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IDEA EDINBURG COLLEGE PREPARATORY
CAFETERIA ADDITION
EDINBURG, TEXAS

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D R A W I N G I N D E X

CIVIL

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IDEA Public Schools

REGISTERED ARCHITECT
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23625
STATE OF TEXAS

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Date: December 2024
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Project Architect: Roan G Gomez, AIA
Drawn By: RN
Job No. IDEA EDINBURG CAFETERIA
Sheet: COVER

GENERAL CONSTRUCTION NOTES

1. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND ELECTRICAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM FIELD WORK AND EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE; HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES IN THE LOCATIONS, QUALITIES AND SIZES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE, SIZE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINES PRIOR TO EXCAVATION OPERATIONS.

2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.

3. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE STATE STATUES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AT 611 EAST 6TH STREET, ROOM 303, AUSTIN, TEXAS.

4. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.

5. EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.

6. CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE ENGINEER AND/OR THE CITY OF EDINBURG. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW THE TESTING PERSONAL ACCESS TO THE WORK AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM.

7. A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.

8. THE DRAWINGS DO NOT ALWAYS INDICATE ALL VERTICAL BENDS AND TRANSITIONS. WHEN NECESSARY, MAKE VERTICAL TRANSITIONS BY A DEFLECTION AT THE JOINTS OR THE INSTALLATION OF FITTINGS. DO NOT DEFLECT PIPE JOINTS MORE THAN 80% OF THE MANUFACTURER'S RECOMMENDATION.

9. ALL PIPING MUST BE INSTALLED WITH A MINIMUM OF 36-INCHES OF COVER UNLESS OTHERWISE NOTED ON THE PLANS.

10. ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.

11. ALL UTILITIES WHICH ARE TO REMAIN AND WHICH ARE DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

12. PIPE SHALL BE BACKFILLED WITH JOINTS EXPOSED FOR TESTING, BEFORE NEW JOINTS ARE COVERED. PRESSURE LINES ARE TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 150 PSIG FOR A PERIOD OF TWO HOURS. THE OWNER SHALL OBSERVE AND APPROVE OR REJECT THE TEST. REPAIRS, IF REQUIRED, SHALL BE MADE AND THE LINE SHALL BE RETESTED UNTIL APPROVED. TEST SHALL NOT BEGIN UNTIL THRUST BLOCKS HAVE AGED A MINIMUM OF 24 HOURS.

13. AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY THE PERMANENT STRUCTURE SHALL BE BACKFILLED.

14. WHERE WATER LINE INTERSECTS SANITARY SEWER SYSTEM MAINS AT LESS THAN 9.0 FEET SEPARATION, THE CONTRACTOR SHALL INSTALL A 20 FOOT SECTION OF C-900 PVC PRESSURE PIPE CENTERED ON THE POINT OF INTERSECTION.

15. CONTRACTOR SHALL REMOVE AND REINSTALL ALL SIGNS, MAILBOXES, FENCES, CULVERTS AND OTHER ITEMS IN WAY OF THE WORK.

16. CONTRACTOR SHALL REPAIR ALL OPEN CUTS OF PAVED AREAS BACK TO BETTER THAN "AS-IS" CONDITION WITH LIKE MATERIALS.

17. PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.

18. ANCHOR ALL UNDERGROUND PRESSURE PIPING AS NECESSARY TO PREVENT MOVEMENT UNDER PRESSURE TEST AND SERVICES.

19. ALL REINFORCING STEEL, SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60 ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.

20. ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.

21. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.

22. UNTIL ACCEPTANCE BY THE ENGINEER OF ANY OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, AND ACCEPTANCE BY THE PROPER UTILITY PROVIDER, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, OF ALL THE DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS ACCEPTANCE.

23. NO OPEN TRENCHES OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT.

24. ALL WATERLINE TAPS AND WATER METERS SHALL BE INSTALLED BY CONTRACTOR. COORDINATE WITH THE CITY OF EDINBURG BEFORE COMMENCING ANY UTILITY WORK.

25. COORDINATE ALL UTILITY WORK WITH THE PLUMBING PLANS BEFORE COMMENCING ANY UTILITY WORK. REFER TO PLUMBING PLANS FOR CONTINUATION.

26. COORDINATE WITH GRADING PLANS FOR WATER LINE, STORM AND SANITARY SEWER LINES INSTALLATION.

27. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INCLUDING THOSE FROM THE CITY OF EDINBURG, PRIOR TO START OF CONSTRUCTION.

28. THE TOP ELEVATIONS OF MANHOLES AND CLEANOUTS CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED PAVEMENT GRADE. THE TOP ELEVATIONS OF MANHOLES AND CLEANOUTS CONSTRUCTED IN GRASSED AREAS SHALL BE SIX INCHES ABOVE FINISHED GRADE (UNLESS OTHERWISE NOTED ON PLANS).

29. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING TO VERIFY EXISTING CONDITIONS.

30. REFER TO GEOTECH REPORT BEFORE INSTALLATION OF DRIVES AND PARKING AREAS.

31. BOTH SITE AND BUILDING CONTRACTORS TO VERIFY EXISTING SITE ELEVATIONS PRIOR TO POURING CONCRETE TO VERIFY ACCESSIBILITY.

32. PERMIT NEEDED FROM CITY OF EDINBURG BUILDING DEPARTMENT AND PRE-CONSTRUCTION CONFERENCE NEEDED WITH CITY OF EDINBURG.

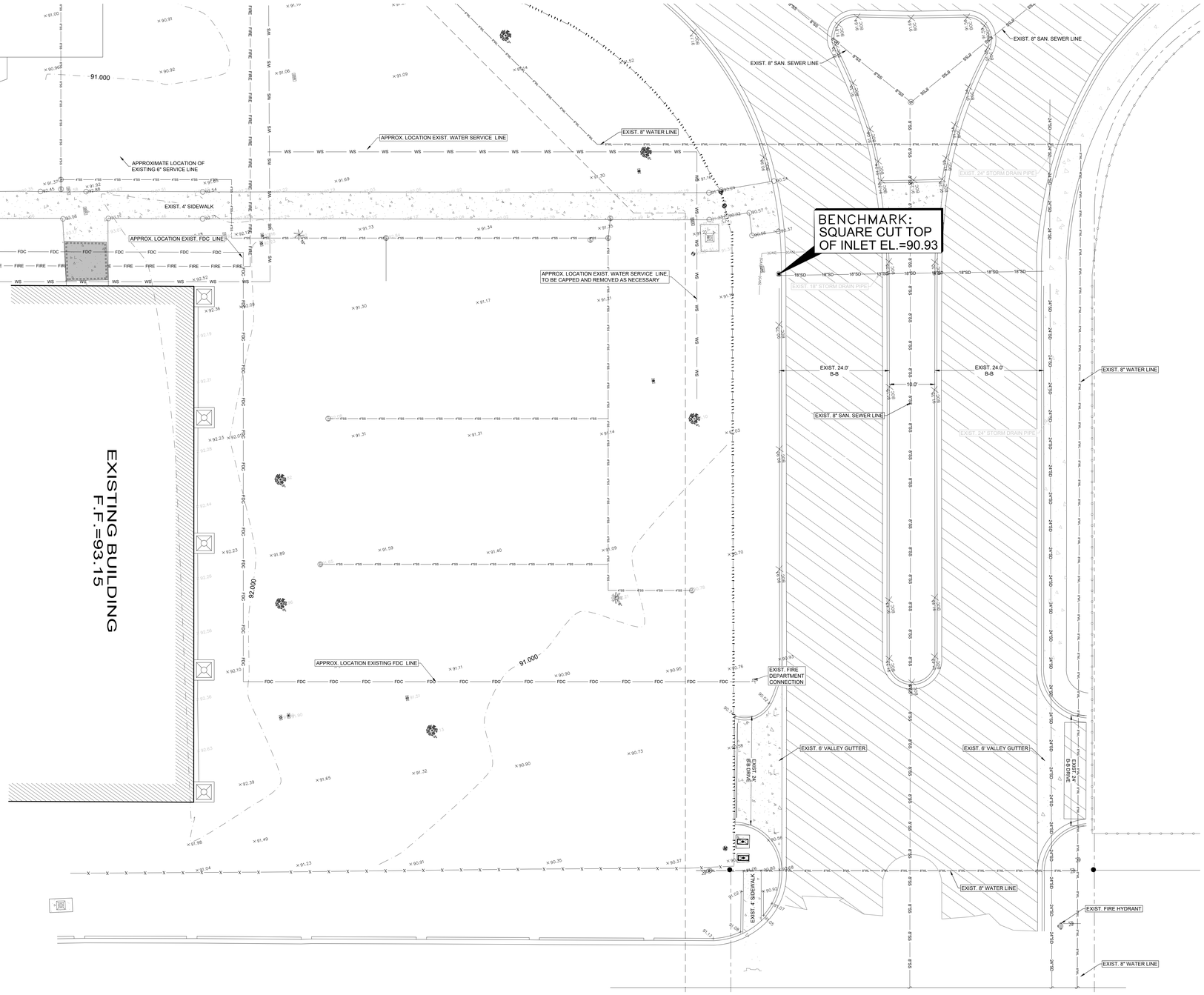
33. CONTRACTOR TO LEAVE OPENINGS IN CURB AT SIDEWALK RAMP LOCATIONS.

34. CONSULT WITH PROPERTY OWNER BEFORE RELOCATING EXISTING FENCES THAT MIGHT BE IN THE WAY OF THE CONSTRUCTION AREA AND/OR CONSTRUCTION PLANS.

LEGEND

- FOUND No.4 REBAR
- [GAS] [GAS] SPOTTED GAS LINE [APPROXIMATE LOCATION]
- EXIST. ASPHALT AREA
- CONCRETE AREA
- R.O.W. - RIGHT OF WAY
- WILD OLIVE TREE (SIZE AS NOTED)
- PALM TREE (SIZE AS NOTED)
- OAK TREE (SIZE AS NOTED)
- FIRE DEPARTMENT CONNECTION
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE
- IRRIGATION BOX
- CLEANOUT
- 2" PVC PIPE
- KEYPAD
- SOLAR PANEL
- LIGHT POLE
- TRANSFORMER
- GAS MARKER

SCALE: 1" = 10'



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EXISTING CONDITIONS

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Date: September 2024
Scale: As Noted
Project Engineer: Kelley Heler-Vela
Drawn By: CP
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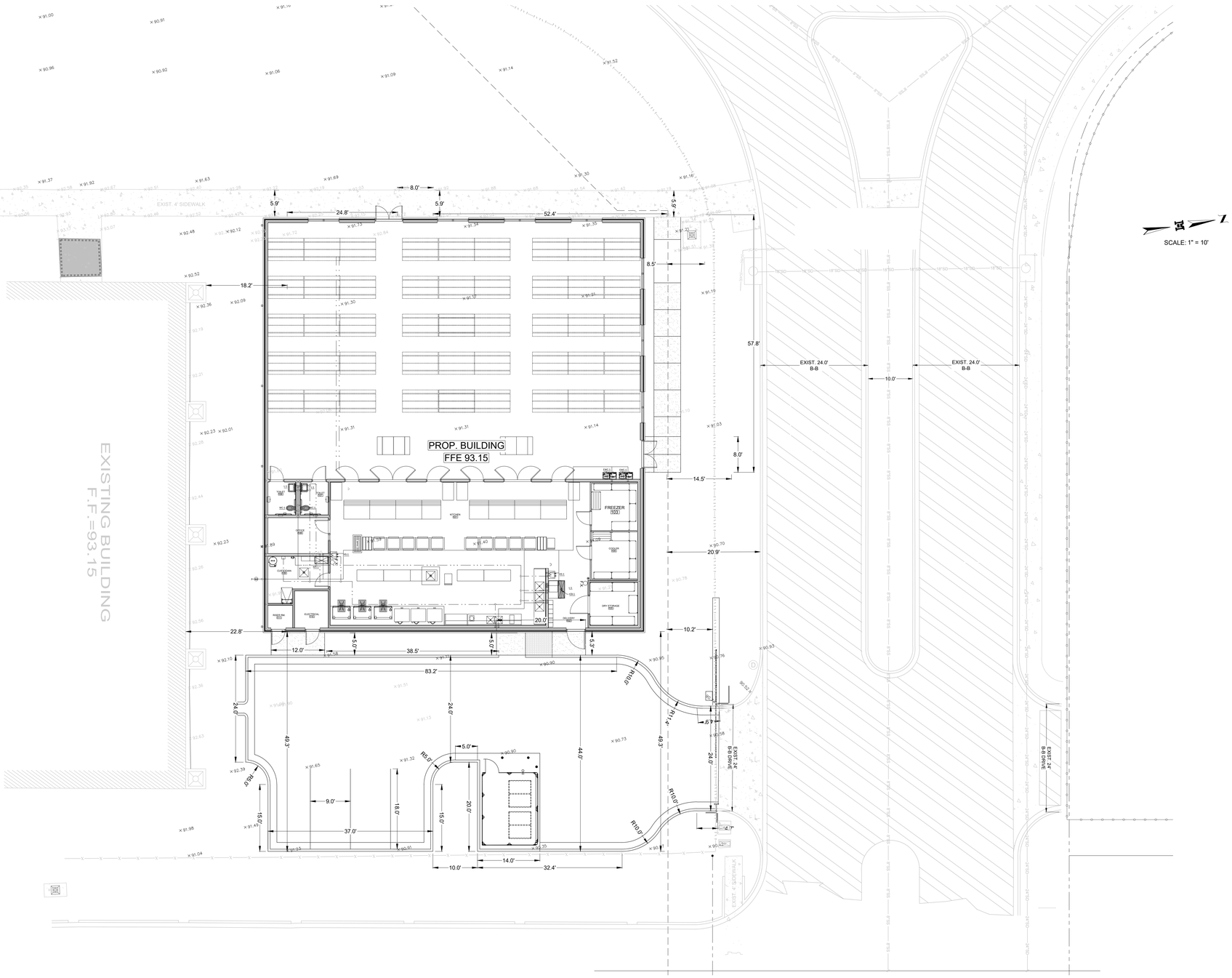

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SITE PLAN

100% SET

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Date:	September 2024
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Project Engineer:	Kelley Heler-Vela
Drawn By:	CP
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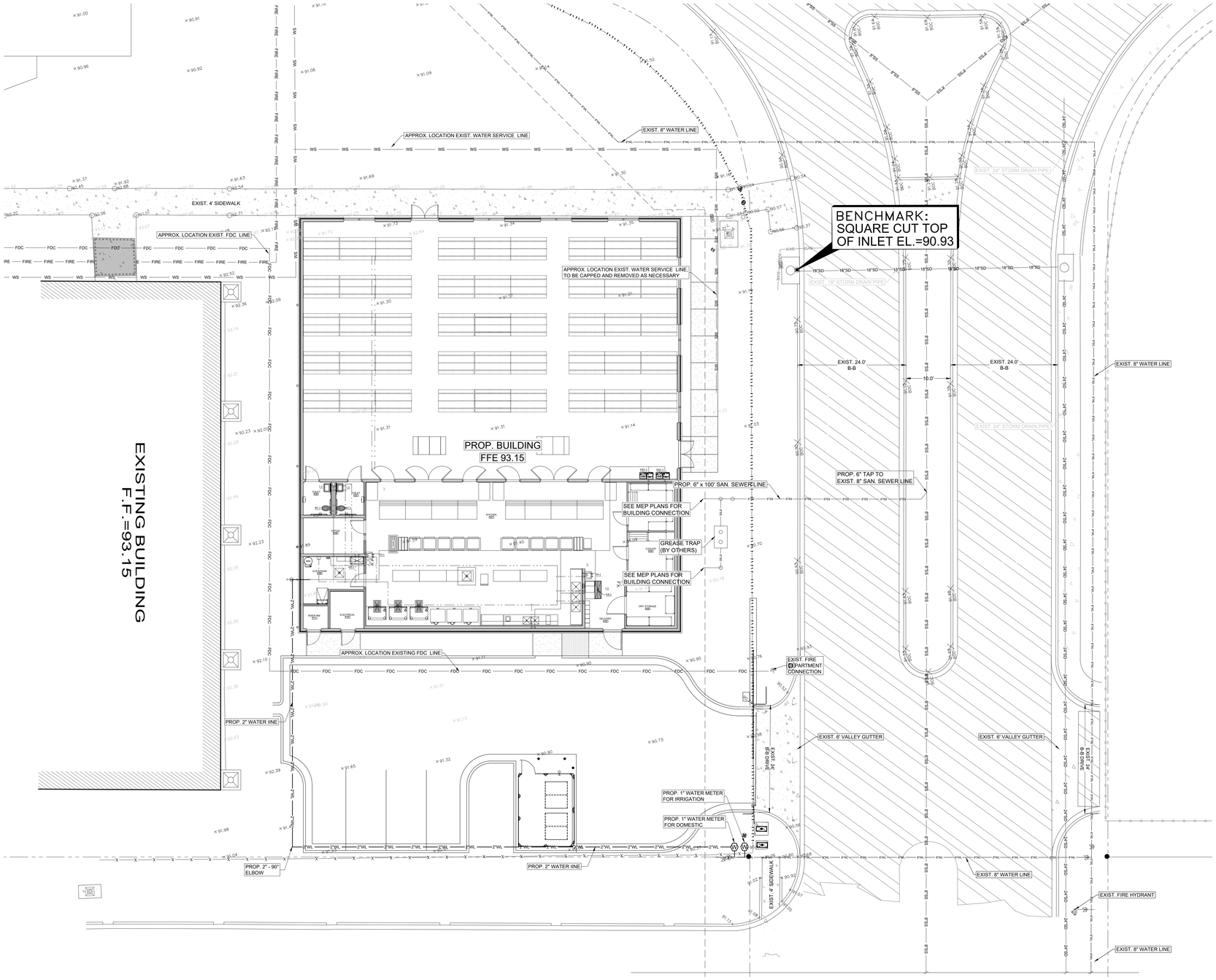

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UTILITY LAYOUT

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SCALE: 1" = 10'

EXIST. 4' SIDEWALK

EXIST. 8" WATER LINE

MATCH EXIST TW: 91.23

MATCH EXIST TW: 91.25

TW: 91.35

TW: 91.25

TW: 92.16

TW: 92.06

RAMP

EXIST. TYPE A TOP=90.87 24" N. FL=86.50

EXIST. TYPE A INLET TOP=90.93 18" S. FL=86.18 24" E. FL=85.77 24" W. FL=85.62 FL=85.82

EXIST. 18" STORM DRAIN PIPE

EXIST. 24" STORM DRAIN PIPE

PROP. CONNECTION AT 86.50 FLOW LINE

TC: 92.57

TC: 92.57

EXIST. 24.0' B-B

10.0'

EXIST. 24.0' B-B

EXIST. 8" WATER LINE

FL: 92.75

FL: 92.50

FL: 92.25

FL: 92.00

PROP. DRAINAGE SWALE

EXIST. EXISTING BUILDING F.F.=93.15

PROP. BUILDING FFE 93.15

TC: 93.10

TC: 93.05

FF: 93.15

TC: 93.05

PROP. 24" x 88 L.F. STORM SEWER LINE AT 0.174% SLOPE

FREEZER 103

FF: 93.15

FF: 93.15

TC: 93.05

TC: 93.08

TC: 93.10

TC: 92.59

TC: 93.05

PROP. TYP "C-C" INLET TOP: 92.00 FL: 86.98

TC: 92.55

TC: 92.55

PROP. 18" x 118 L.F. STORM SEWER LINE AT 0.28% SLOPE

TC: 91.89

PROP. TYP "C-C" INLET TOP: 91.10 FL: 86.65

TC: 91.05

MATCH EXIST TC: 90.70

EXIST. 6' VALLEY GUTTER

EXIST. 6' VALLEY GUTTER

EXIST. 3'-0" 6 @ 1.5% EXIST. 3'-0" 6 @ 1.5% EXIST.

TC: 92.69

TC: 92.80

TC: 93.00

TC: 92.92

PROP. 18" x 50 L.F. STORM SEWER LINE AT 0.28% SLOPE

TC: 92.87

PROP. TYP "C-C" INLET TOP: 90.00 FL: 86.79

MATCH EXIST TC: 90.66

TC: 92.95

TC: 92.00

TC: 93.02

TC: 91.20

TC: 90.54

TC: 90.60

EXIST. 4' SIDEWALK

EXIST. 8" WATER LINE

EXIST. FIRE HYDRANT

EXIST. 8" WATER LINE

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GRADING & DRAINAGE PLAN

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Date:	September 2024
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Project Engineer:	Kelley Heler-Vela
Drawn By:	CP
Job No:	IDEA EDINBURG CAFETERIA
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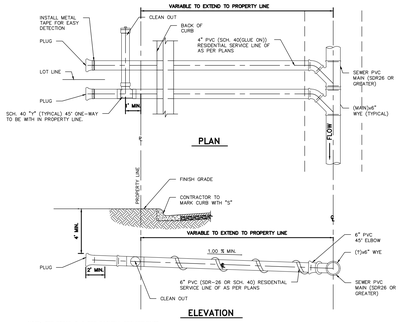
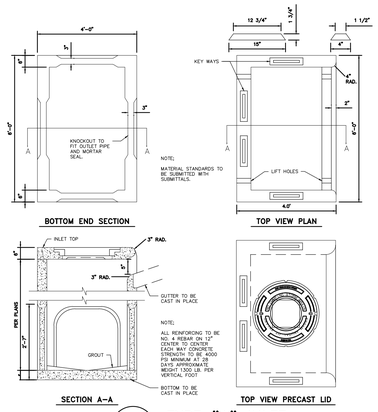


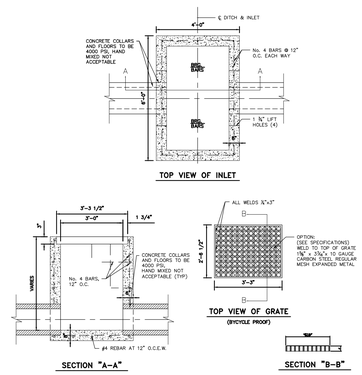
NOTE: SEE DETAIL S-5 FOR BACKFILL REQUIREMENTS.

S-2 MULTIFAMILY AND COMMERCIAL SANITARY SEWER SERVICE

(MULTIFAMILY UP TO TRIPLEX)

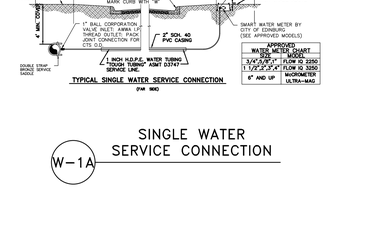


D-1 TYPE "A" INLET



D-3 TYPE "C-C" GRATED INLET

(TWO GRATES PER INLET)



STANDARD PIPE BEDDING
(MAIN & SERVICE LATERALS)

UNDER EXISTING/ACTIVE STREET CROSSINGS.

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

B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).

C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (8" LIFTS, MECH. TAMPED).

D. FILL TRENCH W/SELECT BACKFILL, W/12" LIFTS COMPACT TO 95% STD. PROCTOR.

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

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

D-8 UTILITY CROSSING AT EXISTING / ACTIVE STREET

(WATER/SAN. SEWER)

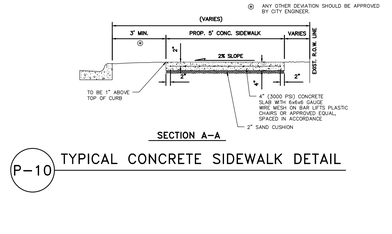
1. ¾" x 2" DOUBLE STRAP BRASS SADDLE
2. 2" BALL CORP. MIPX C.T.S.
3. 2" COPPER TUBING TYPE "K"
4. 2" BRASS ANGLE STOP
5. WATER METER NY CITY OF EDINBURG
6. LARGE C.I. METER BOX WILL BE PROVIDED BY CITY OF EDINBURG.
7. METER BOX TO BE 12" BACK OF PROPERTY LINE.
8. ALL NUTS AND BOLTS MUST BE GREASED WITH FOOD GRADE GREASE.

* ALL WATER METERS 4" AND ABOVE SHALL BE PLACED IN A CONCRETE METER VAULT APPROVED BY THE CITY OF EDINBURG.

W-3 WATER SERVICE

PIPE BOLLARD DETAIL

N.T.S.



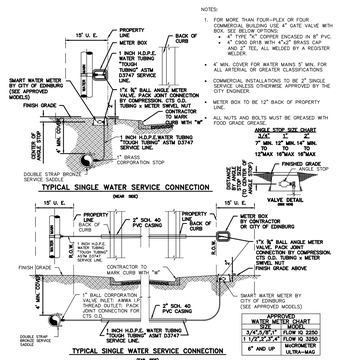
GENERAL NOTES:

1. CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAY
2. ALL CONCRETE WORK SHALL BE TROWELED WITH HOMOGENOUS COMPOUND WITH LIQUID PIGMENTED ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION, DEPARTMENTAL MATERIALS SPECIFICATIONS ITEM 4650. CONSIDERED INCIDENTAL TO CONCRETE WORK.
3. ½"EXPANSION JOINTS REQUIRED AT 40' C.O. AND AT THE BEGINNING AND END OF ALL RADII. CONTRACTION JOINTS SHALL NOT EXCEED 10' C.C.
4. EXPANSION JOINTS SHALL HAVE ½" EXPANSION JOINT MATERIAL AND 3 No.4 24" SMOOTH DOWEL BARS COATED TO PREVENT BOND.

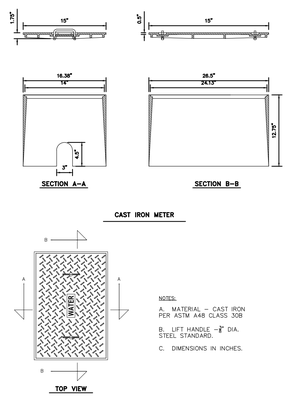
CURB AND GUTTER DETAIL

NOT TO SCALE

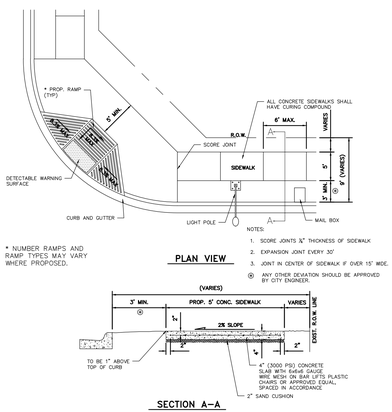
P-8 TYPICAL JOINTS



W-1A SINGLE WATER SERVICE CONNECTION



W-11 COMMERCIAL CAST IRON METER COVER



P-10 TYPICAL CONCRETE SIDEWALK DETAIL

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
115 W. McINTYRE - EDINBURG, TX. 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com
TBPELS FIRM # 1435

GMS ARCHITECTS
1150 Paredes Line Rd.
Brownsville TX 78526
(956) 546-0110
fax (956) 546-0196

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
KELLEY A. HELLER-VELA
97421
LICENSED PROFESSIONAL ENGINEER

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9/30/2024

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No.	REVISIONS	BY

IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

DETAILS

100% SET

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Architects-Planners

Date: September 2024
Scale: As Noted
Project Engineer: Kelley Heler-Vela
Drawn By: CP
Job No: IDEA EDINBURG CAFETERIA
Sheet: C5

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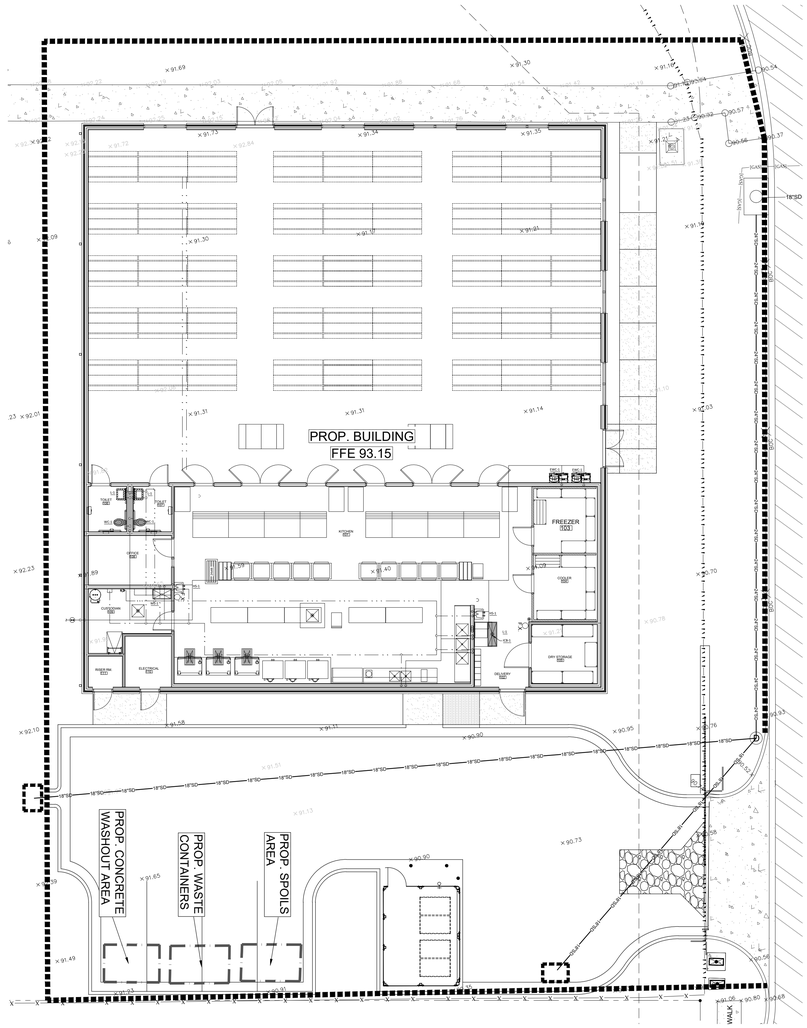
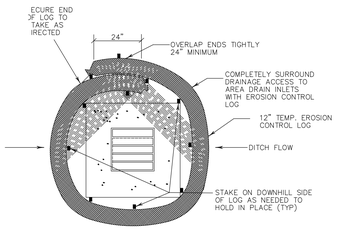


SCALE: 1" = 10'

LEGEND

- TEMPORARY SEDIMENT CONTROL FENCE
- SOCK FOR INLET
- CONSTRUCTION ENTRANCE



DROP INLET SEDIMENT TRAP

NTS

DI-ST

PLANS SHEET LEGEND

DI-ST — DROP INLET SEDIMENT TRAP

CI-ST — CURB INLET SEDIMENT TRAP

SEDIMENT BASIN & TRAP USAGE GUIDELINES

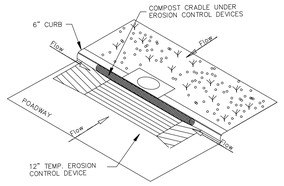
A sediment trap may be used to precipitate sediment out of runoff draining from an unstabilized area.

Traps: the drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Sediment traps should be placed in the following locations:

1. Immediately preceding drain inlets
2. Just before the drainage enters a water course
3. Just before the drainage leaves the right of way
4. Just before the drainage leaves the construction limits where drainage flows away from the project

The trap should be cleaned when the capacity has been reduced by 1/2 or the sediment has accumulated to a depth of 1', whichever is less.
Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for seperately.



CURB INLET SEDIMENT TRAP

NTS

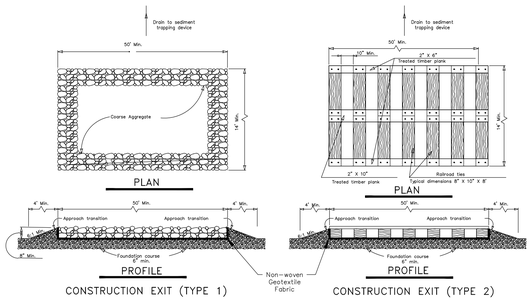
CI-ST

GENERAL NOTES

1. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 30' FOR 12" DIAMETER LOGS.
2. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
3. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
4. STAKES SHALL BE 2" X 2" WOOD 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG.
5. COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.

TEMPORARY EROSION CONTROL LOGS – 2

STW-4



CONSTRUCTION EXIT (TYPE 1)

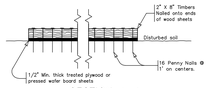
GENERAL NOTES

1. THE LENGTH OF TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 2)

GENERAL NOTES

1. THE LENGTH OF TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50.
2. THE TREATED TIMBER PLANS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1/2 x 6" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
3. THE TREATED TIMBER PLANS SHALL BE #2 GRADE MIN. AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
6. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

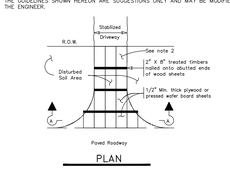


SECTION A–A

CONSTRUCTION EXIT (TYPE 3)

GENERAL NOTES

1. THE LENGTH OF TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. THE TYPE 3 CONSTRUCTION ACCESS/EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2" TO 4" SPREAD AND A MIN. OF 4" THICK TO THE LIMITS SHOWN ON THE PLANS.
3. THE TREATED TIMBER PLANS SHALL BE #2 GRADE MIN. AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



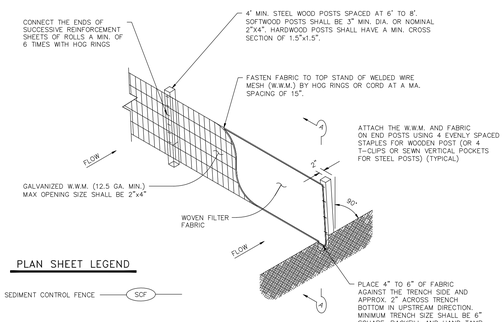
PLAN

FILTER FABRIC: NON-WOVEN GEOTEXTILE FABRIC

FABRIC WEIGHT	OZ/SY	6 MIN.
PERMITIVITY	1/SEC	0.5 MIN.
TENSILE STRENGTH	LBS	200 MIN.
APPARENT OPENING SIZE	SIEVE NO.	80–120
ELONGATION AT YIELD	%	20–100
TRAPEZOIDAL TEAR	LBS	75 MIN.

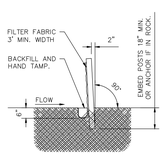
TEMPORARY EROSION CONTROL CONSTRUCTION ACCESS / EXIT

STW-5



PLAN SHEET LEGEND

SEDIMENT CONTROL FENCE — SCF



SECTION A–A

GENERAL NOTES

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

SEDIMENT CONTROL FENCE USAGE GUIDELINES

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

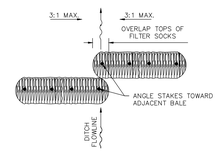
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT••• SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

TEMPORARY SEDIMENT CONTROL FENCE – DETAILS

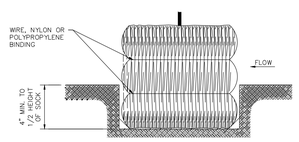
STW-2

NOTES:

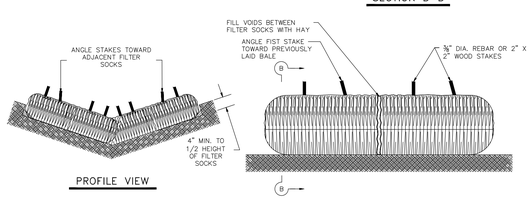
1. FILTER SOCKS SHALL BE A MINIMUM OF 8" DIAMETER.
2. FILTER SHALL BE BOUND BY EITHER WIRE NYLO OR POLYPROPYLENE STRING. THE FILTER SOCKS SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
3. FILTER SOCKS SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND WHERE POSSIBLE 1/2 THE HEIGHT OF THE HAY SOCK.
4. FILTER SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT SOCKS. THE SOCKS SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
5. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2" X 2" WOOD STAKES, DRIVEN THROUGH THE FILTER SOCKS. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID SOCK TO FORCE THE HAY SOCKS TOGETHER.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTION ONLY AND MAY BE MODIFIED BY THE ENGINEER.
7. NO HAY BALES ARE ALLOWED.



PLAN VIEW



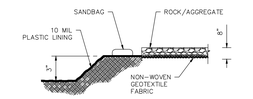
SECTION B–B



PROFILE VIEW

EROSION CONTROL DETAIL

STW-1

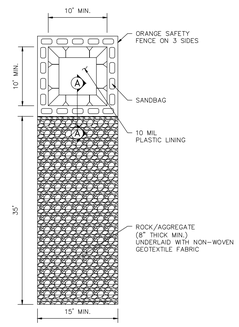


SECTION A–A

CONCRETE TRUCK WASHOUT AREA

CTW

SYMBOL



PLAN

NOTES:

1. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
2. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
3. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
4. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.
5. FILTER FABRIC: NON-WOVEN GEOTEXTILE FABRIC

FABRIC WEIGHT	OZ/SY	6 MIN.
PERMITIVITY	1/SEC	0.5 MIN.
TENSILE STRENGTH	LBS	200 MIN.
APPARENT OPENING SIZE	SIEVE NO.	80–120
ELONGATION AT YIELD	%	20–100
TRAPEZOIDAL TEAR	LBS	75 MIN.

