION
	CHILLED/HEATING WATER RETURN
	CHILLED/HEATING WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT DISCHARGE
	MAKE-UP WATER
	CONDENSATE DRAIN
	PUMPED CONDENSATE DRAIN

## GENERAL DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	ROUND DUCT SECTION
	FLAT OVAL DUCT SECTION
	12" DIA. ROUND DUCT
	12" BY 24" FLAT OVAL DUCT
	SUPPLY DUCT SECTION, POSITIVE PRESS.
	EXH., RET., O.A. DUCT SECTION NEGATIVE PRESS.
	DUCTWORK, FIRST NO. IS VISIBLE DIM.
	EXISTING DUCTWORK (LIGHT LINES)
	BRANCH DUCT
	"Y" BRANCH
	MEDIUM PRESSURE DUCT BRANCH
	ACOUSTICALLY LINED DUCT
	DUCT ACCESS DOOR
	FLEXIBLE CONNECTION (DUCT)
	CHANGE OF ELEVATION IN DIRECTION SHOWN R-RISE D-DROP
	FIRE DAMPER TYPE "A"
	SMOKE DAMPER
	FIRE & SMOKE DAMPER
	BRANCH DUCT WITH VOLUME DAMPER
	SIDEWALL REGISTER
	DUCT WITH TURNING VANES
	SPLITTER DAMPER
	DAMPER TYPE INDICATED (OBD, PBD)
	MOTORIZED DAMPER TYPE INDICATED (OBD, PBD)
	VANED ELBOW (PROVIDE ALL SQUARE ELBOWS W/ VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW
	LOUVER
	SUPPLY AIR DIFFUSER - ARROWS INDICATE DIRECTION OF THROW
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	LINEAR SUPPLY AIR DEVICE
	LINEAR RETURN AIR DEVICE
	FLEXIBLE DUCT (SINGLE LINE DUCT)
	DUCT
	FAN (SCHEMATIC)
	DIFFERENTIAL PRESSURE GAUGE
	NEW CONNECTION TO EXISTING

## DRAWING SYMBOLS

SYMBOL	DESCRIPTION
	EQUIPMENT MARK NUMBER - CHP
	KEYED NOTE 2
	AIR DEVICE MARK
	SECTION ARROW - SECTION 1, SHEET M-2
	TYPE "A" AIR DEVICE, 500 CFM W/ 15" X 15" NECK, WHEN NOT INDICATED ON DRAWING REFER TO SCHEDULE.
	TYPE "A" AIR DEVICE, 500 CFM W/ 15"X15" FACE, 14" NECK, WHEN NOT INDICATED ON DRAWING REFER TO SCHEDULE.
	TYPE "A" LINEAR AIR DEVICE, 400 CFM, 48" LONG, PROVIDE WITH PLENUM BOX.

## HEATING PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HIGH PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM CONDENSATE
	STEAM SUPPLY (PRESS. AS NOTED)
	PUMPED CONDENSATE RETURN
	HOT WATER RETURN
	HOT WATER SUPPLY
	BOILER FEED WATER
	THERMOSTATIC TRAP
	FLOAT & THERMOSTATIC TRAP

## VALVES

SYMBOL	DESCRIPTION
	CIRCUIT BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	EXPANSION VALVE
	FLOAT VALVE
	GATE VALVE
	GLOBE VALVE
	LIQUID SOLENOID VALVE
	MANUAL 3-WAY CONTROL VALVE
	MOTOR OPERATED, STRAIGHT THRU VALVE
	MOTOR OPERATED, 3-WAY CONTROL VALVE
	O.S. & Y. GATE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	PRESSURE & TEMP. RELIEF VALVE
	THERMOSTATIC EXPANSION VALVE
	VALVE W/ HOSE THREAD

## CONTROLS

SYMBOL	DESCRIPTION
	THERMOSTAT - REMOTE BULB
	THERMOSTAT SERVING ZONE X
	HUMIDISTAT SERVING ZONE X
	FIRESTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	EA	EACH
AC	ABOVE CEILING	EAT	ENTERING AIR TEMPERATURE
A/C	AIR CONDITIONED	EDH	ELECTRIC DUCT HEATER
ACCH	AIR COOLED CHILLER	EF	EXHAUST FAN
AD	ACCESS DOOR	ELEC	ELECTRICAL
AF	AIR FUEL	ELEV	ELEVATION
AFF	ABOVE FINISHED FLOOR	EG	EXHAUST GRILLE
AFMS	AIR FLOW MEASURING STATION	ENT	ENTERING
AHU	AIR HANDLING UNIT	EQUIP	EQUIPMENT
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION, INC.	ER	EXHAUST REGISTER
AP	ACCESS PANEL	ESP	EXTERNAL STATIC PRESSURE
APPROX	APPROXIMATE	ET	EXPANSION/ COMPRESSION TANK
ARCH	ARCHITECTURAL	EWI	ENTERING WATER TEMPERATURE
ARI	AIR CONDITIONING REFRIGERATION INSTITUTE	EXH	EXHAUST
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	EXIST	EXISTING
AS	AIR SEPARATOR	F	DEGREES FAHRENHEIT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	FC	FAN COIL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	FD	FIRE DAMPER
AV	AUTOMATIC AIR VENT ASSEMBLY	FLEX	FLEXIBLE
B	BOILER	FLC	FLANGE
BDD	BACK DRAFT DAMPER	FLR	FLOOR
BHP	BACKWARD INCLINED	FM	FACTORY MUTUAL
BI	BUILDING	FO	FLAT OVAL DUCT
BOD	BOTTOM OF DUCT	FFM	FEET PER MINUTE
BOP	BOTTOM OF PIPE	FT	FEET, FOOT
BSMT	BASEMENT	FS	FLOW SWITCH
BTU	BRITISH THERMAL UNIT	FSO	FIRE SMOKE DAMPER
CDP	CONDENSATE DRAIN PUMP	GAL	GALLON
CFM	CUBIC FEET PER MINUTE	GALV	GALVANIZED
CHP	CHILLED WATER PUMP	GPM	GALLONS PER MINUTE
CLG	CEILING	HB	HOSE BIBB
CWP	CONDENSER WATER PUMP	HP	HORSEPOWER
CO	CLEANOUT	HR	HOUR
COND	CONDENSATE CONNECTION	H	HIGH, HEIGHT
CONN	CONTINUATION	HVAC	HEATING/VENTILATING/ AIR CONDITIONING
CONT	CONTROLLABLE PITCH	HWP	HOT WATER PUMP
CP	COOLING TOWER	HZ	HERTZ
CT	CONDENSING UNIT	ID	INSIDE DIAMETER
CU	COLD WATER	IE	INVERT ELEVATION (FLOW LINE)
CW	CENTER LINE	IH	INTAKE HOOD
Q		IN	INCHES
D	DRAIN	INSUL	INSULATION
DB	DRY BULB	IN WG	INCHES OF WATER
DCP	DATA COLLECTION PANEL	KW	KILOWATT(S)
DG	DOOR GRILLE	SA	SUPPLY AIR
DIA	DIAMETER	SCH	SCHEDULE
DIFF	DIFFUSER	SOHP	SECONDARY CHILLED WATER PUMP
DN	DOWN	SO	SMOKE DAMPER
DWG	DRAWING	SEC	SECOND
DX	DIRECT EXPANSION	SF	SUPPLY FAN
L	LONG, LENGTH	SMACNA	SHEET METAL AND AIR CONDITIONING
LAT	LEAVING AIR TEMPERATURE	SP	STATIC PRESSURE
LB	POUND	SPEC	SPECIFICATION
LVR	LOUVER	SF	SQUARE FOOT
MAX	MAXIMUM	STD	STANDARD
MD	MANUAL DAMPER	STL	STEEL
MECH	MECHANICAL	SW	SWITCH
MIN	MINIMUM	TEMP	TEMPERATURE
MS	MOTOR STARTER	THL	TEMPERATURE HIGH LIMIT
NA	NOT APPLICABLE	TLL	TEMPERATURE LOW LIMIT
NC	NORMALLY CLOSED	T'STAT	THERMOSTAT
NO	NOT IN CONTRACT	TU	TERMINAL UNIT
NO	NORMALLY OPEN	TXV	THERMOSTATIC EXPANSION VALVE
NTS	NOT TO SCALE	TYP	TYPICAL
OA	OUTSIDE AIR	UF	UNDER FLOOR
OA#	OUTSIDE AIR INTAKE HOOD	UH	UNIT HEATER
OBD	OPPOSED BLADE DAMPER	UL	UNDERWRITERS LABORATORIES
OC	ON CENTER	V-12	CONTROL VALVE NUMBER
PBD	PARALLEL BLADE DAMPER	VAV	VARIABLE AIR VOLUME
PCHP	PRIMARY CHILLED WATER PUMP	VB	VALVE BOX
PRESS	PRESSURE	VEL	VELOCITY
PRV	PRESSURE REDUCING VALVE	VENT	VENTILATE
PSIG	POUNDS PER SQUARE INCH (GAUGE)	VF	VENTILATION FAN
PHL	PRESSURE HIGH LIMIT	VFD	VARIABLE FREQUENCY DRIVE
		VOL	VOLUME
		VOLT	VOLTAGE
R-22	REFRIGERANT (TYPE AS NOTED)	W	WIDE, WIDTH
RA	RETURN AIR	W/	WITH
RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01	WB	WET BULB
RET	RETURN	W/O	WITHOUT
RG	RETURN GRILLE		
RH	RELATIVE HUMIDITY		
RH	RELIEF HOOD		
RPM	REVOLUTIONS PER MINUTE		
RTU	ROOF TOP UNIT		

## MECHANICAL GENERAL NOTES

- NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRIVEN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PRIME CONTRACTOR, ENGINEER AND, AS NECESSARY, THE OWNER.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
- PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL, CONDUIT PENETRATIONS REQUIRED FOR POWER.
- ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
- COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK FOR LINE OF SIGHT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS (WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION, WHERE THE ALTERATION OF DUCT SIZES ARE NECESSARY, MAINTAIN CROSS-SECTIONAL AREAS.
- ROOFTOP UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS, DURING NIGHT SET-BACK HOURS, THE ROOFTOP UNITS SHALL RUN IN "FAN AUTO" MODE.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT.
- ALL CONDENSATE DISCONNECT SWITCHES AND FINAL CONNECTIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDENSATE WIRING AND FINAL CONNECTION BY MECHANICAL CONTRACTOR.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- SUPPLY, RETURN AND RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. ANY REQUIRED GAUGES, SNAKE BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS. AIR AND WATER-TIGHT, FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTWORK CAN BE ALLOWED WITH ENGINEER'S PRIOR APPROVAL.
- ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED WITH CLEAR INSIDE DIMENSIONS AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED.
- ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-5.0, 2" INSULATION WITH VAPOR BARRIER PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS. INSULATION SHALL HAVE MINIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
- ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH LISTED FIRE STOPPING MATERIAL.
- THE WALL MOUNTED TYPE-1 KITCHEN EXHAUST HOODS SHALL BE INSTALLED WITH TOP OF HOOD HEIGHTS AS NOTED IN THE HOOD SCHEDULE OR AS PER MANUFACTURER'S INSTRUCTIONS. COORDINATE THEIR COMPLETE INSTALLATION AND PLACEMENT IN THE FIELD.
- REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM, FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
- PITCH ALL HORIZONTAL GREASE DUCTWORK UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD AT A MINIMUM 1/4" PER FOOT.
- ROOF CURBS FOR EXHAUST FANS SHALL BE PER DETAILS SECTION, AND FURNISHED WITH THE FAN BASE, HOOD, AND FAN PACKAGE. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING, CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF GALVANIZED STEEL CONSTRUCTION WITH WOOD WALKER, AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING, CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- THE GREASE EXHAUST DUCT RISERS BETWEEN THE HOOD COLLARS AND EXHAUST FANS SHALL BE OF THE SAME SIZE AS THE RESPECTIVE HOOD COLLAR SIZE. REFER TO THE HOOD SHEETS FOR THE HOOD COLLAR SIZES AS PROVIDED BY THE HOOD MANUFACTURER.
- PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE IRC. SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
- CONTRACTOR SHALL HAVE A THIRD PARTY CERTIFIED TEST AND BALANCE REPORT PERFORMED AT COMPLETION OF PROJECT. THIRD PARTY TEST CONTRACTOR TO BE SELECTED BY OWNER. ANY DIFFERENCES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH AS PER MANUFACTURER RECOMMENDATIONS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE.
- MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF PROJECT TURNOVER.
- ALL AIR DEVICE SIZES SHOWN ON SCHEDULES ARE NEAR SIZES.
- BOTTOM OF DUCT ELEVATION INDICATED ON THE DRAWING INDICATES THE APPROXIMATE HEIGHT ABOVE FINISHED FLOOR LEVEL TO THE UNDERSIDE OF THE DUCT. THIS INFORMATION IS PROVIDED AS AN AID TO COORDINATION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS. CRAFTSMANSHIP AND MATERIAL SHALL BE OF THE FINEST QUALITY.
- UNLESS NOTED OTHERWISE, ALL CAPACITIES INDICATED ARE AT SITE CONDITIONS. ALL EQUIPMENT SHALL BE ADJUSTED, WOODED AND ORDERED TO ACCOMMODATE SITE CONDITIONS.
- THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS FULLY PRIOR TO THE SUBMITTAL PHASE OF THE PROJECT. CONFLICTS WITHIN AND BETWEEN THE CONTRACT DOCUMENTS SHALL BE NOTED IN WRITING TO THE ENGINEER PRIOR TO SUBMITTING DATA SHEETS FOR REVIEW.
- REPRESENTATIVE LINES & DUCTS IN FINISH ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED DIFFERENT.
- INSTALL EQUIPMENT TO AVOID SOUND OR NOISE TRANSMISSION TO OCCUPIED SPACES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED ON THE DRAWINGS AND SPECIFICATIONS INCLUDING THOSE LISTED UNDER THE ENERGY COMPLIANCE REPORT. ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH THE MANUFACTURER'S RECOMMENDED MAINTENANCE AND OPERATING CLEARANCES.
- TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS AFTER INSTALLATION IS COMPLETE. SUBMIT REPORTS TO ENGINEER FOR REVIEW AND APPROVAL.
- TURNOVER ALL EQUIPMENT AND MATERIAL, OWNING, OPERATING AND MAINTENANCE (OM) MANUALS TO OWNER AFTER INSTALLATION IS COMPLETE.
- KEEP DUCTWORK AND PIPING INTERIOR CLEAN AND FREE OF DEBRIS THROUGHOUT THE PROJECT. CAP ALL PIPING AND DUCTWORK EXPOSED TO THE ELEMENTS DO NOT COVER ANY MECHANICAL OR PLUMBING WORK IN WALLS, ABOVE CEILINGS, ETC. PRIOR TO REQUESTING OBSERVATION BY THE ENGINEER. ALL WORK COVERED WITHOUT OBSERVATION BY THE ENGINEER SHALL BE UNCOVERED FOR OBSERVATION.
- DO NOT COVER ANY MECHANICAL OR PLUMBING WORK IN WALLS, ABOVE CEILINGS, ETC. PRIOR TO REQUESTING OBSERVATION BY THE ENGINEER. ALL WORK COVERED WITHOUT OBSERVATION BY THE ENGINEER SHALL BE UNCOVERED FOR OBSERVATION.
- MAINTAIN MINIMUM CLEARANCES IN FRONT OF ALL CONTROL AND ELECTRIC PANELS ON EQUIPMENT SUCH AS FANS, AIR TERMINAL UNITS, ETC. IN ACCORDANCE WITH THE FOLLOWING: 120 V = 36", 208 V = 42", 460 V = 48". CLEARANCE MAY BE MEASURED THROUGH REMOVABLE CEILING GRID OR ACCESS PANEL, WHERE FACTORY MOUNTED PANELS DO NOT ALLOW ADEQUATE CLEARANCE, RELOCATE AND RE-MOUNT AS REQUIRED. ALL FACTORY WARRANTIES SHALL BE MAINTAINED.
- GENERAL CONTRACTOR SHALL MAINTAIN ON A DAILY BASIS AT THE PROJECT SITE, A COMPLETE SET OF RECORD DRAWINGS, REFLECTING THE PRECISE LOCATION OF CONCEALED EQUIPMENT, CONCEALED PIPING, VALVES, PIPE RE-ROOTS, AND ALL CHANGES OR DEVIATIONS IN THE MECHANICAL WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.
- ALL MEDIUM PRESSURE DUCTWORK SHALL BE TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 10% OF LOW PRESSURE DUCT SYSTEM SHALL BE TESTED. IF LEAKAGE TEST RESULTS EXCEED THE MAX. ALLOWABLE RATE, THE ENTIRE DUCT SYSTEMS SHALL BE TESTED AND DUCT LEAKAGE SHALL BE CORRECTED UNTIL SATISFACTORY RATES ARE OBTAINED.
- ALL MEDIUM PRESSURE DUCTWORK SHALL BE TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 10% OF LOW PRESSURE DUCT SYSTEM SHALL BE TESTED. IF LEAKAGE TEST RESULTS EXCEED THE MAX. ALLOWABLE RATE, THE ENTIRE DUCT SYSTEMS SHALL BE TESTED AND DUCT LEAKAGE SHALL BE CORRECTED UNTIL SATISFACTORY RATES ARE OBTAINED.
- GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENING ARE LOCATED WITHIN 10' OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW.

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12-02-19

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
**for LINCOLN COUNTY, NM**  
**HONDO SENIOR CENTER - MECHANICAL GENERAL NOTES**

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 Checked by: CR  
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**M-1.0**  
 SHEET 01 OF 03



EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR			SONES	REMARKS		
				HP	VOLTS	# SPDS				
EF-1	GREENHECK SP-B110	110	0.125	80 W	120	1	1	1.5	PROVIDE WITH VIBRATION ISOLATORS, BACKDRAFT DAMPER, ALUMINUM PERFORATED GRILLE, AND ROOF CAP. UNIT CONTROLLED BY SWITCH	

DIFFUSER AND GRILLE SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	REMARKS
A	SUPPLY LAY-IN	TITUS TMSA	WHITE FINISH, NECK SIZE AS INDICATED, STEEL CONSTRUCTION, ADJUSTABLE VANES, 360° PATTERN, 24" x 24" FACE
À	SUPPLY SURFACE MOUNTED	TMSA	WHITE FINISH, NECK SIZE AS INDICATED, STEEL CONSTRUCTION, ADJUSTABLE VANES, 360° PATTERN, 12X12" FACE
C	SUPPLY SURFACE MOUNTED	TITUS TMSA	WHITE FINISH, NECK SIZE AS INDICATED, STEEL CONSTRUCTION, ADJUSTABLE VANES, 360° PATTERN, 24" x 24" FACE
D	RETURN LAY-IN	TITUS 50F-CODE A	WHITE FINISH, ALL ALUMINUM CONSTRUCTION, 1/2"X1/2"X12" PERFORATED FACE, ALUMINUM BORDER, FACE SIZE AS INDICATED
F	RETURN SURFACE MOUNTED	TITUS 50F-CODE A	WHITE FINISH, ALL ALUMINUM CONSTRUCTION, 1/2"X1/2"X12" PERFORATED FACE, ALUMINUM BORDER, FACE SIZE AS INDICATED
G	LOUVER WALL MOUNTED	GREENHECK ESD-202	ALL ALUMINUM CONSTRUCTION, ALUMINUM BORDER, FACE SIZE AS INDICATED
H	TRANSFER DUCT WALL MOUNT	TITUS 300FS	WHITE FINISH, ALUMINUM CONSTRUCTION, ADJUSTABLE FRONT AND REAR LOUVERS, FACE SIZE AS INDICATED

SPLIT SYSTEM SCHEDULE																			
MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	COOLING MBH				HEATING MBH				ELECTRICAL				REMARKS			
				TOTAL	SENS	db°F	wb°F	INPUT	OUTPUT	FUEL	MCA	VOLTS	PHASE	MOC					
HP-1/AHU-1	YORK-YHE6B31S - OUTDOOR YORK-AVC60DX21 - INDOOR	2,000	0.5	54.7	41.2	80	67	95	14.25	14.4	KW	49.1	ELEC.	31.7	208	1	50	100	PROVIDE WITH LOW AMBIENT KIT, FACTORY REFRIGERANT LINES, CONDENSATE PUMP, PROGRAMMABLE THERMOSTAT, SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT ANTI-SHORT CYCLE TIMER AND HIGH ALTITUDE KIT. S1-32436041000 SINGLE POINT WIRE KIT FOR 1PH. PROVIDE S1-6HK16501006 208V 1PH ELECTRIC HEAT. ADJUST MIXING BOX TO PROVIDE 300 CFM OUTSIDE AIR.
HP-2/AHU-2	YORK-YHE4B22S - OUTDOOR YORK-AE48DX21 - INDOOR	1,600	0.5	46.3	34	80	67	95	14.5	7.2	KW	24.6	ELEC.	30.8	208	1	50	60	PROVIDE WITH LOW AMBIENT KIT, FACTORY REFRIGERANT LINES, CONDENSATE PUMP, PROGRAMMABLE THERMOSTAT, SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT ANTI-SHORT CYCLE TIMER AND HIGH ALTITUDE KIT. S1-32436041000 SINGLE POINT WIRE KIT FOR 1PH. PROVIDE S1-6HK16501006 208V 1PH ELECTRIC HEAT. ADJUST MIXING BOX TO PROVIDE 300 CFM OUTSIDE AIR.
HP-3/AHU-3	YORK-YHE35B21S - OUTDOOR YORK-AE36CX21 - INDOOR	1,200	0.5	34.5	25.4	80	67	95	14.5	7.2	KW	24.6	ELEC.	20.5	208	1	35	50	PROVIDE WITH LOW AMBIENT KIT, FACTORY REFRIGERANT LINES, CONDENSATE PUMP, PROGRAMMABLE THERMOSTAT, SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT ANTI-SHORT CYCLE TIMER AND HIGH ALTITUDE KIT. S1-32436041000 SINGLE POINT WIRE KIT FOR 1PH. PROVIDE S1-6HK16501006 208V 1PH ELECTRIC HEAT. ADJUST MIXING BOX TO PROVIDE 260 CFM OUTSIDE AIR.
HP-4/AHU-4	YORK-YHE35B21S - OUTDOOR YORK-AE36CX21 - INDOOR	1,200	0.5	34.5	25.4	80	67	95	14.5	7.2	KW	24.6	ELEC.	20.5	208	1	35	50	PROVIDE WITH LOW AMBIENT KIT, FACTORY REFRIGERANT LINES, CONDENSATE PUMP, PROGRAMMABLE THERMOSTAT, SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT ANTI-SHORT CYCLE TIMER AND HIGH ALTITUDE KIT. S1-32436041000 SINGLE POINT WIRE KIT FOR 1PH. PROVIDE S1-6HK16501006 208V 1PH ELECTRIC HEAT. ADJUST MIXING BOX TO PROVIDE 260 CFM OUTSIDE AIR.

KITCHEN EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR			SONES	REMARKS		
				HP	VOLTS	# SPDS				
KEF-1	ACME MANUFACTURING PNU100RGW	1080	1	3/4	208	1	1	17.9	DISCONNECT SWITCH, BIRDSCREEN, UL762 VIBRATION ISOLATION, WALL MOUNTING BRACKET	

MAKE UP AIR UNIT SCHEDULE										
MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR			SONES	REMARKS		
				HP	VOLTS	# SPDS				
MAU-1	ACME MANUFACTURING AFS106	1026	0.5	0.5	230	1	1	9.1	MOTORIZED BACKDRAFT DAMPER, NEMA 3 DISCONNECT, 1.5 SERVICE FACTOR, FIELD INSTALLED CURB FOR SIDE DISCHARGE CONFIGURATION	

KITCHEN HOOD SCHEDULE				
MARK	MANUFACTURE AND MODEL NUMBER OR APPROVED EQUAL	SIZE		DESCRIPTION
		L	W	
KH-1	GREENHECK GXFW	96	52	U.L. LISTED WITHOUT FIRE DAMPER, TYPE I HOOD, FACE SUPPLY, WALL STYLE CANOPY, 18 GA. TYPE 304 STAINLESS STEEL CONSTRUCTION. PROVIDE WITH INCANDESCENT LIGHT FIXTURE ALUMINUM GREASE XTRACTOR WITH FILTER REMOVAL TOOL, PRE-PIPED ANSUL PRANHA FIRE SUPPRESSION SYSTEM, HOOD TO CEILING ENCLOSURE PANELS, AND REMOTE CONTROL PANEL. CONNECT TO KEF-1 & MAU-1

**COMcheck Software Version 4.0.8.1**  
**Mechanical Compliance Certificate**

**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: HONDO SENIOR CENTER  
 Location: Ruidoso, New Mexico  
 Climate Zone: 4B  
 Project Type: New Construction

Construction Site: LINCOLN COUNTY, NM  
 Owner/Agent: [Signature]  
 Designer/Contractor: JOSE MORALES, RMXS ENGINEERING, LLC, 1712 TEXAS AVENUE, EL PASO, TX 79901, 915-539-2516, JMORALES@RMXSENGINEERING.COM

**Additional Efficiency Package(s)**

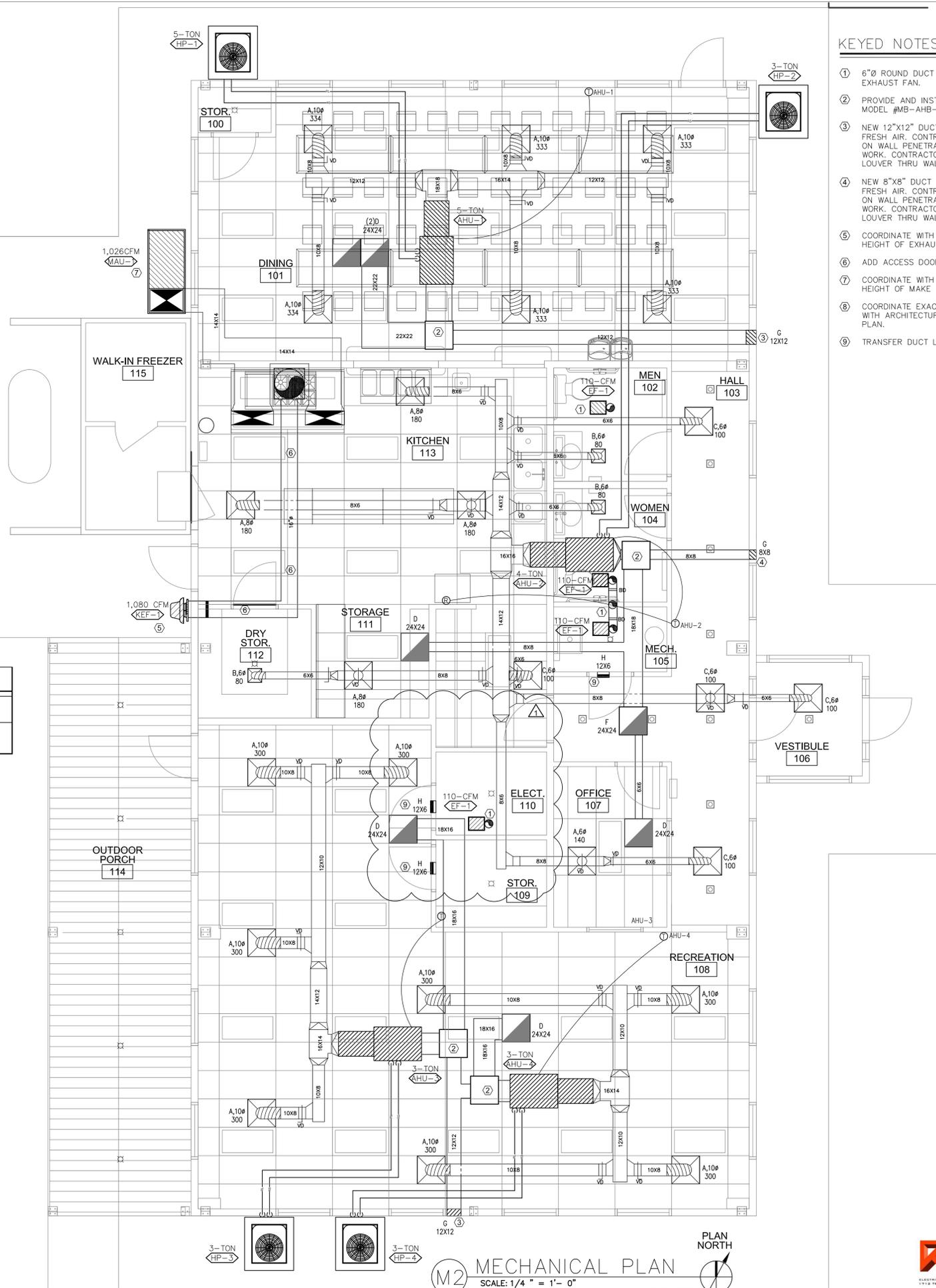
Unspecified

**Mechanical Systems List**

Quantity	System Type & Description
1	HP-1 (Single Zone): Cooling: 1 each - Split System, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.30 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	HP-2 (Single Zone): Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	HP-3 (Single Zone): Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	HP-4 (Single Zone): Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER Fan System: None

**Mechanical Compliance Statement**  
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JOSE MORALES  
 Name - Title: [Signature] Signature Date: 12-02-19



- KEYED NOTES**
- 6"Ø ROUND DUCT THRU ROOF TO GOOSENECK FROM EXHAUST FAN.
  - PROVIDE AND INSTALL NEW AIR ECONOMIZER CARRIER MODEL #MB-AHB-DB.
  - NEW 12"X12" DUCT TO WALL FROM AIR HANDLER FOR FRESH AIR. CONTRACTOR TO FIELD-VERIFY LOCATION ON WALL PENETRATION BEFORE COMMENCING ANY WORK. CONTRACTOR TO INSTALL FRESH AIR 12X12 LOUVER THRU WALL.
  - NEW 8"X8" DUCT TO WALL FROM AIR HANDLER FOR FRESH AIR. CONTRACTOR TO FIELD-VERIFY LOCATION ON WALL PENETRATION BEFORE COMMENCING ANY WORK. CONTRACTOR TO INSTALL FRESH AIR 8X8 LOUVER THRU WALL.
  - COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT OF EXHAUST FAN.
  - ADD ACCESS DOORS FOR DUCT CLEANING.
  - COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT OF MAKE UP AIR UNIT.
  - COORDINATE EXACT LOCATIONS OF CEILING ELEMENTS WITH ARCHITECTURAL SHEET A-1.1 AS DIMENSIONED ON PLAN.
  - TRANSFER DUCT LOCATED ABOVE DOOR.