CONCRETE TRUCK WASH AREA

STW-8

100% SET

MELDEN & HUNT INC
CONSULTANTS • ENGINEERS • SURVEYORS
115 W. McINTYRE - EDINBURG, TX. 78541
PHONE: (956) 381-0981 FAX: (956) 381-1839
ESTABLISHED 1947 • www.meldenandhunt.com
TBPELS FIRM # F-1435

GMS ARCHITECTS
1150 Paredes Line Rd.
Brownsville TX 78526
(956) 546-0110
fax (956) 546-0196

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
KELLEY A. HELLER-VELA
97421
LICENSED PROFESSIONAL ENGINEER

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No.	REVISIONS	BY

IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

EROSION CONTROL

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Gomez Mendez Saenz Inc.
Architects-Planners

Date:	September 2024
Scale:	As Noted
Project Engineer:	Kelley Heler-Vela
Drawn By:	CP
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	C6

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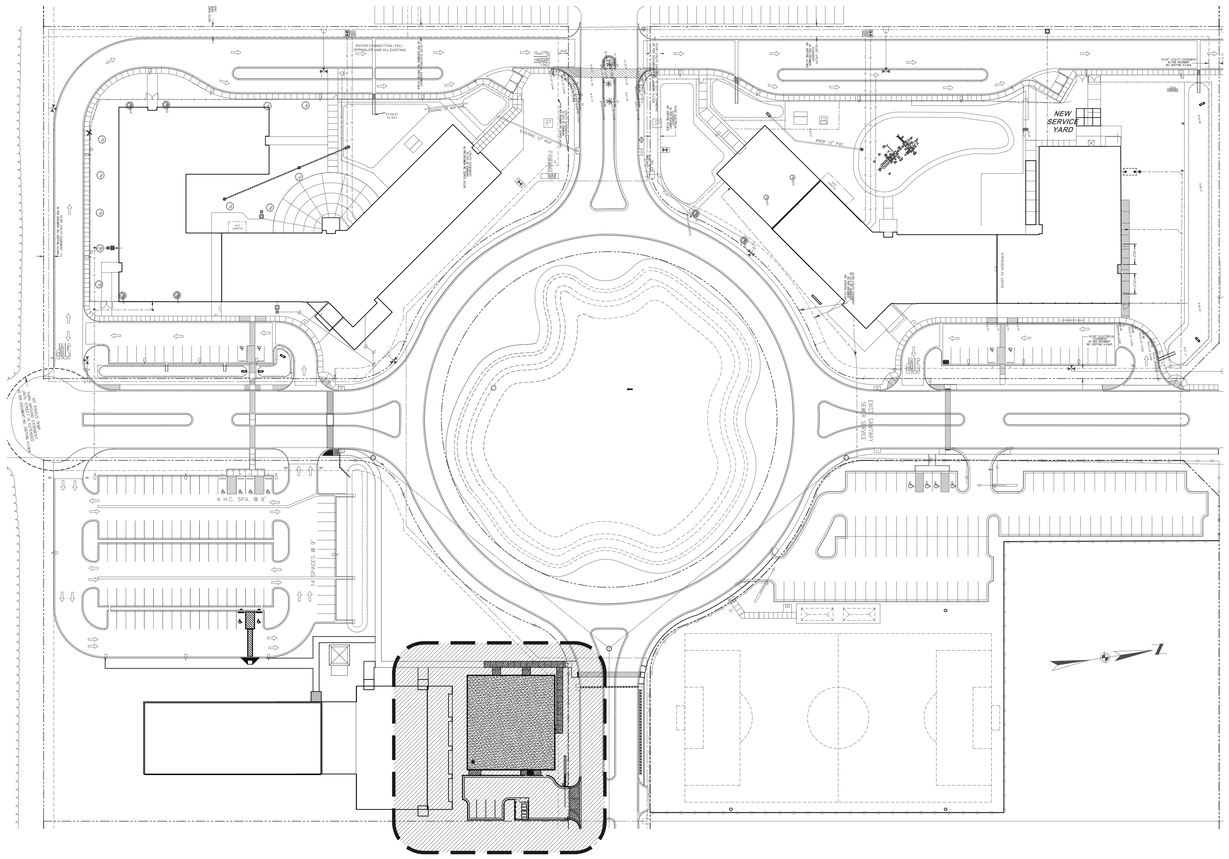
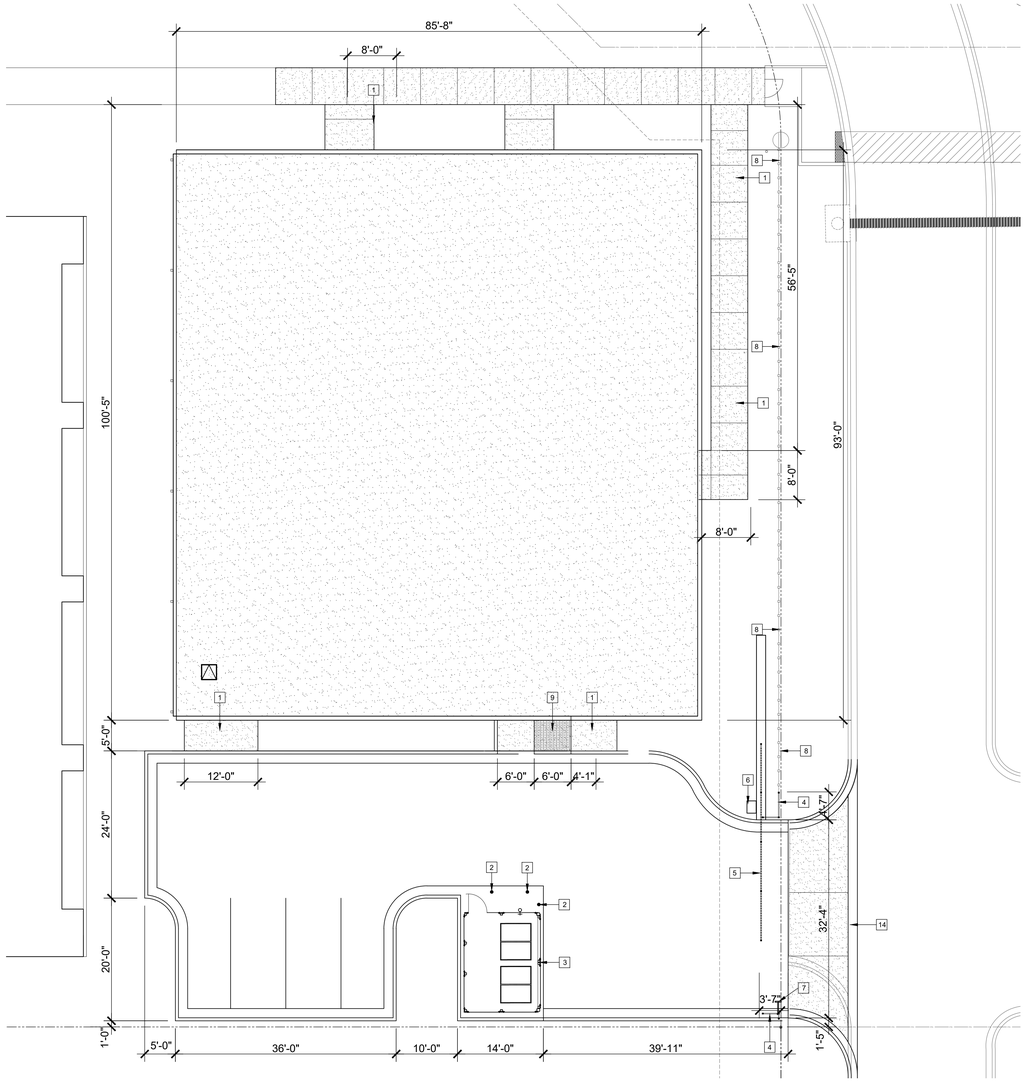
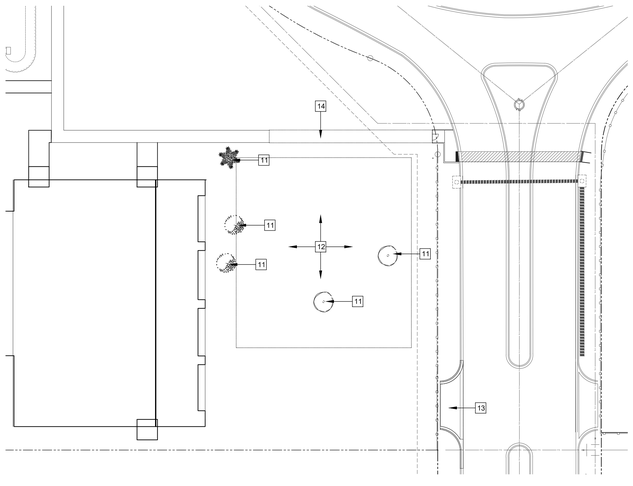
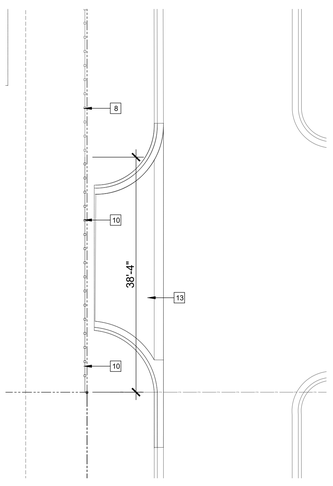




N 01 SITEPLAN W/ IMPROVEMENTS
SCALE: 1" = 10'-0"



N 03 SITEPLAN DEMOLITON
SCALE: 1" = 10'-0"



N 02 SITEPLAN DEMOLITON
SCALE: 1" = 10'-0"

SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK. REFER TO 01, 02 & 04/A1.02
2. 6" DIA PIPE BOLLARD. REFER TO ??/A1.02
3. DUMPSTER ENCLOSURE. REFER TO ??/A1.02
4. 7'-0" ALUMINUM PICKET FENCING. REFER TO ??/A1.02
5. 7'-0" x 32'-0" ALUMINUM PICKET ROLLING GATE. REFER TO 09/A1.02
6. MOTORIZED GATE OPERATOR AS SPECIFIED.
7. PEDESTAL MOUNTED KEYPAD /CARD READER
8. EXISTING PICKET FENCING TO REMAIN
9. ACCESSIBLE CURB RAMPS WITH DETECTABLE WARNING STRIPS. REFER TO 08/A1.02
10. REMOVE EXISTING ALUMINUM FENCING AS REQUIRED FOR INSTALLATION OF ROLLING GATE AND ACCESSORIES
11. EXISTING TREES TO BE REMOVED AND RELOCATED
12. EXISTING IRRIGATION SYSTEM TO BE MODIFIED. REFER TO SHEET A1.03 FOR EXISTING IRRIGATION LAYOUT.
13. EXISTING CONCRETE DRIVEWAY TO BE REMOVED.
14. EXISTING CONCRETE SIDEWLAK TO BE REMOVED.
15. CONCRETE APRON

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IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT ROMY GABRIEL MENDEZ 23625 STATE OF TEXAS

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Date: December 2024
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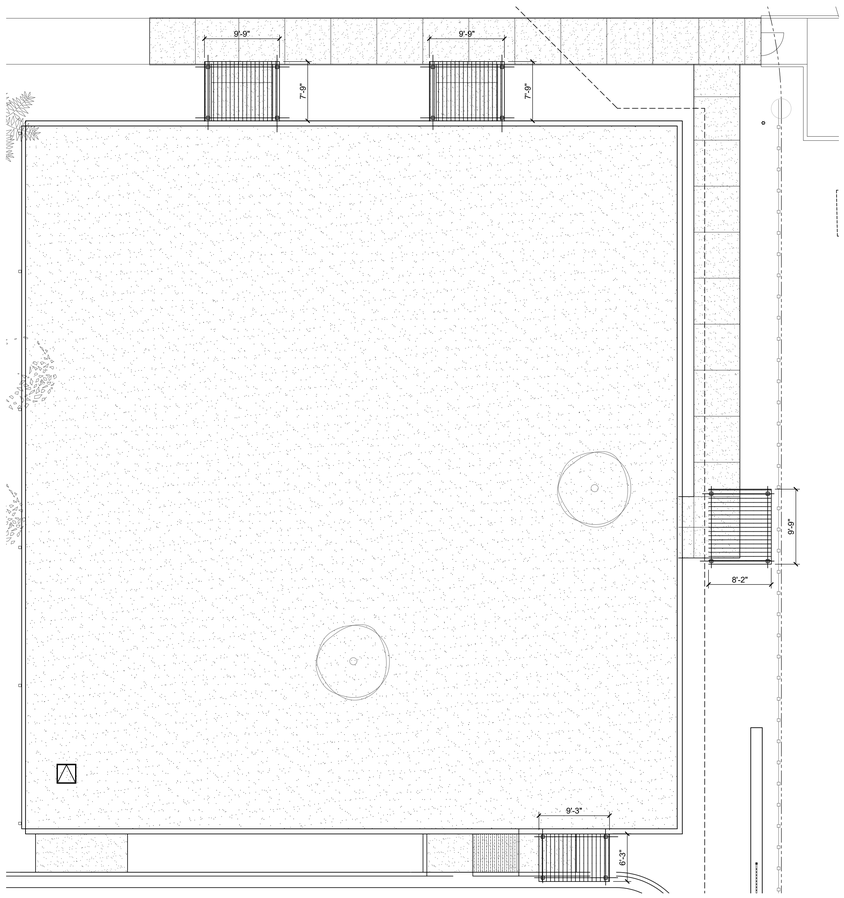
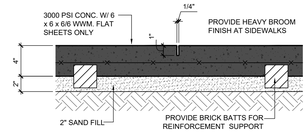
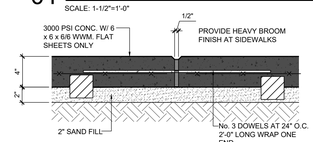
Project Architect: Roan G Gomez, AIA
Drawn By: RN
Job No. IDEA EDINBURG CAFETERIA
Sheet: A1.01



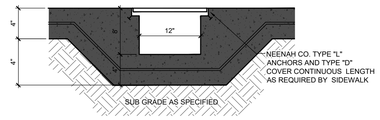
01 CANOPY PLAN
SCALE: 1/8" = 1'-0"



01 SIDEWALK CONTROL JT.
SCALE: 1-1/2"=1'-0"



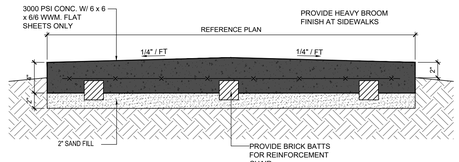
02 SIDEWALK EXP. JT. DETAIL
SCALE: 1-1/2"=1'-0"



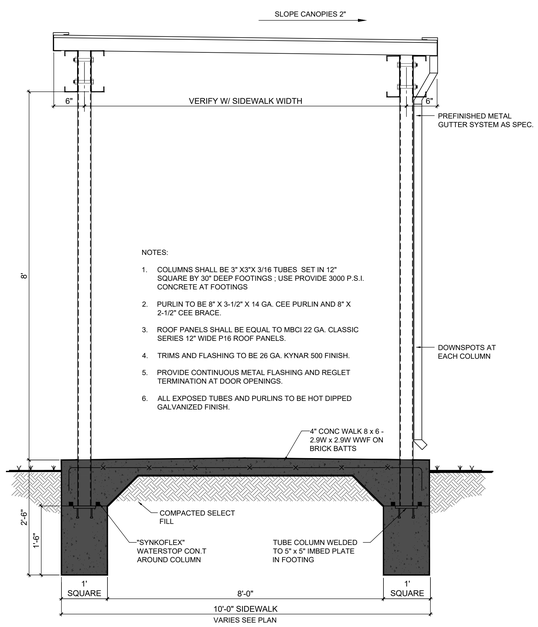
03 TRENCH DETAIL
SCALE 1 1/2" = 1'-0"

1.) CONTRACTOR TO VERIFY ALL BUILDING ROOF DRAINS & DOWN SPOUTS THAT WILL SPILL ONTO A SIDEWALK AND PROVIDE A TRENCH GUTTER AT THAT LOCATION TO ALLOW FOR RAIN WATER TO DRAIN THRU GUTTER AND NOT OVER SIDEWALK (WHICH COULD CAUSE A TRIPPING HAZARD). CONTRACTOR TO VERIFY TRENCH GUTTERS NEEDED PRIOR TO ANY POURING OF SIDEWALKS AROUND PERIMETER OF BUILDING. TYPICAL AT ALL BUILDINGS.

2.) REFER TO CIVIL DRAWINGS FOR ALL OTHER LOCATIONS OF TRENCH GUTTERS



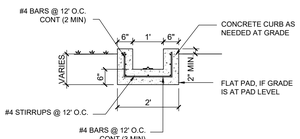
04 SIDEWALK DETAIL
SCALE: 1-1/2" = 1'-0"



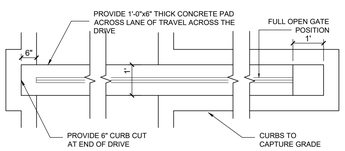
NOTES:

1. COLUMNS SHALL BE 3" X3"X 3/16 TUBES SET IN 12" SQUARE BY 30" DEEP FOOTINGS ; USE PROVIDE 3000 P.S.I. CONCRETE AT FOOTINGS
2. PURLIN TO BE 8" X 3-1/2" X 14 GA. CEE PURLIN AND 8" X 2-1/2" CEE BRACE.
3. ROOF PANELS SHALL BE EQUAL TO MBCI 22 GA. CLASSIC SERIES 12" WIDE P16 ROOF PANELS.
4. TRIMS AND FLASHING TO BE 26 GA. KYNAR 500 FINISH.
5. PROVIDE CONTINUOUS METAL FLASHING AND REGLET TERMINATION AT DOOR OPENINGS.
6. ALL EXPOSED TUBES AND PURLINS TO BE HOT DIPPED GALVANIZED FINISH.

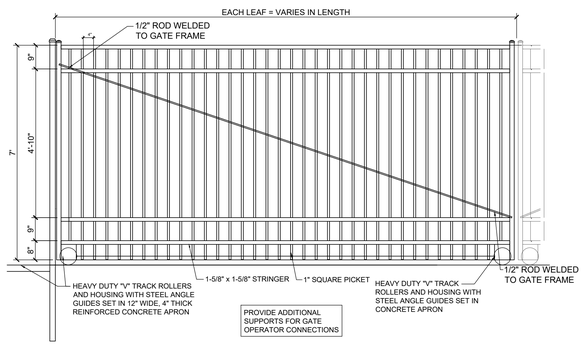
07 SECTION DETAIL
SCALE 3/4" = 1'-0"



10 ROLLING GATE SECTION
SCALE: 1/2"=1'-0"



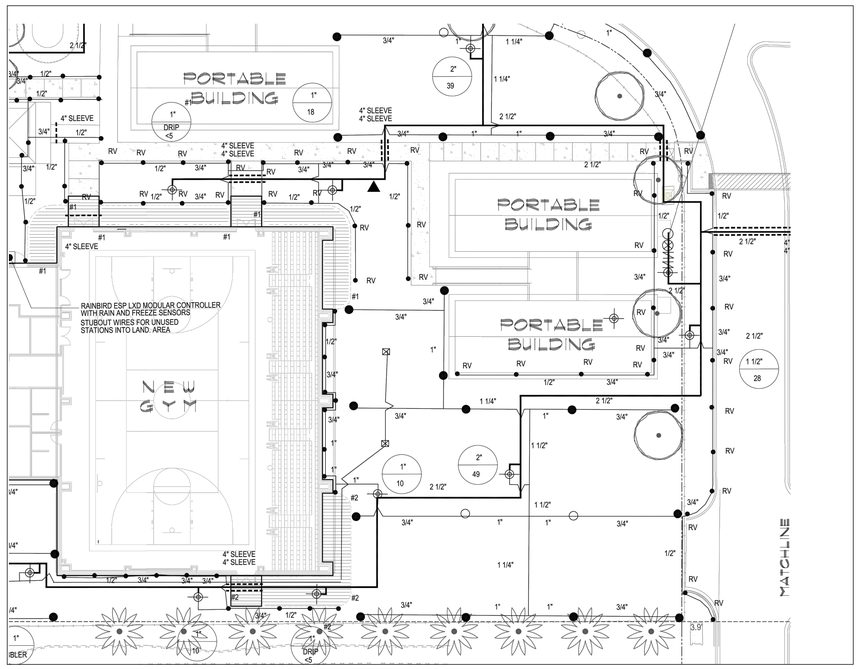
11 ROLLING GATE PAD
SCALE: 1/2"=1'-0"



09 SLIDING GATE ELEVATION
SCALE: NTS

NOTES;
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.



08 IRRIGATION PLAN
SCALE: 1" = 20'-0"

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Drawn By: RN
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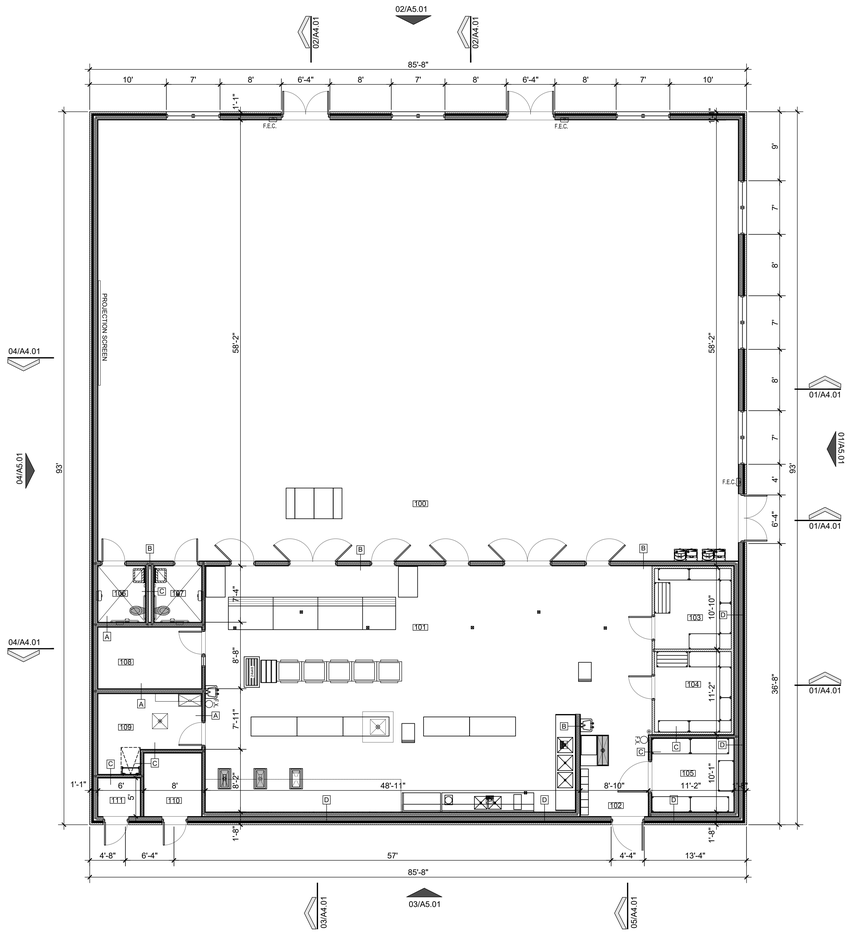


01 FLOOR PLAN

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

PLAN NORTH

GENERAL NOTES:

1. REFERENCE SERIES A4.02 FOR TYPICAL INTERIOR WALL SECTIONS NOTED ON THIS PLAN BY THE FOLLOWING DESIGNATION —X
2. PROVIDE DRYWALL CONTROL JOINTS AT ALL STRUCTURAL STEEL COLUMN CONDITIONS AND WALL OPENINGS, WHETHER NOTED OR NOT
3. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS
4. REFERENCE FIXTURE PLANS SHEET FOR FIXTURE, ACCESSORY REQUIREMENTS AND FLOOR TILE PATTERN LAYOUT
5. TYPICAL CORRIDOR WALLS TO BE EXTENDED TO UNDERSIDE OF DECK
6. REFERENCE SHEET A3.01 FOR TOILET ENLARGEMENTS
7. ALL EXPOSED DRYWALL CORNERS TO RECEIVE PLASTIC CORNER GUARDS, AS SPECIFIED.
8. ALL EXPOSED COLUMNS ARE TO BE FURRED WITH METAL STUDS AND DRYWALL. REFER TO SHEET A3.02 FOR DETAILS.
9. PROVIDE DOUBLE 6" METAL STUD PARTITION AT ALL STRUCTURAL BRACING LOCATIONS. REFER TO SHEET A3.02 FOR DETAILS AND STRUCTURAL FOR LOCATIONS.
10. REFERENCE A3.02 FOR TYPICAL PLAN DETAILS
11. PROVIDE MTL. STUD BLOCKING FOR ALL WALL MOUNTED BOARDS & ACCESSORIES.
12. PROVIDE WOOD BLOCKING AT ALL CABINETS, PROJECTOR & RAILING LOCATIONS.
13. ARCHITECTURAL OVERALL WALL DIMENSION IS FROM GYP.BD. TO FACE OF BRICK. STRUCTURAL OVERALL WALL DIMENSION IS FROM BACK OF METAL STUD TO BRICK LEDGE.

NOTE:
ALL GYPSUM BOARD TO BE **PAINTED** WHETHER NOTED OR NOT

ROOM FINISH SCHEDULE

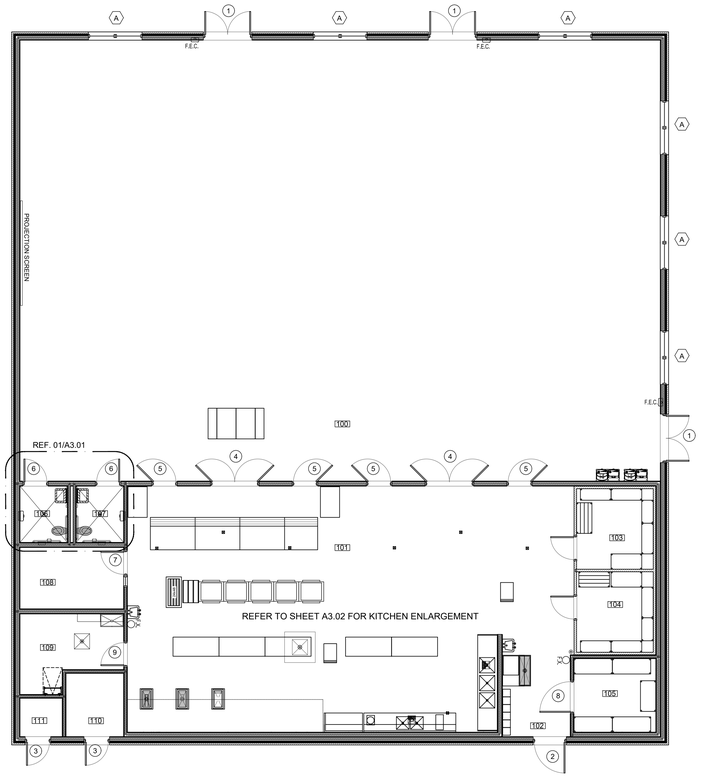
THIS SCHEDULE BASED ON PLAN NORTH ORIENTATION

ROOM	ROOM NAME	BASE	FLR.	WALLS N	WALLS S	WALLS E	WALLS W	CLG.	CLG. HEIGHTS	REMARKS
100	DINING	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	ACOUS	10'-0"	
101	KITCHEN	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	10'-0"	
102	DELIVERY	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-4"	
103	FREEZER	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	----	9'-4"	
104	COOLER	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	----	9'-4"	
105	DRY STORAGE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-4"	
106	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
107	TOILET	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
108	OFFICE	RUBBER	V.C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SAC I	9'-4"	
109	CUSTODIAN	C.T.	C.T.	GB/PTD	GB/PTD	GB/PTD	GB/PTD	SUS/GYP	9'-0"	6'-0" C.T. WAINSCOT
110	ELECTRICAL	RUBBER	CONC	GB/PTD	GB/PTD	GB/PTD	GB/PTD	ACOUS	9'-4"	
111	MECHANICAL	RUBBER	CONC	GB/PTD	GB/PTD	GB/PTD	GB/PTD	ACOUS	9'-4"	

LEGEND

FINISH LEGEND:

CONC.	SEALED CONCRETE	WD.	WOOD
C.T.	CERAMIC TILE	EXP/PTD	EXPOSED PAINTED
GB/PTD	GYPSUM BOARD PAINTED	SUS/GYP	SUSPENDED 1/2" MOISTURE RESISTANT GYP BOARD - PAINTED
PTD.	PAINTED	S.A.C.	SUSPENDED ACOUSTICAL CEILING REFERENCE SPECIFICATIONS FOR TYPES
RUBBER	RUBBER BASE		
V.C.T.	VINYL COMPOSITE TILE		



02 FIXTURE PLAN

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

PLAN NORTH

GENERAL NOTES:

1.) PROVIDE FOR TWO (2) FIRE EXTINGUISHERS AND CABINETS IN ADDITION TO THOSE SHOWN ON THIS PLAN - TO BE LOCATED AS PER ARCHITECT'S OFFICE.

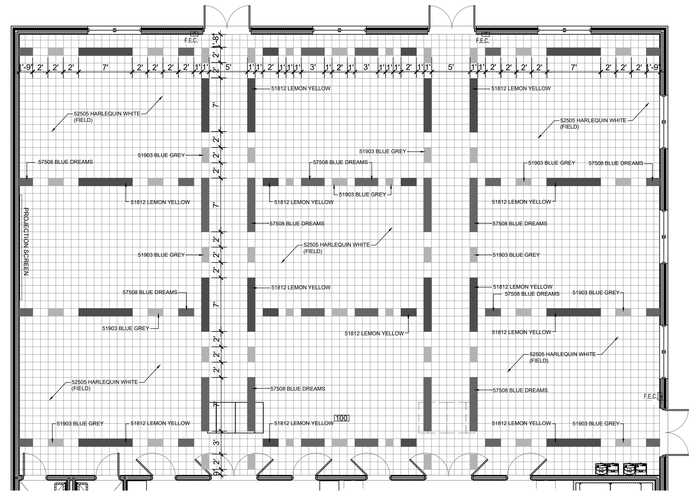
2.) GENERAL CONTRACTOR TO CONTACT ARCHITECTS OFFICE IF ANY FLOOR TILE DESIGN IS UNCLEAR REGARDING SIZE, COLOR, OR LOCATION

3.) PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS

4.) PROVIDE FOR UP TO THREE VCT COLORS IN CORRIDORS AND WAITING.

5.) ALLOW FOR ONE DRY ERASE WALL FINISH IN EACH OFFICE - LONG WALL.

6.) ALLOW FOR ONE ACCENT WALL IN OFFICES



03 PATTERN AND ACCENTS

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

PLAN NORTH

GENERAL NOTES:

1. REFERENCE ROOM FINISH SCHEDULES ON SHEET A2.01 FOR ROOM FINISH INFORMATION.
2. GENERAL CONTRACTOR TO CONTACT ARCHITECTS OFFICE IF ANY FLOOR TILE DESIGN IS UNCLEAR REGARDING SIZE, COLOR OR LOCATION.
3. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS.
4. PROVIDE FOR UP TO FOUR VCT COLORS IN CORRIDORS.
5. ALLOW FOR ONE ACCENT WALL IN EACH CLASSROOM, LAB AND OFFICES NOTED ON THIS PLAN BY THE FOLLOWING DESIGNATION

Y = DENOTES YELLOW ACCENT WALL SW 6381 ANJOU PEAR
B = DENOTES BLUE ACCENT WALL SW 6961 BLUE BEYOND

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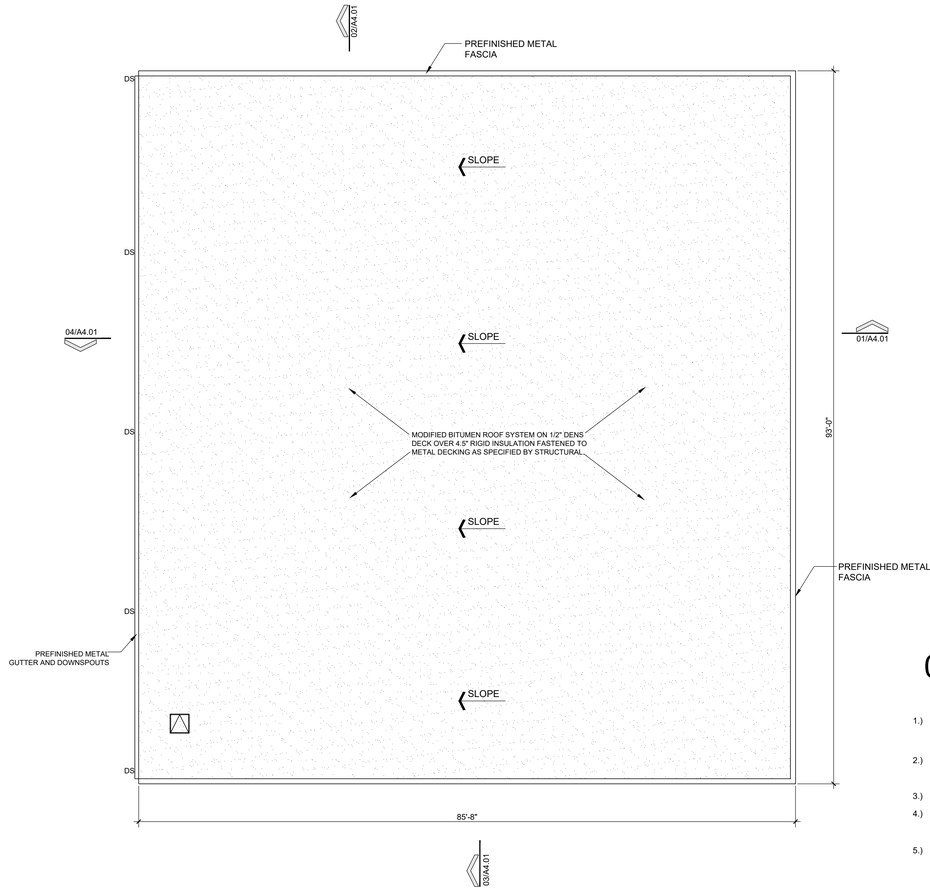
Drawn By: RN
Job No: IDEA EDINBURG CAFETERIA
Sheet: A2.01



01 ROOF PLAN

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

PLAN NORTH

GENERAL ROOF NOTES:

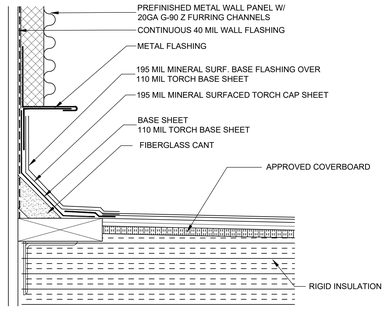
1.) ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH MECHANICAL / ELECTRICAL SUBCONTRACTOR AND THE ROOFING SUBCONTRACTOR

2.) PROVIDE PRE-MANUFACTURED CONCRETE SPLASH BLOCKS AT EACH ROOF DOWN SPOUT LOCATION AND OR AT EACH ROOF DRAIN NOZZLE OUTLET. SECURE SPLASH BLOCKS TO EITHER GROUND OR BUILDING

3.) REFER TO WALL SECTIONS (4.00 SERIES) FOR ADDITIONAL ROOF NOTES

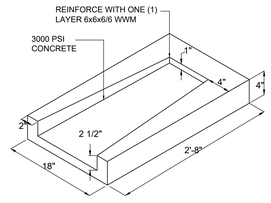
4.) COORDINATE ALL DOWN SPOUT LOCATIONS SO AS TO ASSURE THAT NO DOWN SPOUTS ARE LOCATED OVER DOOR / WINDOW OPENINGS OR OTHER KEY BUILDING ELEMENTS

5.) CONTRACTOR TO PROVIDE AND COORDINATE ALL PIPING & ACCESSORIES WITH MEP ENGINEERS PRIOR TO COMMENCING ANY ROOF DRAINAGE PIPING



04 FLASHING DETAIL

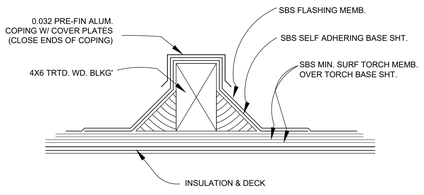
NOT TO SCALE



PROVIDE (1) ONE SPLASH BLOCK AT EACH DOWN SPOUT

03 SPLASH BLOCK DTL

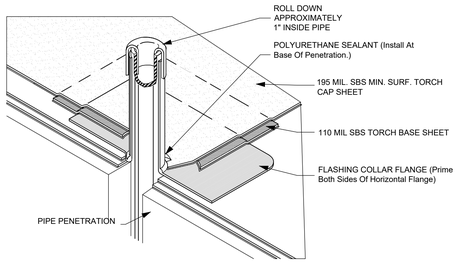
SCALE 1-1/2" = 1'-0"



TYPICAL EQUIPMENT SUPPORT CURB

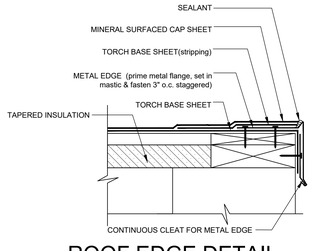
07 SUPPORT DETAIL

NOT TO SCALE



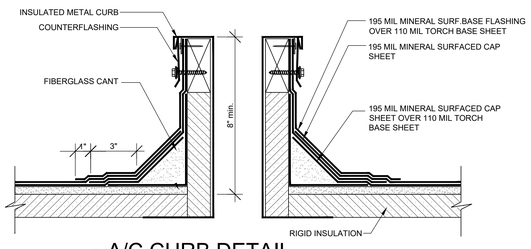
04 VENT THRU ROOF DETAIL

NOT TO SCALE



08 ROOF EDGE DETAIL

NOT TO SCALE



05 A/C CURB DETAIL

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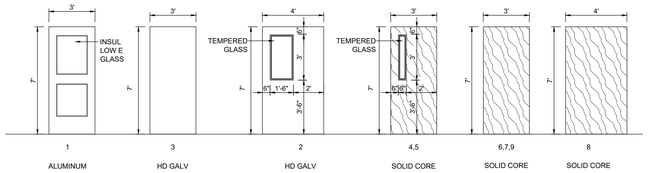
Date: December 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: RN
Job No. IDEA EDINBURG CAFETERIA
Sheet: A2.02

DOOR SCHEDULE

DOOR NO.	DOOR MATL.	DOOR W	DOOR H	DOOR T	FRAME MATL.	FRAME W	FRAME H	FRAME T	HDWR	DETAIL JAMB	DETAIL HEAD	DETAIL SILL	REMARKS
1	ALUM.	PR - 3'-0"	7'-0"	1 3/4"	ALUM.	6'-4"	7'-2"	VERIFY		2/A3.01	3/A3.01	01/A3.01	IMPACT RESISTANT GLASS
2	HM	4'-0"	7'-0"	1 3/4"	H.M.	4'-4"	7'-2"	VERIFY		2/A3.01	3/A3.01	01/A3.01	IMPACT RESISTANT GLASS
3	HM	3'-0"	7'-0"	1 3/4"	H.M.	3'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		
4	S.C.	3'-0"	7'-0"	1 3/4"	H.M.	3'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		
5	S.C.	PR - 3'-0"	7'-0"	1 3/4"	H.M.	6'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		
6	S.C.	3'-0"	7'-0"	1 3/4"	H.M.	3'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		
7	S.C.	3'-0"	7'-0"	1 3/4"	H.M.	5'-0"	7'-2"	VERIFY		06/A3.01	07/A3.01		
8	S.C.	4'-0"	7'-0"	1 3/4"	H.M.	4'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		
9	S.C.	3'-0"	7'-0"	1 3/4"	H.M.	3'-4"	7'-2"	VERIFY		06/A3.01	07/A3.01		

NOTE : PROVIDE LABELED DOORS AND HARDWARE AT ALL FIRE RATED PARTITIONS
NOTE : ALL EXTERIOR HOLLOW METAL DOORS & FRAMES TO BE HOT DIPPED Galv. - TYP.
NOTE : ALL GIVEN DIMENSIONS OF DOOR LITES ARE VISIBLE GLASS AREA - ACTUAL LIGHT OPENING TO VARY BY MANUFACTURE'S REQUIREMENTS

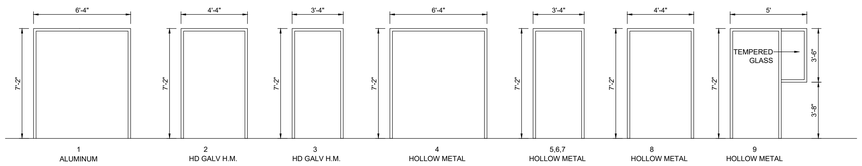
NOTE : REFER TO FIXTURE PLANS FOR CORRESPONDING DOOR HARDWARE SETS
NOTE : ALL GLAZING SHALL BE 1/4" WIRE GLASS U.N.O.
NOTE : PROVIDE CYLINDERS OF ALL LOCKSETS TO BE KEYED TO EXISTING GRANDMASTER SYSTEM.
NOTE : CONTRACTOR MUST PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS BETWEEN ROOMS AT DOOR SILLS



DOOR ELEVATIONS

SCALE 1/4" = 1'-0"

N O T E: 1. ALL EXTERIOR DOORS TO BE HOT DIPPED GALVANIZED REGARDLESS WHETHER NOTED OR NOT NOTED (DOES NOT APPLY FOR ALUMINUM DOORS)
2. ALL EXTERIOR DOORS TO MEET HURRICANE AND HIGH IMPACT RESISTANCE REQUIREMENTS WHETHER NOTED OR NOT NOTED

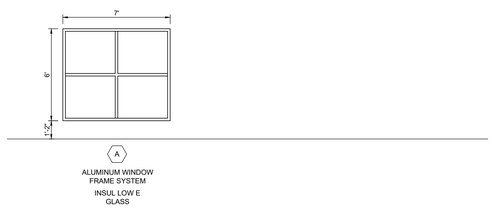


DOOR FRAME ELEVATIONS

SCALE 1/4" = 1'-0"
N.O.T.E:
ALL EXTERIOR DOOR FRAMES TO BE GALVANIZED REGARDLESS WHETHER NOTE OR NOT NOTED (DOES NOT APPLY FOR ALUMINUM FRAMES)

WINDOW SCHEDULE

WDW NO.	MATL	SIZE W	SIZE H	ELEVATION HEAD	ELEVATION SILL	GLASS	DETAIL JAMB	DETAIL HEAD	DETAIL SILL	REMARKS
A	ALUM	7'-0"	6-0"	7'-2"	1'-2"	LOW- E INSUL	02/A3.02	03/A3.02	04/A3.02	IMPACT RESISTANT GLASS



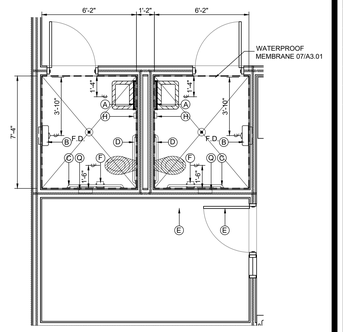
WINDOW ELEVATIONS

SCALE 1/4" = 1'-0"

N O T E: 1.) ALL EXTERIOR WINDOW FRAMES AND GLAZING TO MEET STRUCTURAL WIND LOAD PRESSURES.

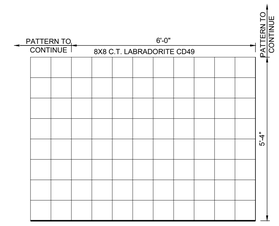
ACCESSORY LEGEND

No.	NAME
A	SS CHANNEL FRAME MIRROR
B	HOT AIR DRYER (REFER TO M.E.P.)
C	42" LONG GRAB BAR
D	36" LONG GRAB BAR
E	MOP AND BROOM HOLDER
F	TOILET TISSUE DISPENSER (By Owner)
G	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
H	LIQUID SOAP DISPENSER (By Owner)
I	TOWEL BAR 18"
J	SHOWER CURTAIN MOD # 204-2
K	SHOWER ROD MOD # B-6047
L	SHOWER HOOKS MOD # 204-1
M	SHOWER SEAT
N	SOAP DISH
P	CONTINUOS GRAB BAR MOD # B-6806 SERIES
Q	WALL MOUNTED SANITARY NAPKIN DISPOSAL
R	TOWEL HOOK
S	PAPER TOWEL DISPENSER (By Owner)
	ALL MODEL NUMBERS SHOWN ARE FROM BOBRICK WASHROOM ACCESSORIES
	GENERAL NOTE FOR ALL TOILET ROOMS: PROVIDE CERAMIC TILE WAINSCOT BEHIND ALL MIRRORS, INCLUDING THE HANDICAP MIRRORS WHICH PROJECT ABOVE THE 6' HIGH TILE WAINSCOT.
	PROVIDE TILE BORDER AROUND ALL ELECTRICAL OUTLETS THAT SURPASS C.T. WAINSCOT
	CONTRACTOR TO INSTALL OWNER PROVIDED SURFACE MOUNTED PAPER TOWEL AND TOILET TISSUE DISPENSERS.
△	PROVIDE SCHLUTER KERDI MEMBRANE WATERPROOFING AT ALL TOILETS ROOMS AND SHOWERS AS SPECIFIED. (SECTION 07115)



01 TOILET PLAN

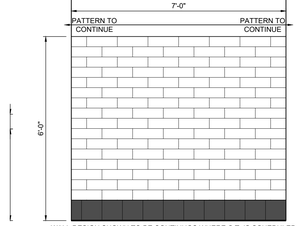
SCALE: 1/4" = 1'-0"



PROVIDE CERAMIC TILE AS SCHEDULED COLORS TO BE SELECTED BY ARCHITECT'S OFFICE THIS DESIGN TO APPLY TYPICAL AT ALL TOILET ROOMS ALL TILE TO BE SELECTED FROM DAL-TILE

03 FLOOR C.T. DESIGN

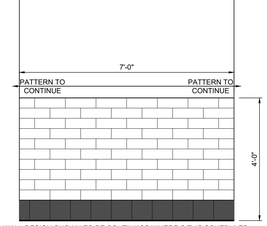
SCALE: 1/2" = 1'-0"



WALL DESIGN SHOWN TO BE CONTINUOS WHERE C.T. IS SCHEDULED PROVIDE CERAMIC TILE PATTERN WHERE CERAMIC TILE IS SCHEDULED INCLUDING WALLS AROUND DRINKING FOUNTAINS COLORS AS SELECTED BY ARCHITECT'S OFFICE THIS DESIGN TO APPLY TYPICAL AT ALL TOILET ROOMS ALL TILE TO BE SELECTED FROM DAL-TILE

04 WALL C.T. DESIGN

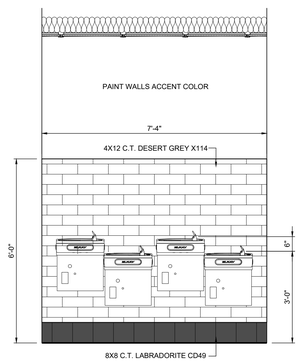
SCALE: 1/2" = 1'-0"



WALL DESIGN SHOWN TO BE CONTINUOS WHERE C.T. IS SCHEDULED PROVIDE CERAMIC TILE PATTERN WHERE CERAMIC TILE IS SCHEDULED INCLUDING WALLS AROUND DRINKING FOUNTAINS COLORS AS SELECTED BY ARCHITECT'S OFFICE THIS DESIGN TO APPLY TYPICAL AT ALL TOILET ROOMS ALL TILE TO BE SELECTED FROM DAL-TILE

05 WALL C.T. DESIGN

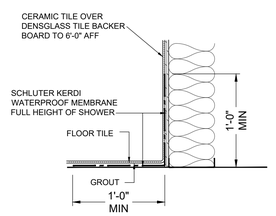
SCALE: 1/2" = 1'-0"



06 WALL C.T. @ D.F's

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

EXTEND WAINSCOT TO WING WALLS



07 TOILET WALL BASE DTL

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

PROVIDE SCHULTER KERDI WALL PAN ALL AREAS WHERE CERAMIC AND QUARRY TILE ARE SCHEDULED TO RECEIVE

No.	REVISIONS	BY

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IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT ROAN GABRIEL GOMEZ 23625 STATE OF TEXAS

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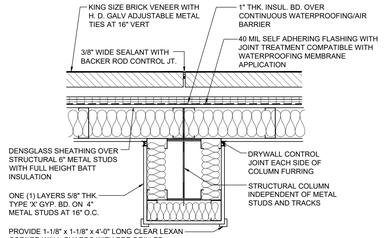
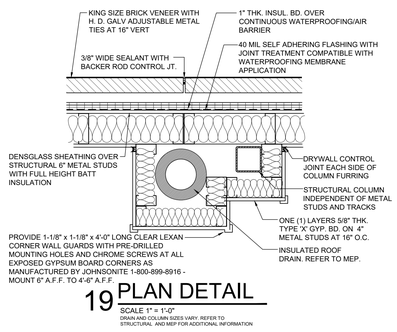
Architects-Planners

Date: December 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: RN
Job No. IDEA EDINBURG CAFETERIA
Sheet: A3.01



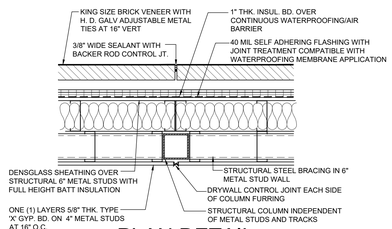
20 PLAN DETAIL

SCALE 1" = 1'-0"
COLUMN SIZES VARY. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION



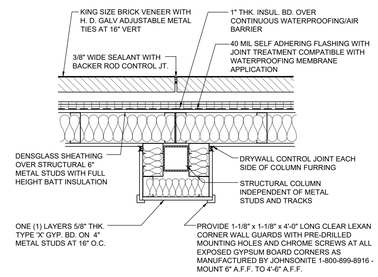
19 PLAN DETAIL

SCALE 1" = 1'-0"
DRAIN AND COLUMN SIZES VARY. REFER TO STRUCTURAL AND MEP FOR ADDITIONAL INFORMATION



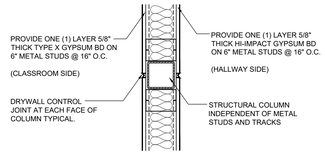
18 PLAN DETAIL

SCALE 1" = 1'-0"
TYPICAL AT ALL DIAGONAL BRACING LOCATIONS. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION



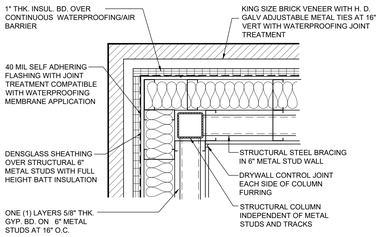
17 PLAN DETAIL

SCALE 1" = 1'-0"



16 PLAN DETAIL

SCALE 1" = 1'-0"

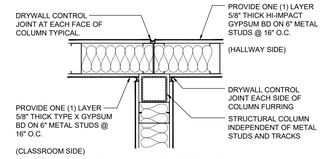


15 PLAN DETAIL

SCALE 1" = 1'-0"
TYPICAL AT ALL DIAGONAL BRACING LOCATIONS. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION

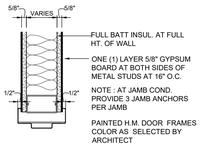
14 PLAN DETAIL

SCALE 1" = 1'-0"



13 PLAN DETAIL

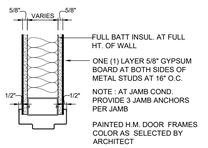
SCALE 1" = 1'-0"



09 DOOR JAMB DETAIL

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

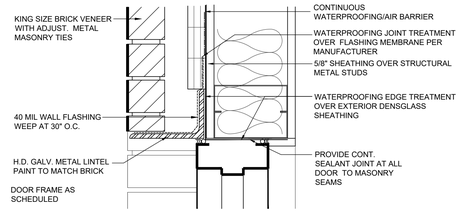
N O T E :
- WALLS THAT REQUIRE GYP BOARD ARE AS SHOWN ON FLOOR PLAN
- PROVIDE DRYWALL CONTROL JOINTS TO CEILING



08 DOOR HEAD DETAIL

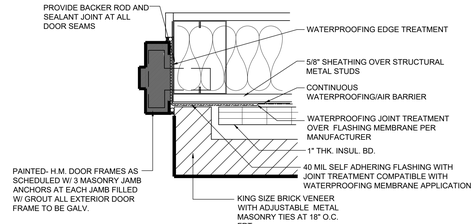
SCALE 1-1/2" = 1'-0"

N O T E :
- WALLS THAT REQUIRE GYP BOARD ARE AS SHOWN ON FLOOR PLAN
- PROVIDE DRYWALL CONTROL JOINTS TO CEILING



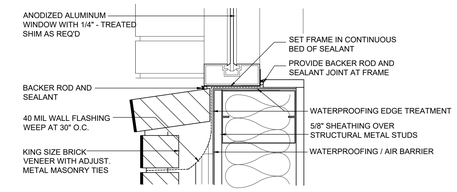
07 DOOR HEAD DETAIL

NOT TO SCALE



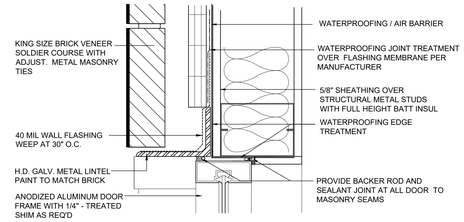
06 DOOR JAMB DETAIL

NOT TO SCALE



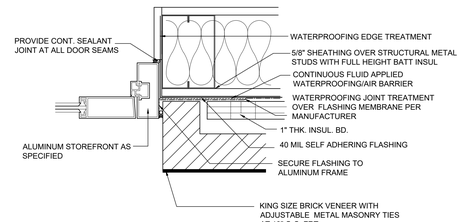
04 SILL DETAIL

NOT TO SCALE
WINDOW HEAD SIMILAR



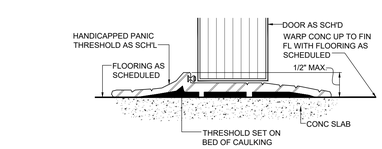
03 DOOR HEAD DETAIL

NOT TO SCALE
WINDOW HEAD SIMILAR



02 DOOR JAMB DETAIL

NOT TO SCALE
WINDOW JAMB SIMILAR



01 THRESHOLD DETAIL

SCALE : NONE

No.	REVISIONS	BY

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IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT ROAN GABRIEL GOMEZ 12/31/2025 STATE OF TEXAS

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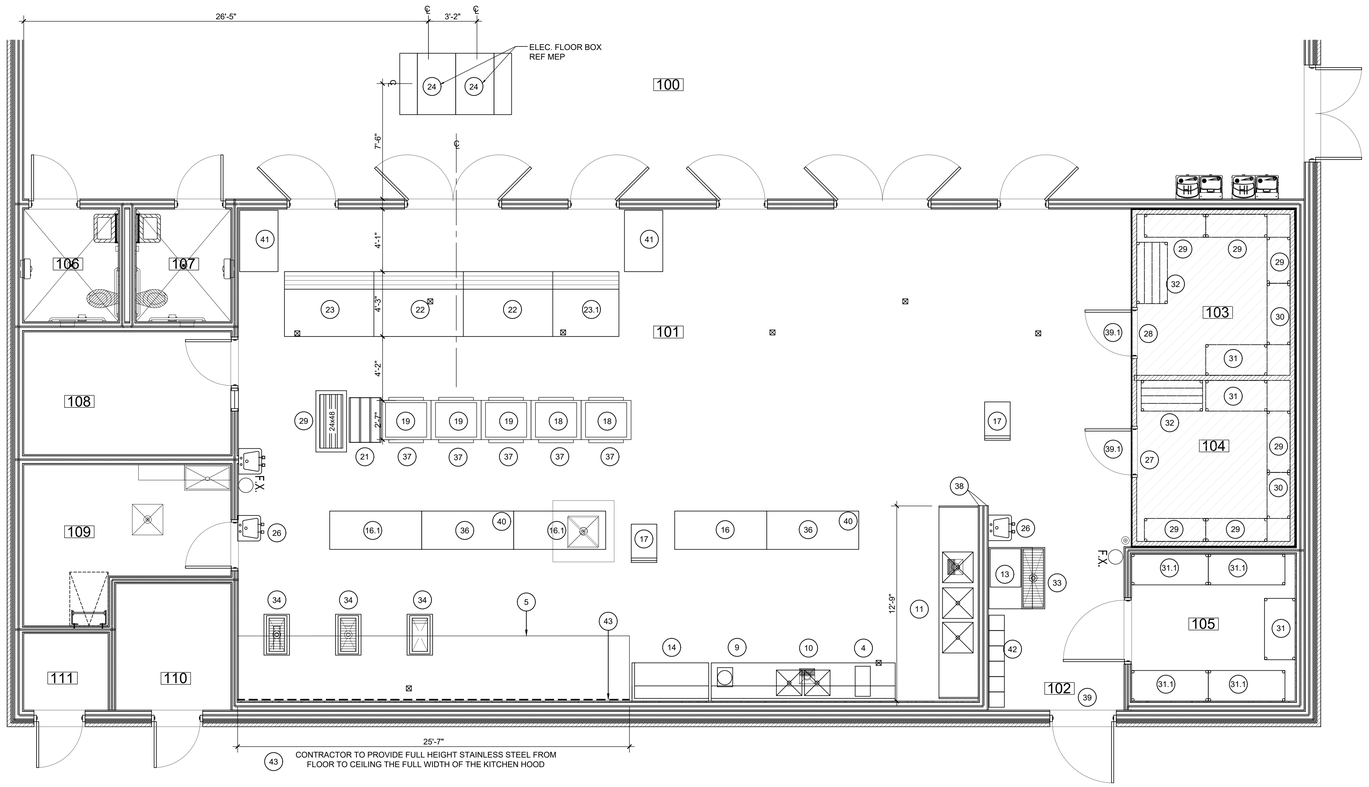
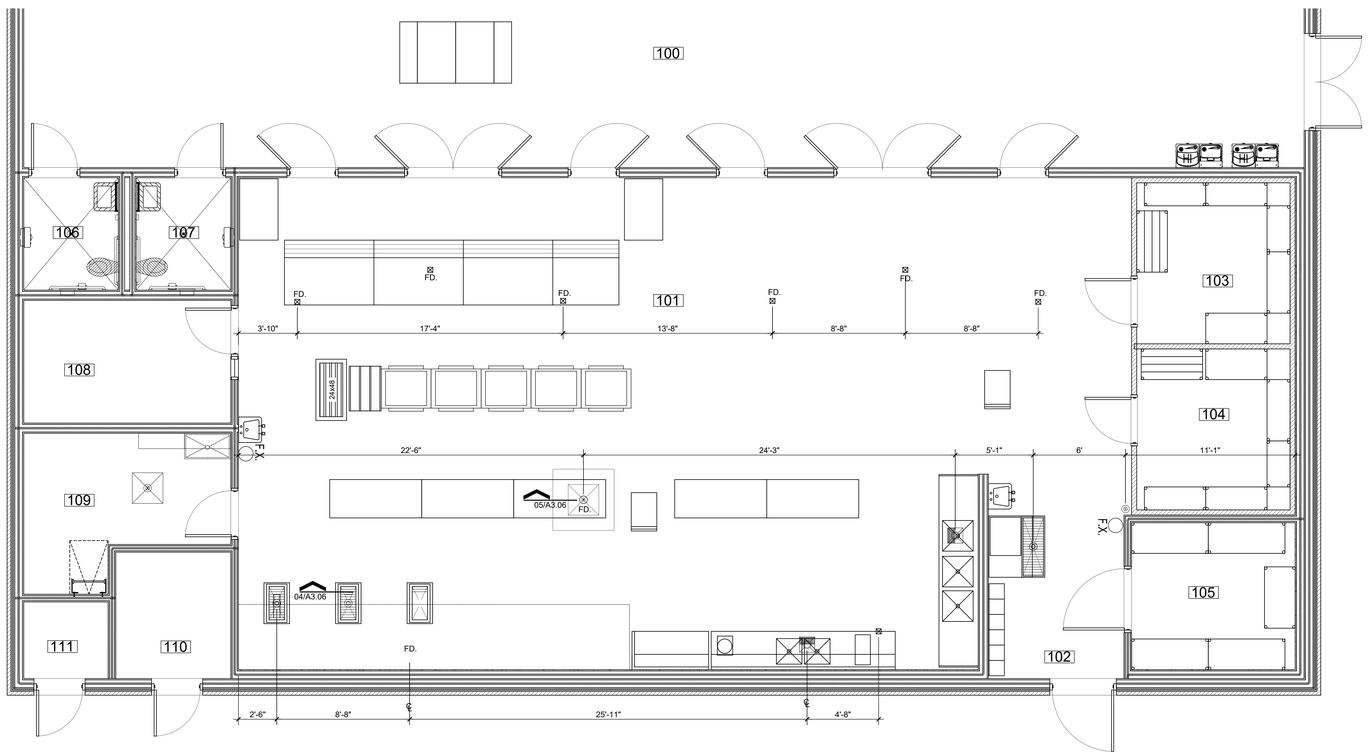
Date:	December 2024
Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	RN
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	A3.02



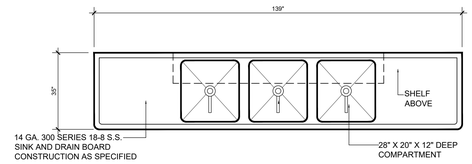
01 KITCHEN EQUIPMENT PLAN
SCALE: 1/4"=1'-0"

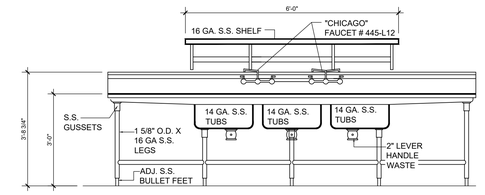


01 FLOOR DRAIN DIMENSION PLAN
SCALE: 1/4"=1'-0"

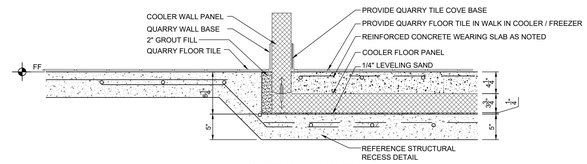
EQUIPMENT LEGEND

No.	NAME:
1	
1A	
2	
3	
4	HOT WATER DISPENSER
5	KITCHEN EXHAUST HOOD
6	
7	
8	
9	FOOD PROCESSOR
10	TWO COMPARTMENT SINK
11	THREE COMPARTMENT SINK
12	
13	ICE MACHINE
14	72" X 30" WORK TABLE
15	
16	72" X 30" WORK TABLE
16.1	72" X 30" WORK TABLE - POT RACK
17	UTILITY CART
18	ROLL THRU REFRIGERATOR
19	ROLL THRU HEATED CABINET
20	
21	CAN RACK
22	70" X 37" HOT FOOD SERVING UNIT
23	70" X 37" FROST TOP SERVING UNIT
23.1	54" X 37" WORK TABLE / CABINET (SERVING LINE)
24	30" X 48" WORK TABLE / CABINET (CASHIER STAND)
25	
26	HAND SINK
27	WALK-IN REFRIGERATOR
28	WALK-IN FREEZER
29	STORAGE SHELVING 48" X 18"
30	STORAGE SHELVING 36" X 18"
31	STORAGE SHELVING 48" X 24"
31.1	STORAGE SHELVING 60" X 24"
32	DUNNAGE RACKS 48" X 24"
33	STAINLESS STEEL FLOOR TROUGH AND GRATE 48"X18"
34	STAINLESS STEEL FLOOR TROUGH AND GRATE 30"X18"
35	
36	72" X 30" WORK TABLE - POT RACK
37	REFRIGERATOR / FREEZER RACK, ROLL IN
38	
39	AIR CURTAIN
39.1	AIR CURTAIN
40	CAN OPENER
41	MILK COOLER
42	3 TIER LOCKERS AS SPECIFIED
43	STAINLESS STEEL



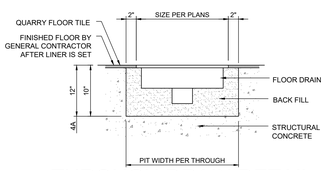


11
SCALE 1/2" = 1'-0"

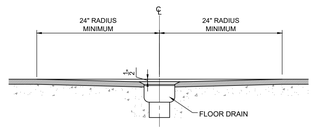


CONCRETE WEARING SLAB NOTE:
PROVIDE A TYPICAL 3,000 PSI CONCRETE MIX WITH A MAXIMUM SLUMP OF 3.1/2". THE SLAB SHOULD BE REINFORCED WITH #3 REBAR AT 12" ON CENTER. THE REBAR SHOULD BE SET A MID DEPTH OF THE SLAB. THE REBAR NEEDS TO BE KEPT PROPERLY SUPPORTED DURING CONCRETE PLACEMENT. ADDITIONALLY, THE CONCRETE MIX DESIGN SHOULD INCLUDE 1.0 TO 1.1/2 LBS OF FIBERMESH REINFORCEMENT PER CUBIC YARD OF READY MIX CONCRETE

03 WALK IN COOLER FREEZER FLOOR DETAIL
SCALE: 1"=1'-0"



04 THROUGH DRAIN DETAIL
SCALE: 1"=1'-0"



05 FLOOR DRAIN DETAIL
SCALE: 1"=1'-0"

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IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT
ROAN GABRIEL GOMEZ
23625
STATE OF TEXAS

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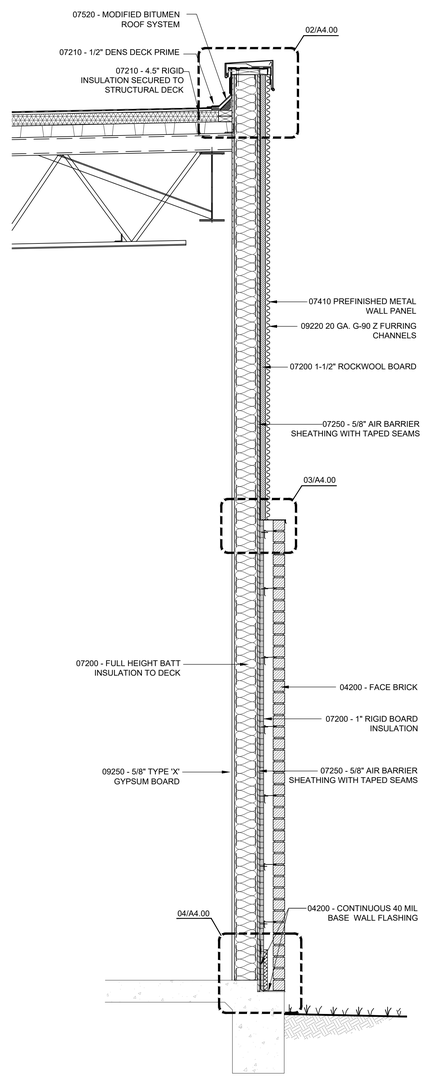
Date: December 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: RN
Job No. IDEA EDINBURG CAFETERIA
Sheet: A3.03

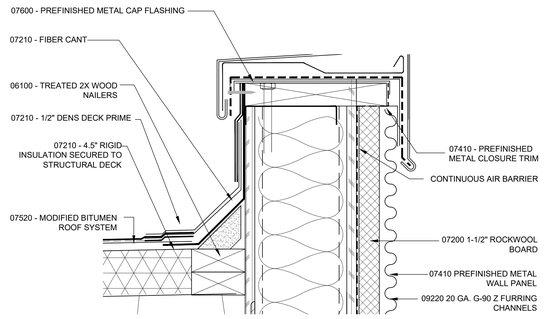
IECC Component Schedule - Prescriptive

	Component Name	Design Material	Thermal Value				Remarks
	Roof						
07210	4.5" Rigid Insulation	Jones Manville - Enrgy 3	Average R-Value = 25				
07210	1/2" Recover Board	GP DensDek Prime	R-Value = .56				
07520	Modified Bitumen Cap Sheet	Garland Roofing - Stress Ply IV					Reflectance = .73; Emmittance = .91
	Wall			A	B		
09250	5/8" Type X Drywall	GP 5/8" Type X Drywall	R-Value = .48	0.48	0.48		
07200	6" Batt Insulation	Owens Corning	R-Value = 19	19	19		
09250	5/8" Gyp Sheathing	GP DensElement	R-Value = .67	0.67	0.67		
07200	1" Rigid Insulation	Owens Corning Foamular CW	R-Value = 5.0	5.0	5.0		
04200	1" Airspace		R-Value = 1	1			
04200	3" King Size Face Brick	Acme Brick	R-Value = .33	0.33			
07240	1.5" Rockwool Panels	Comfortboard 80	R-Value = 6		6		
07410	Metal Wall Panel	MBCI PBC Wall Panel	R-Value = .61		0.61		
	Doors / Windows						
08410	Aluminum Storefront w/ Insulated Glazing	YKK Series YES w/ Solarban 70XL	U-Factor = .0.32 / SHGC = .25				
08520	Aluminum Window w/ Insulated Glazing	YKK Series YES w/ Solarban 70XL	U-Factor = .0.32 / SHGC = .25				
	Air Barrier						
07240	Dens Element Barrier System	Georgia Pacific					ASTM E-2357 - Passes; .016 L /s*m2
	Prosoco Flashing Membrane	Prosoco R-Guard Fast Flash					ASTM E-2357 - Passes; .016 L /s*m2



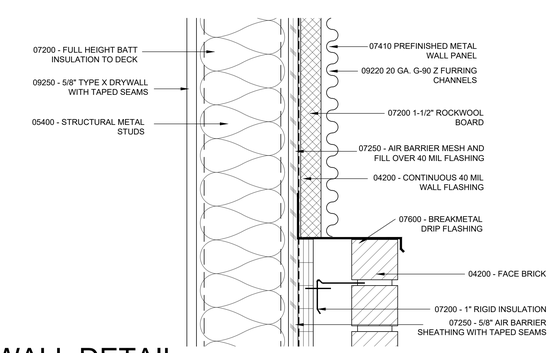
01 WALL SECTION

SCALE 3/4" = 1'-0"



02 WALL DETAIL

SCALE 3" = 1'-0"



03 WALL DETAIL

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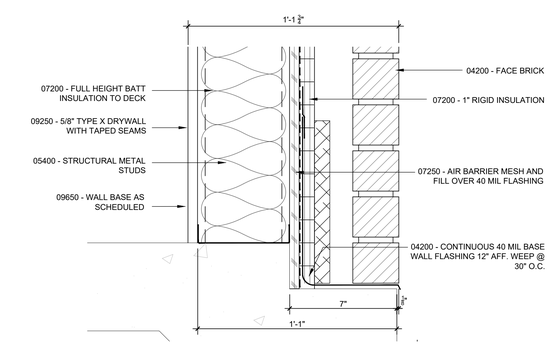

04 WALL DETAIL

SCALE 3" = 1'-0"

IECC COMPONENT WALL SECTIONS

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IDEA-EDINBURG CAMPUS
COLLEGE PREPERATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

REGISTERED ARCHITECT ROMY GABRIEL SAENZ 23625 STATE OF TEXAS

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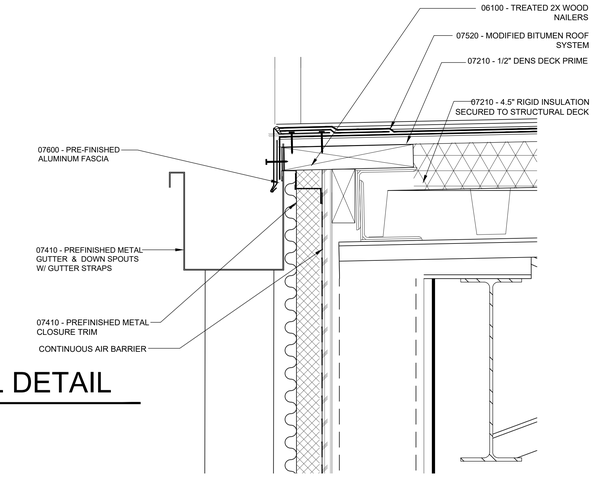
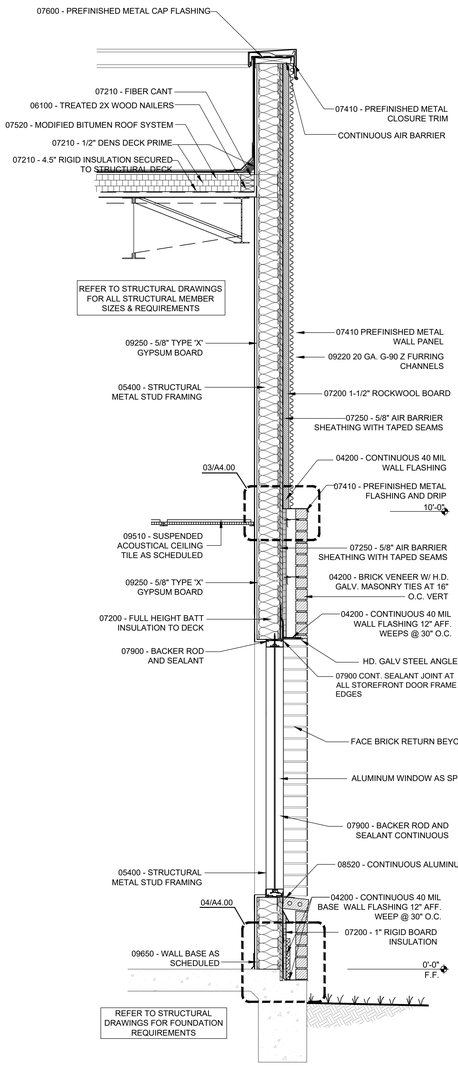


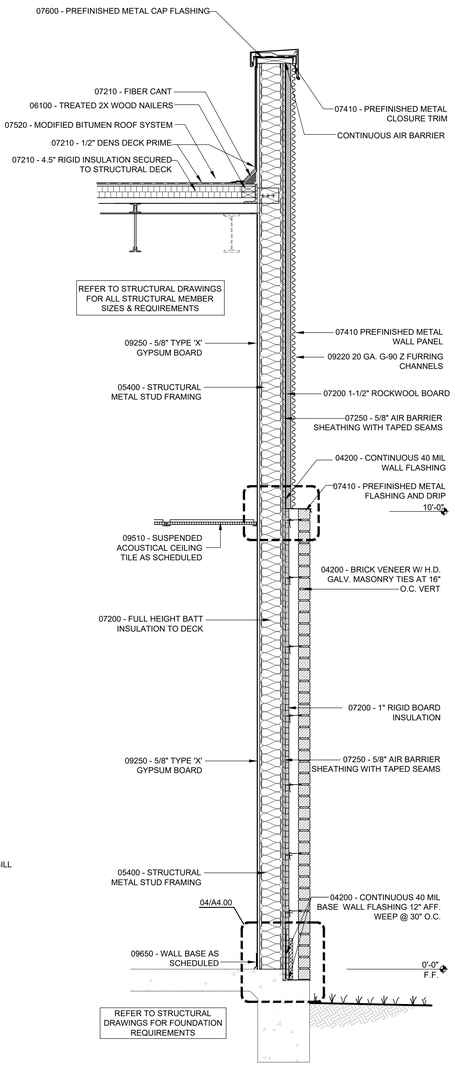
06 WALL DETAIL

SCALE 3" = 1'-0"



05 WALL SECTION

SCALE 3/4" = 1'-0"



04 WALL SECTION

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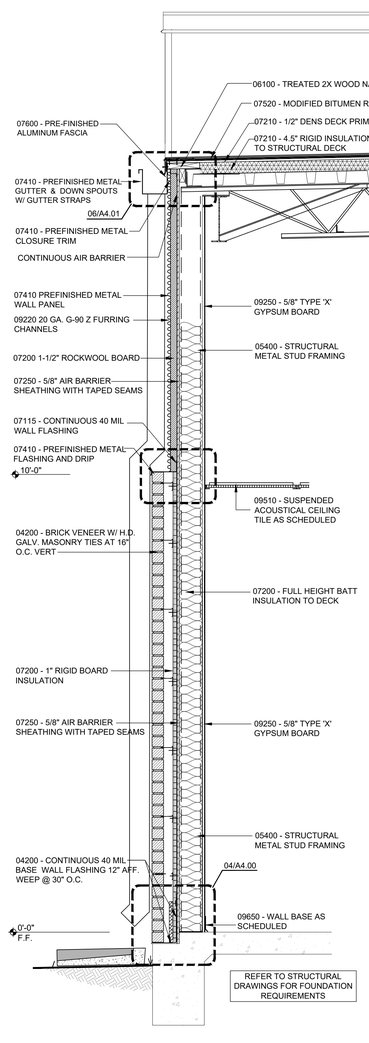

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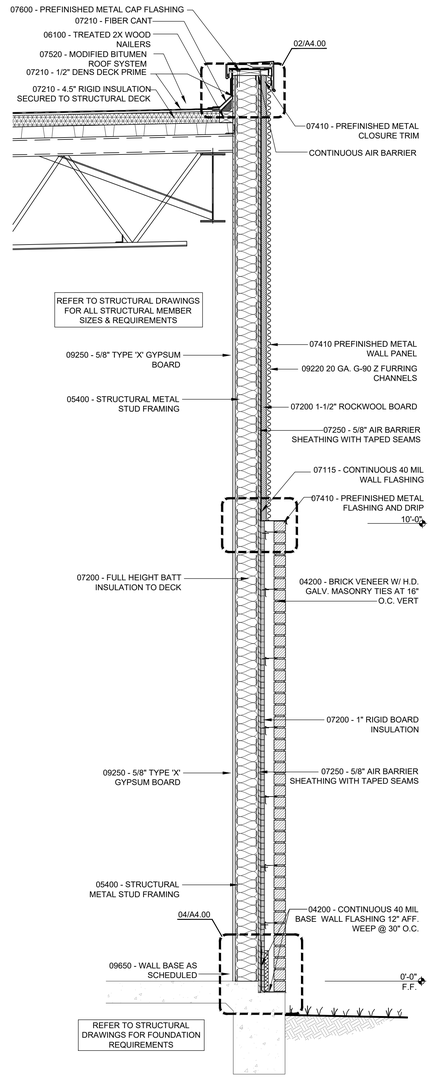

02 WALL SECTION

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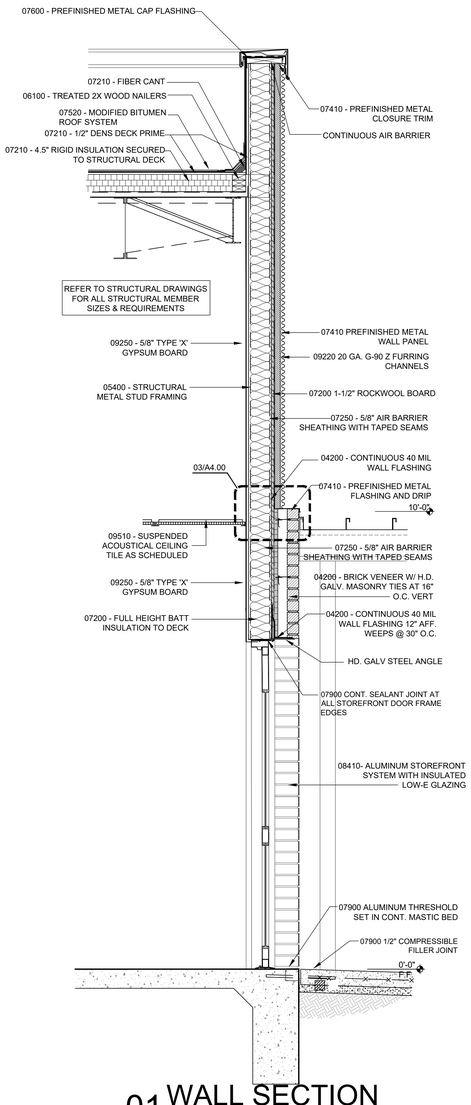

01 WALL SECTION

SCALE 3/4" = 1'-0"

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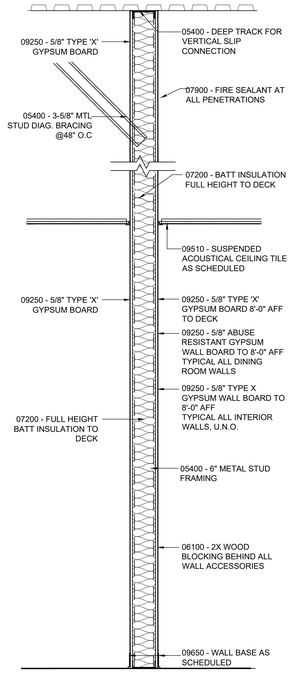
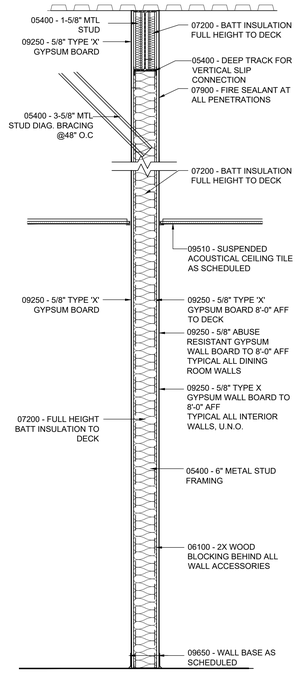


WALL SECTION A

SCALE 3/4" = 1'-0" A1- 3 5/8" STUD

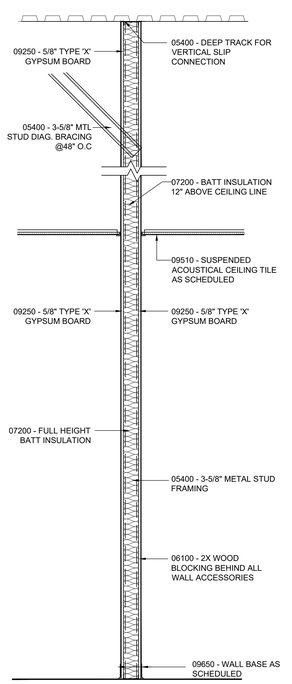
AT INTERIOR CLASS ROOM WALLS, WITH THIS WALL TYPE, PROVIDE TYPE "X" DRYWALL AT EACH FACE - TYPICAL ALL LOCATIONS



WALL SECTION B

SCALE 3/4" = 1'-0"

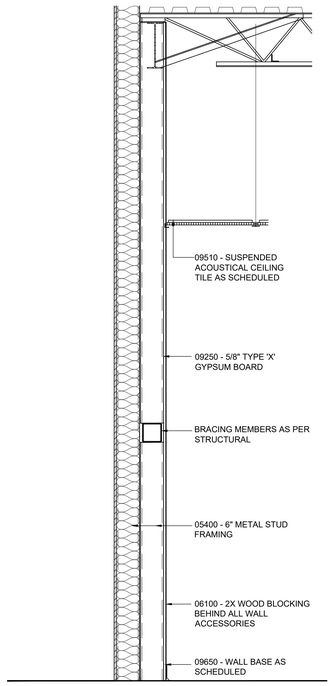
AT INTERIOR CLASS ROOM WALLS, WITH THIS WALL TYPE, PROVIDE TYPE "X" DRYWALL AT EACH FACE - TYPICAL ALL LOCATIONS



WALL SECTION C

SCALE 3/4" = 1'-0"

WHERE NO BEAM IS PRESENT, EXTEND TO UNDERSIDE OF DECK



WALL SECTION D

SCALE 3/4" = 1'-0"

WHERE NO BEAM IS PRESENT, EXTEND TO UNDERSIDE OF DECK

PARTITION TYPES GENERAL NOTES

1.) REFER TO FLOOR PLANS FOR LOCATION OF PARTITION TYPES.

2.) REFER TO SCHEDULES & DETAILS FOR FINISHES,

3.) REFER TO STRUCTURAL FOR DESIGN REQUIREMENTS FOR METAL STUD FRAMING.

4.) ALL GYPSUM WALLBOARD SHALL BE 5/8", TYPE "X", UNLESS NOTED OTHERWISE.

5.) PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD AT THE FOLLOWING LOCATIONS: TOILET ROOM SIDE OF WALL AND WITH IN KITCHEN, UNLESS NOTED OTHERWISE). PROVIDE CEMENT TILE BACKER BOARD BEHIND TILE WAINSCOT, IN LIEU OF M.R. WALLBOARD.

6.) PROVIDE HI-IMPACT GYPSUM WALLBOARD AT ALL INTERIOR HALLWAYS, CORRIDORS, ETC., UNLESS NOTED OTHERWISE). PROVIDE PROVIDE HI-IMPACT BOARD TO A HEIGHT OF 8'-0" AFF AND CONTINUE WITH TYPE 'X' WALLBOARD TO DECK.

7.) APPROPRIATE SUBMITTAL INFORMATION MUST BE PROVIDED TO SUBSTANTIATE THAT THE MATERIALS AND ASSEMBLY USED BY THE CONTRACTOR HAVE BEEN TESTED BY A RECOGNIZED TESTING AGENCY TO MEET THE FIRE RESISTANCE RATING SCHEDULED ON THESE PARTITION TYPES. SEE SPECIFICATION SECTION 08250.

8.) REVIEW PLANS AND PROVIDE BRACING IN PARTITIONS AS REQUIRED FOR CASEWORK, EQUIPMENT ETC. IF WOOD BLOCKING IS REQUIRED PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING.

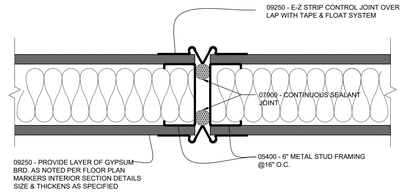
9.) SOUND ATTENUATION BLANKETS SHALL EXTEND FULL HEIGHT OF PARTITIONS.

10.) ALL DOOR JAMBS & HEAD AT MTL. STUD WALLS SHALL BE DOUBLE STUDDED.

11.) PROVIDE WALLBOARD CONTROL JOINTS AT EACH COLUMN LOCATION AND WALL OPENINGS, TYPICAL BOTH FACES.

12.) ALL EXPOSED OUTSIDE CORNERS TO RECEIVE CORNER GUARDS AS SPECIFIED.

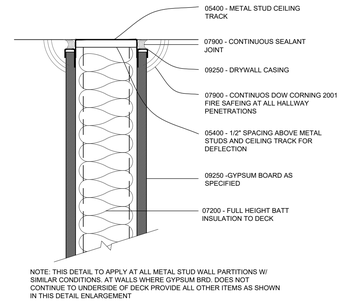
14.) ALTHOUGH ALL INTERIOR PARTITIONS ON THIS SHEET ARE DRAWN TO SIMILAR HEIGHT IT IS RESPONSIBILITY OF THE CONTRACTOR TO RESEARCH ALL INTERIOR PARTITION WALL HEIGHTS FROM FINISHED FLOOR TO UNDERSIDE OF ROOF DECK.



NOTE: PROVIDE CONTROL JOINT AT EACH COLUMN LOCATION AND WALL OPENING, TYPICAL BOTH FACES.