**YABUMOTO ARCHITECTS**  
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 ALTO, NM 88312  
 575.644.6986  
 gary@yabumoto-architects-llc.com

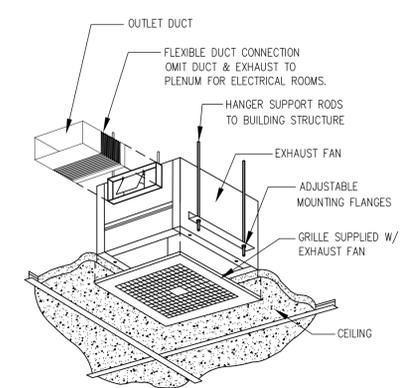
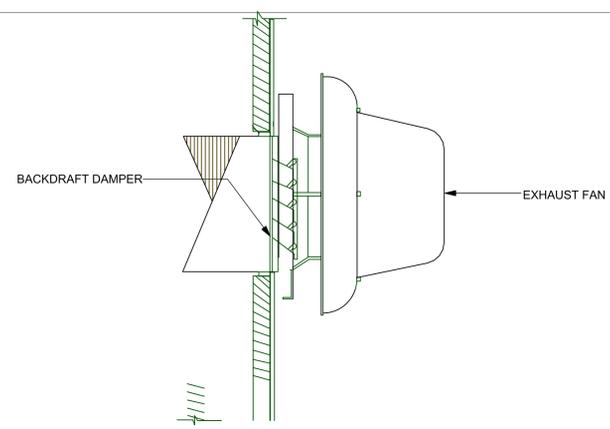
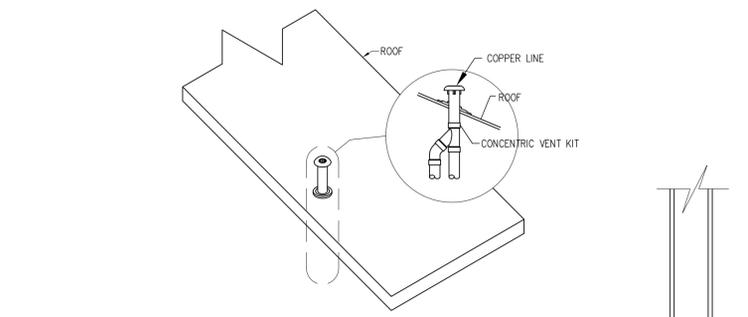
**JOSE A. MORALES**  
 NEW MEXICO  
 REGISTERED PROFESSIONAL ENGINEER  
 22154  
 12-02-19

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - MECHANICAL PLAN**

Issue Date: 12-02-19  
 Drawn by: MP  
 Checked by: CR  
 Revisions:  
 12-02-19

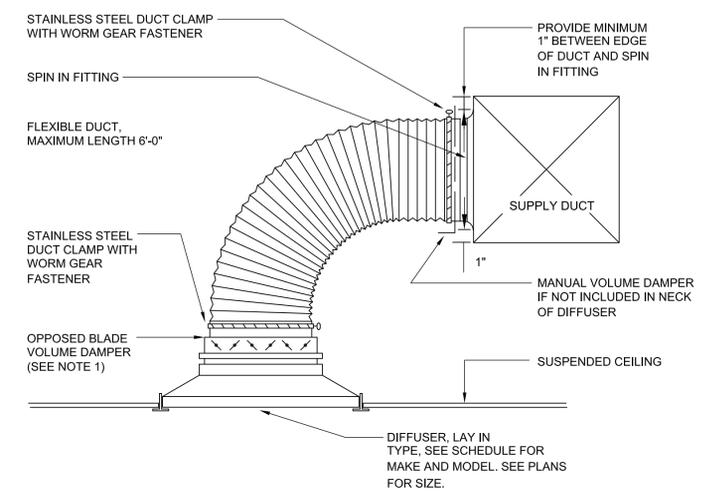
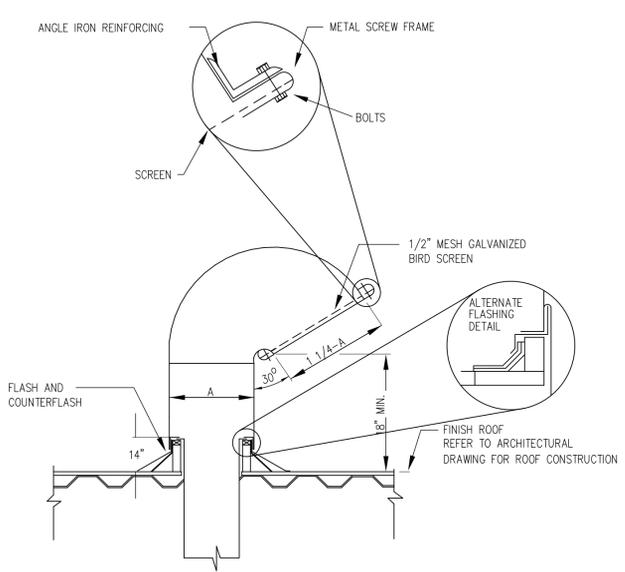
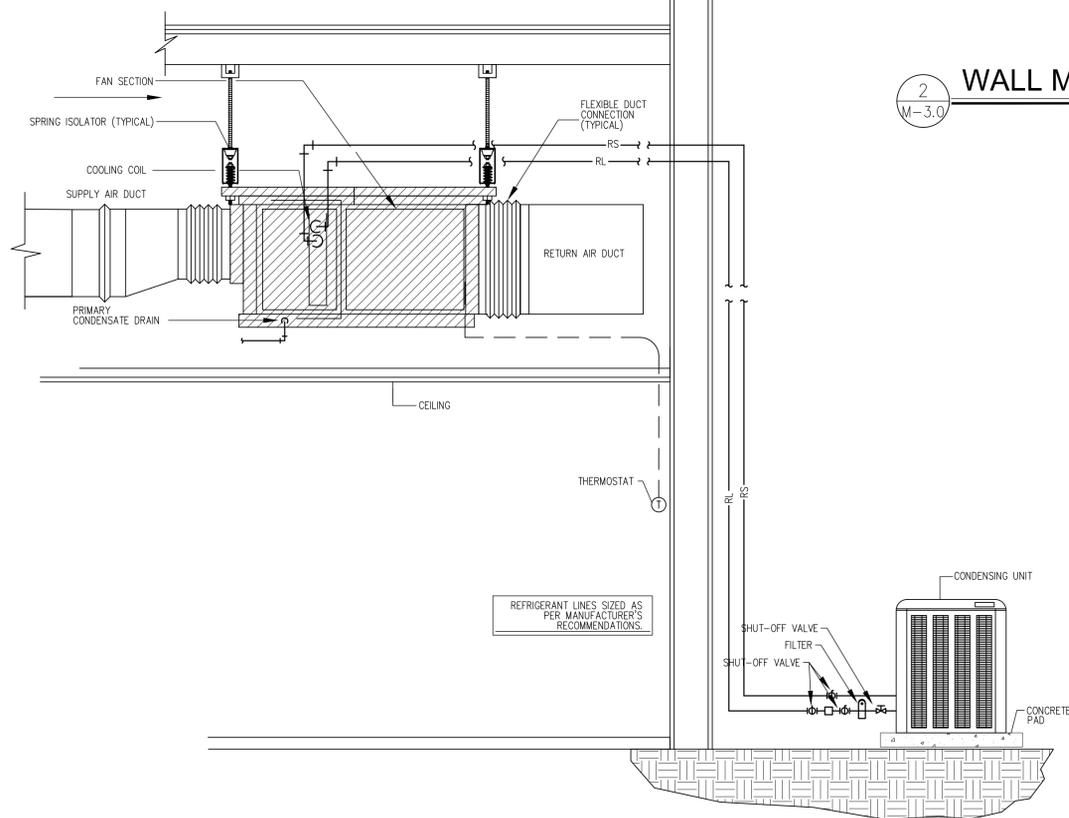
**RAXIS ENGINEERING**  
 QUALITY DESIGN AND INNOVATIVE SOLUTIONS  
 1712 TEXAS | EL PASO | TEXAS | 79901 | 915.539.2516 | JMORALES@RMXSENGINEERING.COM

**M-2.0R**  
 SHEET 02 OF 03



2 WALL MOUNT EXHAUST FAN DETAIL

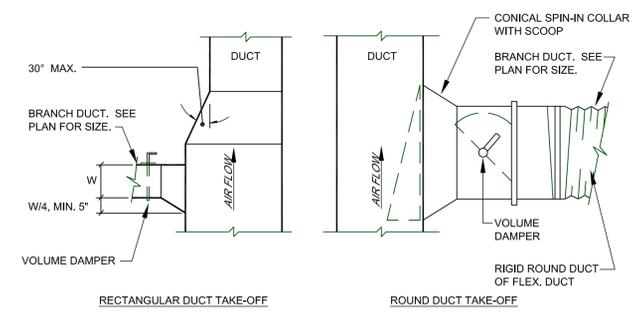
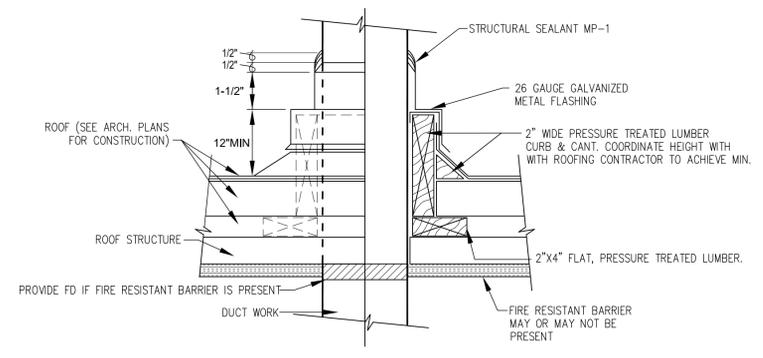
3 EXHAUST FAN DETAIL



5 CEILING DIFFUSER SCHEMATIC

1 MINI-SPLIT INSTALLATION DETAIL

4 GOOSENECK DETAIL



6 DUCT THRU ROOF DETAIL

7 DUCT CONNECTION SCHEMATIC

# PLUMBING SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

GENERAL PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	90 DEGREE ELBOW
	FLANGE CONNECTION
	CAP
	BLIND FLANGE
	PLUMBING FIXTURE & DESIGNATION SEE FIXTURE CONNECTION SCHEDULE
	PLAN/DETAIL NUMBER SHEET NUMBER
	PIPE DROP
	PIPE RISE
	TEE FITTING - SIDE BRANCH CONNECTION
	TEE FITTING - BOTTOM BRANCH CONNECTION
	TEE FITTING - TOP BRANCH CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	BALL JOINT
	EXPANSION JOINT
	FLEXIBLE CONNECTION (PIPE)
	FLOW DIRECTION
	PIPE ANCHOR
	PIPING GUIDE
	NEW CONNECTION TO EXISTING
	FIRE HYDRANT
	GAS PRESSURE REGULATOR
	GAS METER
	WATER METER
	THERMOMETER

DOMESTIC WATER SUPPLY	
SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	NEW COLD WATER PIPE
	NEW HOT WATER (120°)
	NEW HOT WATER RETURN (120°)
	NEW FIRE PIPE
	HOT WATER @ 140°
	SHOCK ABSORBER SEE PLUMBING FIXTURE CONNECTION SCHEDULE

GENERAL PIPING SYMBOLS - VALVES	
SYMBOL	DESCRIPTION
	VALVE IN BOX
	ABOVE CEILING
	ACCESS DOOR
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE & TEMP. RELIEF VALVE
	PETE'S PLUG (TYPICAL)
	REDUCED PRESSURE BACK FLOW PREVENTER (RPBP)
	PRESSURE REDUCING VALVE

SANITARY SEWER/WASTE/VENT	
SYMBOL	DESCRIPTION
	CLEANOUT
	FLOOR DRAIN & P-TRAP (RISER)
	FLOOR DRAIN, ROOF DRAIN, OR AREA DRAIN (SIZE & TYPE NOTED)
	HUB DRAIN & P-TRAP
	2-WAY COUNTERSINK CLEANOUT PLUGS MOUNT IN CONCRETE PAD FLUSH WITH FINISHED GRADE
	SANITARY COMBINATION FITTING
	VENT PIPE (PLUMBING)
	INDIRECT DRAIN
	CONDENSATE DRAIN
	FLOOR CLEANOUT
	ROOF DRAINAGE
	SECONDARY ROOF DRAINAGE
	NEW PIPING (WASTE, WATER, ETC)
	FINISHED GRADE
	FLANGE
	FLOOR
	FACTORY MUTUAL
	FEET PER MINUTE
	FEET, FOOT
	FLOOR SINK
	GAUGE
	GALLON
	GALVANIZED
	GROUND CLEANOUT
	GALLONS PER HOUR
	GALLONS PER MINUTE
	GREASE WASTE
	GREASE VENT
	HIGH, HEIGHT
	HOSE BIBB - REF. PLUMB. FIXT. SCHED.
	HORSEPOWER
	HOUR
	HEATER
	HOT WATER RECIRCULATING PUMP
	HERTZ
	NEW VENT PIPE

NATURAL GAS	
SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	EXISTING MED PRESS GAS PIPE
	EXISTING LOW PRESS GAS PIPE
	GAS (MEDIUM PRESSURE)
	GAS (LOW PRESSURE PRESSURE)
	PLUG VALVE

PLUMBING ABBREVIATIONS			
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	ID	INSIDE DIMENSION
AC	ABOVE CEILING	IE	INVERT ELEVATION (FLOW LINE)
AD	ACCESS DOOR	IN	INCHES
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
AP	ACCESS PANEL	IN WG	INCHES OF WATER
APPROX	APPROXIMATE	KW	KILOWATT(S)
ARCH	ARCHITECTURAL	L	LONG, LENGTH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	L-#	LAVATORY - REF. PLUMB. FIXT. SCHEDULE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LB	POUND
AV	ACID VENT	MAX	MAXIMUM
AW	ACID WASTE	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLDG	BUILDING	MS	MOTOR STARTER
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BSMT	BASEMENT	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BW-#	BACKWATER VALVE	NTS	NOT TO SCALE
CA	COMPRESSED AIR	OC	ON CENTER
CC	CENTER TO CENTER	OH	OVERHEAD
CAP.	CAPACITY	PCT	PERCENT
CD	CONDENSATE	PLBG	PLUMBING
CDP	CONDENSATE DRAIN PUMP	PRESS	PRESSURE
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CLG	CEILING	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONN	CONNECTION	PW-#	PRESSURE WASHER - REF. PLUMB. FIXT. SCHED.
CONT	CONTINUATION	RD	ROOF DRAIN
CW	COLD WATER	REF: 4/P-500	REFER TO DETAIL 4, SHEET P-500
CL	CENTER LINE	REQD	REQUIRED
D	DRAIN	RPBP-#	REDUCED PRESSURE BACKFLOW PREVENTER
DCO	DOUBLE CLEANOUT	S-#	SINK - REF. PLUMB. FIXT. SCHEDULE
DIA	DIAMETER	SCHED.	SCHEDULE
DN.	DOWN	SD	STORM DRAIN
DN-#	DOWNSPOUT NOZZLE	SEC	SECOND
DWG	DRAWING	SH-#	SHOWER HEAD - REF. PLUMB. FIXT. SCHED.
EA	EACH	SPEC	SPECIFICATION
EQ	EQUAL	SP	SUMP PUMP
EQUIP	EQUIPMENT	SRD	SECONDARY ROOF DRAIN
EXIST	EXISTING	SS	SERVICE SINK/MOP SINK
3" ED-1	3" FLOOR DRAIN TYPE 1	STD	STANDARD
F	DEGREES FAHRENHEIT	STL	STEEL
FCO	FLOOR CLEANOUT	SW	SWITCH
FIXT	FIXTURE	TEMP	TEMPERATURE
FF	FINISHED FLOOR	TP-#	TRAP PRIMER - REF. PLUMB. FIXT. SCHED.
FG	FINISHED GRADE	TYP	TYPICAL
FLG	FLANGE	U-#	URINAL - REF. PLUMB. FIXT. SCHED.
FLR	FLOOR	UF	UNDER FLOOR
FM	FACTORY MUTUAL	UG	UNDER GROUND
FPM	FEET PER MINUTE	UL	UNDERWRITERS LABORATORIES
FT	FEET, FOOT	UTIL	UTILITY
FS	FLOOR SINK	VB	VALVE BOX
GA	GAUGE	VCP	VITRIFIED CLAY PIPE
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VOL	VOLUME
GCO	GROUND CLEANOUT	VOLT	VOLTAGE
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	WIDE, WIDTH
GW	GREASE WASTE	WB-#	WASHER BOX - REF. PLUMB. FIXT. SCHED.
GV	GREASE VENT	WD-#	WATER DEVICE - REF. PLUMB. FIXT. SCHED.
H	HIGH, HEIGHT	W	WITH
HB-#	HOSE BIBB - REF. PLUMB. FIXT. SCHED.	W/O	WITHOUT
HP	HORSEPOWER	WC-#	WATER CLOSET - REF. PLUMB. FIXT. SCHED.
HR	HOUR	WCO	WALL CLEANOUT
HTR	HEATER	WD-#	WATERING DEVICE - REF. PLUMB. FIXT. SCHEDULE
HWRP	HOT WATER RECIRCULATING PUMP	WH-#	WATER HEATER - REF. PLUMB. FIXT. SCHED.
HZ	HERTZ	WS-#	WATER SOFTENER - REF. SPECIFICATIONS
		WTD-#	WIDE TRENCH DRAIN - REF. PLUMB. FIXT. SCHED.
		WTR	WATER