01 PARTITION DETAILS

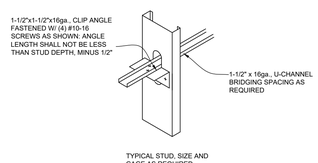
SCALE 3" = 1'-0"



NOTE: THIS DETAIL TO APPLY AT ALL METAL STUD WALL PARTITIONS W/ SIMILAR CONDITIONS. AT WALLS WHERE GYPSUM BRD. DOES NOT CONTINUE TO UNDERSIDE OF DECK PROVIDE ALL OTHER ITEMS AS SHOWN IN THIS DETAIL ENLARGEMENT

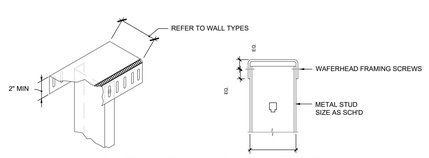
02 PARTITION DETAILS

SCALE 3" = 1'-0"



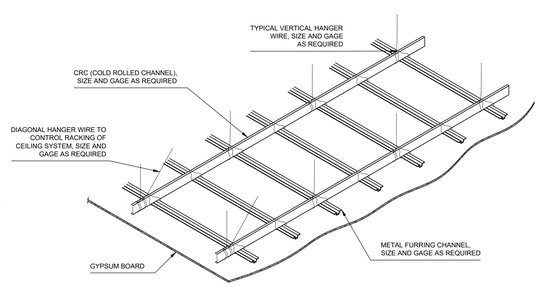
04 BRACING DETAIL

NOT TO SCALE



06 SLOTTED TRACK DETAIL

NOT TO SCALE



05 CEILING DETAIL

NOT TO SCALE

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IDEA Public Schools

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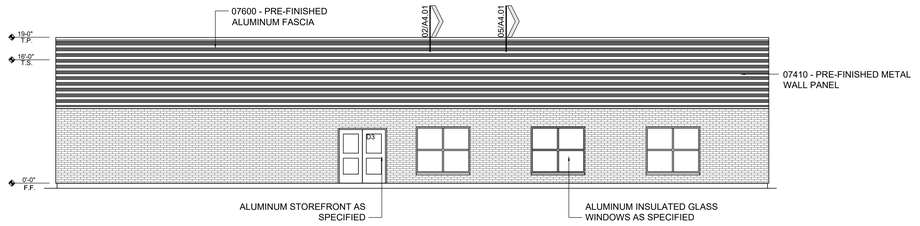
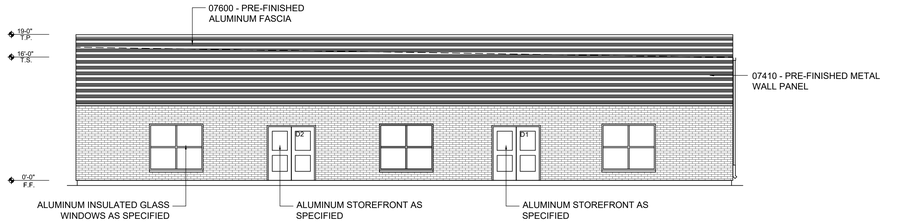
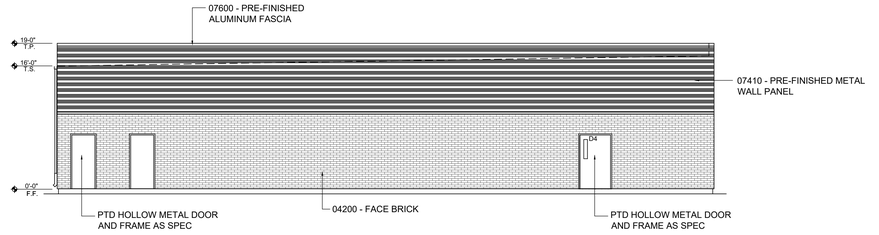
Sheet: A4.02



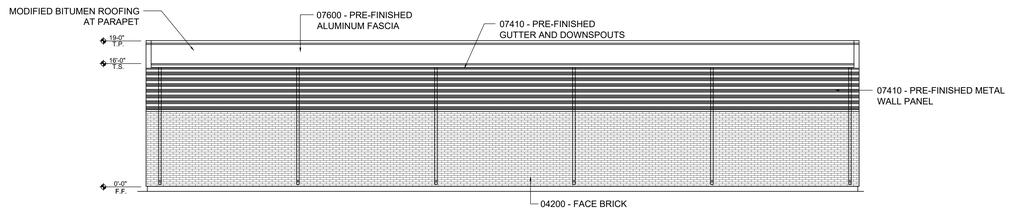
01 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



02 WEST ELEVATION
SCALE: 1/8" = 1'-0"



03 EAST ELEVATION
SCALE: 1/8" = 1'-0"



04 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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Drawn By: RN
Job No: IDEA EDINBURG CAFETERIA
Sheet: A5.01

GENERAL NOTES

GENERAL

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

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION
    B. FRAMING OF ROOF STRUCTURE BEFORE METAL DECKING IS INSTALLED
    C. ROOF METAL DECKING INSTALLATION
    D. COLD-ROLLED STEEL FRAMING
3. NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.
4. WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CONCRETE ACCESSORIES (CHAIRS/BOLSTERS, VAPOR RETARDER, CURING COMPOUND)
    C. CONCRETE REINFORCEMENT
    D. STRUCTURAL STEEL
    E. STEEL JOIST
    F. METAL DECKING
    G. COLD-ROLLED STEEL FRAMING (STUDS, TRACKS, CLIPS, FASTENERS)
2. DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE: NONE
3. DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS, AND AS REQUIRED BY THE RESPECTIVE BUILDING CODE, WHICHEVER IS GREATER. THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.
4. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
5. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
6. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
2. CODE: ..... IBC 2018
3. VERTICAL LOADS
    A. ROOF DEAD LOAD (BUILT-UP ROOF): ..... 25 PSF
    B. ROOF LIVE LOAD (REDUCIBLE): ..... 20 PSF
    C. UPLIFT LOAD: ..... SEE ROOF UPLIFT PLAN

    D. MECHANICAL LOAD:
    THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.
4. LATERAL LOADS
    A. WIND SPEED (V-ULT): ..... 140 MPH
    WIND SPEED (V-ASD) ..... 109 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.0
    D. RISK CATEGORY: III
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... D
5. GEOTECHNICAL ENGINEERING REPORT:
    PROVIDED BY: TERRACON
    PROJECT NUMBER: 88195004
    DATED: 02/12/19
    FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
    A. EFFECTIVE PI: 23
    B. CLIMATIC RATING (CW): 15
    C. MINIMUM BEAM DEPTH: ..... 30 IN
    D. MINIMUM BEAM WIDTH: ..... 18 IN
    E. ALLOWABLE BEARING CAPACITY (BEAMS) ..... 2500 PSF
    F. ALLOWABLE BEARING CAPACITY (FOOTING) ..... 2500 PSF
    G. EXISTING PVR: ..... 1.5 IN
    H. PVR (SEE EXCAVATION PLAN) ..... 1 IN

REINFORCING STEEL

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

CONCRETE

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

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION AND SLAB	3000 PSI	4"-6"	1.25 IN.

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

    WALL, COLUMNS, & BEAM SIDES.....40%
18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.
2. MATERIALS USED SHALL BE AS FOLLOWS=
    A. STRUCTURAL W-SHAPES - ASTM A992 GRADE 50
    B. STRUCTURAL M-SHAPES AND S-SHAPES - ASTM A36
    C. STRUCTURAL T-SHAPES - CUT FROM W-SHAPES
    D. CHANNELS AND ANGLES - ASTM A36
    E. ROUND HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    G. STRUCTURAL PLATES - ASTM A36
    H. STRUCTURAL BARS - ASTM A36
    I. HIGH STRENGTH BOLTS - ASTM A325
    J. ELECTRODES - SERIES E70
3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.
4. CONNECTIONS NOT DETAILED AND/OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURE DRAWING. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.
6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER. REPAIR DAMAGED AREAS AND WELDS MADE AFTER GALVANIZING IN ACCORDANCE WITH ASTM A780 WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOD-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 4 MILS.
7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.
8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.
10. PROVIDE 2.0 TONS OF RED IRON ALLOWANCE TO BE USED AS DIRECTED BY STRUCTURAL ENGINEER. INCLUDE LABOR COSTS IN THE ALLOWANCE. ANY UNUSED ALLOWANCE SHALL BE CREDITED BACK TO OWNER AT A COST OF $6000 PER TON.
11. ALL WELDED CONNECTION SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.
12. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

STEEL JOISTS

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

METAL ROOF DECK

1. SHEET STEEL: ASTM A653 GRADE 50 STRUCTURAL QUALITY WITH G90 GALVANIZED COATING CONFORMING TO ASTM A525
2. DECK PROFILE - B
    PROFILE DEPTH - 1.5 IN.
    GAGE - 22
3. METAL DECK ATTACHMENT SHALL BE:
    AT SUPPORTS: #12 TEK SCREWS AT A 36/5 PATTERN
    AT SIDELAPS: #10 TEK SCREWS, 4 PER SPAN
4. WELDING OF METAL DECKING SHALL NOT BE ALLOWED
5. ALL METAL DECK PANELS SHALL SPAN ACROSS A MINIMUM OF FOUR JOISTS OR BEAMS
6. DECK ENDS SHALL BE LAPPED OVER SUPPORTS
7. FASTEN METAL DECK TO PERIMETER ANGLE AT 0'-6" ON CENTER

COLD ROLLED STEEL SPECIFICATIONS (SSMA)

1. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS.
2. ALL STRUCTURAL MEMBERS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". LATEST EDITION.
3. ALL STUDS, RUNNERS, JOIST AND TRUSSES SHALL BE FORMED FROM GALVANIZED STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR .097, .068, .054 THICK MEMBERS AND 33 KSI FOR .043 AND .033 THICK MEMBERS AND FLAT STRAP BRACING.
4. PRIOR TO FABRICATION THE CONTRACTOR SHALL SUBMIT ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
6. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF TRACK WEB PRIOR TO FASTENING.
7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDS. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT.
8. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. PROPOSED CONNECTION TO BE SUBMITTED FOR APPROVAL.
9. ABUTTING LENGTHS OF TRACK SHALL EACH BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT-WELDED, OR SPLICED.
10. STUDS SHALL BE PLUMB, ALIGNED AND SECURELY ATTACHED TO FLANGES OF BOTH UPPER AND LOWER TRACKS.
11. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADERS, AND WHERE NEEDED TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS.
12. RESISTANCE TO MINOR AXIS BENDING AND ROTATION SHALL BE PROVIDED BY GYPSUM BOARD OR GYPSUM SHEATHING AND BY HORIZONTAL STRAP AND BLOCKING OR COLD-ROLLED CHANNEL BRACING AT THIRD POINTS.
13. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED. NOTCHING OR COPING OF STUDS, JOISTS, RAFTERS SHALL NOT BE PERMITTED.
14. PROVIDE A MINIMUM OF (3) #12 SCREWS FOR ALL STUD TO STUD CONNECTIONS.
15. BRIDGING SHALL BE INSTALLED IMMEDIATELY AFTER JOISTS ARE ERECTED AND BEFORE CONSTRUCTION LOADS ARE APPLIED TO PREVENT FLANGE ROTATION AND TO SUPPORT FLANGES IN COMPRESSION.
16 BRIDGING SHALL CONSIST OF SOLID BLOCKING PLUS STRAP BRACING OR 1 1/2" COLD-ROLLED CHANNELS SCREW-ATTACHED OR WELDED TO BOTTOM JOIST FLANGES. BRIDGING SHALL BE INSTALLED AT MID SPAN FOR SPANS 16'-0" OR LESS AND AT 8'-0" O.C. MAX. FOR SPANS GREATER THAN 16'-0" U.N.O.
17. SOLID BLOCKING, OF FIELD-CUT TRACK OR JOIST SECTION, SHALL BE PROVIDED, WELDED OR SCREW-ATTACHED BETWEEN OUTER JOIST, OVER ALL INTERIOR SUPPORTS AND ADJACENT TO OPENINGS AT 10'-0" O.C. MAX. COLD-ROLLED CHANNELS OR STRAP BRACING OF 1 1/2" x 33 MIL (0.033") CORROSION-RESISTANT STEEL SHALL BE SCREW-ATTACHED TO BOTTOM JOIST FLANGE BETWEEN SOLID BLOCKING. REFERENCE MANUFACTURER INSTALLATION INSTRUCTIONS.

CONTRACTOR NOTE

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

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GENERAL NOTES

STRUCTURAL TESTS AND SPECIAL INSPECTION

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

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

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

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

5. SPECIAL INSPECTION FOR MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 QUALITY ASSURANCE PROGRAM REQUIREMENTS.

6. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SECIAL INSPECTORS FOR

   COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.

7. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

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

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT.	——		ACI 318: CH. 20, 25.2, 25.3, 26.6.1 -26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	——		AWS D1.4 ACI 318: 26.6.4	——
3. INSPECT ANCHORS CAST IN CONCRETE.	——		ACI 318: 17.8.2	——
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.			ACI 318: 17.8.2.4 ACI 318: 17.8.2	——
5. VERIFYING USE OF REQUIRED DESIGN MIX.	——		ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		——	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		——	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	——		ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS		—— ——	ACI 318: 26.10	——
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	——		ACI 318: 26.9	——
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	——		ACI 318: 26.11.2	——
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	——		ACI 318: 26.11.1.2(b)	——

FOR SI: 1 INCH=24.5mm
a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR ANCHOR. ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING				
INSPECTION TASKS PRIOR TO WELDING	**QC**	**QA**		
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	AISC SET. N5	SECTIONS 1705.5, 2205, 2206, 2207, 2208, 2210, 2211
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P		
MATERIAL IDENTIFICATION (TYPE/GRADE)	P	P		
WELDING IDENTIFICATION SYSTEM[1]	P	P		
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O		
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS OF ROOT • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O		
CHECK WELDING EQUIPMENT	O	—		
TABLE N5.4-2 INSPECTION TASKS DURING WELDING				
INSPECTION TASKS DURING WELDING	**QC**	**QA**		
USE OF QUALIFIED WELDERS	O	O	AISC SET. N5	SECTIONS 1705.5, 2205, 2206, 2207, 2208, 2210, 2211
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O		
NO WELDING OVER CRACKED TACK WELDS	O	O		
CONTROL AND HANDLING OF WELDING CONSUMABLES • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O		
WPS FOLLOWED • SETTING ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F,V,H,OH.)	O	O		
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O		
TABLE N5.4-3 INSPECTION TASKS AFTER WELDING				
INSPECTION TASKS AFTER WELDING	**QC**	**QA**		
WELDS CLEANED	O	O	AISC SET. N5	SECTIONS 1705.5, 2205, 2206, 2207, 2208, 2210, 2211
SIZE, LENGTH AND LOCATION OF WELDS	P	P		
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P		
ARC STRIKES	P	P		
K-AREA[1]	P	P		
BACKING REMOVAL AND WELD TABS REMOVED (IF REQUIRED)	P	P		
REPAIR ACTIVITIES	P	P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P		
TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING				
INSPECTION TASKS PRIOR TO BOLTING	**QC**	**QA**		
MANUFACTURER'S CERTIFICATION AVAILABLE FOR FASTENER MATERIALS	O	P	AISC SET. N5	SECTIONS 1705.5, 2205, 2206, 2207, 2208, 2210, 2211
FASTENER MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O		
TABLE N5.6-2 INSPECTION TASKS DURING BOLTING				
INSPECTION TASKS DURING BOLTING	**QC**	**QA**		
FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O		
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O		
FASTENER ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O		
TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING				
INSPECTION TASKS AFTER BOLTING	**QC**	**QA**		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	AISC SET. N5	SECTIONS 1705.2, 2205, 2206, 2207,2208, 2210, 2211
TABLE N6.1 INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT				
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	**QC**	**QA**		
PLACEMENT AND INSTALLATION OF STEEL DECK	P	P	AISC SET. N5	SECTIONS 1705.5, 2205, 2206, 2207, 2208, 2210, 2211
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P		
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	P		

1. THE FABRICATOR OR ERECTOR AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS IF USED, SHALL BE THE LOW-STRESS TYPE.
2. WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PREFORMED IN THE K-AREA , VISUALLY INSPECT THE WEB K-AREA FOR WITHIN 3 IN. (75m) OF THE WELD.
3. QC = QUALITY CONTROL
4. QA = QUALITY ASSURANCE
5. O = OBSERVE THESE ON A RANDOM BASIS. OPERATIONS NEED NOT TO DELAYED PENDING THESE INSPECTIONS.
6. P = PERFORM THESE TASKS FOR EACH WELD JOINT OR MEMBER.

TABLE 1705.2.3
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.		
a. END CONNECTIONS - WELDING OR BOLTED.	——	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL.	——	
1. STANDARD BRIDGING	——	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		

FOR S1: 1 INCH = 25.4 mm
a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

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

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

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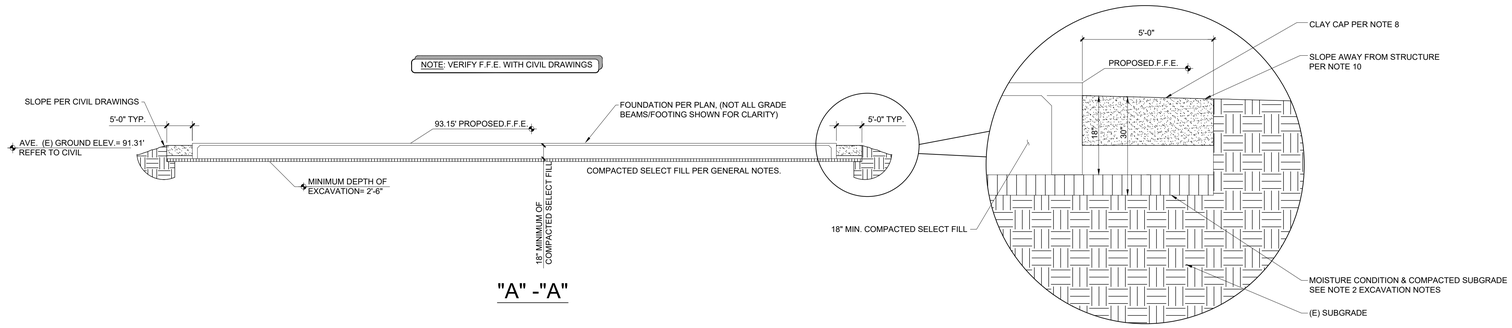


"A" -"A"

01 TYPICAL PROFILE
SCALE: NTS

EXCAVATION NOTES

1. CONSTRUCTION AREAS REMOVE AT LEAST 12 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE BUILDING LINE PROPOSED.

2. EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOF ROLLED WITH A 15 TON PNEUMATIC ROLLER OR A FULLY LOADED DUMP TRUCK IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOF ROLLING SHOULD BE REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW. PRIOR TO FILL PLACEMENT, THE EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 12" AND RECOMPACTING TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED FROM THE ASTM D698 COMPACTION TEST. THE MOISTURE CONTENT SHOULD BE MAINTAINED AT OPTIMUM.

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

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

A. AGGREGATE BASE COURSE- TOP SIX (6) INCHES OF BUILDING PAD SHALL CONSIST OF SOILS CLASSIFIED AS SC OR GC, BY THE USCS OR CALICHE OR CRUSHED LIMESTONE. THE CLAYEY GRAVEL AND CALICHE MATERIALS SHOULD MEET THE GRADATION REQUIREMENTS OF ITEM 247, TYPE B, GRADE 1-2 AND 3 AS SPECIFIED IN THE 2014 TxDOT STANDARD SPECIFICATIONS MANUAL AND HAVE A PLASTICITY INDEX BETWEEN 7 AND 20. CRUSHED LIMESTONE OR CRUSHED CONCRETE MATERIAL SHOULD MEET THE REQUIREMENTS OF 2014 TxDOT ITEM 247, TYPE A OR D, GRADE 1-2 AND 3. THE SELECT FILL MATERIALS SHOULD BE FREE OF ORGANIC MATERIAL AND DEBRIS, AND SHOULD NOT CONTAIN STONES LARGER THAN 2 INCHES IN THE MAXIMUM DIMENSION.

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

5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.

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

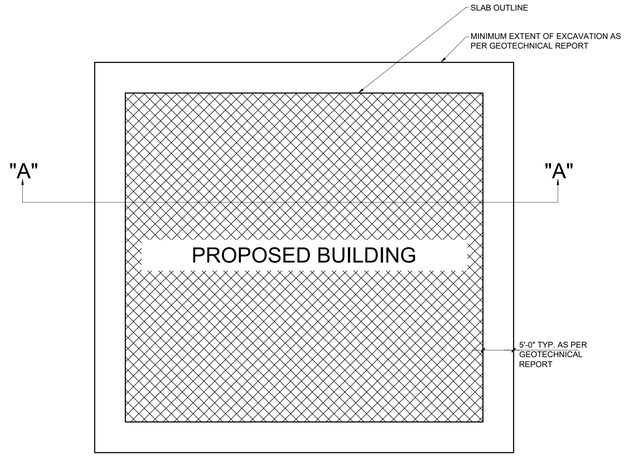
7. SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
   A. ATTERBERG LIMITS OF SELECT FILL MATERIAL:
      (1) ONE TEST PER 5,000 CY
   B. COMPACTION TEST:
      MINIMUM OF (1) ONE TEST PER 2500 SF TO PERFORMED PER LIFT, MINIMUM OF (4) FOUR PER TEST PER LIFT.

8. IF 5' PERIMETER OVER EXCAVATION IS NOT COVERED BY CONCRETE FLATWORK, PROVIDE 2' THICK CLAY CAP IN OVER EXCAVATED ZONE. CLAY CAP SHALL CONSIST OF MATERIAL WITH P.I. RANGE OF 20-35.

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

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

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



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02 EXCAVATION PLAN
SCALE: NTS

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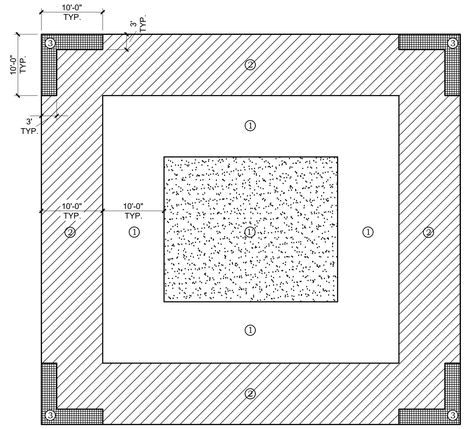


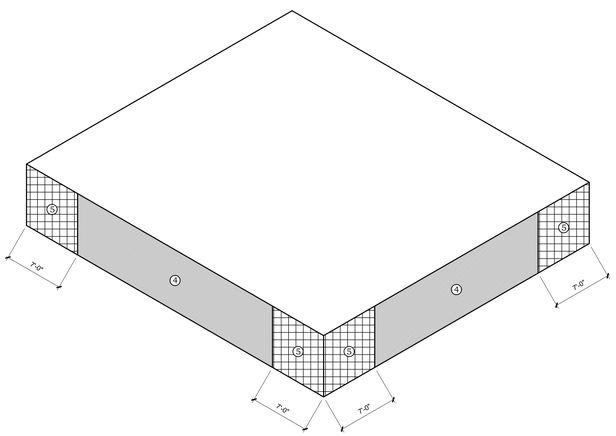
ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	GROSS (ROOFING)	NET (ROOF FRAMING MEMBERS)
10	1	- 25.0 psf	- 19.0 psf
20	1	- 25.0 psf	- 19.0 psf
50	1	- 25.0 psf	- 19.0 psf
100	1	- 25.0 psf	- 19.0 psf
10	1	- 43.0 psf	- 37.0 psf
20	1	- 40.0 psf	- 34.0 psf
50	1	- 36.0 psf	- 30.0 psf
100	1	- 34.0 psf	- 28.0 psf
10	2	- 56.0 psf	- 50.0 psf
20	2	- 53.0 psf	- 47.0 psf
50	2	- 48.0 psf	- 42.0 psf
100	2	- 45.0 psf	- 39.0 psf
10	3	- 56.0 psf	- 50.0 psf
20	3	- 53.0 psf	- 47.0 psf
50	3	- 48.0 psf	- 42.0 psf
100	3	- 45.0 psf	- 39.0 psf

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

PLAN NORTH

01 ROOF UPLIFT PLAN
SCALE: NTS



ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	4	± 27.0 psf
20	4	± 26.0 psf
50	4	± 25.0 psf
100	4	± 23.0 psf
10	5	± 33.0 psf
20	5	± 31.0 psf
50	5	± 28.0 psf
100	5	± 26.0 psf

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

02 COMPONENTS AND CLADDING
SCALE: NTS

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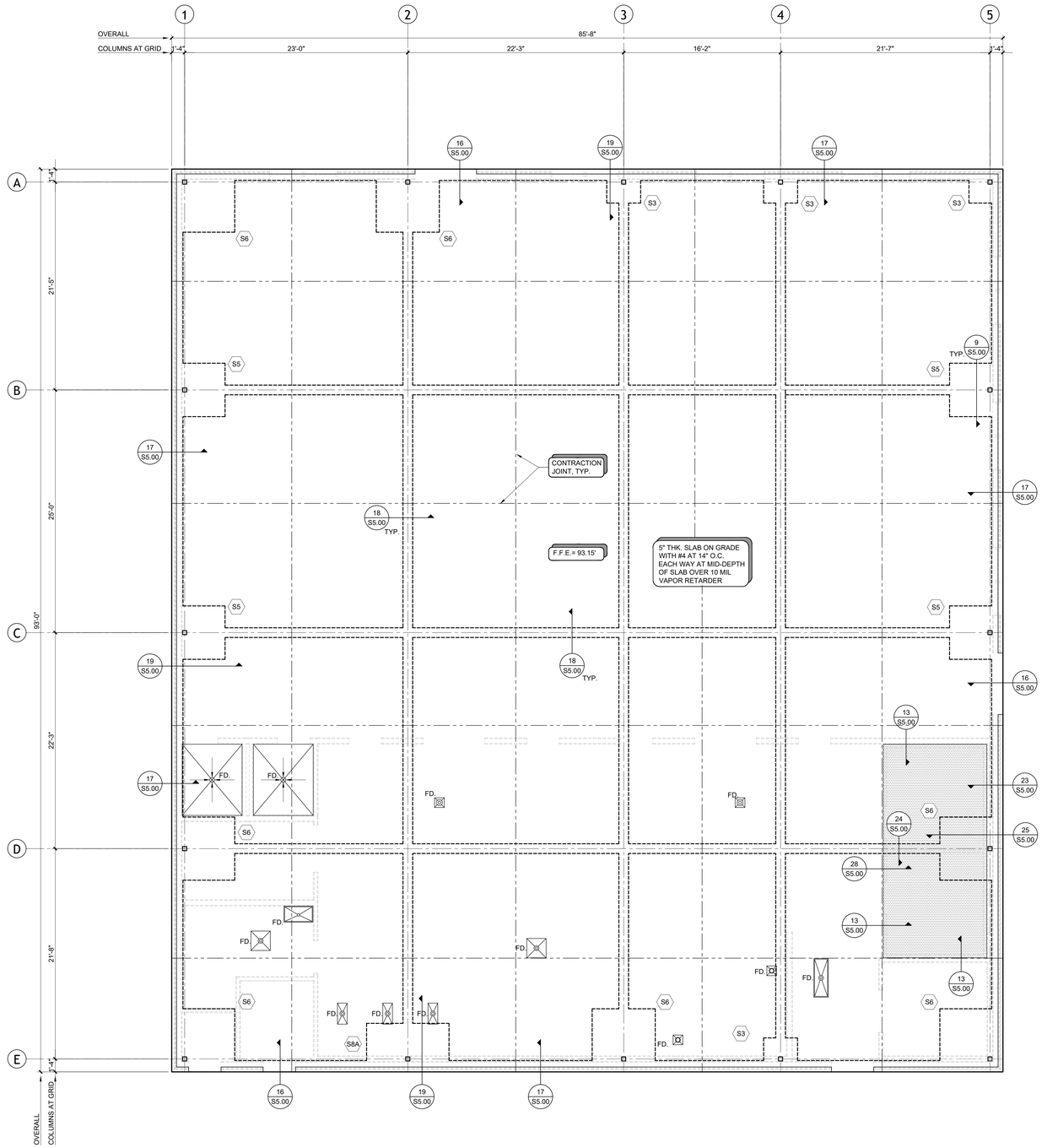

FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL/ PLUMBING DRAWINGS.
3. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 8/S5.00.
4. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL DRAWINGS.
5. REFER TO WALL LAYOUT PLAN, SHEET S3.00 FOR ALL COLUMN SIZES, U.N.O.
6. ▨ INDICATES 8 1/4" SLAB DEPRESSION AT WALK IN COOLER FREEZER, VERIFY EXACT LOCATION AND DEPTH WITH ARCHITECTURAL PLANS.
7. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

PLAN NORTH TRUE NORTH

01 FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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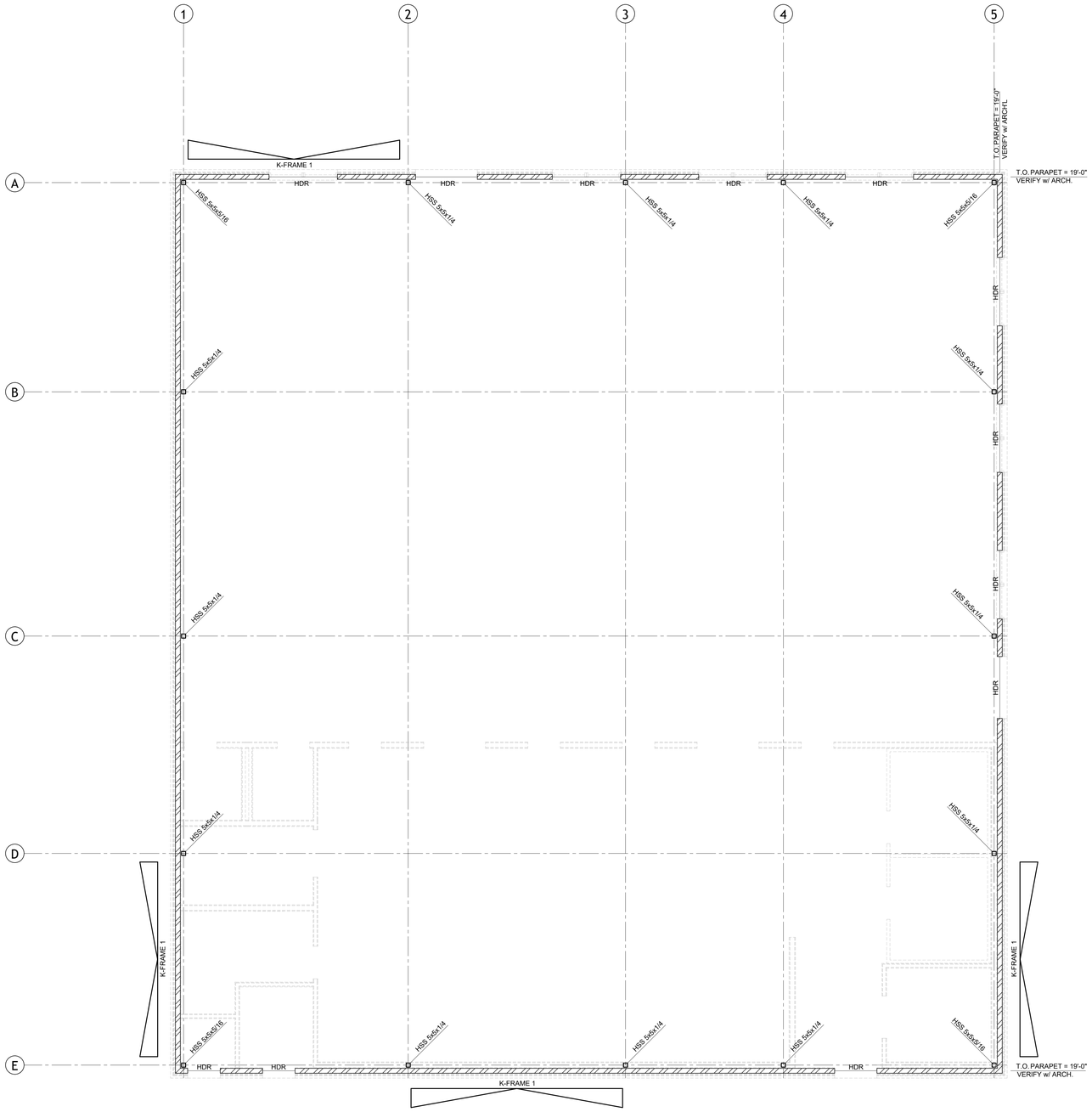

WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL METAL STUD WALL CONSTRUCTION SEE SHEET S5.01
3. ▭▭▭ INDICATES WALL FRAMED WITH 600S162-54 (50 KSI) METAL STUDS AT 12" O.C., U.N.O.
4. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
5. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN METAL STUD WALLS.
7. ◺ INDICATES K-FRAME 1 SEE DETAIL 11/S5.02

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01 WALL LAYOUT PLAN

SCALE: 3/16" = 1'-0"

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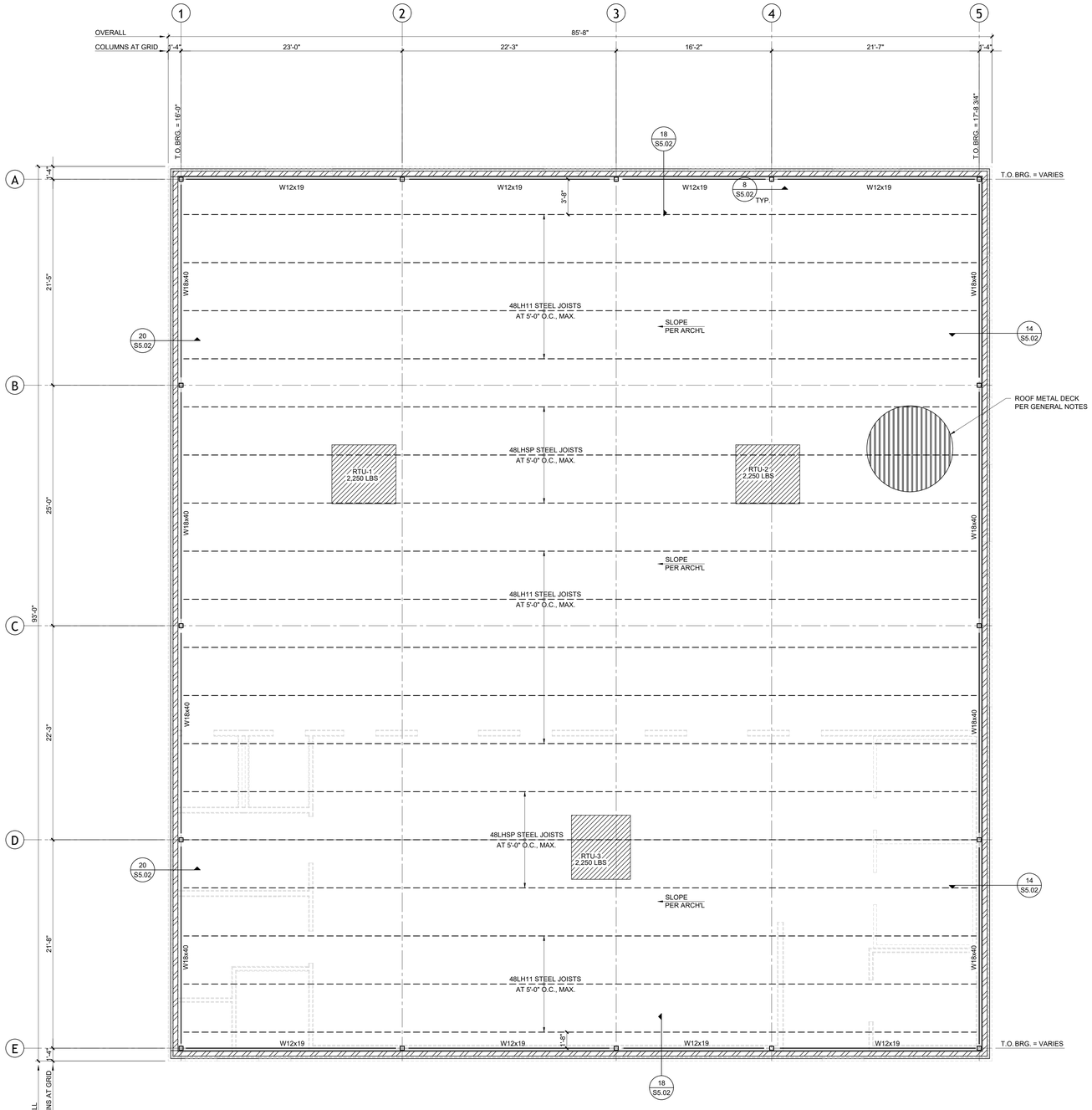

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOISTS AS REQUIRED BY S.J.I.
5 CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.

PLAN NORTH TRUE NORTH

01 ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

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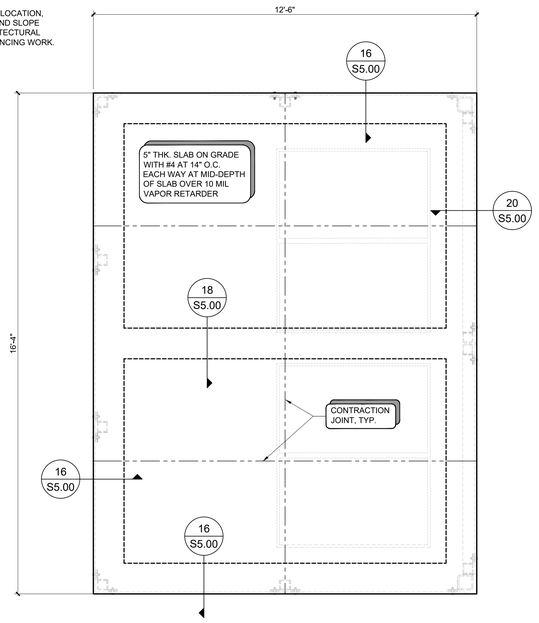
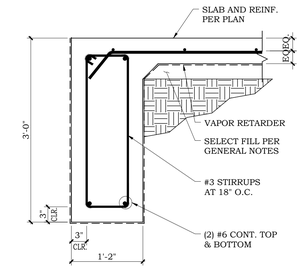
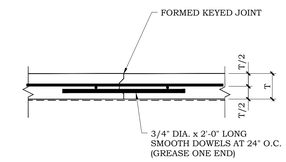
NOTE:
1. CONTRACTOR SHALL VERIFY LOCATION, ORIENTATION, DIMENSIONS AND SLOPE REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING WORK.