PLUMBING GENERAL NOTES	
1.	NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2.	THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3.	PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS.
4.	CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
5.	CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY ALL EXISTING CONDITIONS, INCLUDE IN BID THE RELOCATION OF ALL EXISTING UTILITIES THAT WILL OBSTRUCT NEW CONSTRUCTION, INCLUDE IN BID ALL DEVELOPMENT FEES, DEPOSITS, MEASURING DEVICE FEES, AND ALL OTHER FEES RELATED TO THE ESTABLISHMENT OF UTILITY SERVICES FOR THE NEW STRUCTURE.
6.	CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
7.	THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND/OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIATED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.
8.	CONTRACTOR TO FIELD VERIFY INVERT ELEVATION OF EXISTING GREASE WASTE AND SANITARY SEWER BEFORE COMMENCING ANY WORK.
9.	ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.
10.	ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
11.	CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
12.	PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
13.	SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS WITH 3/8" ALL THREAD ROD AND BEAM CLAMPS. PLUMBERS TAPE AND WIRE NOT PERMITTED.
14.	TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
15.	ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
16.	ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENT REQUIREMENTS AND LABELED AS SUCH.
17.	ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
18.	CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP, GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM (SEE SCHEDULES).
19.	ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
20.	ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
21.	ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
22.	UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCHEDULED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
23.	PIPING SHALL BE INSTALLED COMPLETE WITH DIELECTRIC UNIONS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
24.	PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL, THIS INCLUDES THE WATER HEATER CONNECTIONS.
25.	PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVE(S) AT EACH PLUMBING FIXTURE.
26.	PROVIDE A LINE SIZED PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
27.	ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
28.	NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
29.	THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
30.	VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO MATCH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.
31.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PLUMBING UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEAN-OUT PADS, SERVICE VALVES AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING.
32.	ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 4" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
33.	ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
34.	THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
35.	PIPING LAYOUT IS SCHEMATIC ONLY. EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
36.	NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO ROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
37.	WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
38.	ANY EXPOSED PIPING IN QUEST OR PUBLIC AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. ANY EXPOSED GAS PIPING IN KITCHENS SHALL BE PAINTED WHITE.
39.	DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOD-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
40.	UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
41.	PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF THE PROJECT TURNOVER.
42.	PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF PROJECT TURNOVER.
43.	ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS.
44.	ANY PLASTIC PIPING (PVC PIPE) LOCATED IN A RETURN CEILING SPACE (OPEN CEILING) OR PLENUM SHALL BE ENCLOSED IN GFB OR WRAPPED WITH 3M REMASTER BLANKET OR LEAD STANDARD COVER.
45.	ALL UNDERGROUND WATER PIPING SHALL BE SOFT COPPER PIPING. THERE SHALL NOT BE ANY UNDERGROUND JOINT FITTINGS.
46.	ALL DENTAL SPECIALTY PIPING SHALL BE COPPER PIPING.
47.	DENTAL SPECIALTY PIPING SHALL BE INSTALLED BY A CERTIFIED MED GAS INSTALLER WITH 5 YEARS EXPERIENCE.
48.	ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASSES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED OTHERWISE.
49.	ALL FLOOR BRANCHES OFF PIPE RISERS SHALL BE PROVIDED W/ SHUT OFF VALVES AND CAPED DRAIN CONNECTION.
50.	INSULATED PIPING SHALL BE INSTALLED SO THAT FULL THICKNESS INSULATION CAN BE APPLIED TO EACH PIPE.
51.	ALL PIPING INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH PIPE SUPPORTS EVERY 10'-0". PIPE SUPPORT TO BE DURA-BLOCK. CONTRACTOR TO PROVIDE SIZED AND ACCESSORIES REQUIRED.

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12-02-19

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - PLUMBING GENERAL NOTES**

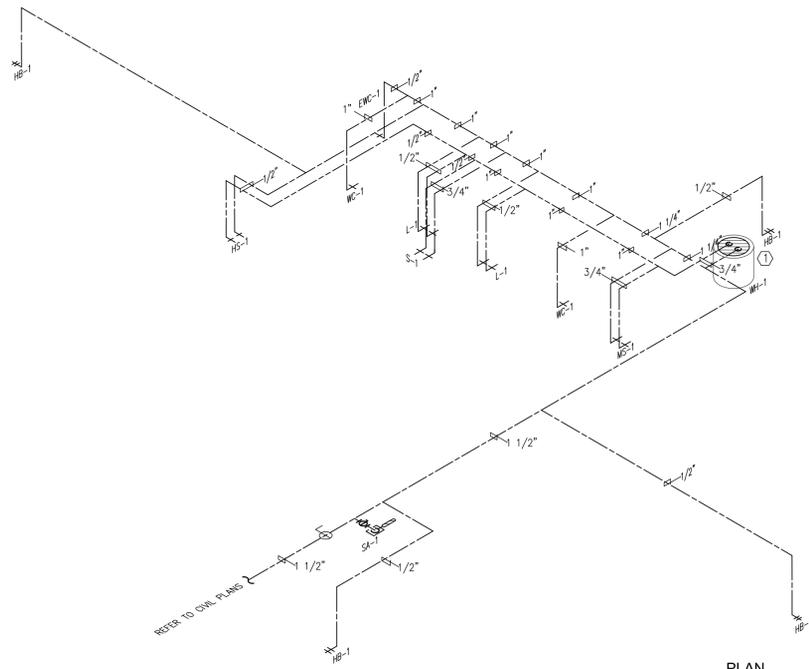
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**KEYED NOTES**

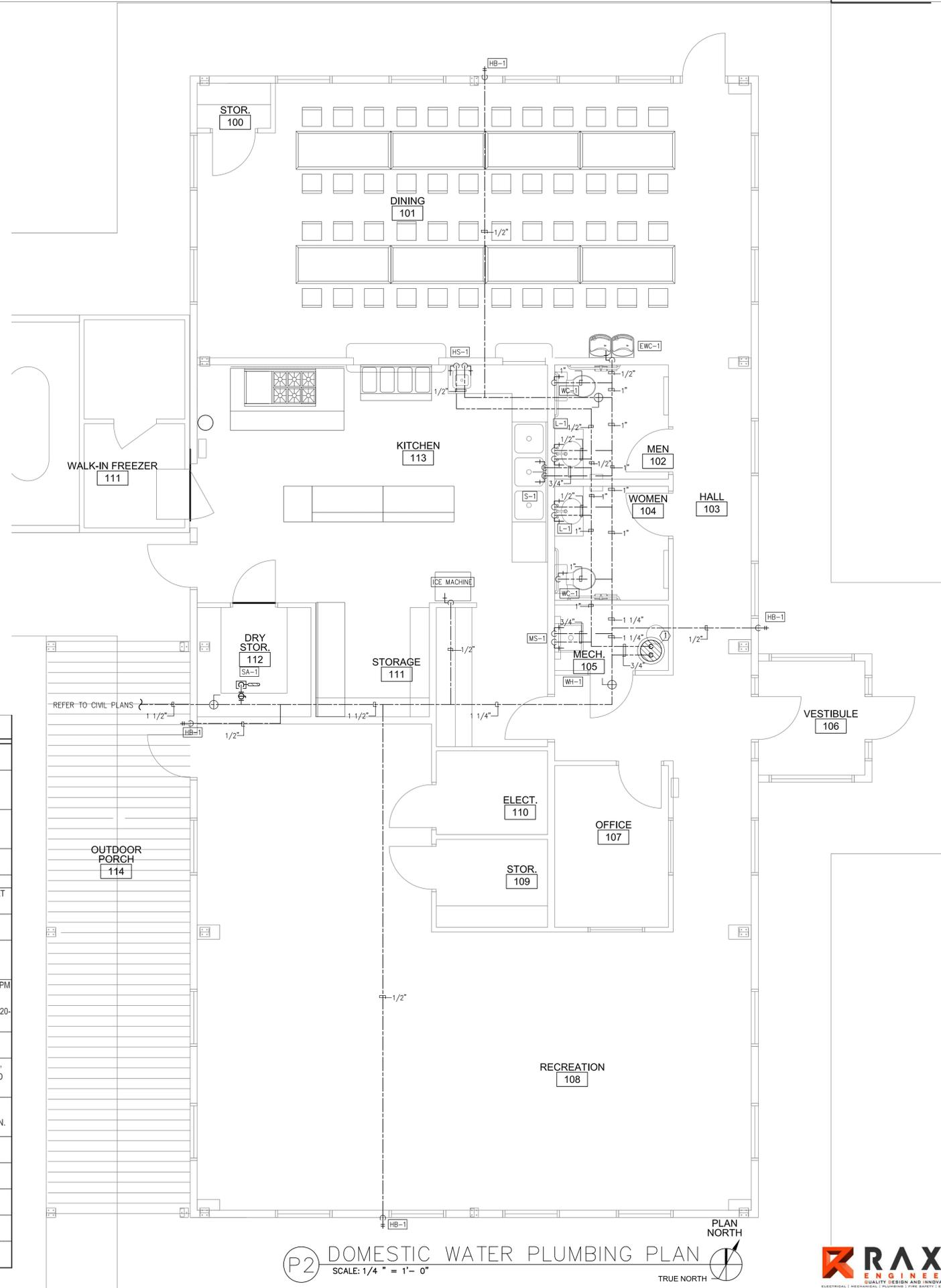
- ① EXTEND AND DISCHARGE FULL SIZE DRAIN FROM WATER HEATER PAN DOWN TO 6" ABOVE MOP SINK.



**P2 DOMESTIC WATER PLUMBING ISOMETRIC**  
SCALE: 1/4" = 1'-0"  
PLAN NORTH  
TRUE NORTH

**PLUMBING FIXTURE SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	ROUGH-IN REQUIREMENTS				ACCESSORIES
			DRAIN	VENT	COLD	HOT	
WC-1	WATER CLOSET FLUSH TANK FLOOR MOUNTED	KOHLER K-3493	3"	2"	1"	-	ELONGATED, WHITE, CLOSED FRONT TOILET SEAT WITH COVER & STAINLESS STEEL CHECK HINGE MODEL: K-4652-A LOW-CONSUMPTION 1.6 GALLONS PER FLUSH
L-1	LAVATORY DROP-IN VITREOUS CHINA	KOHLER K-2196-4-0	2"	1 1/2"	1/2"	1/2"	KOHLER: MODEL K-45102 FAUCET, GRID STRAINER, P-TRAP, P STOP WITH FLEXIBLE SUPPLIES, ADA TRAP, STOP & SUPPLY PROTECTORS.
HS-1	HAND SINK WALL MOUNTED	REGENCY 600HS17	2"	1 1/4"	1/2"	1/2"	PROVIDE WITH REGENCY 8" GOOSENECK FAUCET AND REMOVABLE DRAIN BASKET.
S-1	THREE COMPARTMENT SINK	PROVIDED BY OWNER	2"	1 1/4"	1/2"	1/2"	PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
MS-1	MOP SINK	UNIVERSAL BS1818-1	3"	2"	3/4"	3/4"	18 GAUGE STAINLESS STEEL. PROVIDE WITH UNIVERSAL JSPS-33 WALL MOUNTED PRE-RINSE FAUCET 8"
EW-1	ELECTRIC WATER COOLER BLEVEL	HASLEY TAYLOR HACGBBLPVWF	2"	1 1/2"	1/2"	-	PROVIDE WITH CANE TOUCH APRON
WH-1	WATER HEATER ELECTRIC 47 GALLON TANK	BRADFORD WHITE LE150L3-3	-	-	1"	1"	4.5KW/4.5KW, 208V1, SIMULTANEOUS OPERATION, 62 GPH RECOVERY RATE AT 60°F. RISE.
GI-1	GREASE INTERCEPTOR LOW PROFILE	ZURN GT2701-20	3"	2"	-	-	STEEL GREASE INTERCEPTOR, ACID RESISTANT COATED EXTERIOR AND INTERIOR, RATED AT 20 GPM AND 40 LBS GREASE CAPACITY, GASKETED. SECURE COVER WITH CENTER TIE DOWN, REMOVABLE PRESSURE FLOW DIFFUSING BAFFLE, PROVIDE FLOW CONTROL FITTING ZURN # Z-1108. (32-3/8" L X 20-3/4" W X 6-3/4" H) PROVIDE CONCRETE VAULT.
FD-1	FLOOR DRAIN	ZURN Z-415	3"	2"	-	1/2"	ZURN #415 TYPE 'B' STRAINER, 5" NICKEL BRONZE GRATE, CAST IRON BODY, CONVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, AND FLOOR DRAIN TRAP SEAL.
FS-1	FLOOR SINK	ZURN FD2375	3"	2"	-	1/2"	ZURN #FD2375 A.R.E. FLOOR SINK, 12x12x6 ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, CAST IRON BODY, SQUARE SLOTTED LIGHT DUTY GRATE, AND WHITE ABS DOME STRAINER AND FLOOR DRAIN TRAP SEAL.
HB-1	HOSE BIB	ZURN Z1341	-	-	1/2"	-	COMPLETE WITH Z1399-VB EXTERNAL VACUUM BREAKER, ALL BRONZE INTERIOR COMPONENTS, VANDAL RESISTANT OPERATING STEM, ROUGH BRONZE EXTERIOR AND 3/4" MAL HOSE CONNECTION.
SA-1	SHOCK ABSORBER	ZURN Z-1700	-	-	LINE SIZED	-	ZURN #Z1700, FULLY MECHANICAL WATER HAMMER ARRESTER SIZED AND LOCATED PER THE MANUFACTURER SPECIFICATIONS.
MXV-1	MIXING VALVE	WILKINS ZW1070-XL	-	-	1/2"	1/2"	WILKINS MODEL #W1070-XL AQUA-GARD THERMOSTATIC MIXING VALVE, WITH BRONZE BODY AND INTEGRAL MOUNTING HOLES.
GCO	GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	
FCO	FLOOR CLEANOUT	ZURN Z-1400-BZ	2" TO 4"	-	-	-	
WCO	WALL CLEANOUT	ZURN Z-1446	2" TO 4"	-	-	-	



**P2 DOMESTIC WATER PLUMBING PLAN**  
SCALE: 1/4" = 1'-0"  
PLAN NORTH  
TRUE NORTH



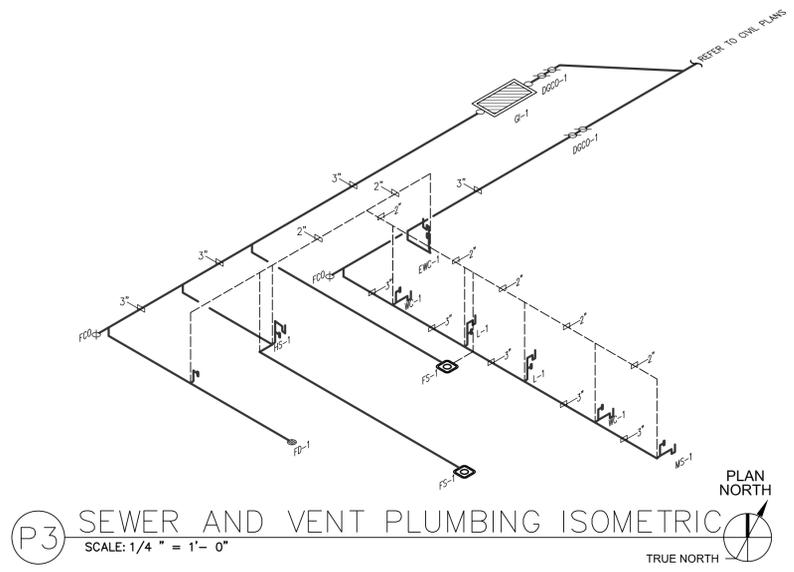
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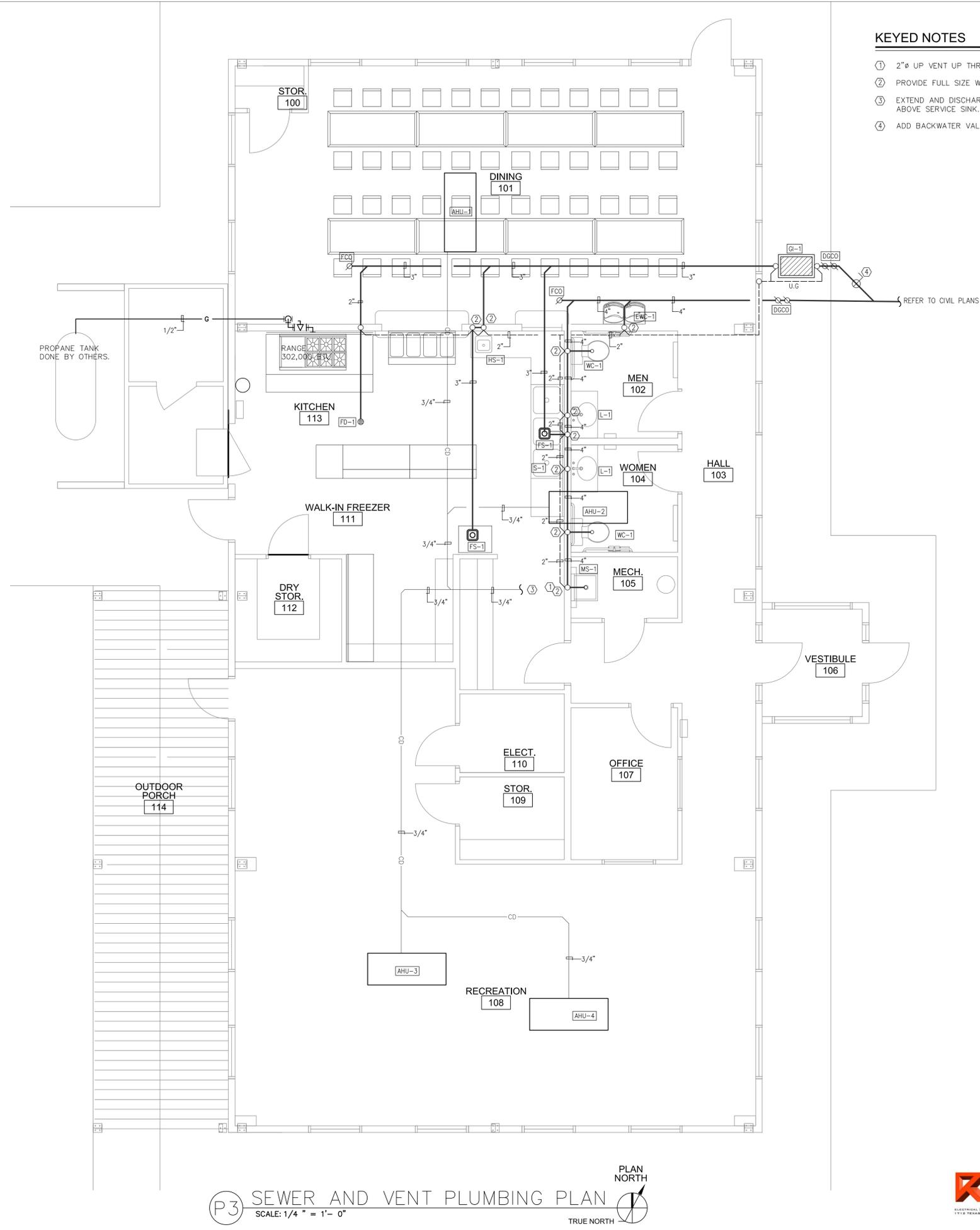
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**P3 SEWER AND VENT PLUMBING ISOMETRIC**  
 SCALE: 1/4" = 1'-0"  
 PLAN NORTH  
 TRUE NORTH



**P3 SEWER AND VENT PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"  
 PLAN NORTH  
 TRUE NORTH

**KEYED NOTES**

- ① 2" Ø UP VENT UP THRU ROOF.
- ② PROVIDE FULL SIZE WALL CLEANOUT.
- ③ EXTEND AND DISCHARGE FULL SIZE DRAIN DOWN TO 6" ABOVE SERVICE SINK.
- ④ ADD BACKWATER VALVE

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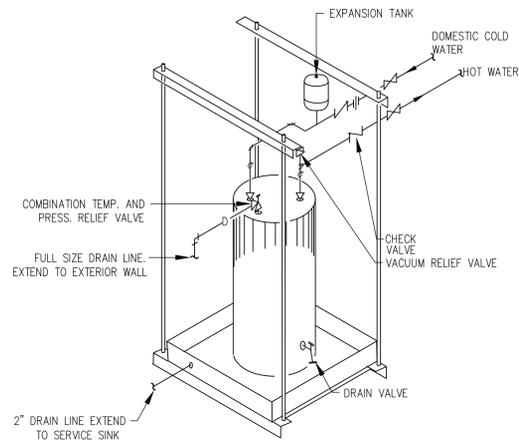
**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM

**HONDO SENIOR CENTER - SEWER AND VENT PLUMBING PLAN**

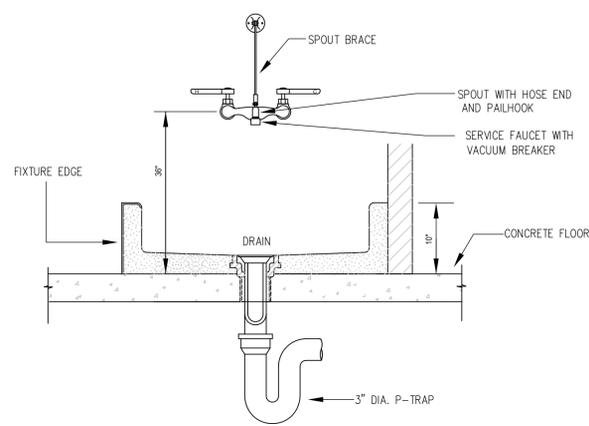
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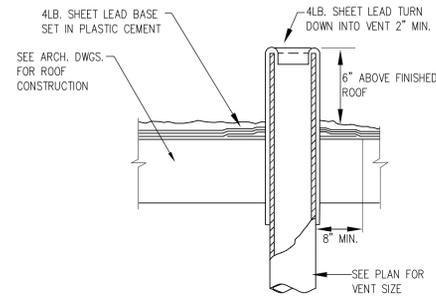




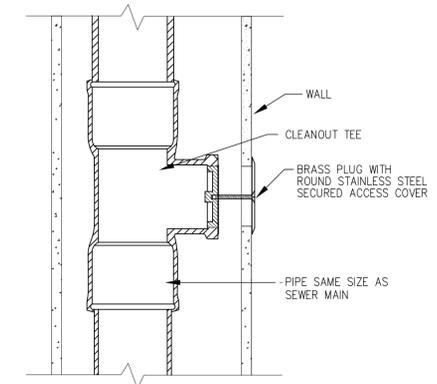
1 ELECTRIC WATER HEATER DETAIL  
P-4.0 NOT TO SCALE



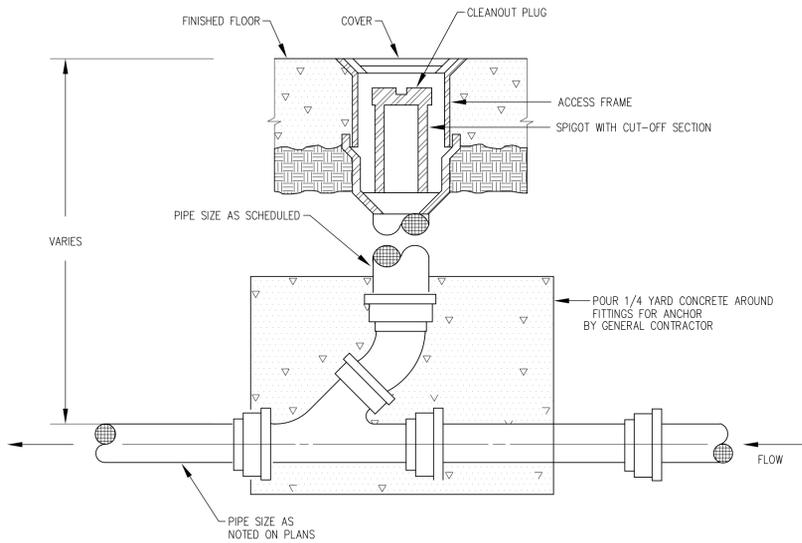
2 MOP SINK DETAIL  
P-4.0 NOT TO SCALE



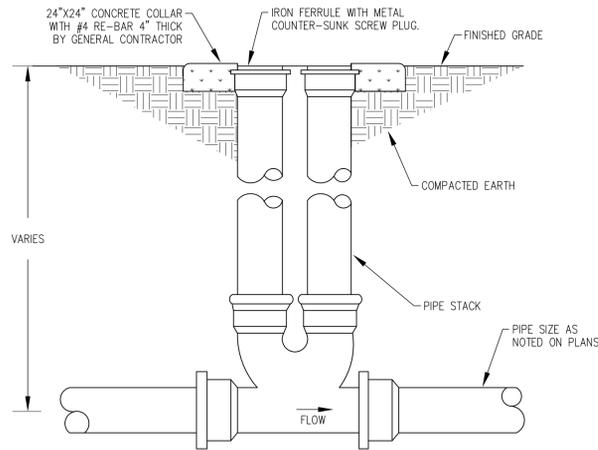
3 VENT THRU ROOF  
P-4.0 NOT TO SCALE



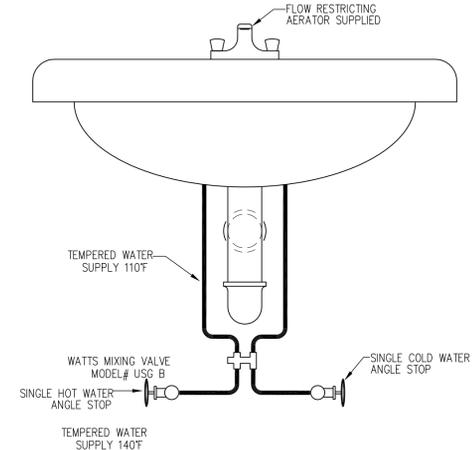
4 WALL CLEANOUT DETAIL  
P-4.0 NOT TO SCALE



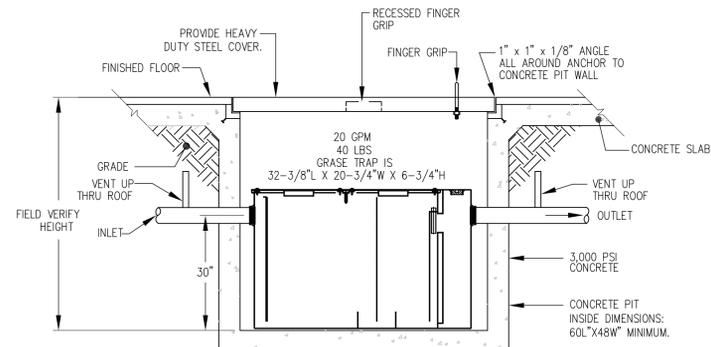
5 FLOOR CLEANOUT DETAILS  
P-4.0 NOT TO SCALE



6 DOUBLE GRADE CLEANOUT DETAIL  
P-4.0 NOT TO SCALE



7 MIXING VALVE DETAIL  
P-4.0 NOT TO SCALE



8 GREASE INTERCEPTOR  
P-4.0 NOT TO SCALE

ELECTRICAL SYMBOL LEGEND			
<p>1. THESE SYMBOLS COMPRISE A STANDARD LIST; NOT ALL SYMBOLS MAY APPEAR ON THIS PROJECT.</p> <p>2. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED BELOW.</p>			
LIGHTING SYMBOLS		POWER SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUORESCENT OR LED LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		JUNCTION BOX
	DIRECTIONAL LIGHT, LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		DUPLEX RECEPTACLE OUTLET, WALL MOUNTED
	WALL MOUNTED FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		STANDARD 20A ISOLATED GROUND
	RECESSED CAN FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		20A GFI RATED UPS
	EXHAUST FAN, REFER TO MECHANICAL PLANS		DEDICATED 5-20R EMERGENCY CHILD PROOF
	POLE LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		120/250VAC - 30A, 10-30R, RECEPTACLE WALL MOUNTED
	DECORATIVE POLE LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		SWITCHED OUTLET, SPLIT WIRE
	BOLLARD LIGHTING FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		1/2 SWITCHED, 1/2 HOT
	CEILING FAN WITH OR WITHOUT LIGHTING KIT, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		QUADPLEX RECEPTACLE, WALL MOUNTED
	EMERGENCY LIGHT, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		FLOOR BOX WITH DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA
	EXIT LIGHT, CAPITAL LETTER INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE		FLOOR BOX WITH QUADPLEX RECEPTACLE AND SINGLE GANG TEL/DATA
	WALL SWITCH, 20A SINGLE POLE, SINGLE THROW		DUPLEX RECEPTACLE OUTLET, CEILING MOUNTED
	SWITCH LED CONTROL		DUPLEX RECEPTACLE OUTLET, STUBB-UP 18\"/>
	DOUBLE POLE		ELECTRICAL WIRING THRU WALL OR CEILING
	THREE WAY		ELECTRICAL WIRING BELOW FLOOR OR GRADE
	FOUR WAY		ELECTRICAL FEEDER, UNDER GRADE
	SLUOR OWNER (FROM MAN)		TELEPHONE CONDUIT WITH PULLSTRING
	KEYED SWITCH (WITH OPERATING DEVICE TYPICAL)		RACEWAY/WIREWAY ASSEMBLY DOWN
	BYPASS SWITCH		RACEWAY/WIREWAY ASSEMBLY UP
	LOW VOLTAGE SWITCH		STUBBED CONDUIT, TERMINATE WITH ISOLATED PLASTIC BUSHING
	CEILING MOUNTED OCCUPANCY SENSOR, WITH BYPASS SWITCH WALL MOUNTED		HOME RUN TO PANELBOARD, CROSS MARKS INDICATE QUANTITY OF WIRES, ARROWS INDICATE QUANTITY OF CIRCUITS, SOLID CIRCLE INDICATED GROUND, OPEN CIRCLE INDICATE ISOLATED GROUND, NUMBERS INDICATE PANEL AND CIRCUITS
	OCCUPANCY SENSOR, WITH BYPASS INFRA-RED SENSOR		HOME RUN TO PANELBOARD, CROSS MARK ON ARROW INDICATE CIRCUIT CONTINUES TO OTHER DEVICE.
	OCCUPANCY SENSOR, WITH BYPASS ULTRASONIC SENSOR		HOME RUN TO PANELBOARD, CROSS MARK INDICATE CIRCUIT CONTINUES TO OTHER DEVICE.
	OCCUPANCY SENSOR, WITH BYPASS DUAL TECHNOLOGY (INFRARED & ULTRASONIC)		HOME RUN, CROSS MARK INDICATE CIRCUIT, HALF CIRCULE INDICATE SWITCH LEGS
	OCCUPANCY SENSOR, WITH BYPASS DUAL TECHNOLOGY		PANELBOARD, REFER TO CORRESPONDING PANEL SCHEDULE