FOUNDATION PLAN - DUMPSTER ENCLOSURE | 22

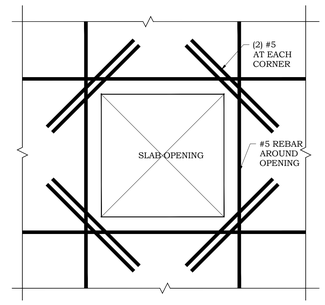


EXTERIOR GRADE BEAM | 16



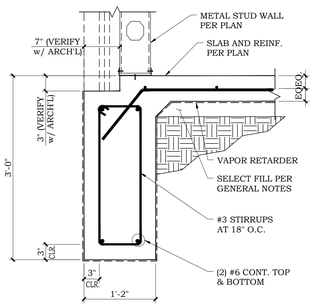
1. CONTRACTOR TO SUBMIT ANY PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. GRADE BEAM REINFORCING SHALL BE CONTINUOUS THRU JOINT

CONSTRUCTION JOINT DETAIL | 11

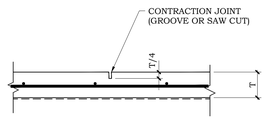


OPENINGS IN SLAB | 6

NOT USED | 1



EXTERIOR GRADE BEAM | 17

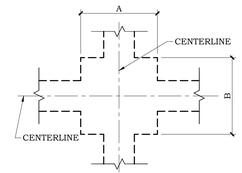


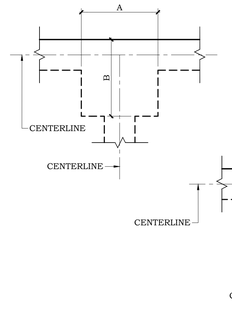
1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

CONTRACTION JOINT DETAIL | 12

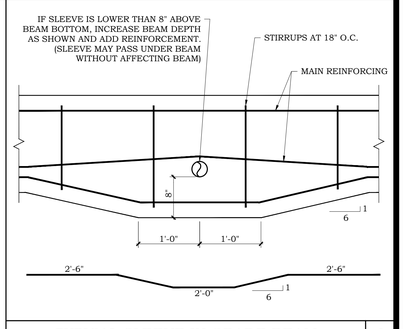
FOOTING SCHEDULE AT STEEL COLUMNS

TYPE	A	B	DEPTH	REBAR REINFORCEMENT
S3	3'-6"	3'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S4	4'-6"	4'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S5	5'-6"	5'-6"	3'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM
S6	6'-6"	6'-6"	3'-0"	#6'S @ 12" O.C. E.W. TOP & BOTTOM
S8A	8'-6"	5'-0"	3'-0"	#6'S @ 12" O.C. E.W. TOP & BOTTOM

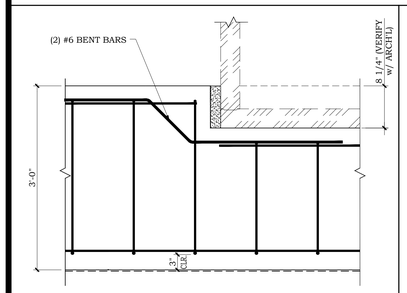




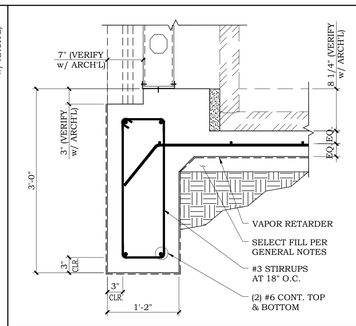
FOOTING SCHEDULE | 8



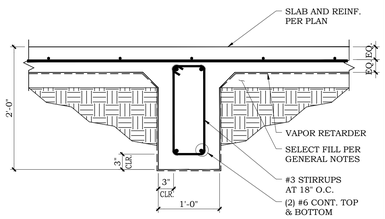
TYPICAL SLEEVE IN GRADE BEAM | 2



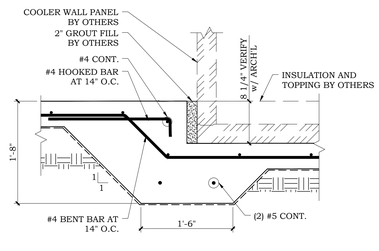
GRADE BEAM TRANSITION DETAIL | 28



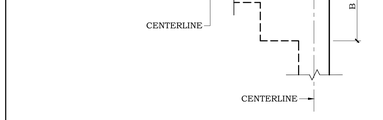
EXTERIOR GRADE BEAM | 23



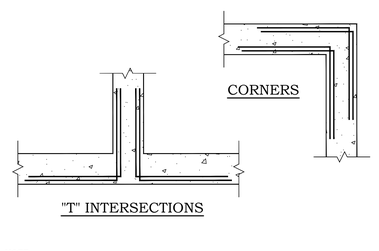
INTERIOR GRADE BEAM | 18



DROP AT SLAB ON GRADE | 13



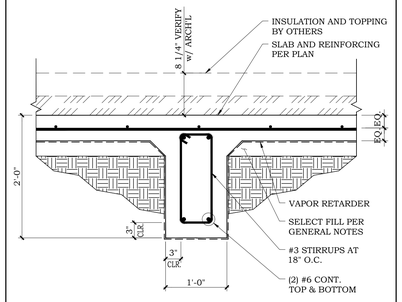
FOOTING SCHEDULE | 8



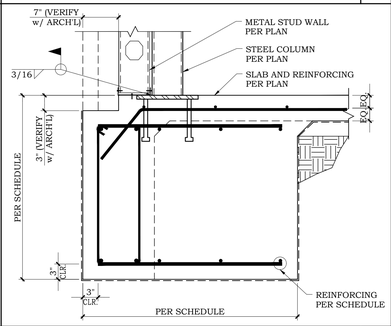
NOTE:
PROVIDE (4) #6 x 6'-0" CORNER BARS
(2-TOP & 2-BOTTOM) AS SHOWN IN DETAILS ABOVE

TYPICAL CORNER BARS | 3

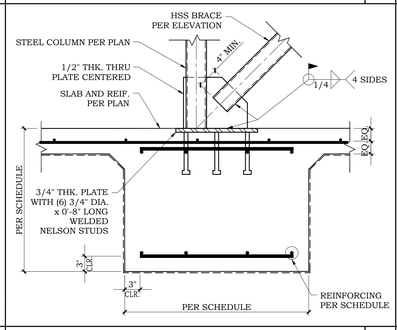
NOT USED | 29



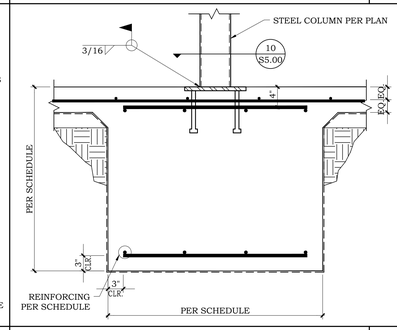
INTERIOR GRADE BEAM | 24



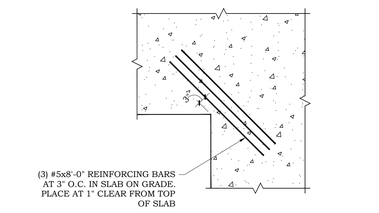
FOOTING AT STEEL COLUMN | 19



K-FRAME DETAIL | 14

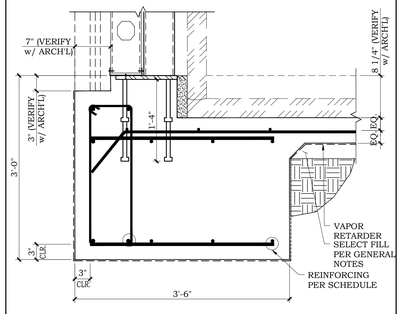


FOOTING AT STEEL COLUMN | 9

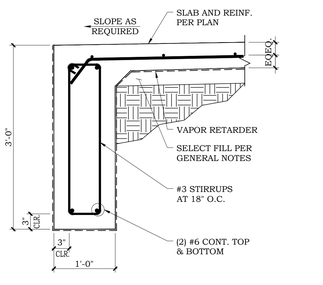


TYPICAL SLAB REINFORCING | 4

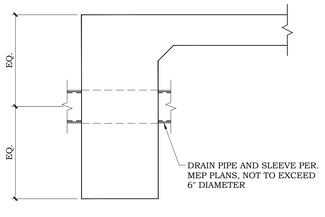
NOT USED | 23



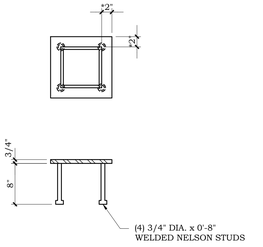
EXTERIOR GRADE BEAM | 25



EXTERIOR GRADE BEAM | 20

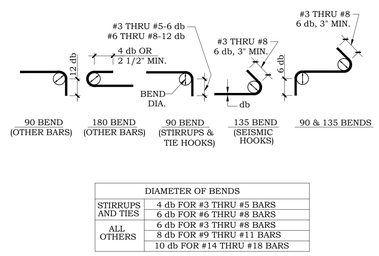


PIPE EXTERIOR FOOTING | 15



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

BASE PLATE DETAIL | 10



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

STANDARD HOOKS | 5

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LICENSED PROFESSIONAL ENGINEER
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Job No.	24214
Sheet:	S5.00

NOT USED 26

NOT USED 27

NOT USED 28

NOT USED 29

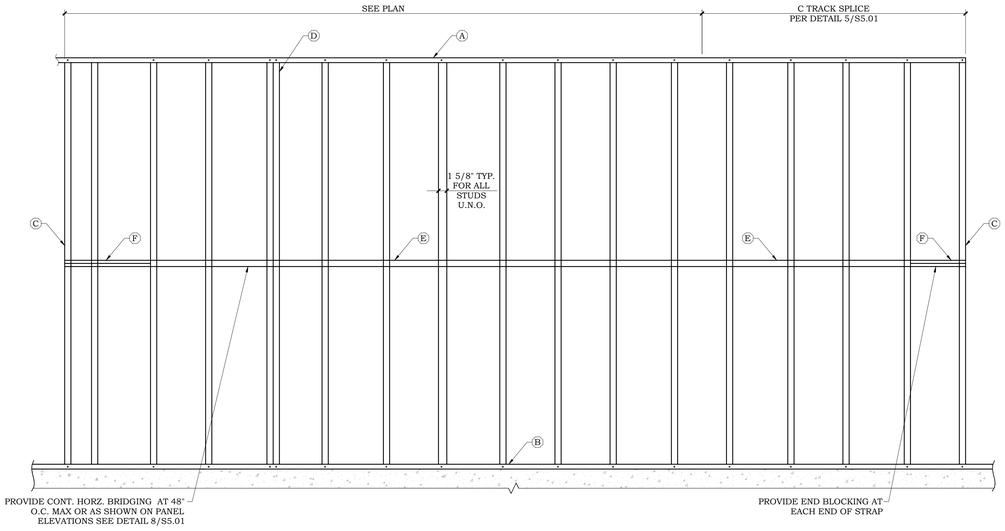
NOT USED 23

MARK	DESCRIPTION	SIZE(*)
A.	TOP TRACK	6" x 16 Ga.
B.	BOTTOM TRACK	600T125-54
C.	STUD	600S162-54 U.N.O
D.	DOUBLE STUD	600S162-54
E.	BRIDGING	150U50-54
F.	BLOCKING	600S162-54

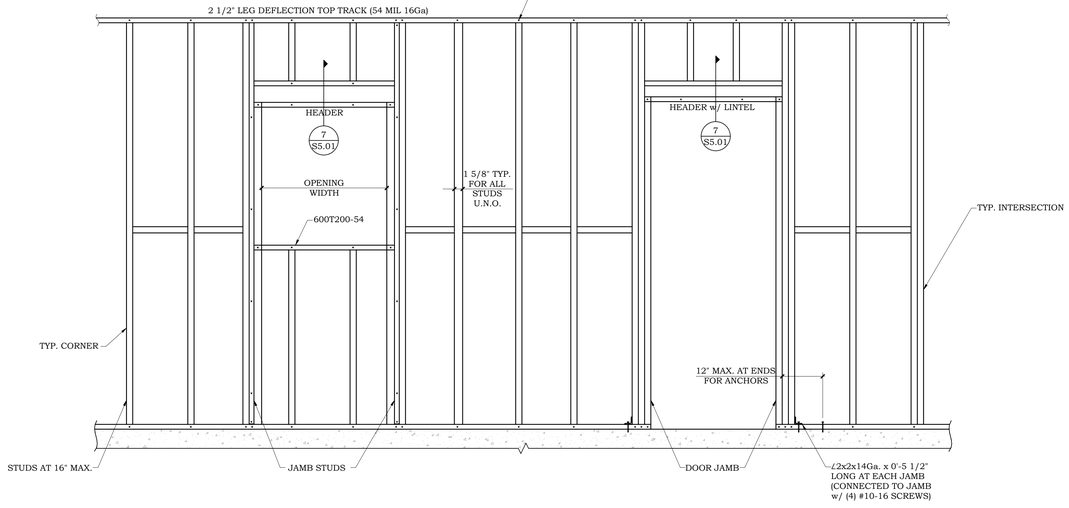
NOTE:
1. MEMBER SIZES SHOWN IN THIS DETAIL ARE TYPICAL EXCEPT AS OTHERWISE SHOWN ON THE PLAN OR SPECIFIC PANEL ELEVATIONS.

2. ALL STUDS SHALL BE SPACED AT 16" O.C. EXCEPT AS SHOWN OTHERWISE AND AS NOTED BELOW.

3. LOAD BEARING STUDS SHALL BE SPACED SO AS TO FALL DIRECTLY UNDER ROOF TRUSSES / RAFTERS OR UNDER FLOOR JOISTS.



EXTERIOR METAL STUD WALL ELEVATION 10

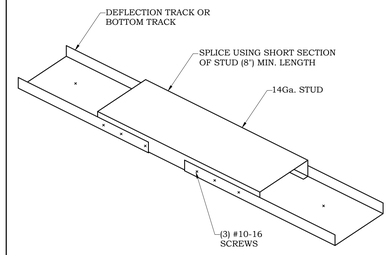


EXTERIOR METAL STUD WALL ELEVATION WITH OPENING 12

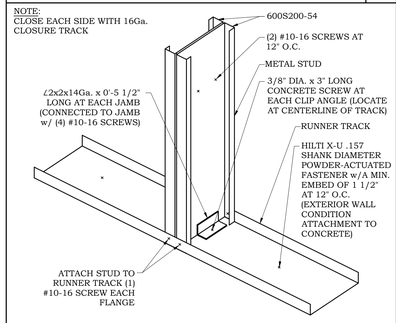
NOT USED 25

NOT USED 20

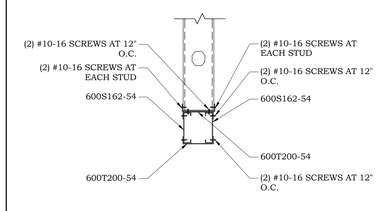
NOT USED 15



RUNNER TRACK SPLICE 5

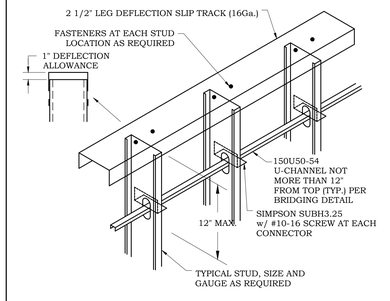


DOUBLE STUD ATTACHMENT TO RUNNER TRACK 6

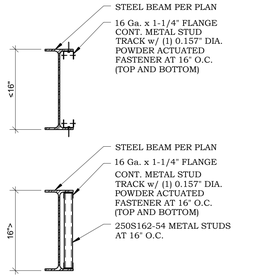


NOTE: FOR JAMB CONNECTION SEE DETAIL 4/S5.01

BOXED HEADER 7

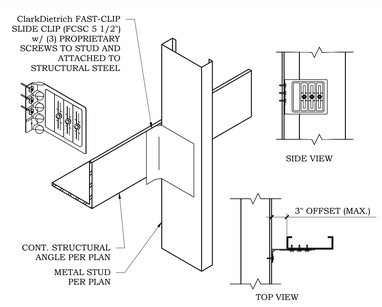


U-CHANNEL TO TYPICAL STUDS 8

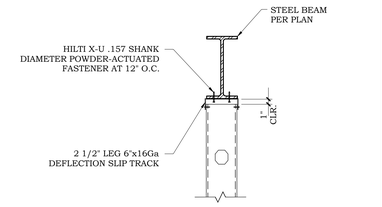


STEEL BEAM INFILL STUD DETAIL 10

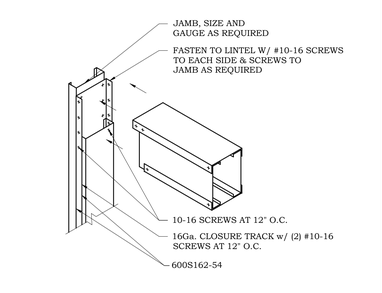
NOT USED 1



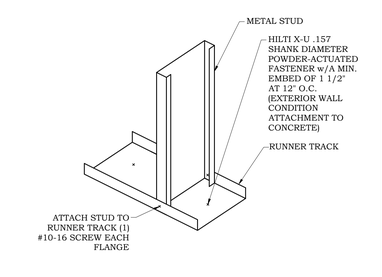
SLIDE CLIP DETAIL 2



BOXED HEADER TO JAMB CONNECTION 4



STUD ATTACHMENT TO RUNNER TRACK 5



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EDINBURG, TEXAS

IDEA Public Schools

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Job No:	24214
Sheet:	S5.01

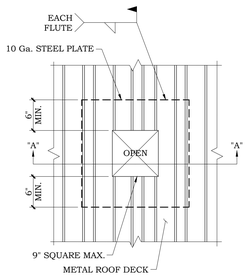
NOT USED 26

NOT USED 27

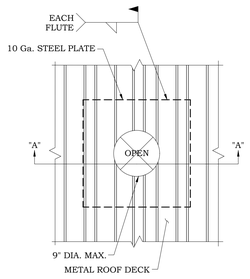
NOT USED 28

NOT USED 29

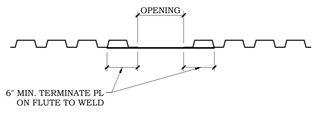
NOT USED 30



SQ OR RECTANGULAR HOLES



ROUND HOLES



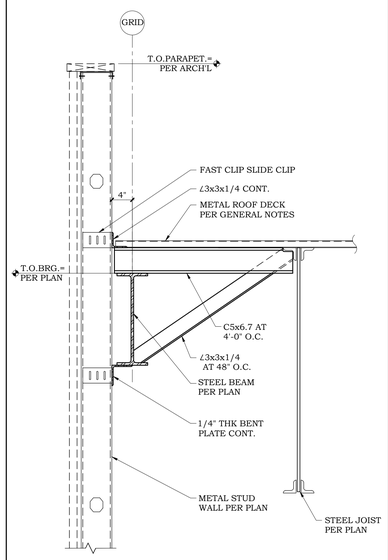
SECTION "A"-"A"

NOTE:
PLATE MAY BE LOCATED ABOVE DECK AT CONTRACTOR'S OPTION.

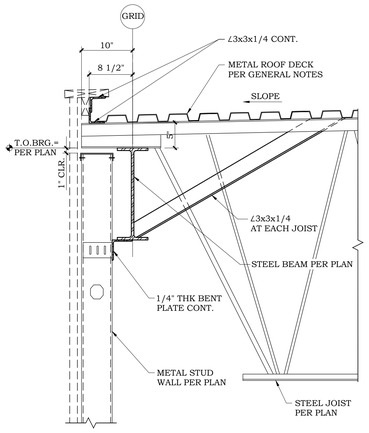
SMALL OPENING IN BARE METAL DECK 23

NOT USED 24

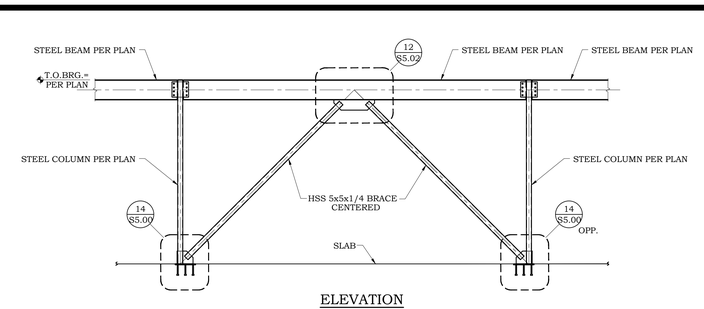
NOT USED 25



STEEL JOIST TO STEEL BEAM 18

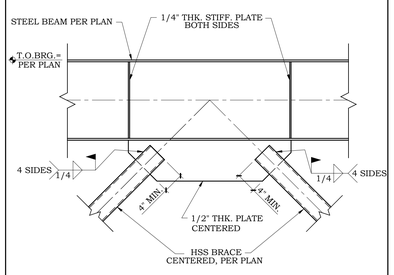


STEEL JOIST TO STEEL BEAM 20

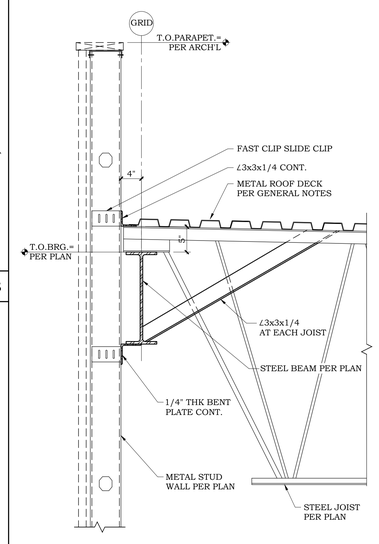


ELEVATION

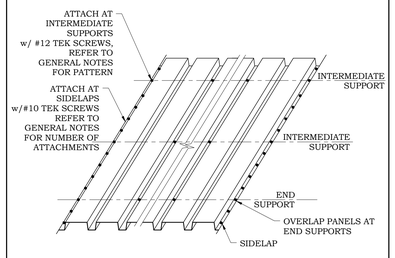
K-FRAME 1 11



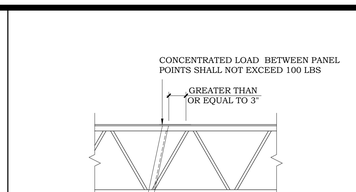
K-FRAME DETAIL 12



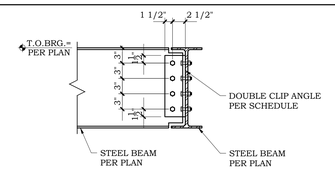
STEEL JOIST TO STEEL BEAM 14



TYPICAL METAL DECK ATTACHMENT 15

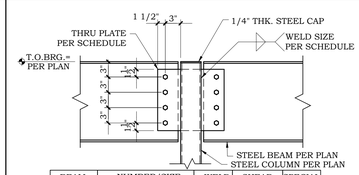


JOIST BRACING AT CONCENTRATED LOAD 6



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

STEEL BEAM TO STEEL BEAM CONNECTION 7



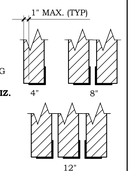
BEAM SIZE	NUMBER/SIZE OF BOLTS	WELD SIZE	SHEAR PLATE	SPECIAL NOTES
W8, W10	(2) 3/4" DIA. A325	3/16"	1/2" THK.	-
W12, W14	(3) 3/4" DIA. A325	3/16"	1/2" THK.	-
W16	(4) 3/4" DIA. A325	1/4"	1/2" THK.	-
W18	(5) 3/4" DIA. A325	1/4"	1/2" THK.	-
W21	(6) 3/4" DIA. A325	1/4"	1/2" THK.	-
W24	(7) 3/4" DIA. A325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

STEEL COLUMN TO STEEL BEAM CONNECTION 8

STEEL LINTEL SCHEDULE

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

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

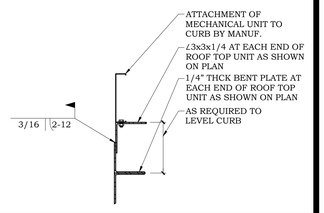


TYPICAL LINTEL DETAILS
- FOR SUPPORT OF MASONRY WEIGHT ONLY.
- DEFLECTION AT ℄ L/600.
- LINTELS SHALL BE GALVANIZED STEEL.

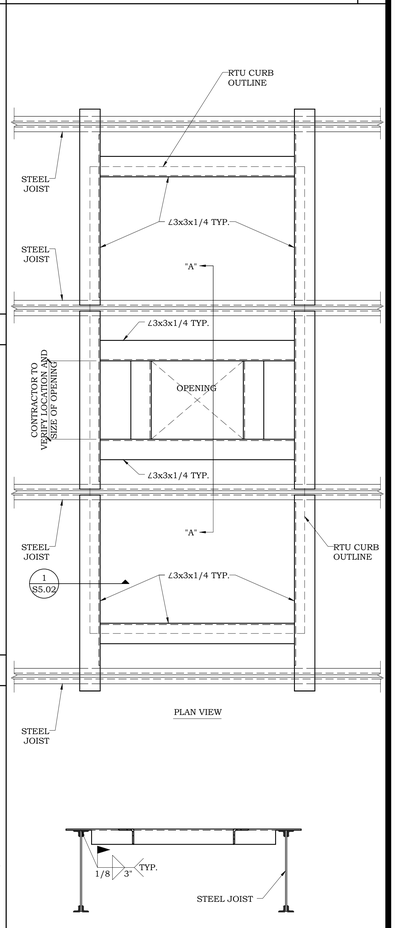
STEEL LINTEL SCHEDULE 9

TYPICAL ROOF EDGE ANGLE SPLICE DETAIL 10

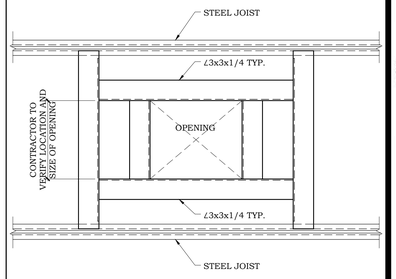
MECHANICAL CURB TO STEEL ANGLE 1



SUPPORT FOR MECHANICAL UNIT 4



SUPPORT FOR METAL DECK OPENING 5



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Sheet:	S5.02

GENERAL LEGEND

MECHANICAL

GENERAL MECHANICAL NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

O. PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED FOR SHUT DOWN BY DIVISION 26. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

ELECTRICAL

GENERAL ELECTRICAL LIGHTING NOTES:

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

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

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

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

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

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

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

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

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

GENERAL ELECTRICAL POWER NOTES:

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

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

GENERAL ELECTRICAL SITE NOTES:

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

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

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

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

SPECIAL SYSTEMS

GENERAL SPECIAL SYSTEMS NOTES:

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

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

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

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

E. ALL CABLES ABOVE CEILING SHALL BE PLENUM RATED.

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

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

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

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

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

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

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

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

PLUMBING

GENERAL PLUMBING NOTES:

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

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

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

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

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

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

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

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

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

J. ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 20' AWAY FROM ANY OUTSIDE AIR INTAKE.

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

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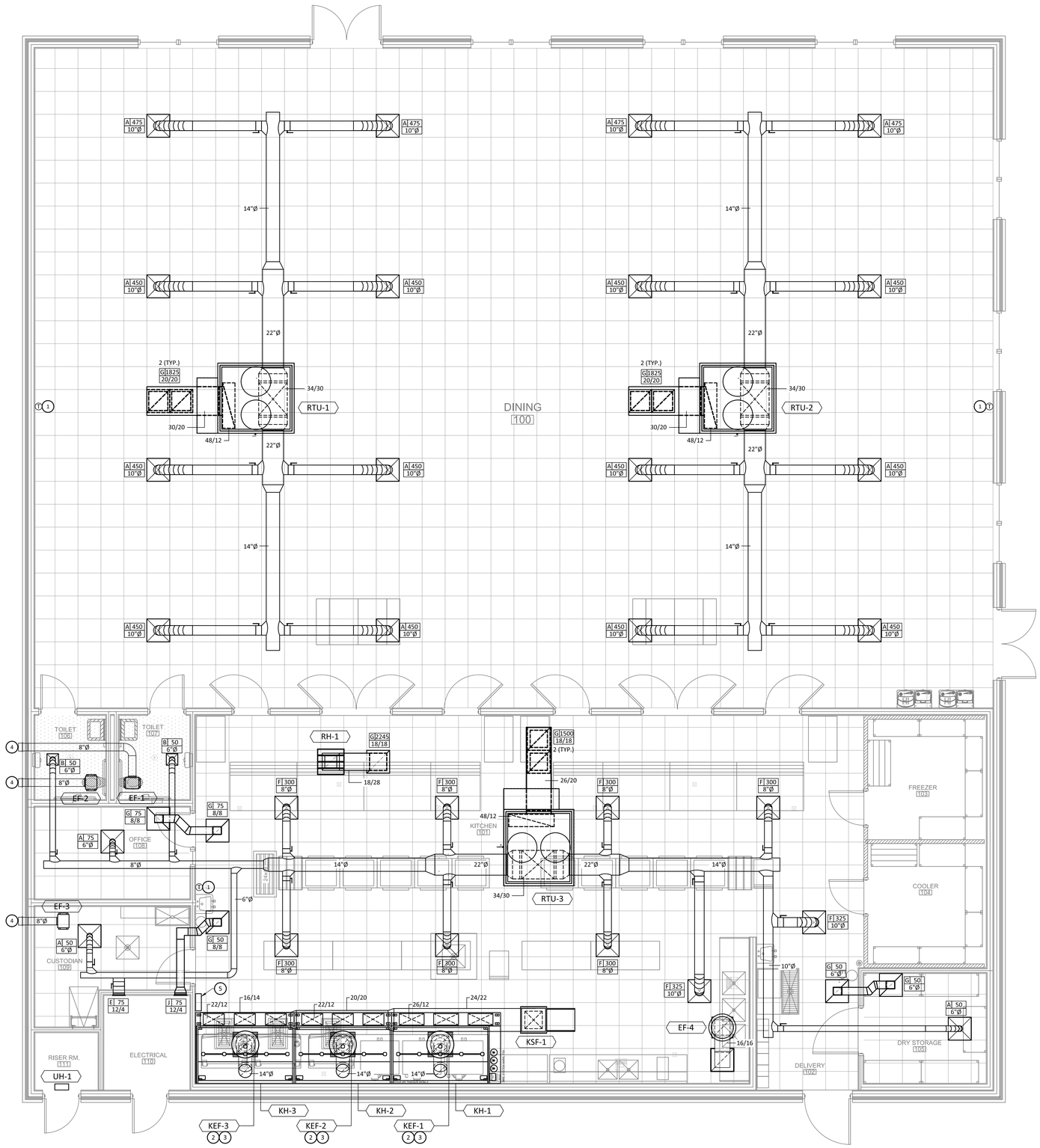

1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. CONTRACTOR SHALL ENGAGE JOHNSON CONTROLS, INC. FOR INSTALLATION OF NEW JCI METASYS CONTROLS AND TO TIE IN SEAMLESSLY TO EXISTING JCI METASYS DDC SYSTEM.

C. PROVIDE FLEXIBLE DUCT CONNECTIONS AT AIR HANDLING UNIT AND EXHAUST FANS CONNECTIONS.

D. DUCT WORK ROUTING SHOWN IS DIAGRAMMATIC IN NATURE. FIELD VERIFY STRUCTURE AND SPACE AVAILABILITY PRIOR TO SUBMITTING SHOP DRAWINGS. COORDINATE WITH ENGINEER IN CASE OF CONFLICTS.

KEY NOTES: (x)

1. PROVIDE COMBO TEMPERATURE, RELATIVE HUMIDITY, CO2 SENSOR, AND VANDAL PROOF ENCLOSURE.
2. PRE-FABRICATED GREASE DUCT SHALL BE A LISTED VENTILATION SYSTEM EXHAUST DUCT. REFER TO SPECIFICATIONS.
3. PROVIDE MANUAL BALANCING DAMPER AT EACH SUPPLY DUCT DROP SERVING KITCHEN HOODS. TEST, ADJUST, AND BALANCE CONTRACTOR SHALL BALANCE EACH SUPPLY INLET TO THE CFM VALUES INDICATED ON KITCHEN HOOD SCHEDULE.
4. PROVIDE HOODED WALL CAP. SEAL WALL PENETRATION VAPOR TIGHT.
5. FURNISH AND INSTALL KITCHEN HOOD CONTROLS CABINET 80-INCHES ABOVE FINISH FLOOR.

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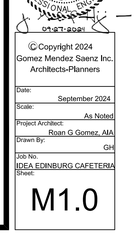

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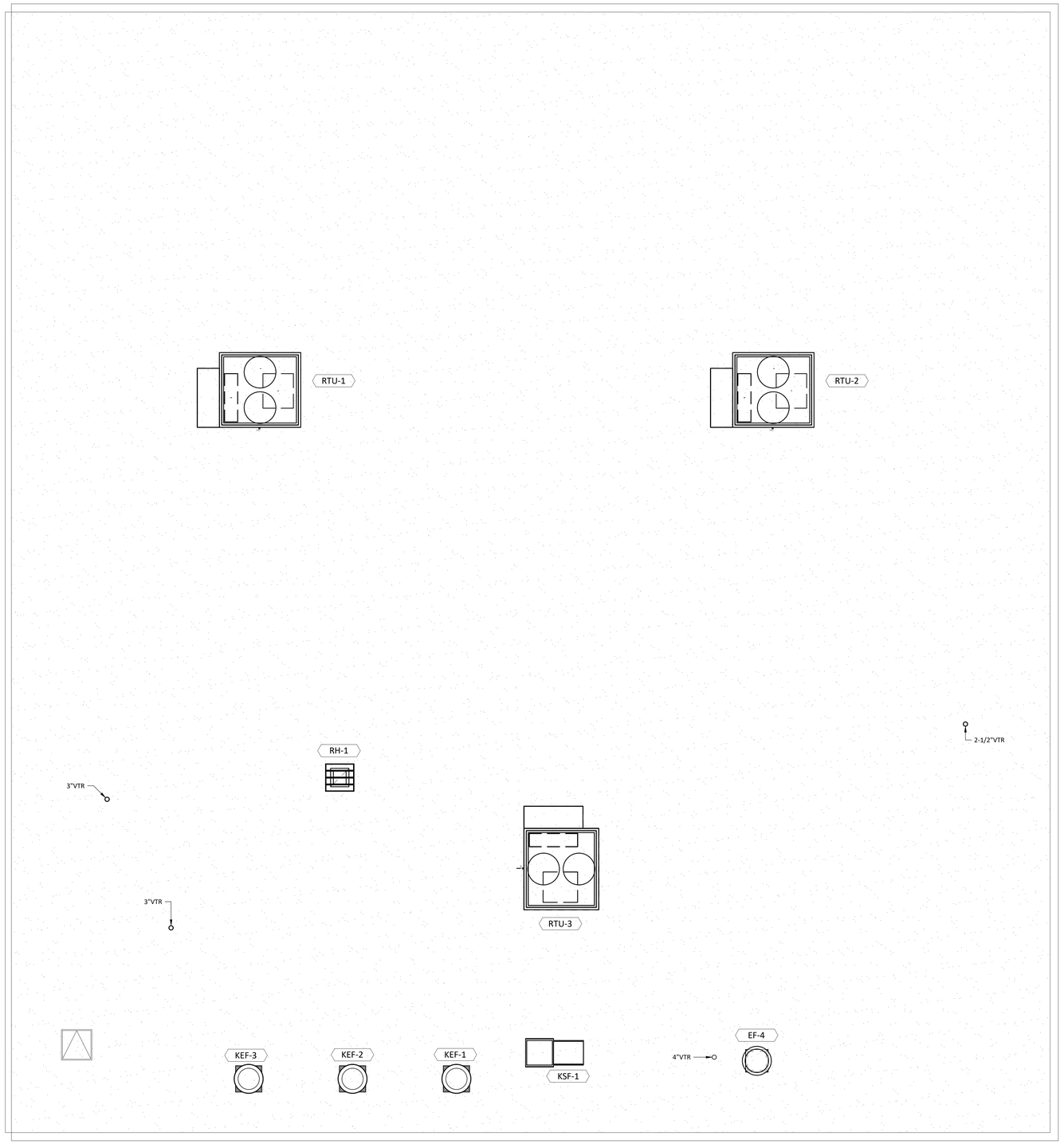

1 MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. DELEGATED DESIGN: PROVIDE DELEGATED DESIGN SUBMITTAL FOR ALL MATERIAL AND EQUIPMENT ATTACHMENTS ON THE ROOF SUCH AS EQUIPMENT TO CURB AND CURB TO STRUCTURE, WHERE NECESSITATED BY WINDSTORM REQUIREMENTS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED BELOW:

- BUILDING CLASSIFICATION: GROUP E
- RISK CATEGORY: III.
- EXPOSURE CATEGORY: B.
- ULTIMATE DESIGN WIND SPEED (3-SECOND GUST): 140 MPH

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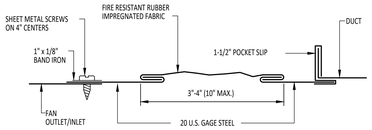

1 FLEXIBLE CONNECTION DETAIL
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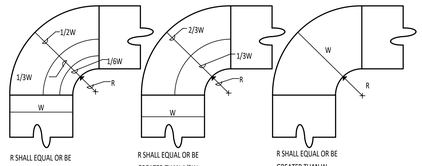
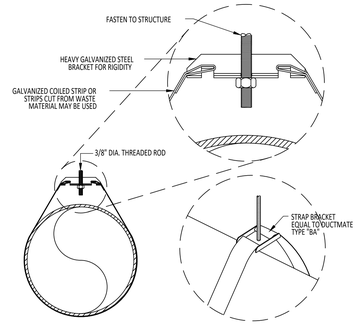
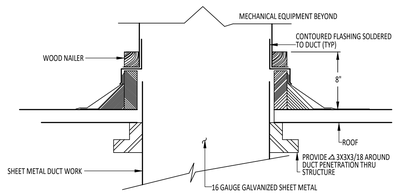


NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

2 RADIUS DUCT ELBOW DETAIL
SCALE:N.T.S.

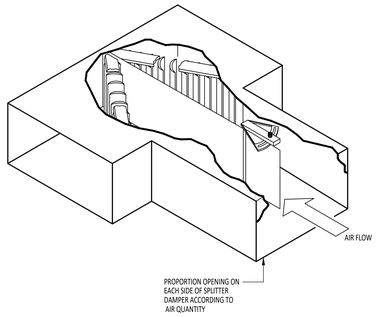


3 ROUND DUCT STRAP BRACKET
SCALE:N.T.S.

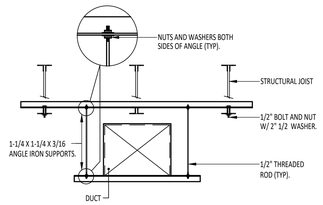


NOTE: PENETRATIONS THROUGH SKYLIGHTS SHALL BE MADE WATERPROOF. SEAL OPEN AREAS OF SKYLIGHT WITH SHEETMETAL AND PROVIDE SHEETMETAL CANT ANGLED TO DRAIN WATER AWAY FROM DUCT PENETRATION AND ONTO ROOF. ALL PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH SMACNA MANUAL OR AS APPROVED BY THE CONTRACTING OFFICER.

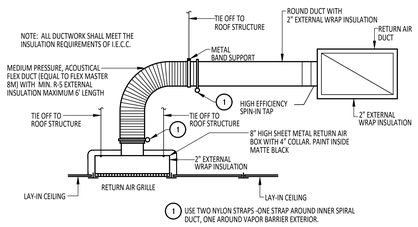
4 DUCT ROOF PENETRATION
SCALE:N.T.S.



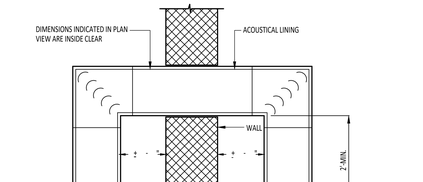
5 TYPICAL SPLITTER DAMPER
SCALE:N.T.S.



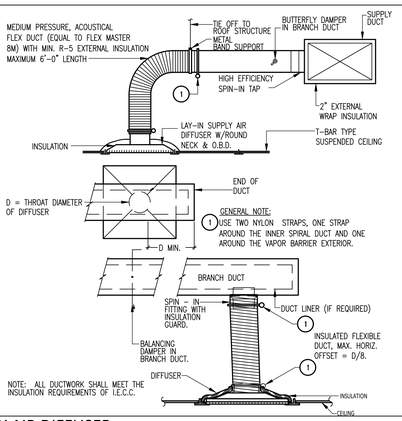
6 DUCT HANGER DETAIL
SCALE:N.T.S.



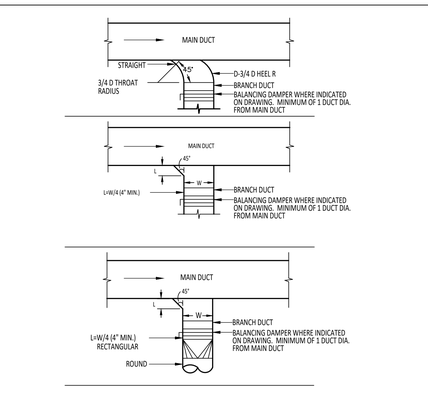
7 RETURN AIR GRILLE BOX CONNECTION
SCALE:N.T.S.



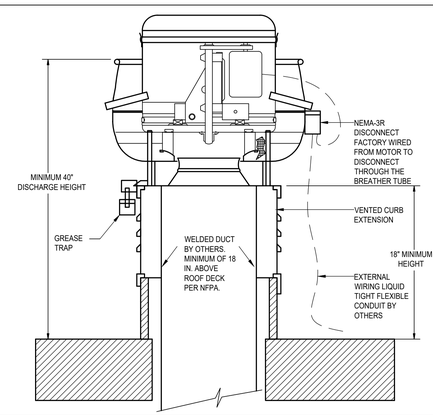
8 TRANSFER DUCT DETAIL
SCALE:N.T.S.



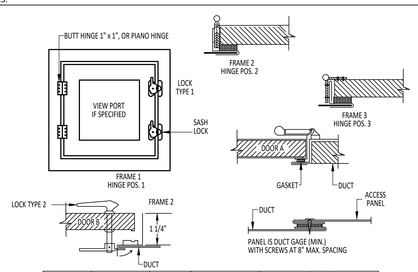
10 SUPPLY AIR DIFFUSER
SCALE:N.T.S.



11 TYPICAL BRANCH CONNECTION
SCALE:N.T.S.



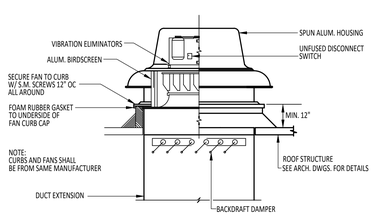
12 TYPICAL BRANCH CONNECTION
SCALE:N.T.S.



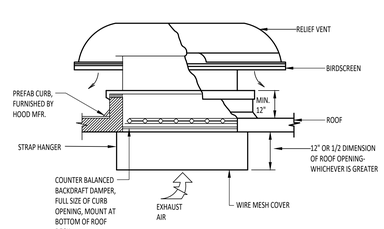
	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	12" x 12" 16" x 20" 24" x 24"	2 2 3	1-S 2-S 2-S	24 22 22	26 24 22	26 26 26
3" W.G. STATIC	12" x 12" 16" x 20" 24" x 24"	2 2 3	1-S 1-S,1-T,1-B 2-S,1-T,1-B	22 20 20	22 20 20	26 26 24
4" W.G. TO 10" W.G.	12" x 12" 16" x 20"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

S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM

9 DUCT ACCESS DOOR DETAIL
SCALE:N.T.S.



13 ROOF MOUNTED CENTRIFUGAL EXHAUST FAN DOWNBLAST
SCALE:N.T.S.



14 TYPICAL RELIEF HOOD DETAIL
SCALE:N.T.S.

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IDEA-EDINBURG CAMPUS
COLLEGE PREPARATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

STATE OF TEXAS
GABRIEL HINOJOSA
96585
LICENSED
PROFESSIONAL
ENGINEER
04-01-2025

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Date:	September 2024
Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	GH
Job No.	IDEA EDINBURG CAFETERIA
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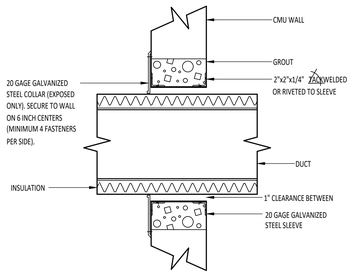
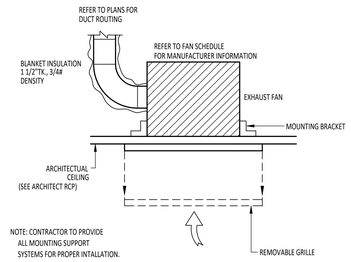


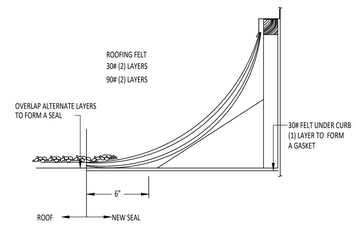
1 DUCT PENETRATION THRU WALL

SCALE: N.T.S.



2 CEILING MOUNTED EXHAUST FAN

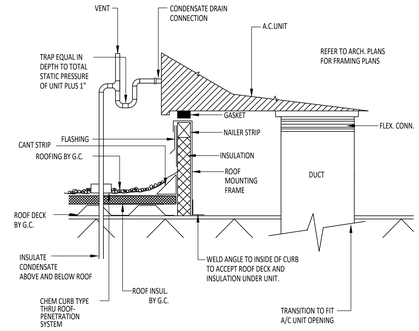
SCALE: N.T.S.



*CURB SEAL - USE WHEN NOT SPECIFIED OTHERWISE BY ARCHITECTURAL

3 CURB SEAL

SCALE: N.T.S.



4 ROOF TOP UNIT MOUNTING

SCALE: N.T.S.

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COLLEGE PREPARATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

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Date: September 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No.
IDEA EDINBURG CAFETERIA
Sheet:

M2.1

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McAllen, Texas 78501

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KH-1	GXEW-102-S	102	60	24	430 SS WHERE EXPOSED	HEAVY	1800			14	1800	0.582	1544		634	LEFT
2	KH-2	GXEW-102-S	102	60	24	430 SS WHERE EXPOSED	HEAVY	1800			14	1800	0.582	1381		365	MIDDLE
3	KH-3	GXEW-102-S	102	60	24	430 SS WHERE EXPOSED	HEAVY	1800			14	1800	0.582	1395		369	RIGHT

HOOD INFORMATION

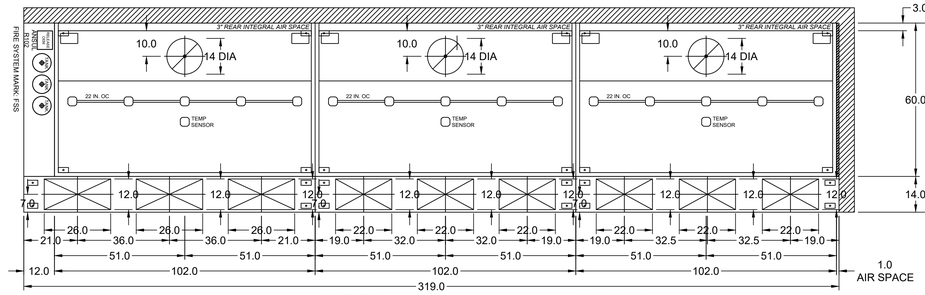
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KH-1	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	5	48.41	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	5	16	20	LEFT	ANSUL R102	9		
						1	20						
2	KH-2	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	5	48.41	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	5	16	20					
						1	20						
3	KH-3	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	5	48.41	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	5	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KH-1	FRONT	ASP	114	14	4	NO	YES	NO		1544	0.01	MUA	FACTORY	3	12	26		515	238
2	KH-2	FRONT	ASP	102	14	4	NO	YES	NO		1381	0.01	MUA	FACTORY	3	12	22		460	251
3	KH-3	FRONT	ASP	103	14	4	NO	YES	NO		1395	0.01	MUA	FACTORY	3	12	22		465	254

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT - FIELD INSTALLED
- CONTINUOUS CAPTURE
- FACTORY MOUNTED EXHAUST COLLAR(S)
- EXHAUST AIR BALANCING BAFFLE(S) - (EABB)
- BACKSPLASH 80.00 IN HIGH 319.00 IN LONG
- RIGHT SIDESPLASH 80.00 IN HIGH 60.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

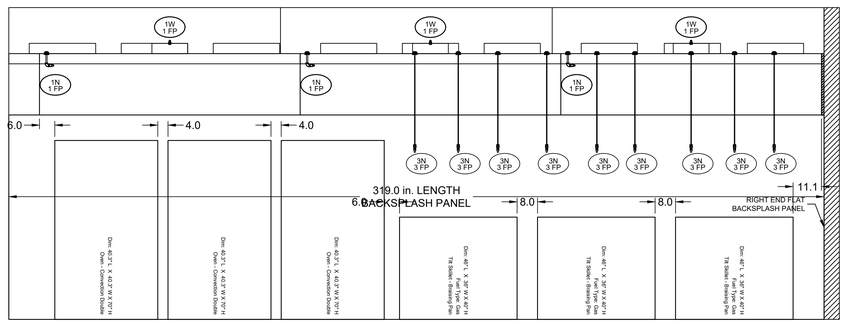


Fire (piping/drops/nozzles/etc.) subject to change. As built's can be provided at time of order and included with product shipment

MARK: KH-1
PLAN VIEW

MARK: KH-2
PLAN VIEW

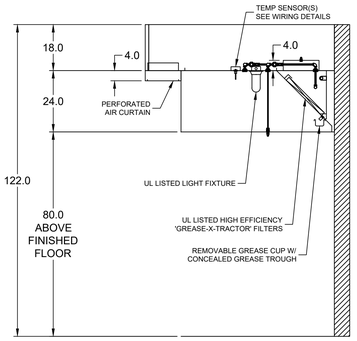
MARK: KH-3
PLAN VIEW



MARK: KH-1
ELEVATION VIEW

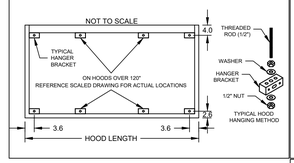
MARK: KH-2
ELEVATION VIEW

MARK: KH-3
ELEVATION VIEW

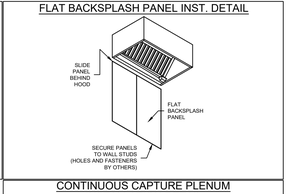


MARK: Hood 1 (LAST HOOD IN ROW)
SECTION VIEW

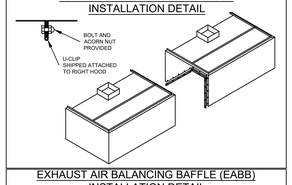
HOOD HANGER BRACKET DETAIL



FLAT BACKSPLASH PANEL INST. DETAIL



CONTINUOUS CAPTURE PLENUM INSTALLATION DETAIL

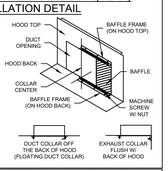


EXHAUST AIR BALANCING BAFFLE (EABB) INSTALLATION DETAIL

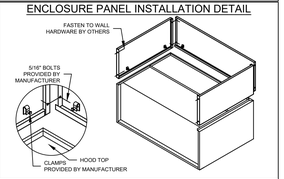
NOTES:
THE EABB IS DESIGNED TO BALANCE THE AIR VOLUME BETWEEN MULTIPLE HOODS ON THE SAME FAN. THE BAFFLE HAS THE CAPACITY TO CLOSE OFF UPTO 50% OF THE EXHAUST COLLAR.

IF DUCT COLLARS ARE SHIPPED LOOSE, THE EABB WILL BE SIZED TO THE EXHAUST COLLAR(S) SPECIFIED ON THE HOOD EQUIPMENT SCHEDULE. EABB IS TO BE INSTALLED AFTER THE DUCT COLLAR IS WELDED TO THE HOOD.

ASSEMBLE BOTH BAFFLE FRAMES TO THE BAFFLE IN THE OPEN POSITION. LINE UP EDGE OF BAFFLE WITH EDGE OF OPENING. PLUG WELD THE FRAMES TO THE HOOD TOP OR BACK.

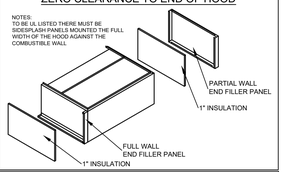


ENCLOSURE PANEL INSTALLATION DETAIL



ZERO CLEARANCE TO END OF HOOD

NOTES:
TO BE UL LISTED THERE MUST BE SIDESPLASH PANELS MOUNTED THE FULL WIDTH OF THE HOOD AGAINST THE COMBUSTIBLE WALL.



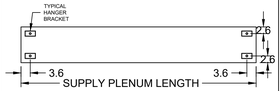
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

SUPPLY PLENUM HANGER BRACKET DETAIL



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09-27-2024

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Date: September 2024
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Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
Sheet: M2.2

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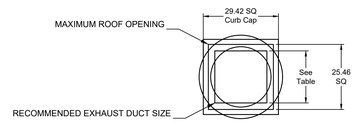
1 KITCHEN HOOD SCHEDULE AND DETAILS
SCALE: N.T.S.

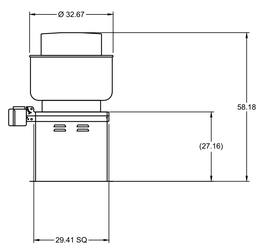
Direct Drive Upblast Centrifugal Roof Exhaust Fan

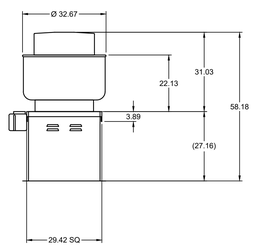
MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	CUE-140-VG	1,800	1.25	1,558	0.69	91	1	115/60/1	TN	1725	1	16
1	KEF-2	CUE-140-VG	1,800	1.25	1,558	0.69	91	1	115/60/1	TN	1725	1	16
1	KEF-3	CUE-140-VG	1,800	1.25	1,558	0.69	91	1	115/60/1	TN	1725	1	16

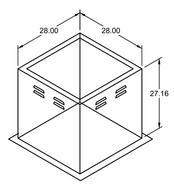
KEF-1 : SELECTED OPTIONS AND ACCESSORIES
Larger Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Clean-out Port - Factory Installed
Aluminum Wheel Material
Conduit Chase Qty 1



DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ







DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

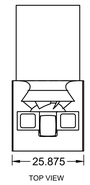
OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.

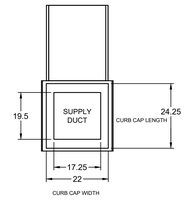
1 KITCHEN HOOD EXHAUST FAN SCHEDULE AND DETAILS
SCALE: N.T.S.

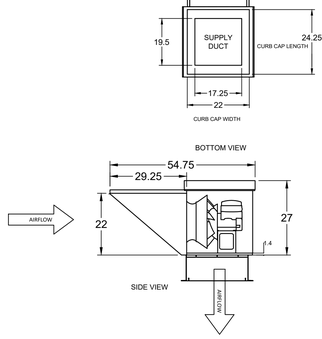
Direct Drive Mixed Flow Filtered Roof Supply Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION				
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS
1	KSF-1	KSQ-15-M2-VG	4,320	0.5	2,075	1.7	221	3	208/60/3	TF	2207	1

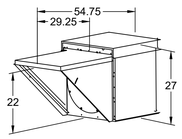
KSF-1 : SELECTED OPTIONS AND ACCESSORIES
Provided motor meets the motor efficiency requirements set forth in 2024 Title 24/California
Horizontal Weatherhood Intake, Bottom (Curb Mounted) Discharge
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-3R, Toggle, Shipped Separate
Damper Shipped Loose, WD-200-PB-17.25X19.5, Not Coated
Aluminum Mixed Flow Wheel
Galvanized Inlet Cone Material
1 in. Aluminum Primary Filter (PN: 486083), Shipped Separate

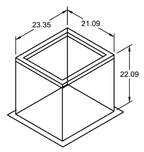




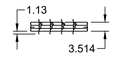


NOT DRAWN TO SCALE





DAMPER



TYP. SECTION VIEW

2 KITCHEN HOOD SUPPLY FAN SCHEDULE AND DETAILS
SCALE: N.T.S.

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IDEA-EDINBURG CAMPUS
COLLEGE PREPARATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

STATE OF TEXAS
GABRIEL HINOJOSA
96585
LICENSED
PROFESSIONAL ENGINEER
09-27-2024

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Architects-Planners

Date:	September 2024
Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	GH
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	M2.3

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE	
	MODEL	LOCATION	TYPE	LOCATION
CONTROLS	GKC-CV-S-31-3-1-0	SHIP LOOSE ENCLOSURE	FULL COLOR TOUCHSCREEN	FACE MOUNT ON CONTROL PACKAGE

FANS CONTROLLED												
FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
1	EXHAUST	E1	KEF-1	1	1800	1	115	60	1	NO	NO
2	EXHAUST	E2	KEF-2	1	1800	1	115	60	1	NO	NO
3	EXHAUST	E3	KEF-3	1	1800	1	115	60	1	NO	NO
4	SUPPLY	S1	KSF-1	1	4320	3	208	60	3	NO	NO

CONTROL FEATURES

- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 3
- DRY FIRE CONTACTS - QTY. 1
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE

GREENHECK
BUILDING VALUE IN AIR.

DOC NUMBER: ####
REV: ####

CAUTION
UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

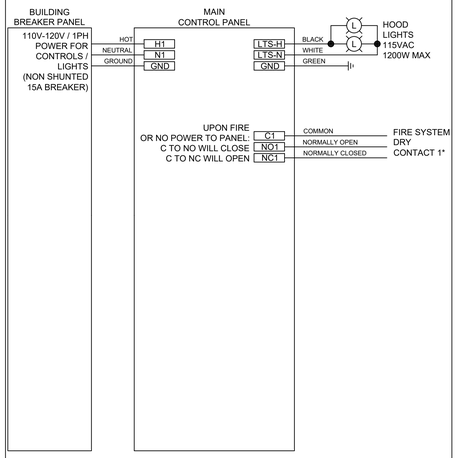
COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V,1PHASE, 50-60HZ,15A
BASE FILE #E209616, ML FILE #E313951
43BM

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 3.5 LBS. IN. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-6858.
PRG VERSION: V4
FIELD WIRED (CÂBLÉ LOCALEMENT) ———
FACTORY WIRED (CÂBLÉ À L'USINE) ———

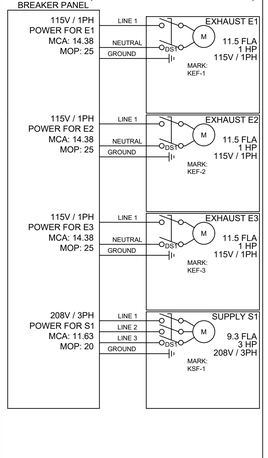
NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS 90 °C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LB-PO. SERRER LES COSSES/VIS D'ALIMENTATION AUX COUPLES INDIQUÉS POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-6858.

WIRING DIAGRAM CODE: ####
JOB NAME: IDEA EDINBURG CAFETERIA KVS
MODEL: GKC-CV-S-31-3-1-0
SERIAL NUMBER: WDSN#
MARK: CONTROLS

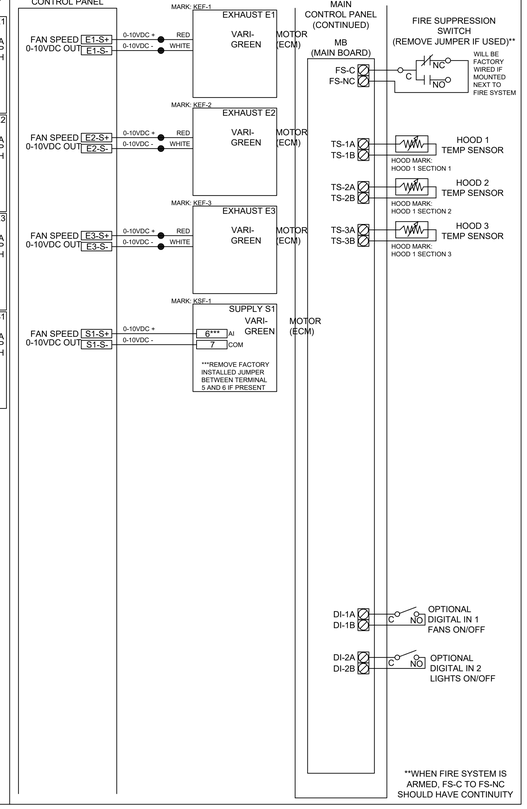
POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)



POWER WIRING FROM BREAKER PANEL DIRECT TO FANS
(WIRING TO BE DONE BY ELECTRICIAN)

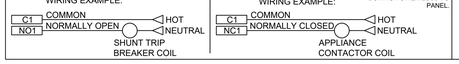


CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)



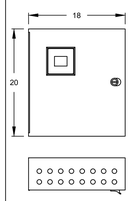
*FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

DO NOT USE CONTACTS FOR PROVIDING SIGNALS TO BUILDING FIRE ALARM. DRY CONTACTS SWITCH STATE DURING POWER LOSS TO PANEL.



CABINET DETAILS

DRAWING NOT TO SCALE



TOTAL WEIGHT: 35 LBS

MOUNTING LOCATION:
SHIP LOOSE ENCLOSURE

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.

2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
FACE MOUNT ON CONTROL PACKAGE

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
4FT (FACTORY PROVIDED)

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXHAUST	SUPPLY	MB-TEMP SENSORS	HCB
1	H1	HOOD 1 SECTION 1	Z1	E1	S1	TS1	NO
2	H2	HOOD 1 SECTION 2	Z1	E2	S1	TS2	NO
3	H3	HOOD 1 SECTION 3	Z1	E3	S1	TS3	NO

WIRING DIAGRAM CODE: ####
JOB NAME: IDEA EDINBURG CAFETERIA KVS
SERIAL NUMBER: WDSN#
MARK: CONTROLS
DOC NUMBER: ####
REV: ####

DEFAULT SETTINGS / PARAMÉTRES PAR DÉFAUT

FACTORY SETTINGS (DEFAULT)
TYPE: CV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 3
SUMPS: 0
EXHAUST FANS: 3
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 3
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
GAS RESET: NO
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS (DEFAULT)
SEE ZONE CONFIGURATION IN TABLE ON LEFT

HOOD SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SENSOR SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

USER INTERFACE SETTINGS (HCB)
NA

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

FIRE/FAULT SETTINGS (DEFAULT)
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

BMS SETTINGS
NA

PRG VERSION: V4

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-1	Z1	-	1800	NO	-	-	-	-	9.0
2	EXHAUST	E2	KEF-2	Z1	-	1800	NO	-	-	-	-	9.0
3	EXHAUST	E3	KEF-3	Z1	-	1800	NO	-	-	-	-	9.0
4	SUPPLY	S1	KSF-1	Z1	-	4320	NO	-	-	-	-	9.4

1 KITCHEN HOOD SYSTEM CONTROLS
SCALE: N.T.S.

Sep 27, 2024 – 4:22pm C:\Dropbox\2024\24026 IDEA Edinburg Cafeteria\CADD\M-2.0.dwg

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STATE OF TEXAS
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Date: September 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
Sheet: M2.4

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TBPE Firm No. F-14767
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McAllen, Texas 78501

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
FSS	ANSUL R-102 WET CHEMICAL	CABINET – LEFT END OF HOOD 1	33 UTILIZED 33 AVAILABLE		CONTINUOUS	FUSIBLE LINK	HOOD 1 SECTION 1
							HOOD 1 SECTION 2
							HOOD 1 SECTION 3

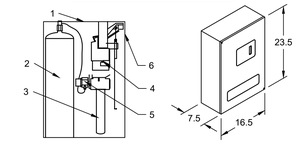
FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
HOOD SUPPRESSION TANK - INCLUDED - 9 GAL. - [(3) 3.0 TANK(S)]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



NOT TO SCALE

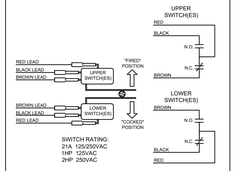
NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.
-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
-FULL DUMP TEST OTHER THAN WHT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
-MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
-INSTALLATION OF GAS SHUT-OFF VALVE.
-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.
-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M.)
-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

WIRING DIAGRAM FOR MICRO SWITCHES

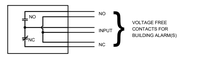


NOTE: IF ELECTRIC RELEASE, BOTH UPPER SWITCHES WILL BE USED FOR ACTUATING ADDITIONAL AUTOMANS (THEY WILL BE WIRED TO EACH OTHER AND TO THE BROWN WIRE ON THE ELECTRIC SOLENOID). THEREFORE, USE ONE OF THE UN-UTILIZED LOWER SWITCHES TO WIRE BACK TO CONTROL PANEL (DO NOT USE EITHER OF THE UPPER SWITCHES).

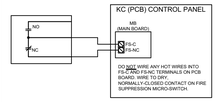
IF USING LOWER SWITCHES TO WIRE BACK TO CONTROL PANEL, NORMALLY-CLOSED WILL BE BLACK LEAD, AND NORMALLY-OPEN WILL BE BROWN LEAD.

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO BUILDINGS ALARM



CONNECTION TO KC (PCB) CONTROL PANEL



NOTES:
1. ———— DENOTES FIELD INSTALLATION.
2. ———— DENOTES FACTORY INSTALLATION.

1 KITCHEN HOOD SYSTEM FIRE SUPPRESION SCHEDULE AND DETAIL
SCALE: N.T.S.

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Drawn By:	GH
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Sheet:	M2.5

PACKAGED DX ROOFTOP UNIT SCHEDULE

MARK	SUPPLY FAN										DX COIL							HEAT PUMP HEAT					FILTER			POWER			BASIS OF DESIGN							
	SUPPLY AIRFLOW (CFM)	MAX VENT. (CFM)	MIN VENT. (CFM)	E.S.P. (IN H20)	T.S.P. (IN H20)	RPM	BHP	POWER (HP)	TYPE	DRIVE	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	EAT DB/WB °F	LAT DB/WB °F	ROWS (MIN)	FPI (MAX)	MIN COOLING STAGES	HEAT (BTU/HR)	HEAT KW	EAT(°F) DB	LAT(°F) DB	STAGES	FILTER TYPE	DEPTH (IN)	EFF, (%)	VOLTAGE	MCA	MOCP	MANUF.	MODEL	LXWXH (IN)	WEIGHT (LB)	AMBIENT SUM/WIN °F	COP at 47°F	IEER (SEER)	EER
RTU-1 CAF	3650	1750	650	1.0	1.42	1528	1.27	2.4	DIRECT PLN	ECM	188,230	102,143	82.9/72.0	55.7/55.7	6	12	INVERTER	151,529	44.4	54	91.6	INVERTER	MERV 8+13	2 + 4	90	460/3/60	54.6	90	DAIKIN	DPSH17B	102X74X86	2000	101/38	3.55	20	10.8
RTU-2 CAF	3650	1750	650	1.0	1.42	1528	1.27	2.4	DIRECT PLN	ECM	188,230	102,143	82.9/72.0	55.7/55.7	6	12	INVERTER	151,529	44.4	54	91.6	INVERTER	MERV 8+13	2 + 4	90	460/3/60	54.6	90	DAIKIN	DPSH17B	102X74X86	2000	101/38	3.55	20	10.8
RTU-3 KIT	3100	1400	1400	1.0	1.32	1394	0.99	2.4	DIRECT PLN	ECM	178,181	95,372	82.5/71.5	52.6/52.6	6	12	INVERTER	150,473	44.1	55	99.0	INVERTER	MERV 8+13	2 + 4	90	460/3/60	54.6	90	DAIKIN	DPSH17B	102X74X86	2000	101/38	3.55	20	10.8

NOTES:

1. SINGLE POINT POWER WITH INTEGRAL, NON-FUSED, DISCONNECT.
2. 120V GFCI SERVICE OUTLET, FACTORY MOUNTED, FACTORY WIRED.
3. CONDENSER COIL HAIL GUARDS.
4. 0-100% ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
5. MODULATING HOT GAS RE-HEAT COIL WITH TWO POINT TEMPERATURE CONTROL & RH SENSOR.
6. CONDENSER COIL COATING, MINIMUM 10,000 HOUR SALT SPRAY TEST PER ASTM B 117.
7. INVERTER COMPRESSOR FOR FULL MODULATION OF COOLING CAPACITY AND ECM FAN SET FOR SINGLE ZONE VAV CONTROL.
8. PROVIDE DOUBLE WALL CONSTRUCTION AND HINGED ACCESS DOORS WITH QUARTER-TURN HANDLES.
9. PROVIDE PHASE MONITOR AND PREMIUM EFFICIENCY MOTOR WITH MOTOR SHAFT GROUNDING RINGS.
10. PROVIDE MICROPROCESSOR CONTROLLER WITH LCD DISPLAY FOR UNIT DIAGNOSTICS. PROVIDE CONTROLS INTERFACE BACNET CARD FOR INTEGRATION INTO EXISTING JOHNSON CONTROLS METASYS DDC SYSTEM. CONTROLS CONTRACTOR TO PROVIDE COMBO SPACE TEMPERATURE, RH, AND C02 SENSOR.
11. 16" INSULATED ROOF CURB. ROOF CURB-TO-STRUCTURE AND RTU-TO-ROOF CURB ATTACHMENTS SHALL BE COMPLIANT WITH THE APPLICABLE IBC, ASCE, AND TDI CODES. PROVIDE DELEGATED DESIGN WITH CALCS SIGNED AND SEALED BY A TEXAS P.E.
12. PROVIDE STAINLESS STEEL COIL CASING AND DRAIN PAN OVERFLOW SWITCH.
13. PROVIDE FACTORY MOUNTED AIRFLOW MEASURING STATIONS AND SUPPLY FAN AIRFLOW MEASURING.
14. FACTORY AUTHORIZED STARTUP WITH 2 YEAR PARTS, LABOR AND REPLACEMENT REFRIGERANT WARRANTY. IN ADDITION, PROVIDE A 3RD TO 5TH YEAR PARTS ONLY WARRANTY FOR THE ENTIRE UNIT.

EXHAUST FAN SCHEDULE

MARK	CFM	SERVICE	LOCATION	TYPE	FAN RPM	ESP	HP	DRIVE	VOLTAGE	SONES	CONTROL	MANUF.	MODEL	NOTES
EF-1	75	TOILE 106	CEILING	CABINET	1180	0.5	21 watts	DIRECT	115/60/1	3.5	LIGHTS	GREENHECK	SP-A390-VG	1-11
EF-2	75	TOILET 107	CEILING	CABINET	1180	0.5	21 watts	DIRECT	115/60/1	3.5	LIGHTS	GREENHECK	SP-A390-VG	1-11
EF-3	150	CUSTODIAN	CEILING	CABINET	1219	0.5	29 watts	DIRECT	115/60/1	4.0	LIGHTS	GREENHECK	SP-A390-VG	1-11
EF-4	1300	KITCHEN	ROOF	CENT DB	1053	0.5	1/2	DIRECT	115/60/1	7.9	INTERLOCK W/ RTU-3	GREENHECK	G-140-VG	12-20

NOTES:

1 MOTOR RATED FOR CONTINUOS USE WITH THERMAL OVERLOAD.
2 UL/cUL 507 LISTED ELECTRIC FAN.
3 INTEGRAL DISCONNECT SWITCH, PRE-WIRED INTERNALLY AT FACTORY.
4 FAN SPEED CONTROL, PRE-WIRED INTERNALLY AT FACTORY.
5 BACK DRAFT DAMPER.
6 ROOF CAP, CURB MOUNTED, WITH BIRD SCREEN [WHERE INDICATED ON DRAWINGS].
7 ROUND DUCT WALL CAP WITH BIRD SCREEN [WHERE INDICATED ON DRAWINGS].
8 ROUND DUCT CONNECTION.
9 VIBRATION ISOLATION KIT.
10 MOUNTING BRACKET.
11 WHITE ALUMINUM GRILLE.
12 EC MOTOR.
13 UL/cUL 705 LISTED POWER VENTILATORS.
14 INTEGRAL DISCONNECT SWITCH, PRE-WIRED INTERNALLY AT FACTORY.
15 FAN SPEED CONTROL, PRE-WIRED INTERNALLY AT FACTORY.
16 BACK DRAFT DAMPER.
17 BIRD SCREEN.
18 14" GALVANIZED ROOF CURB WITH WOOD NAILER AND DAMPER TRAY.
19 STAINLESS STEEL FASTENERS.
20 HIGH WIND RATED, ±150 PSF RATING.

NEW CURB, ATTACHMENT HARDWARE, CURB-TO-STRUCTURE ATTACHMENT, AND FAN-TO-CURB ATTACHMENT SHALL BE COMPLIANT WITH THE APPLICABLE IBC, ASCE, AND TEXAS DEPARTMENT OF INSURANCE CODES. PROVIDE ENGINEERED ANALYSIS AND INSTALLATION DRAWINGS SIGNED AND SEALED BY A TEXAS P.E.

UNIT HEATER SCHEDULE

MARK	MANUF.	MODEL	SERVES	ELECTRIC HEAT	ELECTRICAL			PERFORMANCE			REC	APPROX.
				KW	VOLTS/Ø/HZ.	AMPS	CONTROL VOLTAGE	TEMP. RISE (°F)	AIR THROW	CFM	MOUNTING HEIGHT	WEIGHT (LBS.)
UH-1	REDD-i	G1G5103N	FIRE RISER	3.3	277/1/60	11.9	277	26	12'	400	9'	25

NOTES:

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

RELIEF HOOD SCHEDULE

MARK	SERVES	MAX CFM.	S.P. (IN WG)	THROAT WXL (IN)	THROAT VELOCITY (FPM)	THROAT AREA (SQFT)	HOOD SIZE (IN)	MFGR	MODEL
RH-1	KITCHEN	2,245	0.099	18X28	641	3.50	32X51	GREENHECK	FGR 18X28

NOTES:

1. GALVANIZED BIRDSCREEN - 0.5 IN MESH TYPE.
2. ALUMINUM MESH INSECT SCREEN OVER THE THROAT.
3. BASE HEIGHT: 5 IN.
4. HIGH WIND RATED (±70 PSF RATING).
5. COUNTER BALANCED BACK DRAFT DAMPER.
6. NEW CURB, ATTACHMENT HARDWARE, CURB-TO-STRUCTURE ATTACHMENT, AND FAN-TO-CURB ATTACHMENT SHALL BE COMPLIANT WITH THE APPLICABLEIBC, ASCE, AND TEXAS DEPARTMENT OF INSURANCE CODES. PROVIDE ENGINEERED ANALYSIS AND INSTALLATION DRAWINGS SIGNED AND SEALED BY A TEXAS P.E.

GRILLE/DIFFUSER/REGISTER SCHEDULE

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

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

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS

MARK: A 250 / 12"ø / 6 TYP.
- AIR FLOW (CFM
- RECTANGULAR FACE SIZE (WHERE APPLICABLE)

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

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

MECHANICAL GENERAL LEGEND DUCTWORK SYMBOLS

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

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

MISCELLANEOUS SYMBOLS

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

- DIFFUSER, GRILLE OR REGISTER MARK
- A 250 / 12"ø / 6 TYP. — AIR FLOW (CFM); NECK SIZE/ RECTANGULAR FACE SIZE / NOTES; QUANTITY / NOTES (WHERE APPLICABLE)
- 1 @300 / 300 — QUANTITY OF EXISTING DIFFUSERS; AIR FLOW (CFM) PER DIFFUSER; TOTAL AIR FLOW (CFM)
- AHU-1 — EQUIPMENT MARK; EQUIPMENT NUMBER
- 01 / M2.01 — DIRECTION OF SECTION; IDENTIFYING NUMBER OR LETTER FOR SECTIONS.; NUMBER OF REFERENCE DRAWING WHERE SECTION IS SHOWN.
- 01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR DETAILS.; NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.
- ENLARGED DETAIL REFERENCE
- MATCHLINE
- LINE WITH HATCHING DESIGNATES DEMOLITION WORK

1 MECHANICAL SCHEDULES
SCALE: N.T.S.

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09-11-2024

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Date: September 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
Sheet: M3.0

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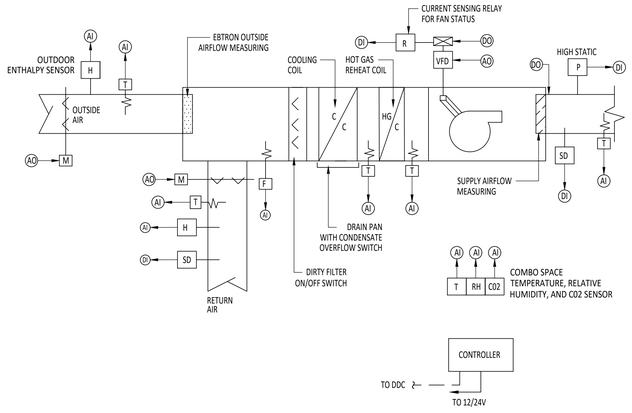


PACKAGE DX ROOFTOP UNITS

RUN CONDITIONS - SCHEDULED: THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN
- 74°F (ADJ.) COOLING SETPOINT
- 70°F (ADJ.) HEATING SETPOINT.
- 50% (ADJ.) RELATIVE HUMIDITY.

UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
- 80°F (ADJ.) COOLING SETPOINT.
- 64°F (ADJ.) HEATING SETPOINT.
- 60% (ADJ.) RELATIVE HUMIDITY.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.),
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

COOLING:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE COOLING TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.)
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT
- AND THE SUPPLY FAN STATUS IS ON

HEAT PUMP:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING TO MAINTAIN ITS HEATING SETPOINT.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.

MINIMUM OUTSIDE AIR VENTILATION:
WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPERS OPEN TO ALLOW THE VENTILATION AIR SCHEDULED.

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 55% RH (ADJ.). DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON.

HUMIDITY:
THE CONTROLLER SHALL MONITOR THE HUMIDITY AND USE AS REQUIRED FOR HUMIDITY CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HUMIDITY: IF THE HUMIDITY IS GREATER THAN 60% (ADJ.).
- LOW HUMIDITY: IF THE HUMIDITY IS LESS THAN 35% (ADJ.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

START/STOP
THE DDC SHALL INITIATE START AND STOP CONTROL OF THE SYSTEM BY PROGRAMMED INPUT, TIMED OVERRIDE, OR OPERATOR OVERRIDE. THE UNIT SHALL ENERGIZE 30 MINUTES PRIOR TO START OF OCCUPIED PERIOD TO CONDITION SPACE PER OCCUPIED SEQUENCE OF OPERATIONS.

TEMPERATURE CONTROL
THE COOLING COIL COLD DECK TEMPERATURE SENSOR WILL CONTROL THE MODULATING INVERTER COMPRESSOR(S) TO PROVIDE A SUPPLY AIR TEMPERATURE OF 54°F. THE SPACE TEMPERATURE SENSOR WILL SIGNAL THE VARIABLE SPEED SUPPLY FAN MOTOR TO INCREASE OR DECREASE AIRFLOW TO MAINTAIN SPACE TEMPERATURE SET POINT. AT NO TIME WILL THE SUPPLY FAN PROVIDE LESS AIRFLOW THAN THE VENTILATION AIR REQUIRED. IF THE SPACE TEMPERATURE IS 2°F (ADJ.) BELOW SETPOINT FOR 5 MINUTES (ADJ.), THE HEAT PUMP SHALL ENERGIZE AND MODULATE TO MAINTAIN PROGRAMMED OR OVERRIDE TEMPERATURE. SENSOR SHALL HAVE AFTER HOURS OVERRIDE TO INITIATE HEATING/COOLING SYSTEMS. PROGRAM OVERRIDE FOR ONE HOUR, SHALL BE ADJUSTABLE BY OPERATOR.

HUMIDITY CONTROL
A SPACE RELATIVE HUMIDITY SENSOR SHALL MONITOR AND CONTROL THE SPACE RELATIVE HUMIDITY TO 50% (ADJ.). WHEN SPACE RELATIVE HUMIDITY IS ABOVE SETPOINT BY 5% (NOT TO EXCEED 60%), THE COOLING COIL COLD DECK TEMPERATURE SHALL BE RESET TO 50°F (ADJ.) AND THE HOT GAS REHEAT COIL SHALL MODULATE TO MAINTAIN A 54°F (ADJ.) DISCHARGE AIR TEMPERATURE. AT NO TIME WILL THE SUPPLY FAN PROVIDE LESS AIRFLOW THAN THE VENTILATION AIR REQUIRED. WHEN RELATIVE HUMIDITY ATTAINS SET POINT, THE SYSTEM WILL RETURN TO NORMAL OPERATION.

ECONOMIZER CONTROL
WHEN OUTDOOR ENTHALPY IS LOWER THAN RETURN AIR ENTHALPY, UNIT SHALL GO INTO ECONOMIZER MODE, 100% OUTSIDE AIR. THE OUTDOOR AIR DAMPER DOES NOT BEGIN TO CLOSE TO PREVENT COIL FREEZING DUE TO MINIMUM COMPRESSOR RUN TIME UNTIL THE LEAVING AIR TEMPERATURE IS LESS THAN 45°F. WHEN OUTDOOR ENTHALPY EXCEEDS RETURN AIR ENTHALPY, ECONOMIZER IS OFF.

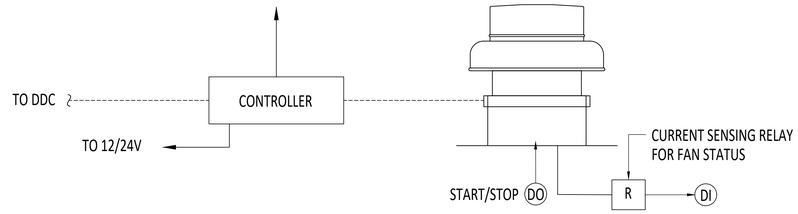
AUTOMATIC SHUTDOWN CONTROL
UPON DETECTION OF SMOKE AT ANY DUCT MOUNTED S.D. (FURNISHED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 26) WITHIN THE AREA SERVED BY THE AHU, MOTOR SHALL BE DE-ENERGIZED. UPON DETECTION OF AIR BELOW 36°F, THE MANUAL RESET FREEZE STAT SHALL DE-ENERGIZE THE AHU MOTOR AND CAUSE THE OUTSIDE AIR DAMPER TO CLOSE FULLY.

UNOCCUPIED MODE (NIGHTS/WEEKENDS/HOLIDAYS)
UNOCCUPIED SETBACK CONTROLS SHALL BE ACTIVATED BY A SPACE TEMPERATURE/HUMIDITY SENSOR. UNOCCUPIED SETBACK TEMPERATURE AND HUMIDITY CONTROL IS SIMILAR TO NORMAL OCCUPIED CONTROL EXCEPT THAT THE OUTSIDE AIR DAMPER IS CLOSED AND THE RETURN AIR DAMPER IS FULLY OPEN.

PREVENTIVE MAINTENANCE DAMPER CONTROL
EVERY DAY AT MIDNIGHT, DDC SHALL EXERCISE OUTSIDE AND RETURN AIR DAMPERS TO FULLY OPEN AND CLOSE TO PREVENT DAMPERS FROM FREEZING DUE TO HEAT, DIRT, RUST, OR INACTIVITY.

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

1 SINGLE ZONE VAV PACKAGE DX RTU
SCALE: N.T.S.



START/STOP
PROVIDE START/STOP, STATUS, AND ALARMS.

MARK	CONTROL
EF-1	SWITCH ON/OFF WITH LIGHTS.
EF-2	SWITCH ON/OFF WITH LIGHTS.
EF-3	SWITCH ON/OFF WITH LIGHTS.
EF-4	SWITCH ON/OFF WITH RTU-3. INTERLOCK FAN WITH RTU-3.

2 CONTROL SCHEMATIC FOR EXHAUST FAN #4 (EF-4)
SCALE: N.T.S.

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Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
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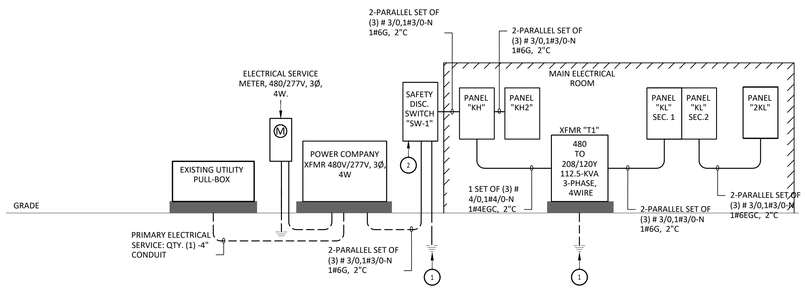
ELECTRICAL RISER KEY NOTES: (#)

1. FURNISH AND INSTALL #2 AWG ELECTRODE CONDUCTOR WITH 3/4" X 10' ELECTRODE ROD. FURNISH ELECTRODE IN 1-1/4"-PVC CONDUIT.

2. FURNISH AND INSTALL HEAVY DUTY,400AMP/400AF/3P, NEMA 3R, 480 VOLT, THREE, PHASE, 4-WIRE SAFETY DISCONNECT SWITCH.



2 ELECTRICAL RISER DIAGRAM

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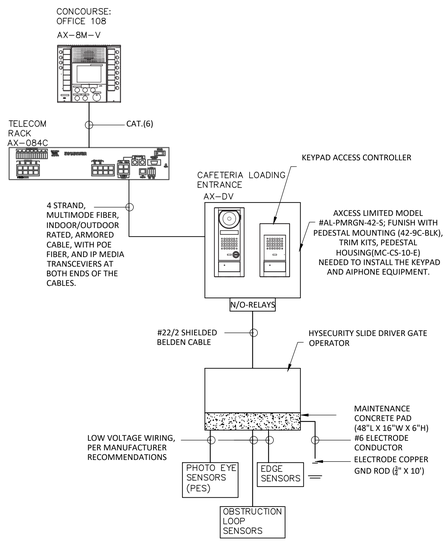


3 ACCESS CONTROL, VIDEO INTERCOM, AND GATE CONTROL DETAIL

SCALE:N.T.S.

SITE LEGEND

O.H.E	OVER HEAD ELECTRICAL
U.E.P.	UNDER GROUND ELECTRICAL PRIMARY. QTY. (1) 4-INCH CONDUIT WITH PULL STRINGS. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
F.O.B	FIBER OPTIC & COPPER BACKBONE. QTY.(2) 4-INCH CONDUIT WITH PULL STRINGS. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
	SITE: POWER OR LIGHTING BRANCH CIRCUIT (MINIMUM DEPTH TO TOP OF CONDUIT: 18")
TELECOM	TELECOMMUNICATIONS. QTY. (2) 4-INCH CONDUITS WITH PULL STRINGS. (MINIMUM DEPTH TO TOP OF CONDUIT: 36")
U.E.S.	UNDERGROUND ELECTRICAL SECONDARY SERVICE. (MINIMUM DEPTH TO TOP OF CONDUIT: 36")
	ELECTRICAL RISER POLE
	UTILITY POWER PAD MOUNTED TRANSFORMER
	TELECOMMUNICATION/ELECTRICAL PULLBOX
	SITE LIGHTING LIGHT FIXTURES
	IP- SURVEILLANCE CAMERA; REFER TO SPECS FOR REQUIREMENTS.
PP	PIN PAD DOOR CONTROL

GENERAL NOTES:

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

B. ALL UNDERGROUND CONDUITS SHALL BE ROUTED BELOW THE BUILDING GRADE BEAMS.

KEY NOTES: (#)

1. APPROXIMATE LOCATION OF NEW PAD MOUNTED TRANSFORMER. REFER TO DETAILS FOR CONCRETE PAD REQUIREMENTS. REFER TO RISER DIAGRAM FOR METERING EQUIPMENT REQUIRED.