ELECTRICAL SYMBOL LEGEND			
A OR AMP	AMPERE	NEC	NATIAL ELECTRIC CODE
AF	AMP FUSED	NEUT	NEUTRAL
AFF	ABOVE FINISH FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
AHU	AIR HANDLING UNIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AIC	AMPS INTERRUPTING CAPACITY	NF	NON FUSED
AL	ALUMINUM	NO	NORMALLY OPEN
AC	ABOVE COUNTER	PB	PUSHBUTTON
COND./C	CONDUIT	PC	PHOTOCELL
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	PNL	PANEL
CONN	CONNECTION	PRV	POWER ROOF VENTILATION
CU	CUPPED	PS	PHOTO CELL
DISC	DISCONNECT	PVC	PLASTIC CONDUIT
EC	ELECTRICAL CONTRACTOR	RECEP	RECEPTACLE
EM	EMERGENCY	RTU	ROOF TOP UNIT
EQUIP	EQUIPMENTS	SC	SWITCH
EW	ELECTRICAL WATER COOLER	SW	TIMER CONTACTOR
EW	ELECTRICAL WATER HEATER	TEL	TELEPHONE
FA	FIRE ALARM	T OR TRAN	TRANSFORMER
FLA	FULL LOAD AMPERES	TYP	TYPICAL
FLOUR	FLOURESCENT	UG	UNDER GROUND
F	FUSE	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UV	UNIT VENTILATOR
GFI	GROUND FAULT INTERRUPTER	V	VOLT
GND	GROUND	VA	VOLT AMPERES
GRS	GALVANIZED RIGID STEEL	W	WATTS
HP	HORSE POWER	WP	WEATHER PROOF
HZ	HERTZ	W/O	WITHOUT
IG	ISOLATED GROUND	WTR	WATER
J-BOX	JUNCTION BOX	Y	WYE CONNECTED
KV	KILOVOLT	Ø	Ø PHASE
KVA	KILOVOLT AMPERES		
KW	KILOWATT		
LTG	LIGHTING		
MC/MECH	MECHANICAL CONTRACTOR		
MCM	THOUSAND CIRCULAR MIL		
MTD	MOUNTED		
NC	NORMALLY CLOSED		

FIRE ALARM SYSTEM SYMBOLS			
SYMBOL	DESCRIPTION	MTG. HT.	
	PULL STATION WITH STOPPER, PROVIDE 4\"/>	48"	
	STROBE, NUMBER DENOTES 'G' RATING, PROVIDE 4\"/>	96"	
	PROVIDE 4\"/>	96"	
	SMOKE DETECTOR		
	CARBON MONOXIDE/SMOKE DETECTOR		
	DUCT DETECTOR		
	FIRE ALARM CONTROL PANEL WITH DIGITAL NOTIFIER		
	FIRE ALARM REMOTE ENUNCIATOR		
	FIRE ALARM KEY PAD		

DEFENITIONS			
CONTRACTOR	MEANS THE PERSON(S), FIRM OR COMPANY WHOSE TENDER FOR THE ELECTRICAL INSTALLATION HAS BEEN ACCEPTED BY THE EMPLOYER AND INCLUDE THE CONTRACTOR'S PERSONAL REPRESENTATIVE, SUCCESSOR, AND PERMITTED ASSIGNS. (The word 'Contractor' may also mean sub-contractor as the context requires.)		
DRAWINGS	MEANS THE DRAWINGS REFERRED TO IN THE CONTRACT AND ANY MODIFICATION OF SUCH DRAWINGS APPROVED BY THE ARCHITECT AND SUCH OTHER DRAWINGS AS MAY FROM TIME TO TIME BE FURNISHED OR APPROVED IN WRITING BY ARCHITECT.		
EQUIPMENT SUPPLIER	MEANS A PERSON WHO GENERATE, SUPPLIES AND SELLS SPECIAL EQUIPMENT FOR USE IN THE PROJECT.		
PROVIDE	FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.		
OR EQUAL	EQUAL IN QUALITY AND FUNCTION.		
INSTALL	FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.		

ELECTRICAL GENERAL NOTES			
<b>GENERAL</b>			
A.	THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZED THEMSELF WITH THE PROJECT CONDITIONS.	S.	ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL WALL OR CEILING.
B.	THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH ALL ARCHITECTURAL AND MECHANICAL EQUIPMENT AND PROVIDE ELECTRICAL CONNECTIONS IN THIS CONTRACT FOR ANY ITEM REQUIRED.	T.	CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY. REFER TO ARCHITECTURAL REGARDING PATCHING REQUIREMENTS.
C.	THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH PROJECT PRIOR TO THE BID OPENING, TO ALLOW HIM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID PERIOD, IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF THE WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.	U.	CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LAY-IN FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO INSTALLATION OF FIXTURES.
D.	IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.	V.	PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE TO MATCH ADJACENT SURFACES.
E.	LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED, COORDINATE WITH ARCHITECTURAL DOCUMENTS FOR EXACT LOCATIONS.	W.	OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, ETC. ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE LOCATION WITH COUNTERTOPS, CHALKBOARDS, TACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
F.	THE CONDUIT RUNS AS SHOWN ON PLANS INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.	X.	ALL RECEPTACLES TO BE 20A COMMERCIAL GRADE, IVORY. WALL PLATES TO MATCH ISOLATED GROUND DUPLEX RECEPTACLES (IG) WILL BE ORANGE BODY AND FACE PLATE.
G.	CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.	Y.	INSTALL WALL MOUNTED LIGHT FIXTURES, SWITCHES, OUTLETS, AND COMMUNICATION DEVICES IN STRICT COORDINATION WITH ARCHITECTURAL DETAILS, SECTIONS AND ELEVATIONS.
H.	SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.	Z.	FIRESTOPPING OF PENETRATIONS IN FIRE-RATED WALLS, FLOORS, etc. SHALL BE DONE BY A FIRESTOPPING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS IN RATED WALLS, FLOORS, etc. NEATLY AND WITH A CUTTING TOOL, THE CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY, AND THE CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE FIRE STOPPING CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.
I.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.	AA.	PROVIDE 1\"/>
J.	CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.	BB.	SUPPORT ALL FIXTURES FROM STRUCTURE ABOVE. CEILING TILES OR PLASTER CEILING SHALL NOT SUPPORT FIXTURES.
K.	INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.	CC.	FINISHED FLOOR ELEVATIONS FOR OUTLETS AND OTHER DEVICES ARE TO CENTER OF BOX. WHERE MILLWORK IS PRESENT, BOTTOM OF BOX SHALL BE MINIMUM OF 2\"/>
L.	ALL ELECTRICAL WIRING AND HOME RUN CIRCUITING TO PANELS SHALL BE ROUTED IN CONDUIT, MIN SIZE 3/4\"/>	DD.	SUPPORT HORIZONTAL RUNS OF EMT CONDUIT EVERY 10'-0\"/>
M.	REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.	EE.	USE GLAND RING COMPRESSION THREADED FITTINGS WITH INSULATED THROAT FOR EMT CONDUIT. DOUBLE SET SCREW FITTINGS ARE ACCEPTABLE FOR 2-1/2\"/>
N.	AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT INTERFERE WITH THE TIMELY EXECUTION OF THE ROUGH-IN WORK THAT WILL BE REQUIRED.	FF.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL CONTRACTOR.
O.	WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.	GG.	BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT, TRASH, WATER (EXCEPT AS REQ'D), VERMIN, ETC..
P.	ALL NEW WIRING SHALL BE COPPER, MIN #12 THWN CU.	HH.	DEVICES THAT MIGHT CAUSE OR OPERATE WITH VIBRATION OR NOISE SHALL BE ISOLATED PER MANUFACTURER'S RECOMMENDATIONS.
Q.	MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. THIS NOTE APPLIES TO ALL ELECTRICAL SHEETS IN THESE DRAWINGS; OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.	II.	ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH ACCESSIBILITY CODES ADOPTED FOR NEW MEXICO. SPECIFICALLY MOUNT APPLICABLE SWITCHES, RECEPTACLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE MOUNTED WITH THE TOP OF THE DEVICE NO HIGHER THAN FOURTY-EIGHT (48 INCHES) ABOVE THE FINISH FLOOR AND THE BOTTOM OF THE DEVICE NO LOWER THAN FIFTEEN INCHES (15 INCHES) ABOVE THE FINISHED FLOOR. ELECTRICAL DEVICES ABOVE A COUNTERTOP OR OTHER OBSTRUCTION SHOULD COMPLY WITH ICC/ANSI 117.1-2003 SECTION 308.
R.	ELECTRICIAN TO CONFIRM POWER REQUIREMENTS FOR MECHANICAL EQUIPMENT DELIVERED ON SITE.	JJ.	EXTERIOR LIGHTING SHALL COMPLY WITH THE LAS CRUCES OUTDOOR LIGHTING ORDINANCE AND THE NEW MEXICO NIGHT SKY PROTECTION.

### ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE NATIONAL ELECTRICAL CODE, ENERGY CODE AS ADOPTED AND INTERPRETED BY THE STATE OF NEW MEXICO AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS, CURRENT ADOPTED EDITION REGARDING MECHANICAL SYSTEMS, FIRE SYSTEMS AND ELECTRICAL SYSTEMS. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED, WHERE THE DRAWINGS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE OWNER, ARCHITECT AND ENGINEERS FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- ALL WORK SHALL CONFIRM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED
- ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER OR OWNER. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIAL SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAME OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION, MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SECTION SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATION OR IN SCHEDULES ON THE DRAWINGS.
- PROVIDE THE OWNER WITH THREE (3) COPIES OF ALL INSTALLATIONS INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS.
- ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND OR ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER ELECTRICAL SERVICES TO AREA OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT, OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT OFFICE. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES.
- ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. MC CABLE IS ALLOWED IN WALLS ONLY. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE - 3/4" INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN A EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT.

- INCREASE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' - #10 AWG; OVER 100' - #8 AWG.
- THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.
- USE THE FOLLOWING WIRING COLOR CODE:
 

A. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING:	
120/208	277/480
PHASE A BLACK	BROWN
PHASE B RED	ORANGE
PHASE C BLUE	YELLOW
NEUTRAL WHITE	GRAY
GROUND GREEN	GREEN
SWITCH PINK/PURPLE	PINK/PURPLE
- BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE. TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WARNING LEGEND PER ASMB A13.1.
- CONTRACTOR TO PROVIDE BLANK COVER FOR ALL J-BOXES AND WEATHERPROOF COVERS FOR J-BOXES IN WET LOCATIONS.
- ENCLOSURES, BOXES AND COVERS ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF THE MOST CURRENT ANSI/SC17.7. WHEN MULTIPLE "TIERS" ARE SPECIFIED THE BOXES MUST PHYSICALLY ACCOMMODATE AND STRUCTURALLY SUPPORT COMPATIBLE COVER WHILE POSSESSING THE HEIGHT TIER RATING. ALL COVERS ARE REQUIRED TO HAVE THE TIER LEVEL RATING EMBOSSED ON THE SURFACE. IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFING TOOLING. INDEPENDENT THRID PARTY VERIFICATION OR TEST REPORTS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT ALL TEST PROVISIONS OF THIS SPECIFICATION HAVE BEEN MET ARE REQUIRED WITH EACH SUBMITTAL. CONTRACTOR TO ENSURE EXACT LOCATION AND PLACEMENT OF BOXES AND COVERS AND PROVIDE THE RATING REQUIRED BY LOCAL AND NATIONAL CODES.

- ELECTRICAL PANELS SHALL BE PANELBOARDS, HAVE COPPER BUSS, BOLTED CIRCUIT BREAKERS, KAIC RATING AS NOTED. PROVIDE TYPED AND LAMINATED COMPLETE SCHEDULE. MARKING IN COMPLIANCE WITH THE 2014 NEC 110.21, 110.22, 200.6(D), 210.5(C) AND 408.4.
- ALL DISCONNECTS SHALL BE HEAVY DUTY RATED.
- EMERGENCY EGRESS LIGHTING TO COMPLY WITH 2009 IBC SECTION 106 AND 2014 NEC 700.12.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MEANS OF EGRESS TRAVEL SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT THE FLOOR LEVEL.
- ABANDONED POWER WIRING WILL BE REMOVED BACK TO THE SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CONDUIT/TUBING AND EQUIPMENT SHALL BE REMOVED. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.
- ALL CONDUIT INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH CONDUIT SUPPORTS EVERY 10'-0". CONDUIT SUPPORT TO BE DURA-BLOCK, CONTRACTOR TO PROVIDE SIZED AND ACCESSORIES REQUIRED.
- ALL GFCI RATED RECEPTACLE SHALL BE INSTALLED IN AN ACCESSIBLE SERVICE LOCATION. IT SHALL NOT BE INSTALLED BEHIND ANY EQUIPMENT. IF NEEDED CONTRACTOR SHALL HAVE THE OPTION TO PROVIDE A GFCI RATED CIRCUIT BREAKER WHERE REQUIRED BY CODE. ALL EQUIPMENT GFCI RATED RECEPTACLES SHALL NOT BE INSTALLED MORE THAN 12" FROM SERVING EQUIPMENT. COORDINATE ALL LOCATIONS WITH EQUIPMENT INSTALLER BEFORE DOING ANY WORK.

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12-02-19

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - ELECTRICAL GENERAL NOTES**

Issue Date: 12-02-19
Drawn by: MP
Checked by: CR
Revisions:

**E-1.0**

SHEET 01 OF 06



LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER/MODEL NO.	SUPPLY	LAMP			COLOR	MOUNTING	NOTES
			QTY.	TYPE	TEMP.			
A	EATON 24 RTC-48-UNV-L840	120V	1	37.8W LED			LAY-IN	
B	EATON PD6 15 D010B 827	120V	1	14W LED			RECEASED	
G	EATON SLD606 8 30 WH JB	120V	1	12.2 WLED			SURFACE	
D	LIGHTWAY CARV-36-LED-U-32-4-SW-CUA	120V	1	32W LED			WALL	
F	LIGHTWAY CHSC-11-LED-U-28W-3-B1-CPP	120V	1	28W LED			SURFACE	
G	U.S. ARCHITECTURAL LIGHTING QSRW1/2070/PLED-III/120/RAL-8019/DBZ	120V	1	44W LED			SURFACE	
X1	MULE LIGHTING SOC U R WW REM	120V	1	INCLUDED		WH	CEILING/WALL	[1]
EL	MULE LIGHTING EM-80-W	120V	1	INCLUDED		WH	WALL	[1]
EX	MULE LIGHTING RLED-2-WP	120V	1	INCLUDED		WH	WALL	[2]

NOTES: [1] PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY  
 [2] REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.