2. APPROXIMATE LOCATION OF TELECOMMUNICATION CONDUIT STUB UP. REFER TO SHEET E-1.2 FOR LOCATION.

3. APPROXIMATE LOCATION OF BUILDING WALL PENETRATION; REFER TO DETAILS FOR WALL PENETRATION REQUIREMENTS.

4. CONTRACTOR SHALL INCLUDE IN HIS BID MATERIAL AND LABOR REQUIRED TO BORE UNDER EXISTING SIDEWALKS IN ORDER TO INSTALL THE NEW TELECOMMUNICATION CONDUITS.

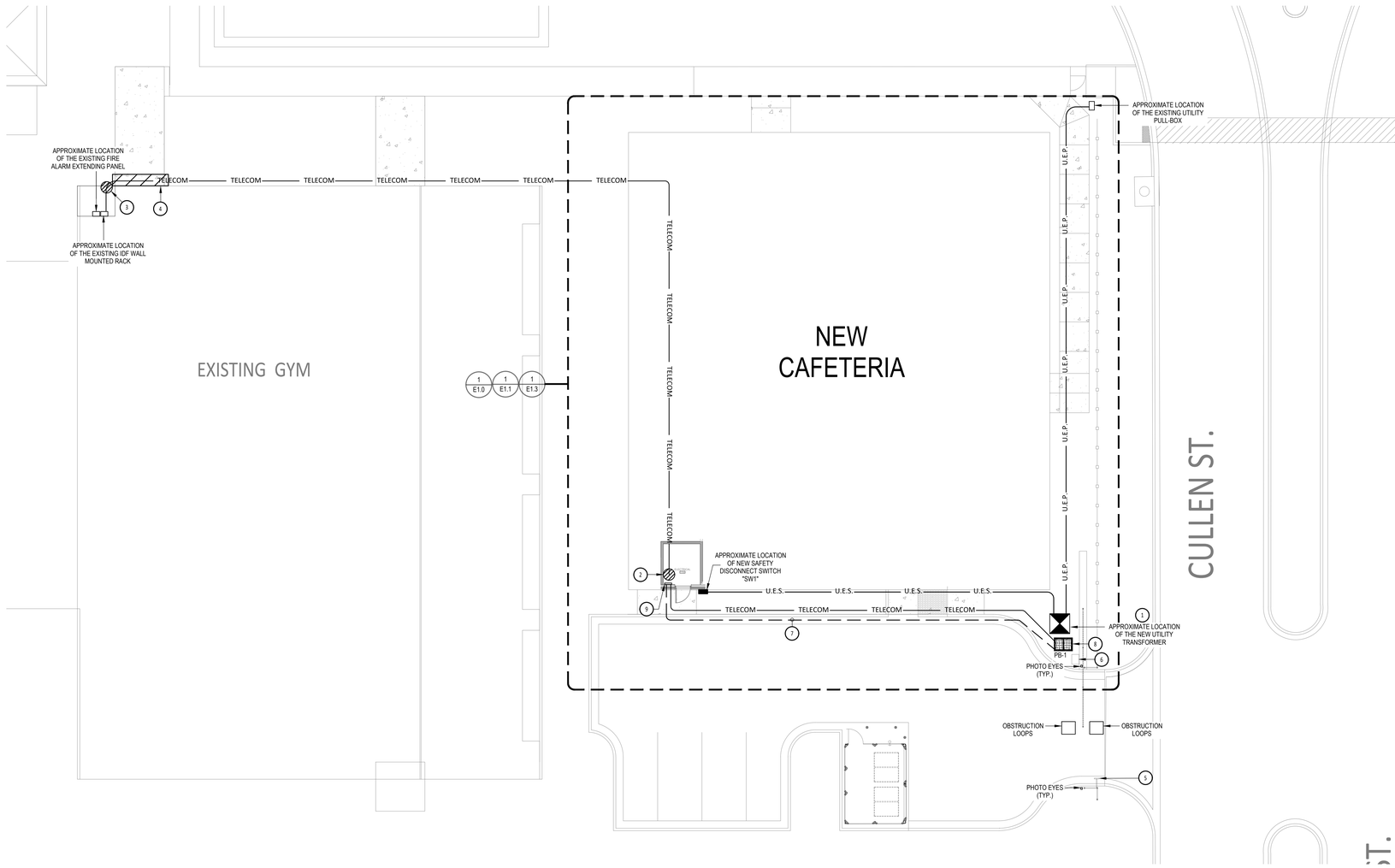
5. APPROXIMATE LOCATION FOR ACCESS CONTROL PEDESTAL MOUNTED KEYPADS. REFER TO DETAILS FOR REQUIREMENTS.

6. APPROXIMATE LOCATION FOR GATE OPERATOR. REFER TO DETAILS FOR GATE OPERATOR AND CONTROL REQUIREMENTS.

7. FURNISH AND INSTALL BRANCH CIRCUIT FOR POWER TO GATE MOTOR CONSISTING OF 3#8, 1#10 EGC, 2-INCH CONDUIT.

8. FURNISH AND INSTALL PULL-BOX. PULL-BOX SHALL BE FURNISH AND INSTALLED WITH TELECOM AND ELECTRICAL DIVIDER. EACH SECTION SHALL BE CLEARLY IDENTIFIED. REFER TO PULL-BOX INSTALLATION DETAILS FOR REQUIREMENTS.

9. FURNISH AND INSTALL QTY (1) NEMA 1, HINGED COVERED WIREWAY FOR POWER AND QTY (1) NEMA 1, HINGED COVER WIREWAY FOR TELECOMMUNICATION INFRASTRUCTURE.



1 ELECTRICAL SITE PLAN

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

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Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	TN
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	ES1.0

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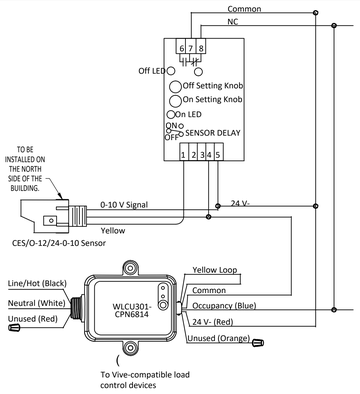
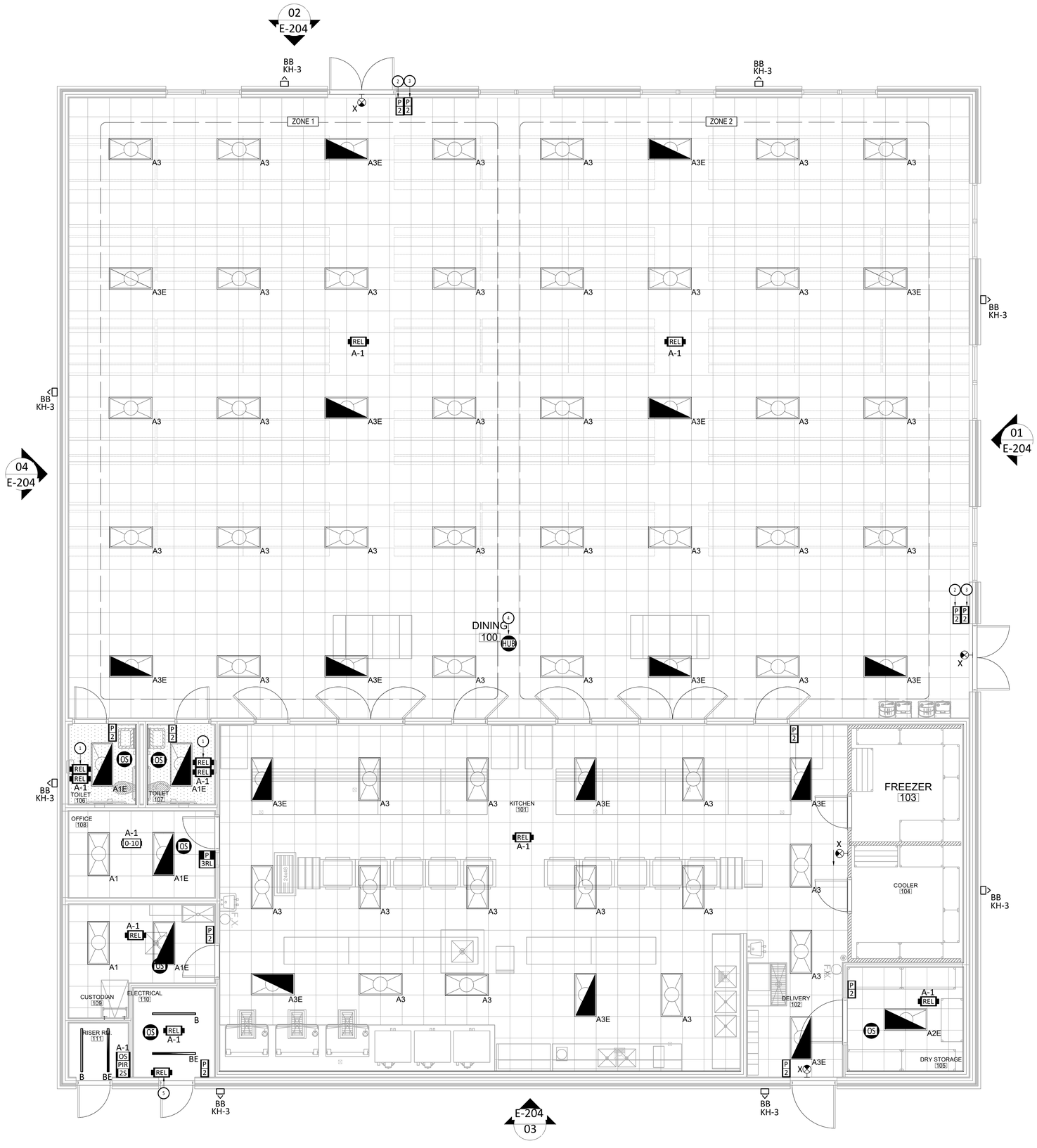


2 ELECTRICAL EXTERIOR LIGHTING CONTROLS

SCALE:N.T.S



1 ELECTRICAL LIGHTING PLAN

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

GENERAL NOTES:

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

B. ALL LIGHT SWITCH AND POWER PACKS WILL BE INSTALLED ADJACENT TO DOOR.

C. REFER TO SHEET E2.4 FOR WALL PACK INSTALLATION DETIALS.

KEY NOTES: (4)

1. POWER PACKS TO USED TO CONTROL RESTROOMS EXHAUST FAN. FAN SHALL REMAIN ON 5 MINUTES AFTER LIGHTS ARE TURNED OFF.
2. LIGHT SWITCH WILL BE PROGRAMMED TO CONTROL ZONE 1. CONTRACTOR SHALL LABEL THE ZONE THE LIGHT SWITCH IS CONTROLLING.
3. LIGHT SWITCH WILL BE PROGRAMMED TO CONTROL ZONE 2. CONTRACTOR SHALL LABEL THE ZONE THE LIGHT SWITCH IS CONTROLLING.
4. CONTRACTOR SHALL FURNISH AND INSTALL POWER AND DATA FOR HUB DEVICE.
5. CONTRACTOR SHALL FURNISH AND INSTALL POWER-PACK TO CONTROL EXTERIOR LIGHT FIXTURES. REFER TO SHEET E-1.0 DETAIL #2 FOR FURTHER DETAILS.

LIGHTING CONTROL LEGEND

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

MANUFACTURE: LUTRON | VIVE LIGHTING CONTROL SYSTEM

SYMBOL	DESCRIPTION
P 2	ON/OFF 2-BUTTON LIGHT SWITCH: PJ2-2B-GWH-L01 (CW-1-WH-PICOWBX-ADAPT)
P 3RL	0-10V DIMMING 3-BUTTON LIGHT SWITCH: PJ2-3BRL-GWH-L01 (CW-1-WH-PICOWBX-ADAPT)
REL	ON/OFF POWER PACK: RMJS-16R-DV-B
0-10	0-10V DIMMING POWER PACK: RMJS-8T-DV-B
OS PIR 2S	IN-WALL OCCUPANCY SENSOR SWITCH: MRF2S-8SD010-WH
OS	CEILING MOUNTED OCCUPANCY SENSOR: LFR2-OCR2B-P-WH
HUB	VIVE HUB: HJS-2-FM

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IDEA-EDINBURG CAMPUS
COLLEGE PREPARATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
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STATE OF TEXAS
JOSE ANTONIO NICANOR
108787
LICENSED
PROFESSIONAL ENGINEER
09-27-2024

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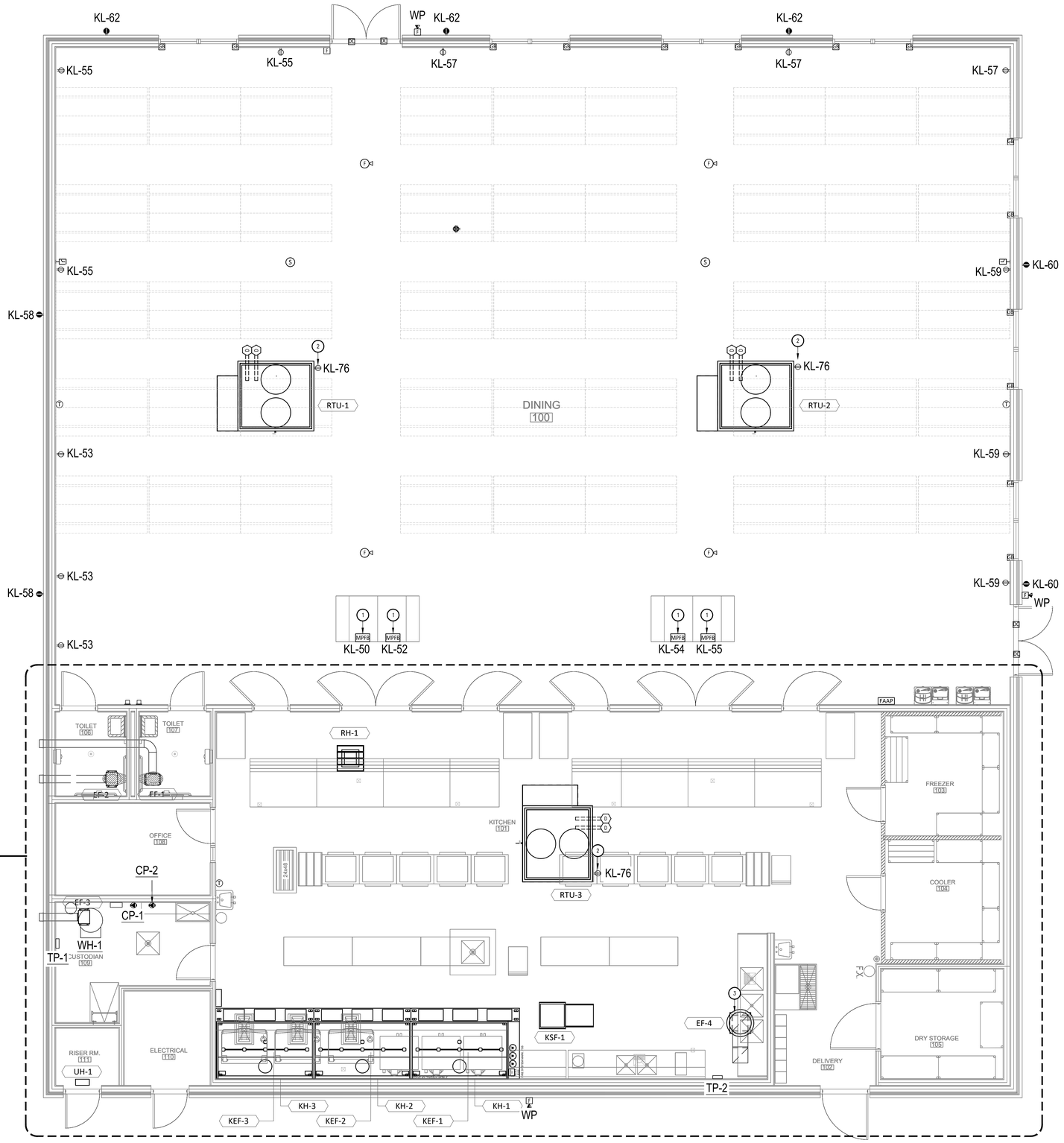
Date:	September 2024
Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	TN
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	E1.0



MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE

ROOF TOP UNIT		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
RTU-1	3#2, 1#8 EGC, 1-1/4" C	FACTORY PROVIDED
RTU-2	3#2, 1#8 EGC, 1-1/4" C	FACTORY PROVIDED
RTU-3	3#2, 1#8 EGC, 1-1/4" C	FACTORY PROVIDED
EXHAUST FAN		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
EF-1	2#12,1#12 EGC,1/2" C	FACTORY PROVIDED
EF-2	2#12,1#12 EGC,1/2" C	FACTORY PROVIDED
EF-3	2#12,1#12 EGC,1/2" C	FACTORY PROVIDED
EF-4	2#12,1#12 EGC,1/2" C	FACTORY PROVIDED
WATER HEATER		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
WH-1	3#1/0, 1#6 EGC, 1-1/4"C	200A/NF/3P, NEMA 1
CIRCULATING PUMP		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
CP-1	2#12,1#12 EGC,1/2" C	30A/NF/1P, NEMA 1
CP-2	2#12,1#12 EGC,1/2" C	30A/NF/1P, NEMA 1
KITCHEN HOOD EQUIPMENT		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
KEF-1	2#12,1#12 EGC,1/2" C	30A/NF/1P, NEMA 3R
KEF-2	2#12,1#12 EGC,1/2" C	30A/NF/1P, NEMA 3R
KEF-3	2#12,1#12 EGC,1/2" C	30A/NF/1P, NEMA 3R
UNIT HEATER		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
UH-1	2#12,1#12 EGC,1/2" C	FACTORY PROVIDED
SUPPLY FAN		
UNIT MARK	BRANCH CIRCUIT	SAFETY DISCONNECT SWITCHES
KSF-1	3#12,1#12 EGC,1/2" C	FACTORY PROVIDED

GENERAL NOTES:
A. ALL DISCONNECT SWITCHES SHALL BE INSTALLED WITHIN 4-FEET THE DEVICE.
B. REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATIONS.

GENERAL NOTES:

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

B. FURNISH AND INSTALL FLUSH MOUNT ALL GFCI WEATHER PROOF WHILE-IN-USE SINGLE GANG FLUSH MOUNTED COVER ASSEMBLY EQUAL TO LEGRAND #WIUFC105 FOR ALL EXTERIOR RECEPTACLES.

KEY NOTES: (#)

1. FURNISH AND INSTALL A DEDICATED RECEPTACLE WITH ONE DATA OUTLETS FOR CASHIER STAND.
2. CONTRACTOR SHALL FIELD WIRE FACTORY MOUNTED 120-VOLT GFCI SERVICE OUTLET.
3. CONTRACTOR SHALL INTERLOCK EXHAUST FAN WITH RTU-3. REFER TO MECHANICAL PLANS FOR FURTHER DETAILS.

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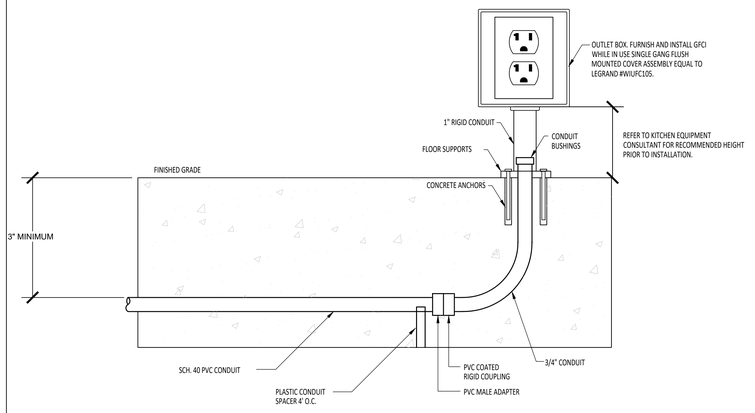
1 ELECTRICAL POWER AND SPECIAL SYSTEM PLAN
SCALE: 1/4" = 1'-0"

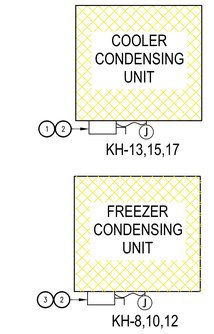
KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

ITEM	DESCRIPTION	VOLTAGE	PHASE	KW	MOCP	CONNECTION REQUIRED	BRANCH CIRCUIT
1	TILTING SKILLET BRASING PAN	480	3	16.0	30	30A/NF/3P, 316 SS DISC. SWITCH	3#10, 1#10 EGC, 1/2"C
2	COMBI OVEN STEAMER	480	3	24.0	40	60A/NF/3P, 316 SS DISC. SWITCH	3#8, 1#10 EGC, 3/4"C
3	DOUBLE STACK CONVECTION OVEN	480	3	24.9	40	60A/NF/3P, 316 SS DISC. SWITCH	3#8, 1#10 EGC, 3/4"C
4	HOT WATER DISPENSER	208	1	5.0	30	NEMA 6-30R	2#10, 1#10 EGC, 1/2"C
5	KITCHEN EXHAUST HOOD	120	1	1.9	20	30A/NF/3P, 316 SS DISC. SWITCH	2#12, 1#12 EGC, 3/4" C
8	FOOD SLICER	120	1	0.5	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
9	FOOD PROCESSOR	120	1	1.4	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
13	ICE MACHINE	120	1	1.4	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
18	ROLL THRU REFRIGERATOR	120	1	1.4	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
19	ROLL THRU HEATED CABINET	208	1	1.6	20	NEMA L14-20R	2#12, 1#12 EGC, 3/4" C
22	70" X 37" HOT FOOD SERVING UNIT	120	1	1.8	20	NEMA 5-20R	2#12, 1#12 EGC, 3/4" C
23	70" X 37" FROST TOP SERVING UNIT	120	1	1.9	20	NEMA 5-20R	2#12, 1#12 EGC, 3/4" C
23.1	54" X 37" WORK TABLE / CABINET (SERVING LINE)	120	1	0.3	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
27	WALK-IN REFRIGERATOR -CONDENSING UNIT	208	3	2.8	20	30A/NF/3P, NEMA 4X SS DISC. SWITCH	3#12, 1#12 EGC, 3/4"C
28	WALK-IN FREEZER - CONDENSING UNIT	208	3	3.9	20	30A/NF/3P, NEMA 4X SS DISC. SWITCH	3#12, 1#12 EGC, 3/4"C
39	AIR CURTAIN	208	1	0.2	30	30A/NF/3P, 316 SS DISC. SWITCH	2#10, 1#10 EGC, 1/2"C
39.1	AIR CURTAIN	208	1	0.2	30	30A/NF/3P, 316 SS DISC. SWITCH	2#10, 1#10 EGC, 1/2"C
41	MILK COOLER	120	1	0.6	20	NEMA 5-15R	2#12, 1#12 EGC, 3/4" C
42	COOLER BLOWER COIL	120	1	1.2	20	30A/NF/3P, NEMA 4X SS DISC. SWITCH	2#12, 1#12 EGC, 3/4" C
43	FREEZER BLOWER COIL	208	1	2.0	20	30A/NF/3P, NEMA 4X SS DISC. SWITCH	2#12, 1#12 EGC, 3/4" C

* FOR ALL EQUIPMENT PLEASE REFER TO KITCHEN CONSULTANT/ARCHITECTURE PLANS FOR EXACT MODEL #'S



2 EQUIPMENT DUPLEX OUTLET DETAIL
SCALE:N.T.S



3 COOLER/FREEZER CONDENSING UNIT ENLARGEMENT
SCALE:N.T.S

KEY NOTES: (#)

1. FURNISH AND INSTALL SAFETY DISCONNECT SWITCH CONSISTING OF 30A/NF/3-POLE, NEMA 4X FOR COOLER CONDENSING UNIT.
2. FURNISH AND INSTALL 1-1/2" CONDUIT FOR CONTROL WIRING BETWEEN COOLER AND FREEZER CONDENSING UNITS AND BLOWERS TO SYSTEM CONTROLLER. CONTROL CABLING SHALL BE PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3. FURNISH AND INSTALL SAFETY DISCONNECT SWITCH CONSISTING OF 30A/NF/3-POLE, NEMA 4X FOR FREEZER CONDENSING UNIT.

GENERAL NOTES:

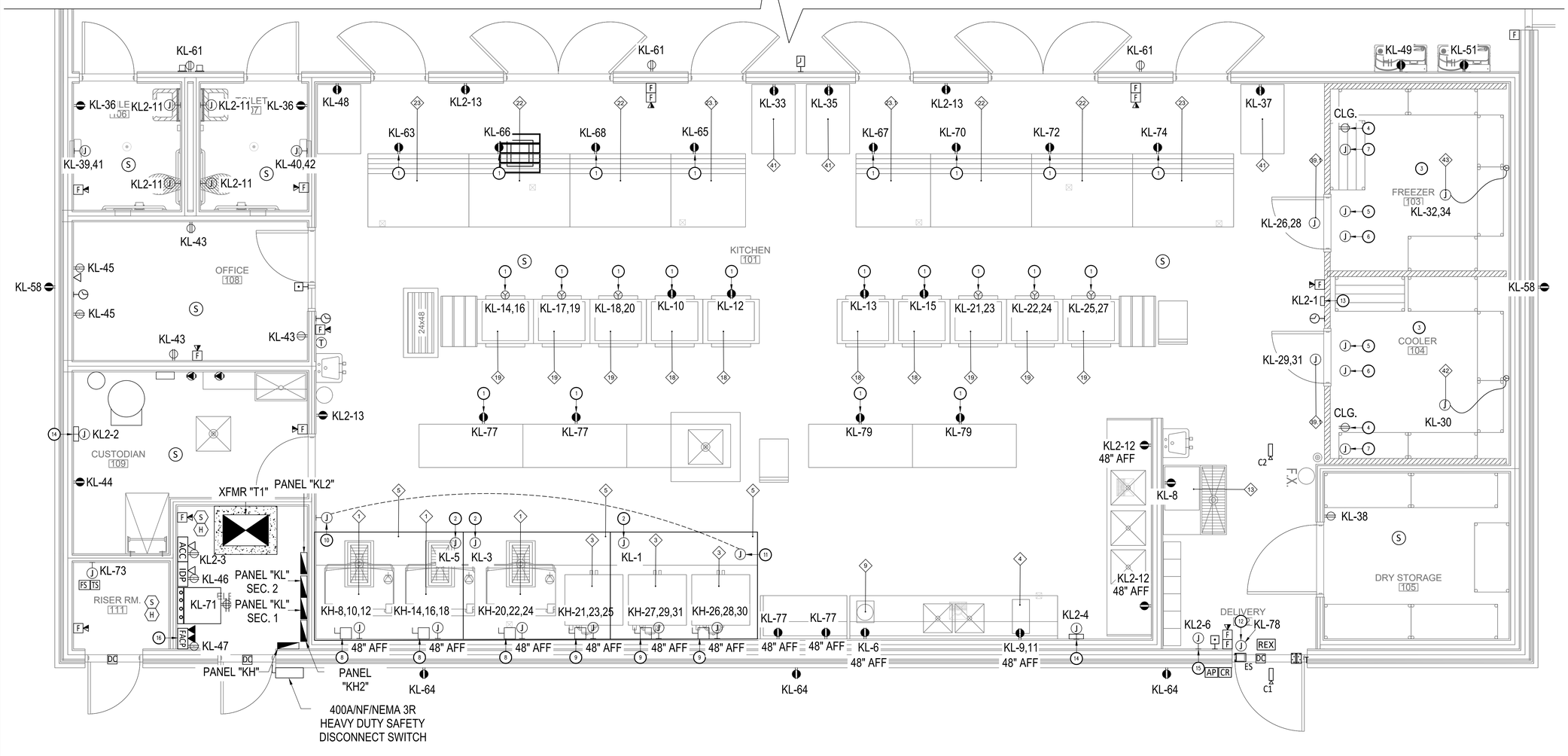
A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. FURNISH AND INSTALL FLUSH MOUNT ALL GFCI WEATHER PROOF WHILE-IN-USE SINGLE GANG FLUSH MOUNTED COVER ASSEMBLY EQUAL TO LEGRAND #WIUFC105 FOR ALL EXTERIOR RECEPTACLES.

KEY NOTES: (#)

1. FURNISH AND INSTALL RECEPTACLES USING DETAIL #3 ON SHEET E-1.2. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR NEMA TYPE REQUIRED.
2. CONNECT KITCHEN HOOD LIGHTS; BRANCH CIRCUIT WILL CONSIST OF 2#12, 1#12 EGC, 1/2" CONDUIT.
3. REFER TO DETAIL #3 SHEET E-1.2 FOR WALK-IN COOLER/FREEZER REFRIGERATION. REFER TO ARCHITECT PLANS WITH THE EXACT LOCATION.
4. FURNISH AND INSTALL POWER FOR TEMPERATURE ALARM CONSISTING OF BRANCH CIRCUIT 2#12, 1#12 EGC, 1/2 INCH CONDUIT.
5. FURNISH AND INSTALL POWER FOR DOOR HEATER AND LIGHTS CONSISTING OF BRANCH CIRCUIT 2#12, 1#12 EGC, 1/2 INCH CONDUIT.
6. FURNISH AND INSTALL POWER FOR PRESSURE RELIEF PORT CONSISTING OF BRANCH CIRCUIT 2#12, 1#12 EGC, 1/2 INCH CONDUIT.
7. FURNISH AND INSTALL POWER FOR COOLER/FREEZER LIGHTS CONSISTING OF BRANCH CIRCUIT 2#12, 1#12 EGC, 1/2 INCH CONDUIT.
8. FURNISH AND INSTALL 100-A/NF/3P, 316 SS DISC. SWITCH. THE BREAKERS FEEDING THESE DISCONNECTS WILL BE A SHUNT-TRIP TYPE BREAKER. INTERFACE WITH EXHAUST HOOD.
9. FURNISH AND INSTALL 30-A/NF/3P, 316 SS DISC. SWITCH. THE BREAKERS FEEDING THESE DISCONNECTS WILL BE A SHUNT-TRIP TYPE BREAKER. INTERFACE WITH EXHAUST HOOD.
10. FURNISH AND INSTALL JUNCTION BOX (48" AFF) FOR KITCHEN REMOTE FIRE SUPPRESSION SYSTEM PULL-STATION. FIRE SUPPRESION TO BE CONNECTED WITH BUILDING FIRE ALARM SYSTEM. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
11. FURNISH AND INSTALL JUNCTION BOX FOR FIRE SUPPRESSION SYSTEM. FIRE SUPPRESSION TO BE CONNECTED WITH BUILDING FIRE ALARM SYSTEM.
12. CONTRACTOR SHALL FURNISH AND INSTALL POWER FOR ELECTRIC STRIKE TRANSFORMER (PART # PT-1210N AIPHONE). BRANCH CIRCUIT WILL CONSIST OF 2#12,1#12 EGC, 1/2" CONDUIT. J-BOX SHALL BE ACCESSIBLE ABOVE CEILING.
13. FURNISH AND INSTALL AIPHONE C-123LW CHIME-COM SYSTEM. POWER SUPPLY SKK-620 SHALL BE INSTALLED AND ACCESSIBLE ABOVE CEILING.
14. CONTRACTOR SHALL FURNISH AND INSTALL POWER FOR TRAP PRIMER. BRANCH CIRCUIT WILL CONSIST OF 2#12,1#12 EGC, 1/2" CONDUIT. COORDINATE WITH PLUMBING DRAWINGS FOR TRAP PRIMER LOCATION.
15. CONTRACTOR SHALL FURNISH AND INSTALL POWER FOR GREASE TRAP SERVICE ALERT PANEL. BRANCH CIRCUIT WILL CONSIST OF 2#12,1#12 EGC, 1/2" CONDUIT. COORDINATE WITH PLUMBING DRAWINGS FOR GREASE TRAP SERVICE ALERT PANEL LOCATION.
16. FURNISH AND INSTALL FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL INTERFACE NEW FIRE ALARM CONTROL PANEL WITH THE EXISTING FIRE ALARM IN THE GYM BUILDING. USE 2" CONDUIT FOR CABLING. PROVIDE TWO TELEPHONE LINES FOR FIRE ALARM CONTROL PANEL.

CONTINUES ON SHEET E-1.1



1 ELECTRICAL POWER AND SPECIAL SYSTEM PLAN - KITCHEN ENLARGEMENT
SCALE: 3/8" = 1'-0"

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PANELBOARD "KH"

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM WITH NEMA 1 DOOR-IN-DOOR CONSTRUCTION

400A **MAIN CIRCUIT BREAKER** — MOUNTING: SURFACE

BUSES: MAIN -400 A; NEUTRAL - 100% ; EQUIPMENT GROUND; TG3-100-480-3Y-SD-B-M4E-F-HPI — Isc = 22KA RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
4000			INTERIOR LIGHTING	20/1	1	A	2	225/3	XFMR "T-1" FEEDING PNL KL	0	5400	30334
224			EXTERIOR LIGHTING	20/1	3	B	4	-	"	0	4500	33867
0			SPARE	20/1	5	C	6	-	"	0	5760	28711
0			SPARE	20/1	7	A	8	30/3	TILTING BRAISING PAN	0		5333
0			SPARE	20/1	9	B	10	-	"	0		5333
0			SPARE	20/1	11	C	12	-	"	0		5333
0			SPARE	20/1	13	A	14	30/3	TILTING BRAISING PAN	0		5333
0			SPARE	20/1	15	B	16	-	"	0		5333
0			SPARE	20/1	17	C	18	-	"	0		5333
0			SPARE	20/1	19	A	20	30/3	TILTING BRAISING PAN	0		5333
0		8333	CONVECTION OVEN DOUBLE-DECK	40/3	21	B	22	-	"	0		5333
0		8333	"	-	23	C	24	-	"	0		5333
0		8333	"	-	25	A	26	40/3	CONVECTION OVEN DOUBLE-DECK	0		8333
0		8333	CONVECTION OVEN DOUBLE-DECK	40/3	27	B	28	-	"	0		8333
0		8333	"	-	29	C	30	-	"	0		8333
0		8333	"	-	31	A	32	400/3	PANELBOARD KH2	4000	0	46050
0			SPARE	20/2	33	B	34	-	"	0	0	46050
0			"	-	35	C	36	-	"	0	0	44400
0		1591	KSF-1 FAN	20/3	37	A	38	60/3	SURGE PROTECTION DEVICE (SPD)	0		
0		1591	"	-	39	B	40	-	"	0		
0		1591	"	-	41	C	42	-	"	0		

VA:L (LIGHTING)	8224	CONNECTED		10280	DEMAND
VA:R (RECEPTACLES)	15660	CONNECTED		12830	DEMAND
VA:O (OTHER)	357179	CONNECTED		357179	DEMAND
VA: TOTAL	381063	CONNECTED		380289	DEMAND
AMPS: TOTAL	458	CONNECTED		457	DEMAND

L	R	O	TOTAL			
8000	5400	#####	VA CONNECTED TO A PHASE	132373	VA =	478 AMPS CONNECTED TO A PHASE @ 277 VOLTS
224	4500	#####	VA CONNECTED TO B PHASE	127230	VA =	459 AMPS CONNECTED TO B PHASE @ 277 VOLTS
0	5760	#####	VA CONNECTED TO C PHASE	121460	VA =	438 AMPS CONNECTED TO C PHASE @ 277 VOLTS
8224	15660	#####	**TOTAL**	381063	VA	

PANELBOARD "KH2"

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM WITH NEMA 1 DOOR-IN-DOOR CONSTRUCTION

400A **MAIN CIRCUIT BREAKER** — MOUNTING: SURFACE

BUSES: MAIN -400 A; NEUTRAL - 100% ; EQUIPMENT GROUND; — Isc = 22KA RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
4000		14800	RTU-1-CAF	90/3	1	A	2	90/3	RTU-3-KIT	0		14800
0		14800	"	-	3	B	4	-	"	0		14800
0		14800	"	-	5	C	6	-	"	0		14800
0		14800	RTU-2-CAF	90/3	7	A	8	90/3	SPARE	0		
0		14800	"	-	9	B	10	-	"	0		
0		14800	"	-	11	C	12	-	"	0		
0		1650	UNIT HEATER	20/2	13	A	14	20/1	SPARE	0		
0		1650	"	-	15	B	16	20/1	SPARE	0		
0			SPARE	20/1	17	C	18	20/1	SPARE	0		
0			SPARE	20/1	19	A	20	20/1	SPARE	0		
0			SPARE	20/1	21	B	22	20/1	SPARE	0		
0			SPARE	20/1	23	C	24	20/1	SPARE	0		
0			SPACE	-	25	A	26	-	SPACE	0		
0			SPACE	-	27	B	28	-	SPACE	0		
0			SPACE	-	29	C	30	-	SPACE	0		
0			SPACE	-	31	A	32	-	SPACE	0		
0			SPACE	-	33	B	34	-	SPACE	0		
0			SPACE	-	35	C	36	-	SPACE	0		
0			SPACE	-	37	A	38	-	SPACE	0		
0			SPACE	-	39	B	40	-	SPACE	0		
0			SPACE	-	41	C	42	-	SPACE	0		

VA:L (LIGHTING)	4000	CONNECTED		5000	DEMAND
VA:R (RECEPTACLES)	0	CONNECTED		0	DEMAND
VA:O (OTHER)	136500	CONNECTED		136500	DEMAND
VA: TOTAL	140500	CONNECTED		141500	DEMAND
AMPS: TOTAL	169	CONNECTED		170	DEMAND

L	R	O	TOTAL			
4000	0	46050	VA CONNECTED TO A PHASE	50050	VA =	181 AMPS CONNECTED TO A PHASE @ 277 VOLTS
0	0	46050	VA CONNECTED TO B PHASE	46050	VA =	166 AMPS CONNECTED TO B PHASE @ 277 VOLTS
0	0	44400	VA CONNECTED TO C PHASE	44400	VA =	160 AMPS CONNECTED TO C PHASE @ 277 VOLTS
4000	0	#####	**TOTAL**	140500	VA	

PANELBOARD KL

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

400 A **MAIN CIRCUIT BREAKER** | FURNISH WITH SHUNT TRIP BREAKER ; INTERFACE WITH FIRE ALARM AND HOOD — MOUNTING: SURFACE

BUSES: MAIN - 400 A; NEUTRAL - 100%; EQUIPMENT GROUND; TG3-100-208-3Y-SD-B-M4E-F-HPI — Isc = 22K A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	1920	HOOD LIGHTS	20/1	1	A	2	20/1	KEF-1	0	0	1920
0	0	1920	HOOD LIGHTS	20/1	3	B	4	20/1	KEF-2	0	0	1920
0	0	1920	HOOD LIGHTS	20/1	5	C	6	20/1	FOOD PROCESSOR	0	0	1440
0	0	1920	KEF-3	20/1	7	A	8	20/1	ICE MACHINE	0	0	1380
0	0	2500	HOT WATER DISPENSER	30/2	9	B	10	20/1	ROLL THRU REFRIGERATOR	0	0	1392
0	0	2500	"	-	11	C	12	20/1	ROLL THRU REFRIGERATOR	0	0	1392
0	0	1392	ROLL THRU REFRIGERATOR	20/1	13	A	14	20/2	ROLL THRU HEATED CABINET	0	0	811
0	0	1392	ROLL THRU REFRIGERATOR	20/1	15	B	16	-	"	0	0	811
0	0	811	ROLL THRU HEATED CABINET	20/2	17	C	18	20/2	ROLL THRU HEATED CABINET	0	0	811
0	0	811	"	-	19	A	20	-	"	0	0	811
0	0	811	ROLL THRU HEATED CABINET	20/2	21	B	22	20/2	ROLL THRU HEATED CABINET	0	0	811
0	0	811	"	-	23	C	24	-	"	0	0	811
0	0	811	ROLL THRU HEATED CABINET	20/2	25	A	26	20/2	AIR CURTAIN	0	0	125
0	0	811	"	-	27	B	28	-	"	0	0	125
0	0	125	AIR CURTAIN	20/2	29	C	30	20/1	COOLER BLOWER COIL (PLACEHOLDER)	0	0	1200
0	0	125	"	-	31	A	32	20/2	FREEZER BLOWER COIL (PLACEHOLDER)	0	0	988
0	180		MILK COOLER	20/1	33	B	34	-	"	0	0	494
0	180		MILK COOLER	20/1	35	C	36	20/1	TOILET GFCI RECEPTACLES	0	360	
0	180		MILK COOLER	20/1	37	A	38	20/1	DRY STORAGE RECEP.	0	180	
0	0	745	TOILET 106 HAND BLOWER	20/2	39	B	40	20/2	TOILET 107 HAND BLOWER	0	0	745
0	0	745	"	-	41	C	42	-	"	0	0	745
0	540		OFFICE 108 RECEP.	20/1	43	A	44	20/1	CUSTODIAN GFCI RECEP.	0	180	
0	360		OFFICE 108 RECEP.	20/1	45	B	46	20/1	INTRUSION DETECTION PANEL	0	180	
0	180		FIRE ALARM EXTENDING PANEL	20/1	47	C	48	20/1	MILK COOLER	0	180	
0	180		WATER FOUNTAINS	20/1	49	A	50	20/1	POINT OF SALES FLOOR BOX	0	720	
0	180		WATER FOUNTAINS	20/1	51	B	52	20/1	POINT OF SALES FLOOR BOX	0	720	
0	540		DINNING 100 GENERAL PURPOSE RECEP.	20/1	53	C	54	20/1	POINT OF SALES FLOOR BOX	0	720	
0	540		DINNING 100 GENERAL PURPOSE RECEP.	20/1	55	A	56	20/1	POINT OF SALES FLOOR BOX	0	720	
0	540		DINNING 100 GENERAL PURPOSE RECEP.	20/1	57	B	58	20/1	EXTERIOR GFCI RECEPTACLE SOUTH WALL	0	540	
0	540		DINNING 100 GENERAL PURPOSE RECEP.	20/1	59	C	60	20/1	EXTERIOR GFCI RECEPTACLE NORTH WALL	0	540	
0	540		DINNING 100 GENERAL PURPOSE RECEP.	20/1	61	A	62	20/1	EXTERIOR GFCI RECEPTACLE WEST WALL	0	540	
0	0	1900	FROST TOP SERVING UNIT	20/1	63	B	64	20/1	EXTERIOR GFCI RECEPTACLE EAST WALL	0	540	
0	0	1900	FROST TOP SERVING UNIT	20/1	65	C	66	20/1	HOT TOP SERVING UNIT	0	0	1750
0	0	1900	FROST TOP SERVING UNIT	20/1	67	A	68	20/1	HOT TOP SERVING UNIT	0	0	1750
0	0	1900	FROST TOP SERVING UNIT	20/1	69	B	70	20/1	HOT TOP SERVING UNIT	0	0	1750
0	720		IDF WALL MOUNTED RACK	20/1	71	C	72	20/1	HOT TOP SERVING UNIT	0	0	1750
0	180		FIRE TAMPER SWITCH	20/1	73	A	74	20/1	HOT TOP SERVING UNIT	0	0	1750
0	360		GFCI GEN RECEP.	20/1	75	B	76	20/1	RTU UNIT GFCI RECEPS.	0	540	
0	360		GFCI GEN RECEP.	20/1	77	C	78	20/1	DOOR ELECTRIC STRIKE	0	180	
0	0		SPD	60/3	79	A	80	400/3	PANEL KL2	0	900	11920
0	0		"	-	81	B	82	-	"	0	360	13840
0	0		"	-	83	C	84	-	"	0	1260	10000