### COMcheck Software Version 4.0.8.1 Interior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: HONDO SENIOR CENTER  
 Project Type: New Construction

Construction Site: LINCOLN COUNTY, NM  
 Owner/Agent:  
 Designer/Contractor: JOSE MORALES RAXIS ENGINEERING, LLC  
 1712 TEXAS AVENUE  
 EL PASO, TX 79901  
 915-539-2516  
 JMORALES@RAXISENGINEERING.COM

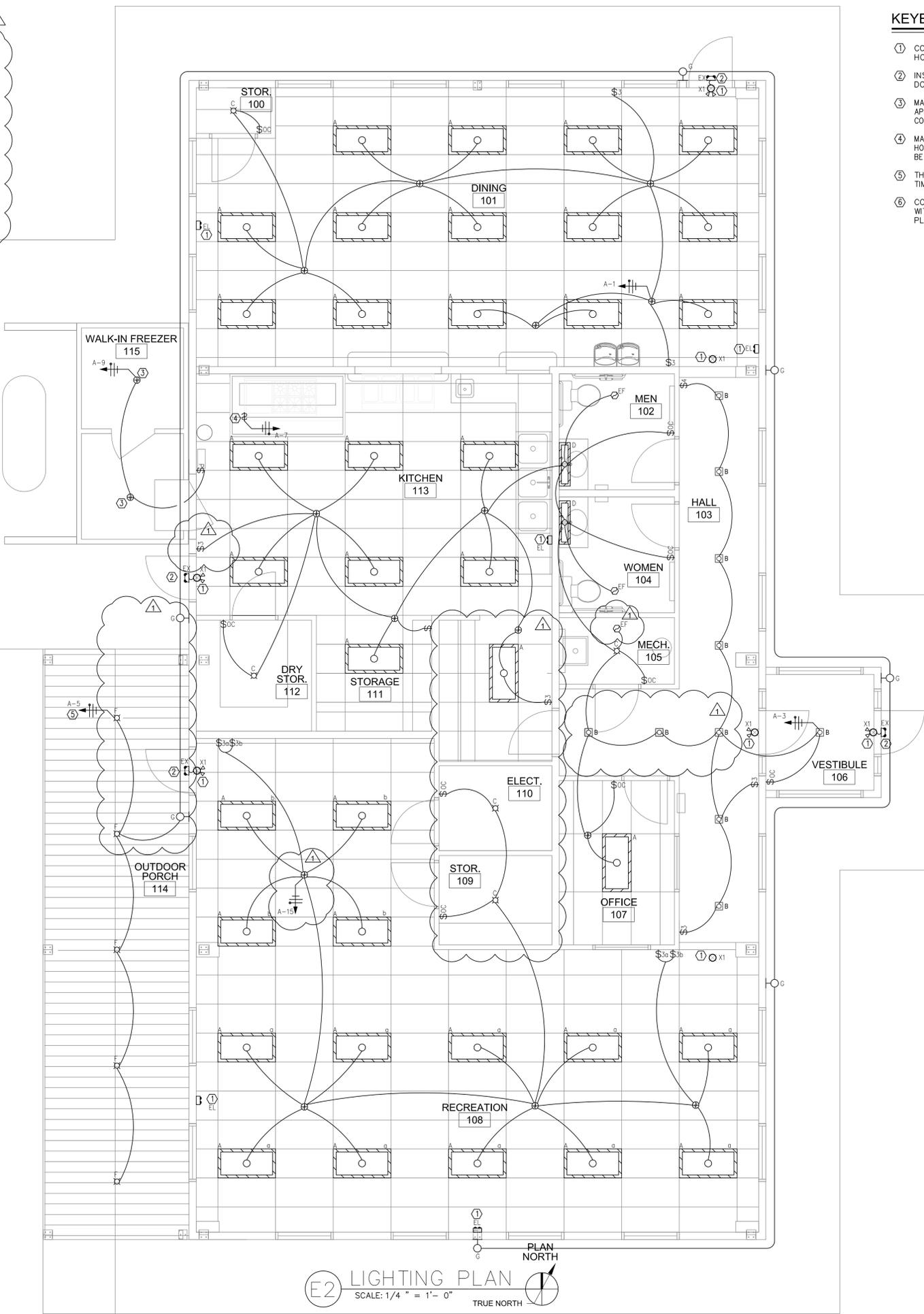
**Additional Efficiency Package(s)**

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Health Care-Clinic	3272	0.90	2945
Total Allowed Watts =			2945

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Health Care-Clinic				
C: Other:	1	4	12	49
D: Other:	1	1	32	32
A: Other:	1	37	38	1399
B: Other:	1	9	17	153
A1: Other:	1	1	38	38
Total Proposed Watts =				1670

**Interior Lighting PASSES: Design 43% better than code**  
**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.



**E2 LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"  
 TRUE NORTH

#### KEYED NOTES

- CONNECT ALL EXIT LIGHTS AND EMERGENCY LIGHTS TO HOT LEG OF NEAREST LIGHTING CIRCUIT.
- INSTALL OUTDOOR REMOTE EMERGENCY HEAD ABOVE DOOR, CONNECT AS SHOWN.
- MAKE CONNECTIONS TO WALK-IN LIGHT AND DOOR HEATER, IF APPLICABLE. COORDINATE WITH EQUIPMENT SUPPLIER FOR CONNECTION REQUIREMENTS.
- MAKE CONNECTIONS TO KITCHEN HOOD LIGHTS. COORDINATE WITH HOOD INSTALLER PRIOR TO COMMENCING ANY WORK. CIRCUIT TO BE WIRED THROUGH HOOD FIRE SUPPRESSION SYSTEM.
- THIS CIRCUIT TO BE WIRED THRU TIMER CONTACTOR, TIMER CONTACTOR TO BE CONTROLLED BY PHOTOCELL.
- COORDINATE EXACT LOCATIONS OF CEILING ELEMENTS WITH ARCHITECTURAL SHEET A-1.1 AS DIMENSIONED ON PLAN.

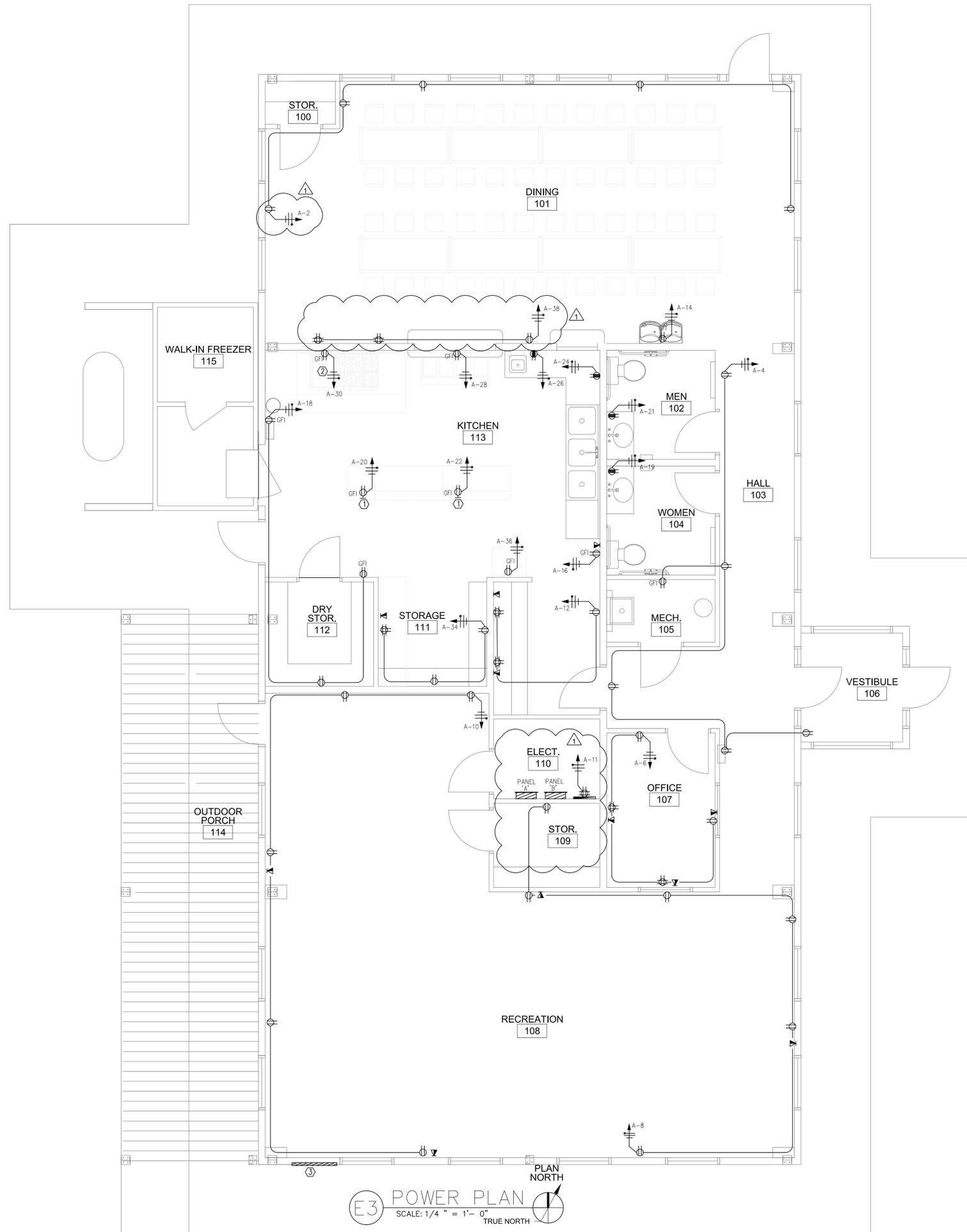
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12-02-19

**2019 - 2020 HONDO SENIOR CENTER  
 HONDO, NEW MEXICO  
 for LINCOLN COUNTY, NM**  
**HONDO SENIOR CENTER - LIGHTING PLAN**  
 Issue Date: 12-02-19  
 Drawn by: MP  
 Checked by: CR  
 Revisions:  
 12-02-19  
**E-2.0R**  
 SHEET 02 OF 06





**E3 POWER PLAN**  
 SCALE: 1/4" = 1'-0"  
 TRUE NORTH

**POWER PLAN KEYED NOTES**

- ① PROVIDE AND INSTALL GFI RECEPTACLE FOR KITCHEN EQUIPMENT STUB UP TO 6" A.F.F TO TOP OF BOX, COORDINATE WITH TENANT FOR EXACT LOCATION.
- ② THIS CIRCUIT TO BE PROVIDED WITH SHUNT TRIP. SHUNT TRIP TO BE CONTROLLED BY FIRE SUPPRESSOR SYSTEM.
- ③ PROPOSED LOCATION OF ELECTRIC METER AND MAIN DISCONNECT. REFER TO RISER DIAGRAM ON SHEET E-5.0.

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12-02-19

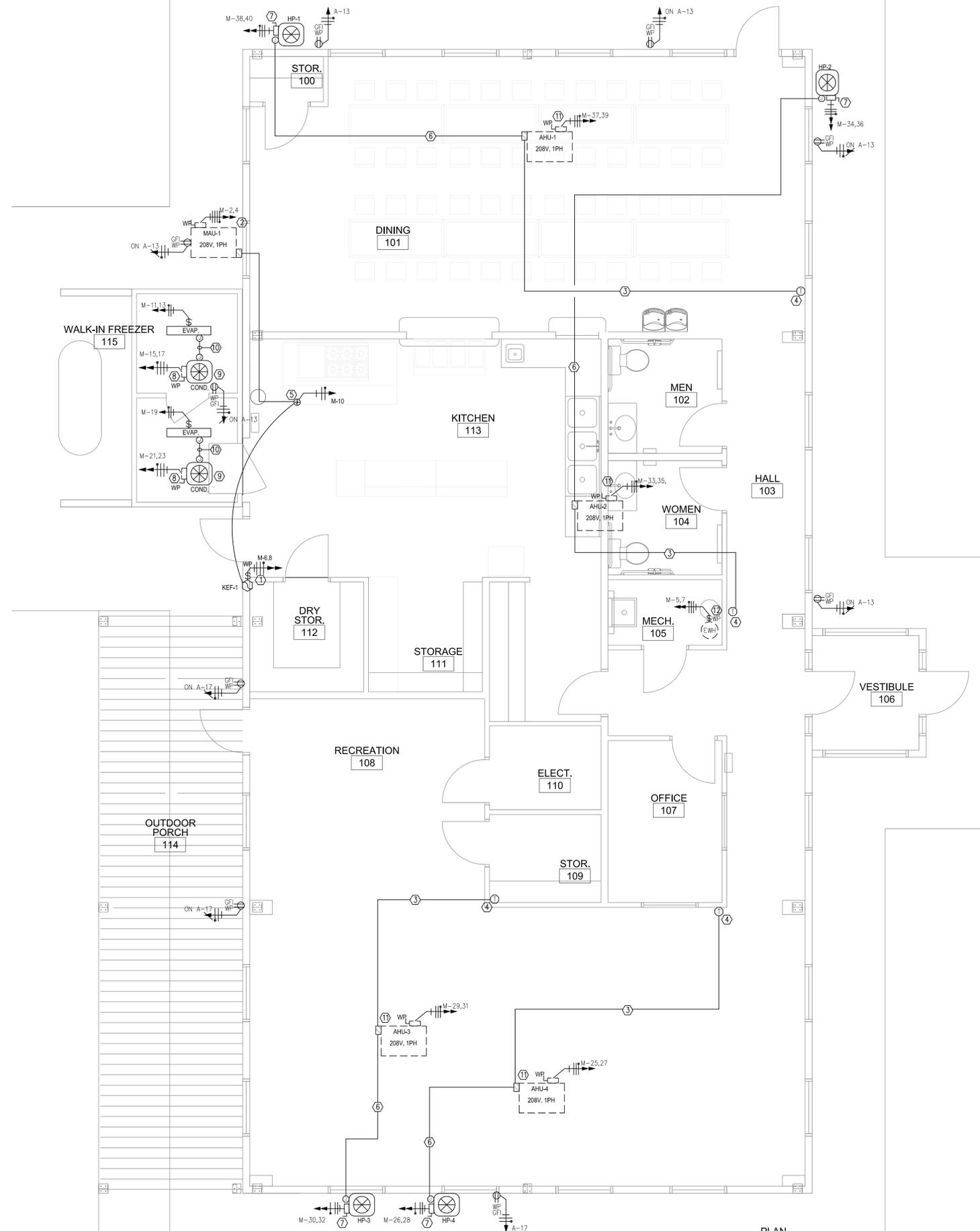
**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - POWER PLAN**

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**E-3.0R**

SHEET 03 OF 06





**KEYED NOTES**

- ① PROVIDE AND INSTALL 30A, 208V, 3PH, 4 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS KITCHEN EXHAUST FAN WITH WATER TIGHT FLEXIBLE CONDUIT.
- ② PROVIDE AND INSTALL 50A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO MAKE UP AIR UNIT WITH WATER TIGHT FLEXIBLE CONDUIT.
- ③ 1/2" CONDUIT WITH PULLSTRING, COORDINATE WITH MECHANICAL CONTRACTOR.
- ④ LOCATION OF THERMOSTAT, PROVIDE 4" SQ. J-BOX WITH PLASTER RING. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
- ⑤ LOCATION OF HOOD CONTROLLER/FIRE SUPPRESSION SYSTEM. COORDINATE WITH HOOD INSTALLER FOR EXACT WIRING REQUIREMENTS. PROVIDE 120V POWER, REFER TO POWER PLAN.
- ⑥ 3/4" CONDUIT WITH ALL REQUIRED CONTROL WIRING COORDINATE WITH MECHANICAL CONTRACTOR.
- ⑦ PROVIDE AND INSTALL 60A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO CONDENSING UNIT WITH WATER TIGHT FLEXIBLE CONDUIT.
- ⑧ PROVIDE AND INSTALL 30 AMP, 240V, 1 PH, NEMA 3R, HEAVY DUTY, FUSED DISCONNECT, PROVIDE FUSES AS REQUIRED. MAKE CONNECTIONS TO CONDENSER WITH WATER TIGHT FLEXIBLE CONDUIT. CONTRACTOR MUST VERIFY EXACT INTERCONNECTION REQUIREMENTS BETWEEN CONDENSER AND EVAPORATOR FOR WALK-IN. CONTRACTOR MUST VERIFY EXACT REQUIREMENTS OF EQUIPMENT WITH OWNER BEFORE DOING ANY WORK.
- ⑨ COORDINATE WITH KITCHEN EQUIPMENT INSTALLER FOR EXACT INTERCONNECTION REQUIREMENTS BEFORE DOING ANY WORK.
- ⑩ COORDINATE WITH EQUIPMENT INSTALLER FOR LOCATION AND CONNECTIONS REQUIREMENTS.
- ⑪ PROVIDE AND INSTALL 100A, 208V, 1PH, 3 WIRE, HEAVY DUTY, NEMA 3R NON-FUSED DISCONNECT. MAKE CONNECTIONS TO CONDENSING UNIT WITH WATER TIGHT FLEXIBLE CONDUIT.
- ⑫ PROVIDE AND INSTALL 60 AMP, 240V, 1 PHASE, NEMA 3R, HEAVY DUTY, NON-FUSED DISCONNECT, MAKE CONNECTIONS TO WATER HEATER WITH WATER TIGHT FLEXIBLE CONDUIT. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR BEFORE DOING ANY WORK.

**E4 HVAC POWER PLAN**  
 SCALE: 1/4" = 1'-0"  
 PLAN NORTH  
 TRUE NORTH



12-02-19

**2019 - 2020 HONDO SENIOR CENTER**  
**HONDO, NEW MEXICO**  
 for LINCOLN COUNTY, NM  
**HONDO SENIOR CENTER - HVAC POWER PLAN**

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 SHEET 04 OF 06



PANEL OR LOAD CENTER - M															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
OT	1	PANEL "A"		100	2	11	11.4		0.4	2	20		MAU-1	2	OT
OT	5	120/240V, 1PHASE, 3WIRE				9.9		10.3	0.4				208V, 1PH	5	OT
OT	5	WH-1		30	2	2.4	2.8		0.4	2	20		KEF-1	6	OT
OT	7	208V, 1PH						2.8	0.4				208V, 1PH	8	OT
5		SPARE		20	1	0.8			0.4	1	20		HOOD CONTROLS	10	
OT	11	FREEZER EVAP				0.8		0.4		1	20		SPARE	12	
OT	15	240V 1PH		20	2	0.8	0.8			1	20		SPARE	18	
OT	15	FREEZER		20	2	1.2		1.2		1	20		SPARE	18	
OT	17	240V 1PH				1.2	1.2			1	20		SPARE	18	
OT	15	COOLER EVAP		15	1	0.8		0.6		1	20		SPARE	20	
OT	21	COOLER				1.3	1.3			1	20		SPARE	22	
OT	25	240V 1PH		20	2	1.3		1.3		1	20		SPARE	24	
OT	25	AHU-4				5.1	7.2		2.1	2	35		HP-4	26	OT
OT	27	208V 1PH 49.3 MCA		50	2	5.1		7.2	2.1	2	35		208V, 1PH 20.5 MCA	28	OT
OT	25	AHU-3				5.1	7.2		2.1	2	35		HP-3	30	OT
OT	31	208V 1PH 49.3 MCA		50	2	5.1		7.2	2.1	2	35		208V, 1PH 20.5 MCA	32	OT
OT	33	AHU-2				5.4	8.6		3.2	2	50		HP-2	34	OT
OT	35	208V 1PH 51.8 MCA		60	2	5.4		8.6	3.2	2	50		208V, 1PH 30.8 MCA	36	OT
AC	37	AHU-1				10.0	13.3		3.3	2	50		HP-1	38	OT
AC	39	208V, 1PH, 95.7 MCA		100	2	10.0		13.3	3.3	2	50		208V, 1PH 31.7 MCA	40	OT

PANEL OR LOAD CENTER INFORMATION			
DESIGNATION	M		
MAIN SIZE	600 AMPS		
MAIN TYPE	M.L.O.		
VOLTS	120/240		
PHASE	1		
Wire	3		
AIC RATING	22 KAIC		
NEMA TYPE	INTERIOR		
MOUNTING	SURFACE		
SERVED FROM	600 AMP, 2 POLE MAIN DISC.		

LOAD TYPE	CONNECTED KVA	DESIGN FACTOR	DESIGN LOAD KVA	DESIGN LOAD AMPS
LIGHTS	0.0	1.25	0.00	0.0
RECECTABLES	0.00	1.0	0.00	0.0
MOTOR	0.00	NEC	0.00	0.0
AC	20.00	83.3	1.25	25.00
KITCHEN	0.00	0.0	1.0	0.00
OTHER	87.30	363.8	NEC	87.30
TOTAL	107.30	447.1		112.30

PANEL OR LOAD CENTER - A															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
LT	1	DINING LIGHTING		20	1	0.6	1.1		0.6	1	20		DINING OUTLETS	2	RE
LT	5	VESTIBULE LIGHTING		20	1	0.6		1.4	0.8	1	20		HALL OUTLETS	4	RE
LT	5	EXTERIOR LIGHTS		20	1	1	1.8		0.8	1	20		OFFICE OUTLETS	6	RE
LT	7	HOOD LIGHT		20	1	0.4		1.2	0.8	1	20		RECREATION ROOM OUTLETS	8	RE
LT	5	WALK-IN LIGHT		20	1	0.4	1.2		0.8	1	20		RECREATION ROOM OUTLETS	10	RE
OT	11	TELEPHONE BOARD		20	1	0.6		1.6	0.8	1	20		KITCHEN OUTLETS	12	RE
RE	13	EXTERIOR OUTLETS		20	1	0.6	1.6		0.8	1	20		EWIC	14	RE
LT	15	RECREATION LIGHTS		20	1	0.6		1	0.8	1	20		KITCHEN OUTLETS	16	RE
RE	17	EXTERIOR OUTLETS		20	1	0.6	1.4		0.8	1	20		KITCHEN OUTLETS	18	RE
RE	15	RESTROOM OUTLET		20	1	0.4		1	0.6	1	20		KITCHEN OUTLETS	20	RE
RE	21	RESTROOM OUTLET		20	1	0.4	1		0.6	1	20		KITCHEN OUTLETS	22	RE
25		SPARE		20	1			0.8	0.8	1	20		KITCHEN OUTLETS	24	RE
25		SPARE		20	1		0.8		0.8	1	20		KITCHEN OUTLETS	26	RE
27		SPARE		20	1			2.1	2.1	1	30		FOOD WARMER	28	RE
25		SPARE		20	1		0.8		0.8	1	20		RANGE	30	RE
31		SPARE		20	1			0	0	1	20		SHUNT TRIP	32	RE
33		SPARE		20	1		0.8		0.8	1	20		KITCHEN OUTLETS	34	RE
35		SPARE		20	1		0.5		0.8	1	20		ICE MACHINE	36	RE
37		SPARE		20	1			0	0.6	1	20		COFFEE SERVICE OUTLETS	38	RE
35		SPARE		20	1			0	0.6	1	20		SPARE	40	RE

PANEL OR LOAD CENTER INFORMATION			
DESIGNATION	A		
MAIN SIZE	125 AMPS		
MAIN TYPE	M.L.O.		
VOLTS	120/240		
PHASE	1		
Wire	3		
AIC RATING	12 KAIC		
NEMA TYPE	INTERIOR		
MOUNTING	SURFACE		
SERVED FROM	100 AMP, 2 POLE C.B. IN PANEL 'M'		

LOAD TYPE	CONNECTED KVA	DESIGN FACTOR	DESIGN LOAD KVA	DESIGN LOAD AMPS
LIGHTS	3.6	15.0	1.25	4.50
RECECTABLES	16.50	68.8	1.0	16.50
MOTOR	0.00	0.0	NEC	0.00
AC	0.00	0.0	1.25	0.00
KITCHEN	0.00	0.0	1.0	0.00
OTHER	0.80	1.3	NEC	0.80
TOTAL	20.90	87.1		21.80

**SHORT CIRCUIT AVAILABILITY (SCA)**

BASED UPON MAXIMUM BUILDING TRANSFORMER SC. LET THROUGH WITH UNLIMITED PRIMARY S.C. CURRENT (INFINITY BUS)

ASSUMING BUILDING TRANSFORMER RATING = 300 KVA  
 TRANSFORMER IMPEDANCE (%Z)= 3.75 %  
 SECONDARY VOLTAGE = 240 VOLTS  
 SECONDARY PHASE= 1 PHASE

$$FLA = \frac{KVA \times 1000}{E(H) \times PHASE CORRECTION} = \frac{300 \times 1000}{240 \times 1}$$

FLA = 1,250.00 AMPS

$$MULTIPLIER = \frac{100}{3.75} = 26.67$$

SCA = AMPS X MULTIPLIER = 1,250.00 X 26.67

SCA = 33330 AMPS AT LOAD SIDE OF TRANSFORMER

**FAULT CURRENT AT MAIN SERVICE**

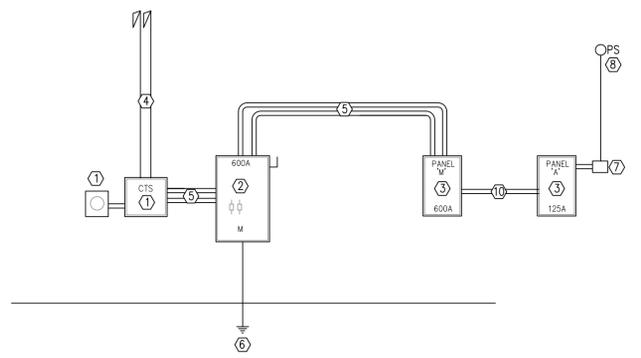
SCA AT SECONDARY = 33330 AMPS  
 LENGTH TO MAIN SERVICE = 200 FT  
 "C" (WIRE CONSTANT) = 22737  
 # OF PARALLEL WIRES = 2

CALCULATE "F" FACTOR

$$F = \frac{PHASE CORRECTION \times LENGTH (FEET) \times SCA}{\# OF PARALLEL WIRES \times "C" WIRE CONSTANT \times VOLTAGE L-L}$$

$$F = \frac{1.057917 \times 200 \times 33330}{2 \times 22737 \times 240} = 0.485928$$

NEW SCA = SCA X M  
 SCA AT MAIN SERVICE = 16195.99 AMPS

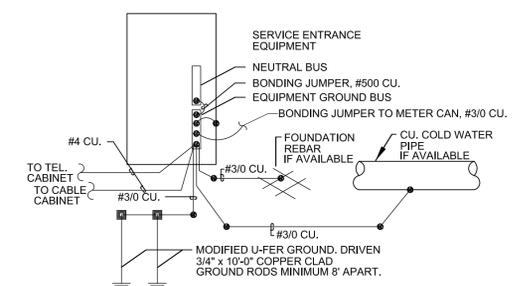


**ELECTRICAL RISER DIAGRAM**

SCALE: N.T.S.

**ELECTRICAL RISER DIAGRAM KEYED NOTES**

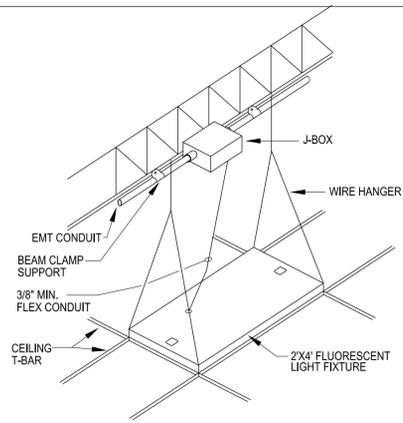
- NEW CT ENCLOSURE AND CT METER PER LOCAL ELECTRIC COMPANY REQUIREMENTS.
- MAIN DISCONNECT 'A': 600A, 240Y/120V, 1 PHASE, 3 WIRE, NEMA 3R, WITH (2) 500A FUSES.
- PANEL 'M' 600A. 1 PHASE, 3 WIRE, REFER TO PANEL SCHEDULE.
- (2) 3" CONDUITS EACH WITH 3-#350 MCM THWN CU. CONDUCTORS.
- (2) 3" CONDUITS EACH WITH 3-#350 MCM THWN CU. CONDUCTORS AND 1-#2 CU. GROUND.
- GROUNDING SYSTEM #3/0
- PROVIDE NEMA 3R, HINGED, WITH LOCKABLE COVER LARGE ENOUGH TO FIT TIME CLOCK, 4 POLE LIGHTING CONTACTOR, AND ASSOCIATED DEVICES.
- PHOTOCELL ON ROOF, FACING SOUTH.
- PANEL 'A' 125A. 1 PHASE, 3 WIRE, REFER TO PANEL SCHEDULE.
- 1 1/2" CONDUIT WITH 3-#2 THWN CU. CONDUCTORS AND 1-#8 CU. GROUND.



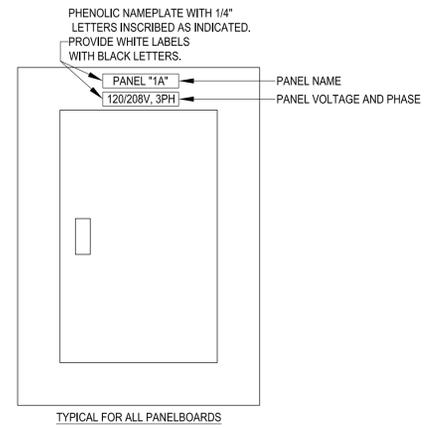
**GROUNDING SCHEMATIC**

NTS

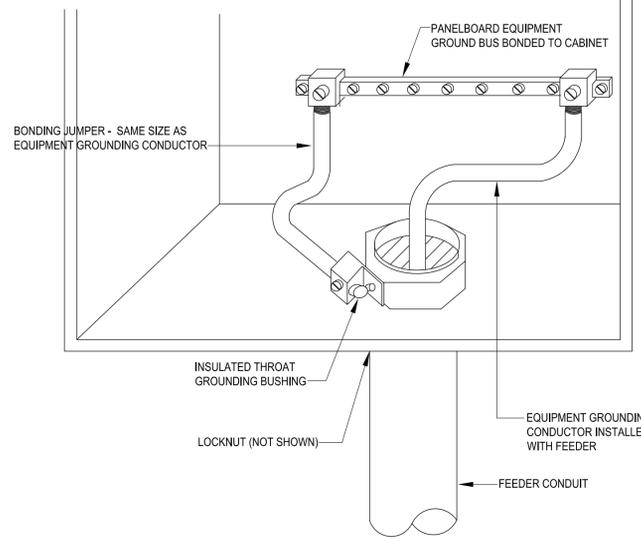




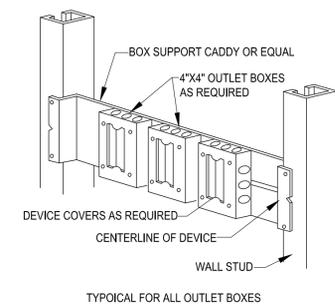
1  
E-6.0 LAY-IN FIXTURE MOUNTING DETAIL NTS



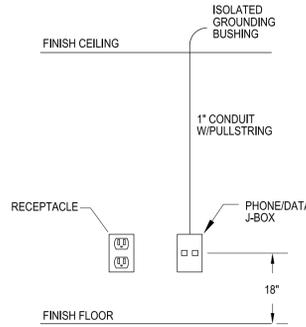
2  
E-6.0 PANELBOARD IDENTIFICATION SCHEMATIC NTS



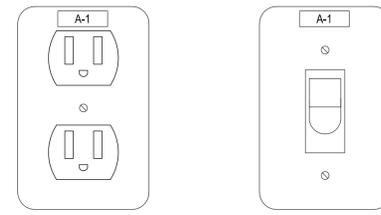
3  
E-6.0 PANELBOARD BONDING SCHEMATIC NTS



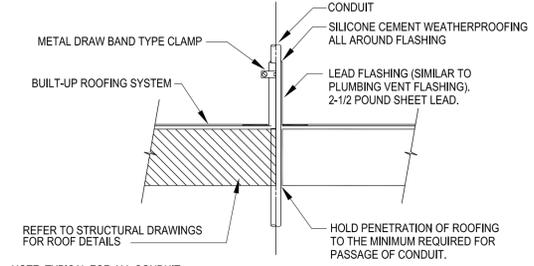
4  
E-6.0 MULTIPLE OUTLET BOX DETAIL NTS



5  
E-6.0 TYP. PHONE/DATA BOX NTS



6  
E-6.0 RECEPTACLE AND SWITCH LABEL TYPICAL FOR ALL NTS  
NOTE: PROVIDE WITH 1/8" BLACK LETTER WITH WHITE LABELS, INDICATING PANEL AND CIRCUIT FEEDING DEVICE.



7  
E-6.0 CONDUIT ROOF PENETRATION SCHEMATIC NTS  
NOTE: CONTRACTOR TO COORDINATE WITH OWNER FOR ROOFING PENETRATIONS IN ORDER TO MAINTAIN ROOF WARRANTY IN EFFECT.

Issue Date:	12-02-19
Drawn by:	MP
Checked by:	CR
Revisions:	