VA:L (LIGHTING)	0	CONNECTED		0	DEMAND
VA:R (RECEPTACLES)	15660	CONNECTED		12830	DEMAND
VA:O (OTHER)	92912	CONNECTED		92912	DEMAND
VA: TOTAL	108572	CONNECTED		105742	DEMAND
AMPS: TOTAL	301	CONNECTED		294	DEMAND

L	R	O	TOTAL			
0	5400	30334	VA CONNECTED TO A PHASE	35734	VA =	298 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	4500	33867	VA CONNECTED TO B PHASE	38367	VA =	320 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	5760	28711	VA CONNECTED TO C PHASE	34471	VA =	287 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	15660	92912	**TOTAL**	108572	VA	

NEW PANELBOARD "KL2"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM 110 NEMA 1 WITH -DOOR-IN-DOOR CONSTRUCTION

400 A **MAIN CIRCUIT BREAKER** — MOUNTING: SURFACE

BUSES: MAIN - 400 A; NEUTRAL - 100%; EQUIPMENT GROUND; — Isc = 18K A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	180		AIPHONE MASTER POWER SUPPLY	20/1	1	A	2	20/1	TRAP PRIMER	0	180	
0	180		ACCESS CONTROL PANEL	20/1	3	B	4	20/1	TRAP PRIMER	0	180	
0	0	10000	WH-1	150/3	5	C	6	20/1	GREASE TRAP SERVICE ALERT PANEL	0	180	
0	0	10000	"	-	7	A	8	20/1	CIRCULATING PUMP	0	0	1920
0	0	10000	"	-	9	B	10	20/1	CIRCULATING PUMP	0	0	1920
0	720		SENSOR FIXTURE TRANSFORMERS	20/1	11	C	12	20/1	GFCI RECEP.	0	360	
0	540			20/1	13	A	14	20/1	GFCI GEN RECEP.	0	0	
0	0	1920	EF-4	20/1	15	B	16	20/1	SPARE	0	0	
0	0		SPARE	20/1	17	C	18	20/1	SPARE	0	0	
0	0		SPARE	20/1	19	A	20	20/1	SPARE	0	0	
0	0		SPARE	20/1	21	B	22	20/1	SPARE	0	0	
0	0		SPARE	20/1	23	C	24	20/1	SPARE	0	0	
0	0		SPARE	20/1	25	A	26	20/1	SPARE	0	0	
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPACE	-	29	C	30	-	SPACE	0	0	
0	0		SPACE	-	31	A	32	-	SPACE	0	0	
0	0		SPACE	-	33	B	34	-	SPACE	0	0	
0	0		SPACE	-	35	C	36	-	SPACE	0	0	
0	0		SPACE	-	37	A	38	-	SPACE	0	0	
0	0		SPACE	-	39	B	40	-	SPACE	0	0	
0	0		SPACE	-	41	C	42	-	SPACE	0	0	

VA:L (LIGHTING)	0	CONNECTED		0	DEMAND
VA:R (RECEPTACLES)	2520	CONNECTED		2520	DEMAND
VA:O (OTHER)	35760	CONNECTED		35760	DEMAND
VA: TOTAL	38280	CONNECTED		38280	DEMAND
AMPS: TOTAL	106	CONNECTED		106	DEMAND

L	R	O	TOTAL			
0	900	11920	VA CONNECTED TO A PHASE	12820	VA =	107 AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	360	13840	VA CONNECTED TO B PHASE	14200	VA =	118 AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	1260	10000	VA CONNECTED TO C PHASE	11260	VA =	94 AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	2520	35760	**TOTAL**	38280	VA	

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURE	MODEL NUMBER	TEMPERATURE (K)	LUMENS (LM)	WATTS (W)	VOLTAGE (V)	MOUNTING	ADDITIONAL COMMENTS & REQUIREMENTS
A1	H.E WILLIAMS	FT 24 4,239 80CRI 50K AF DIM UNV FURNISH LIGHT FIXTURES IN THE RESTROOMS WITH FLANGE KITS	4,000	4,239	152	277	CEILING MOUNTED	
A1E	H.E WILLIAMS	FT 24 4,239 80CRI 50K AF DIM UNV EM/10W FURNISH LIGHT FIXTURES IN THE RESTROOMS WITH FLANGE KITS	4,000	4,239	152	277	CEILING MOUNTED	
A2E	H.E WILLIAMS	FT 24 6054 80CRI 50K AF DIM UNV EM/10W	4,000	6,054	39	277	CEILING MOUNTED	
A3	H.E WILLIAMS	FT 24 7275 80CRI 50K AF DIM UNV	4,000	7,275	48	277	CEILING MOUNTED	
A3E	H.E WILLIAMS	FT 24 7275 80CRI 50K AF DIM UNV EM/10W	4,000	7,275	48	277	CEILING MOUNTED	
B	H.E WILLIAMS	FS-4-3,400-80-4000KVBY-2-DIM-UNV	4,000	3,400	22.7	277	CEILING MOUNTED	
BE	H.E WILLIAMS	FS-4-3,400-80-4000KVBY-2-DIM-UNV EM/10WLP	4,000	3,400	22.7	277	CEILING MOUNTED	
BB	BEACON LIGHTING	QSP2-160-35-5K7-2-UNV-PSS	5,000	5,602	37.7	277	WALL MOUNTED	
X	MULE LIGHTING	CEL-X-B-RC-BA-U-SD REFER TO PLANS FOR NUMBER OF FACES REQUIREMENTS REFER TO PLANS FOR ARROW DIRECTION REQUIREMENTS	-	-	5	277	REFER TO PLANS FOR MOUNTING REQUIREMENTS	

1 ELECTRICAL PANEL & LIGHT FIXTURE SCHEDULE

SCALE: N.T.S.

Sep 27, 2024 – 4:55pm C:\Dropbox\2024\24026 IDEA Edinburg Cafeteria\CADD\E-2.0.dwg

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09-27-2024

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Gomez Mendez Saenz Inc.
Architects-Planners

Date: September 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: TN
Job No. IDEA EDINBURG CAFETERIA
Sheet: E2.0

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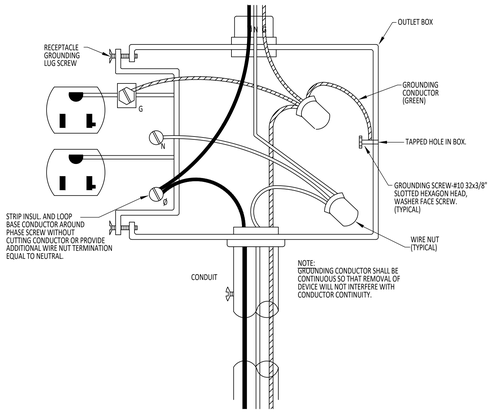


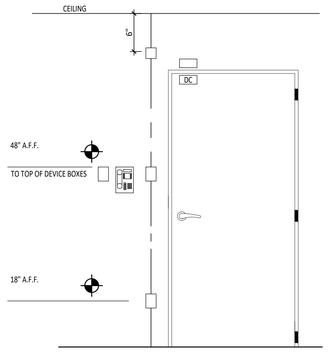
1 TYPICAL RECEPTACLE GROUNDING DETAIL

SCALE:N.T.S.

GENERAL NOTES:

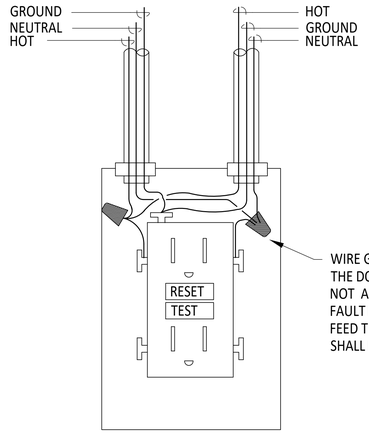
A. VIEW IS OF INTERIOR LOOKING OUT. IMAGE MAY BE MIRRORED.

B. WHEN POSSIBLE KEEP WALL DEVICES ALIGNED NEXT TO DOOR.



2 GENERAL DEVICE DETAIL

SCALE: 2



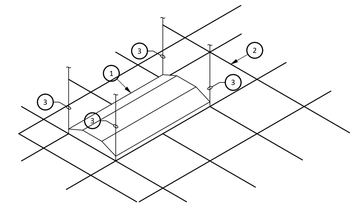
WIRE GFCI DEVICE SUCH THAT THE DOWNSTREAM DEVICES ARE NOT AFFECTED BY GROUND FAULT INTERRUPTION. IE. NON FEED THRU. EACH GFCI DEVICE SHALL BE SELF PROTECTING ONLY.

3 GFCI RECEPTACLE-WIRING DIAGRAM

SCALE:N.T.S

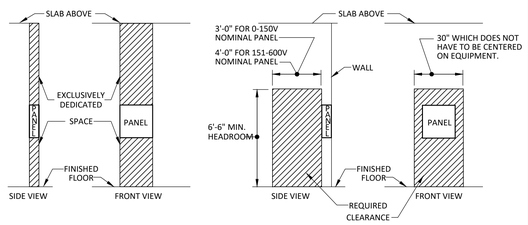
KEYNOTES:

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



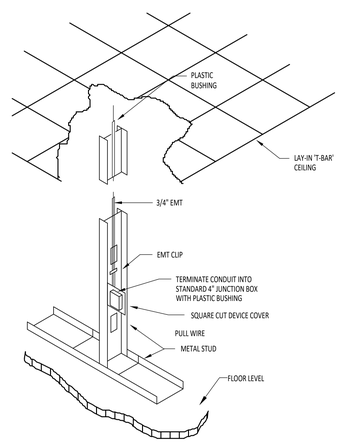
4 TYPICAL LAY-IN FIXTURE SUPPORT

SCALE:N.T.S.



5 WIRING METHOD FOR ISOLATED GROUNG

SCALE:N.T.S.



6 DATA OUTLET INSTALLATION DETAIL

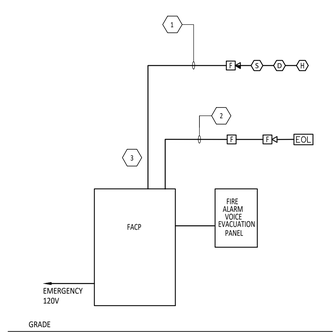
SCALE:N.T.S.

KEYED NOTES:

1 #18/2 TW/SHLD FPLP, 3/4"C, TYPICAL.

2 #14/2 TW/SHLD, 3/4"C, TYPICAL.

3 #18 SINGLE TWISTED SHIELDED PAIR FOR INITIATING DEVICES, #14 SINGLE TWISTED PAIR FOR STROBE DEVICES AND #14/2 FOR RELAY CIRCUITS, TYPICAL.

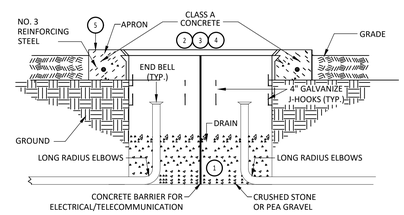


7 FIRE ALARM RISER DIAGRAM

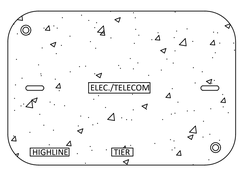
SCALE:N.T.S.

PULLBOX KEY NOTES: (4)

1. PLACE GRAVEL "UNDER" THE BOX. NOT "IN" THE BOX. GRAVEL SHOULD NOT ENCROACH ON THE INTERIOR VOLUME OF THE BOX.FURNISH AND INSTALL 18"OF DEPTH BELOW JUNCTION BOX.
2. MAINTAIN SUFFICIENT SPACE BETWEEN ALL CONDUITS SO AS TO ALLOW FOR PROPER INSTALLATION OF BUSHINGS.
3. ALL CONDUITS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
4. ALL CONDUITS INSTALLED IN THE ELECTRICAL BOX SHALL BE SEALED AFTER COMPLETION OF CONDUCTOR INSTALLATION AND ANY REQUIRED PULL TESTS. SILICONE SHALL NOT BE USED AS SEALANT.
5. FURNISH AND INSTALL 4" HEIGHT CONCRETE APRON. HEIGHT SHALL BE ABOVE GRADE.



HIGHLINE PRODUCTS
MODEL PHA243618
24-1/8" WD. x 37-1/2" LG. x 18" H.



8 ELECTRIC & TELECOMMUNICATION PULL-BOX

SCALE:N.T.S.

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Architects-Planners

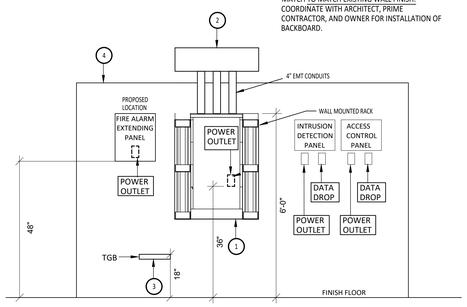
Date:	September 2024
Scale:	As Noted
Project Architect:	Roan G Gomez, AIA
Drawn By:	TN
Job No.	IDEA EDINBURG CAFETERIA
Sheet:	E2.1

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

EXAMPLE: R-A-1-1-48

KEY NOTES: (#)

1. FURNISH AND INSTALL PANDUIT WALLMOUNT CABINET WITH THE FOLLOWING:
   a. VERTICAL RACK PDUP#34D41M.
   b. BLANKING SHADES#DPFP1, 2 OR 8.
   c. VERTICAL CABLE MANAGERS #D12FBB.
   d. CABLE MANAGERS#NMF2
2. FURNISH AND INSTALL WIREWAY ABOVE CEILING 48"X12"WX12"H, HINGED NEMA 1 ENCLOSURE WITH QTY (3) 4" CONDUIT EMT CONDUIT SLEEVES WITH CONDUIT BUSHINGS FOR CAMERA, ACCESS CONTROL AND DATA CABLING.
3. APPROXIMATE LOCATION OF TELECOMMUNICATIONS GROUNDING BAR. FURNISH AND INSTALL #6AWG BONDING CONDUCTOR TO WALL MOUNTED CABINET.
4. FURNISH AND INSTALL 8'H X 4'W X 3/4"T VERTICALLY HUNG, GRADE AC, PLYWOOD AS INDICATED ON PLANS. PAINT PLYWOOD WITH TWO COATS OF FIRE RETARDANT. FURNISH AND INSTALL GYPSUM BOARD ON TOP OF THE PLYWOOD AND MATCH TO MATCH EXISTING WALL FINISH. COORDINATE WITH ARCHITECT, PRIME CONTRACTOR, AND OWNER FOR INSTALLATION OF BACKBOARD.



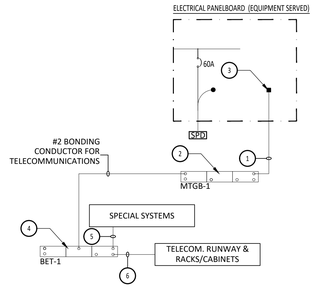
1 WALL MOUNTED TELECOM RACK ELEVATION DETAIL

SCALE:N.T.S.

ELECTRICAL GROUNDING/BONDING

KEY NOTES: (#)

1. FURNISH AND INSTALL #1/0 ELECTRODE CONDUCTOR TO BUILDING'S ELECTRICAL SERVICE. TEST TO EQUAL TO OR LESS THAN 0.1 OHMS.
2. NEMA RATED TMGB 1/4" x 4" x 20" WITH STAND OFF INSULATORS, BOND GROUND CONDUCTORS TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD. MOUNT GROUNDING BUS BAR ADJACENT TO MAIN ELECTRICAL PANEL.
3. ELECTRICAL PANEL EQUIPMENT/ELECTRODE CONDUCTOR BUSSBAR.
4. TELECOMMUNICATION GROUNDING/BONDING BUS BAR. REFER TO ELECTGRICAL PLANS FOR CONNECTION TO ELECTROD CONDUCTOR.
5. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR FOR SPECIAL SYSTEM PANELS AND EQUIPMENT RACKS/CABINETS (ie. CAMERA SURVEILLANCE AND ACCESS CONTROL, ETC.)
6. BONDING COPPER CONDUCTOR (SIZE #6 AWG) FROM BUSBAR TO THE EQUIPMENT RACKS, ALONG ENTIRE LENGHT OF ROW, BOND EACH RACK TO BONDING CONDUCTOR WITH A #6 AWG STRANDED BONDING COPPER CONDUCTOR. (TYP.)

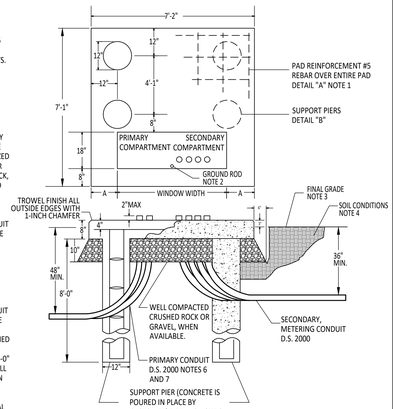


2 TELECOMM. EQUIPMENT GROUNDING & BOUNDING RISER DIAGRAM

SCALE:N.T.S.

GENERAL NOTES:

1. SLAB REINFORCEMENT SHALL BE #5 REBARS. ON CENTER (OC) SPACING TO FOLLOW DIMENSIONS SHOWN ON THE DRAWING WITH 4" COVER. REINFORCING BARS SHALL CONFORM TO ASTM A515 GRADE 60. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI/AFTER 28 DAYS.
2. FOR GROUND ROD PLACEMENT REFER TO DS 2235, 2236 OR 2237.
3. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.
4. CONCRETE PAD WITH PIERS IS TO BE INSTALLED ONLY WHEN HIGH VOLUME CLAY OR SAND TYPE SOILS ARE ENCOUNTERED. THESE SOIL TYPES ARE CHARACTERIZED BY EXTREME SURFACE CONDITION VARIATIONS OVER TIME. WHERE SOIL IS FOUND TO BE TOTALLY BEDROCK, SHALE, OR HARDPAN. ELIMINATE DRILLED PIERS AND REFER TO DS 2020 OR 2021.
5. THE NUMBER AND PLACEMENT OF SECONDARY CONDUITS TO BE DETERMINED BY ENGINEER. CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CUSTOMER.
6. PRIMARY CONDUIT MEMBER, SIZE, LOCATION, AND DIRECTION TO BE SPECIFIED BY ENGINEER. CONDUIT CAN BE FLEXIBLE. TYPE EB, OR SCHEDULE 40 PVC CONDUIT WITH 90 DEGREE, 48-INCH RADIUS.
7. BURIAL DEPTH FOR DIRECT BURIED CABLE OR CONDUIT IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE CABLE OR CONDUIT. UNLESS OTHERWISE DESIGNATED BY ENGINEER, DIRECT BURIED PRIMARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 4'-0" AND SECONDARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0" THESE INITIAL DEPTHS ARE TO ALLOW FOR CHANGES TO SURFACE CONDITIONS. LOCAL AGREEMENTS AND CODES MAY REQUIRE ADDITIONAL DEPTH. IF THERE ARE KNOWN, EXTENSIVE CHANGES TO THE FINAL GRADE SUCH THAT THESE DEPTHS ARE NOT MAINTAINED, CORRECTIVE ACTION SHALL BE TAKEN.
8. PIERS SHALL BE 12" MINIMUM DIAMETER, 8' DEEP WITH 4-#4 VERTICAL REBAR AND #3 TIES AT 12" ON CENTER (OC), AND PROVIDE A MINIMUM 3" COVER. THE #4 BEND BARS SHOULD BE 12" LONG IN THE HORIZONTAL DIRECTION.
9. PIER REBAR BENT IN THE HORIZONTAL DIRECTION SO THAT IT MAY TIE IN WITH PAD REBAR.

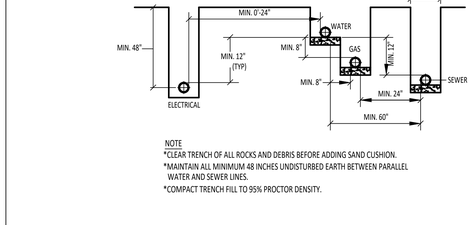


KVA SIZE	WINDOW WIDTH	A
75-500	48"	19"
750-2500	60"	13"

CONCRETE PAD AND PIERS FOR THREE PHASE PAD-MOUNTED TRANSFORMER

3 TRANSFORMER PAD DETAIL

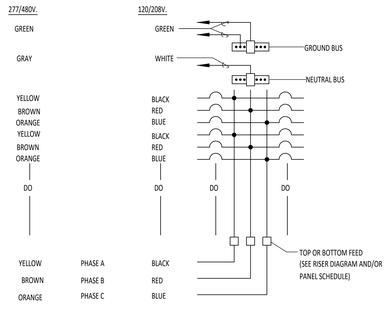
SCALE:N.T.S.



NOTE
*CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.
*MAINTAIN ALL MINIMUM 48 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES.
*COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

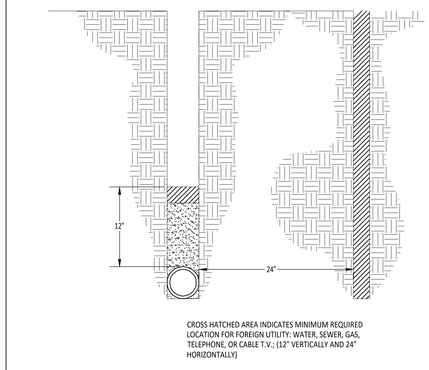
4 TRENCH DETAIL

SCALE:N.T.S.



5 TYPICAL PANEL COLOR CODE DETAIL

SCALE:N.T.S.



CROSS HATCHED AREA INDICATES MINIMUM REQUIRED LOCATION FOR FOREIGN UTILITY: WATER, SEWER, GAS, TELEPHONE, OR CABLE T.V.; (12" VERTICALLY AND 24" HORIZONTALLY)

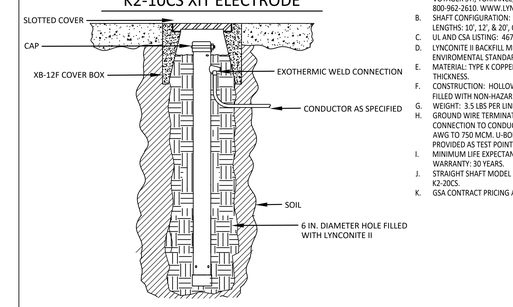
6 ELECTRICAL. PRIMARY FOREIGN UTILITY CLEARANCE REQ.

SCALE:N.T.S.

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

7 GENERAL DEVICE DETAIL

SCALE:N.T.S.



GENERAL NOTES:

STRAIGHT SHAFT MODEL: INFORMATION & SPECIFICATIONS

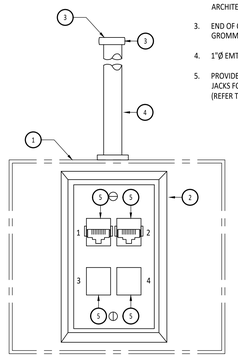
A. MANUFACTURER: LYNCOLE XIT GROUNDING, 3547 VOYAGER ST., TORRANCE, CA 90503, PHONE 800-962-2610. WWW.LYNCOLE.COM
B. SHAFT CONFIGURATION: STRAIGHT. STANDARD LENGTHS: 10', 12', & 20', OR CUSTOM.
C. UL AND CSA LISTING: 467.
D. LYNCONITE II BACKFILL MEETS ANSI/NSF ENVIROMENTAL STANDARD 60.
E. MATERIAL: TYPE K COPPER 0.083" NOMINAL WALL THICKNESS.
F. CONSTRUCTION: HOLLOW TUBE, 2.125" O.D., FILLED WITH NON-HAZARDOUS SALTS (CALSOLYTE).
G. WEIGHT: 3.5 LBS PER LINEAL FOOT.
H. GROUND WIRE TERMINATION: EXOTHERMIC CONNECTION TO CONDUCTORS FROM #2 SOLID AWG TO 750 MCM. U-BOLT WITH PRESSURE PLATE PROVIDED AS TEST POINT.
I. MINIMUM LIFE EXPECTANCY: 50 YEARS. WARRANTY: 30 YEARS.
J. STRAIGHT SHAFT MODEL NO: K2-10CS, K2-12CS, K2-20CS.
K. GSA CONTRACT PRICING AVAILABLE.

8 XIT GROUNDING SYSTEM

SCALE:N.T.S.

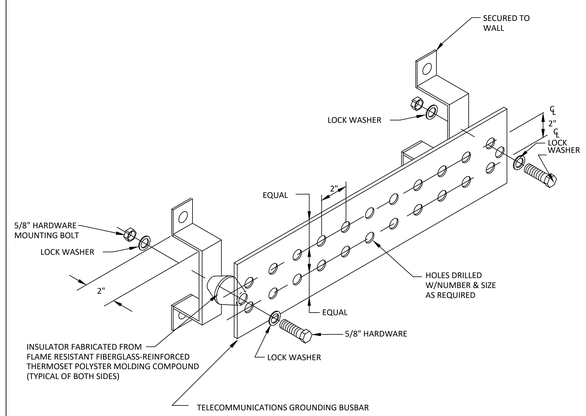
KEY NOTES: (#)

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



9 TYPICAL DATA-TELEPHONE OUTLET DETAIL

SCALE:N.T.S.

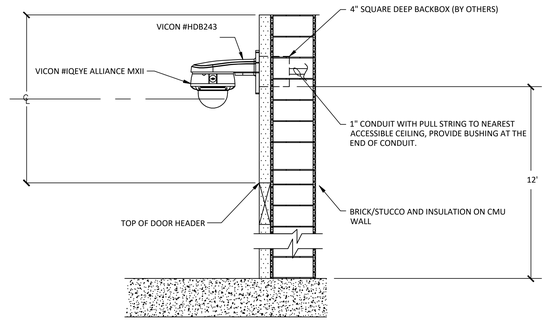


10 WALL MOUNTED TGB DETAIL

SCALE:N.T.S.

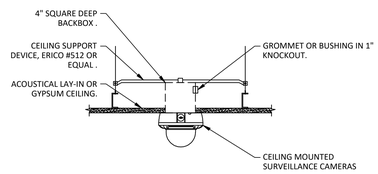
PROJECT REQUIREMENTS AND GENERAL NOTES:

A. THE CAMERA SURVEILLANCE SYSTEM/SOFTWARE/SHALL BE OWNER PROVIDED; CONTRACTOR SHALL INSTALL MOUNTING AND INSTALLATION HARDWARE



10 CAMERA MOUNTING DETAILS

SCALE:N.T.S.



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Job No:	IDEA EDINBURG CAFETERIA
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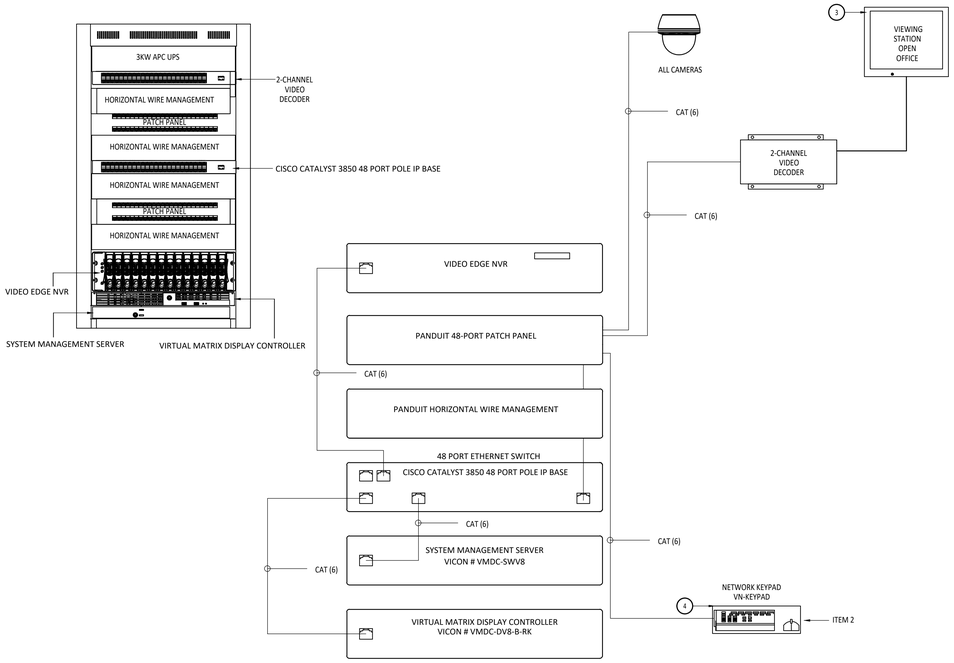

1 SURVEILLANCE CAMERA SYSTEM EQUIPMENT RACK SCHEDULE & DETAILS

SCALE:N.T.S.

SURVEILLANCE CAMERA SCHEDULE

CAMERA ID	MANUFACTURER	MODEL NUMBER	MOUNTING ACCESSORIES	MOUNTING HEIGHT	RESOLUTION	SENSOR SIZE
C1	VICON	IQM65NR-A4	-	CEILING MOUNTED	2560X1920 (5MP)	1/3.2 CMOS
C2	VICON	IQM65NR-A4	INGRESS PROTECTION (IP66) AND VANDAL RESISTANCE (IK10)	WALL 12 FEET	2560X1920 (5MP)	1/3.2 CMOS

SURVEILLANCE CABLING AND CONDUIT SCHEDULE

CAMERA ID	TYPE	MANUF. MODEL NUMBER	CABLE/CONDUIT SIZE
C1	COPPER	COPPER INDOOR CAT 6; PANDUIT #CMP-77-246GGB	QTY.(1) 4 PAIR CAT. 6 (SURVEILLANCE CAMERA)
C2	COPPER	COPPER INDOOR CAT 6; PANDUIT #CMP-77-246GGB	QTY.(1) 4 PAIR CAT. 6 (SURVEILLANCE CAMERA)

CAMERA SURVEILLANCE RACK EQUIPMENT

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

2 EQUPIMENT IDENTIFICATION LABEL DETAIL

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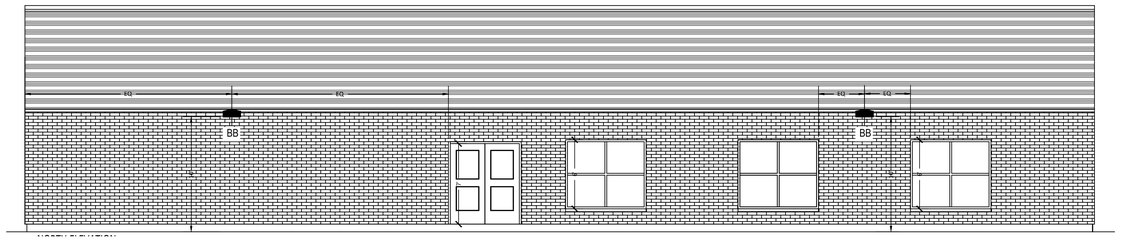
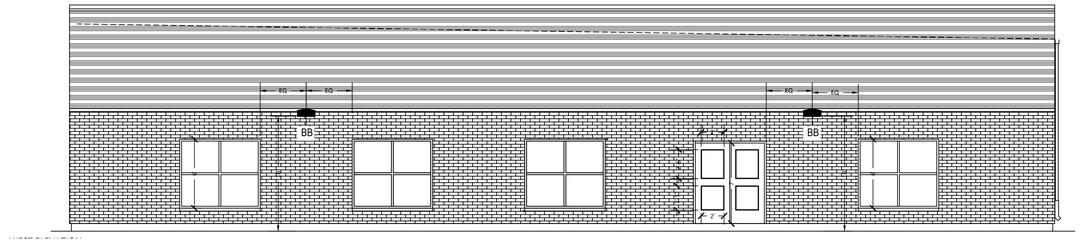
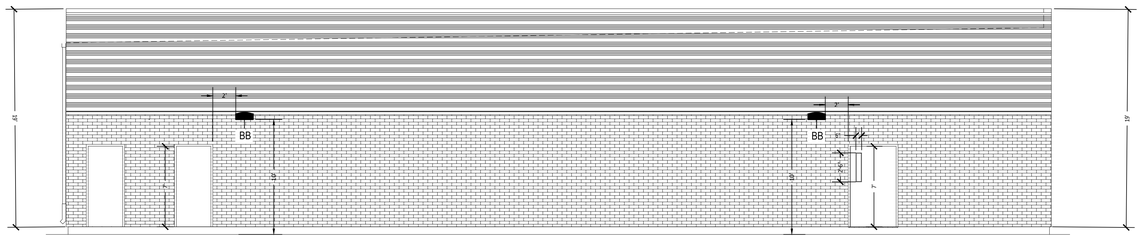


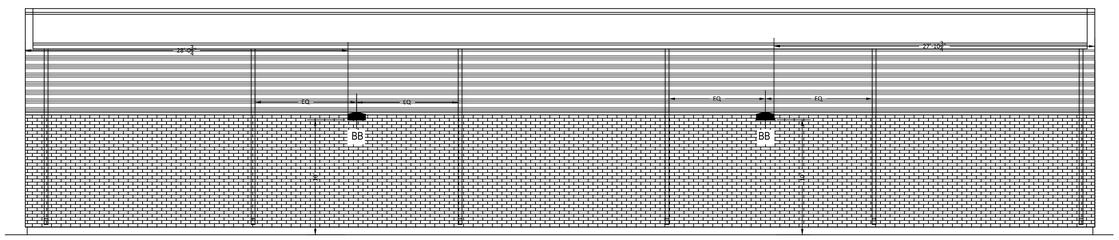
1 ELECTRICAL LIGHTING ELEVATIONS - NORTH
SCALE: 3/16" = 1'-0"



2 ELECTRICAL LIGHTING ELEVATIONS - WEST
SCALE: 3/16" = 1'-0"



3 ELECTRICAL LIGHTING ELEVATIONS - EAST
SCALE: 3/16" = 1'-0"



4 ELECTRICAL LIGHTING ELEVATIONS - SOUTH
SCALE: 3/16" = 1'-0"

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ELECTRICAL GENERAL LEGEND

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

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	POWER			FIRE ALARM	
	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G	15" AFF	F	FIRE ALARM AUDIBLE/VISUAL SIGNAL	CEILING MOUNTED
	DUPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; C = CEILING MOUNTED.	15" AFF	F	FIRE ALARM PULL STATION	48" AFF
	DUPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH ISOLATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	15" AFF	F	FIRE ALARM AUDIBLE/VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM AUDIBLE SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	AS REQD.	FS	FIRE ALARM SPRINKLER FLOW SWITCH	-
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	AS REQD.	TS	FIRE ALARM SPRINKLER TAMPER SWITCH	-
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF	S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
MPFB	AUDIO, VIDEO, DATA, AND POWER FLOOR BOX WIRING DIVICE. FURNISH AND INSTALL EQUAL LEGRAND #RBF11; FURNISH WITH THE FOLLOWING: QTY.(2) IG DUPLEX RECEPTACLES AND 6 PORT-DATA WIRING DEVICE PLATE TO ACCOMODATE CATEGORY 6A CABELING.FLOOR BOX CONVER TO MATCH FINISH FLOOR TYPE (IE. CARPET, TILE, WOOD, ETC.)	FLOOR	H	HEAT DETECTOR CEILING OR WALL MOUNTED	-
			D	DUCT SMOKE DETECTOR	AS REQD.
			FACP	FIRE ALARM CONTROL PANEL	AS REQD.
FB	FURNITURE FEED POKE THRU BOX FOR POWER. FURNISH AND INTALL EQUAL TO LEGRAND 6ATCFF WITH THE FOLLOWING: 5BLH OUTER COMPARTMENT 1 17SCHA &18HA CENTER COMPARTMENT 5BLH OUTER COMPARTMENT 1	SECOND FLOOR	FAAP	FIRE ALARM ANNUNCIATOR PANEL	AS REQD.
			FAEP	FIRE ALARM EXTENDING PANEL	AS REQD.
			IDP	INSTRUSION DETECTION PANEL	AS REQD.
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	$	SWITCH	-
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.	$3	3 WAY LIGHT SWITCH	-
30/30/3	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	GB	GLASS BREAK SENSOR	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.	DS	DOOR STATUS SWITCH	AS REQD.
CB	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.	ADO	AUTOMATIC DOOR OPERATOR	AS REQD.
	PANELBOARD	-	R	FIRE ALARM CONTROL RELAY	-
	MOTOR	-			
~	SINGLE LINE CONTINUATION	-			
GAAP	GENERATOR ANNUNCIATOR PANEL	-			
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-			
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-			
	TELEPHONE OUTLET	-			
	DATA OUTLET	-			
	TELEPHONE/DATA OUTLET	-			
	TRANSFORMER	-			

GENERAL ABBREVIATIONS

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

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

SPECIAL SYSTEMS LEGEND

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

SYMBOL	DESCRIPTION
AP	AIPHONE DOOR (C-D)
CR	CARD READER HID GLOBAL #40NKS
ES	ELECTRIC STRIKE (#EL-9S)
T	POWER TRANSFER DEVICE (REFER TO HARDWARE SPEC FOR REQUIREMENTS)
DC	DOOR CONTACT
REX	REQUEST TO EXIT CONTROL. MOUNT ABOVE DOOR AS REQUIRED.
IDS	INTRUSION DETECTION PANEL
ACC	ACCESS CONTROL PANEL
INT	INTERCOM SYSTEM PANEL
AV	AUDIO AND VIDEO WALL WIRING DEVICE. FURNISH AND INSTALL LEGRAND EFSB4 WITH QTY.(3) 1-INCH CONDUITS WITH PULL STRINGS FROM BOX TO ACCESSIBLE ABOVE CEILING.
	DIGITAL CLOCKS - SINGLE FACE, IP BASED, COMBO SPEAKERS
	DIGITAL CLOCKS - DOUBLE FACE, IP BASED, VN ALERT SYSTEM
GB	GLASSBREAK SENSOR
S	INTRUSION DETECTION SIREN
	TELEPHONE BOARD
J	SPECIAL SYSTEM SUPPORT SYSTEM (J-HOOKS) FURNISH SIZE AS NOTED ON PLANS
#	DATA OUTLET. WALL MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
#	TELEPHONE OUTLET. WALL MOUNTED, #=NUMBER OF DROPS; D=DATA, V=VOICE
S	INTERCOM SPEAKER
WP	INTERCOM SPEAKER; WP = WEATHER PROOF
	INTERCOM PUSH BUTTON SWITCH
	CEILING MOUNTED PROJECTOR MOUNT HARDWARE, CEILING MOUNTED RECESSED AUDIO AND VIDEO DEVICES, AND CEILING MOUNTED RECESSED RECEPTACLE.
WAP X	WIRELESS ACCESS POINTS; X DENOTES ACCESS POINT ID#
X DENOTES CAMERA # / X DENOTES CAMERA TYPE / X DENOTES CAMERA #	SURVEILLANCE CAMERAS (UNLESS OTHER WISE NOTED, ALL CAMERAS ARE FIXED) PTZ= (PAN-TILT-ZOOM) REFER TO MOUNTING DETAILS FOR MOUNTING HARDWARE REQUIREMENTS; FOR EXTERIOR CAMERAS, FURNISH AND INSTALL 1-INCH WITH PULL STRING FROM THE CAMERA TO A 1-FOOT OF EMT CONDUIT WITH CONDUIT BUSHINGS ACCESSIBLE ABOVE INTERIOR CEILINGS.
AV RACK	AUDIO/VIDEO CONFERANCE TRAINING RACK

1 ELECTRICAL GENERAL LEGEND
SCALE: N.T.S.

Sep 27, 2024 – 4:56pm C:\Dropbox\2024\24026 IDEA Edinburg Cafeteria\CADD\E-3.0.dwg

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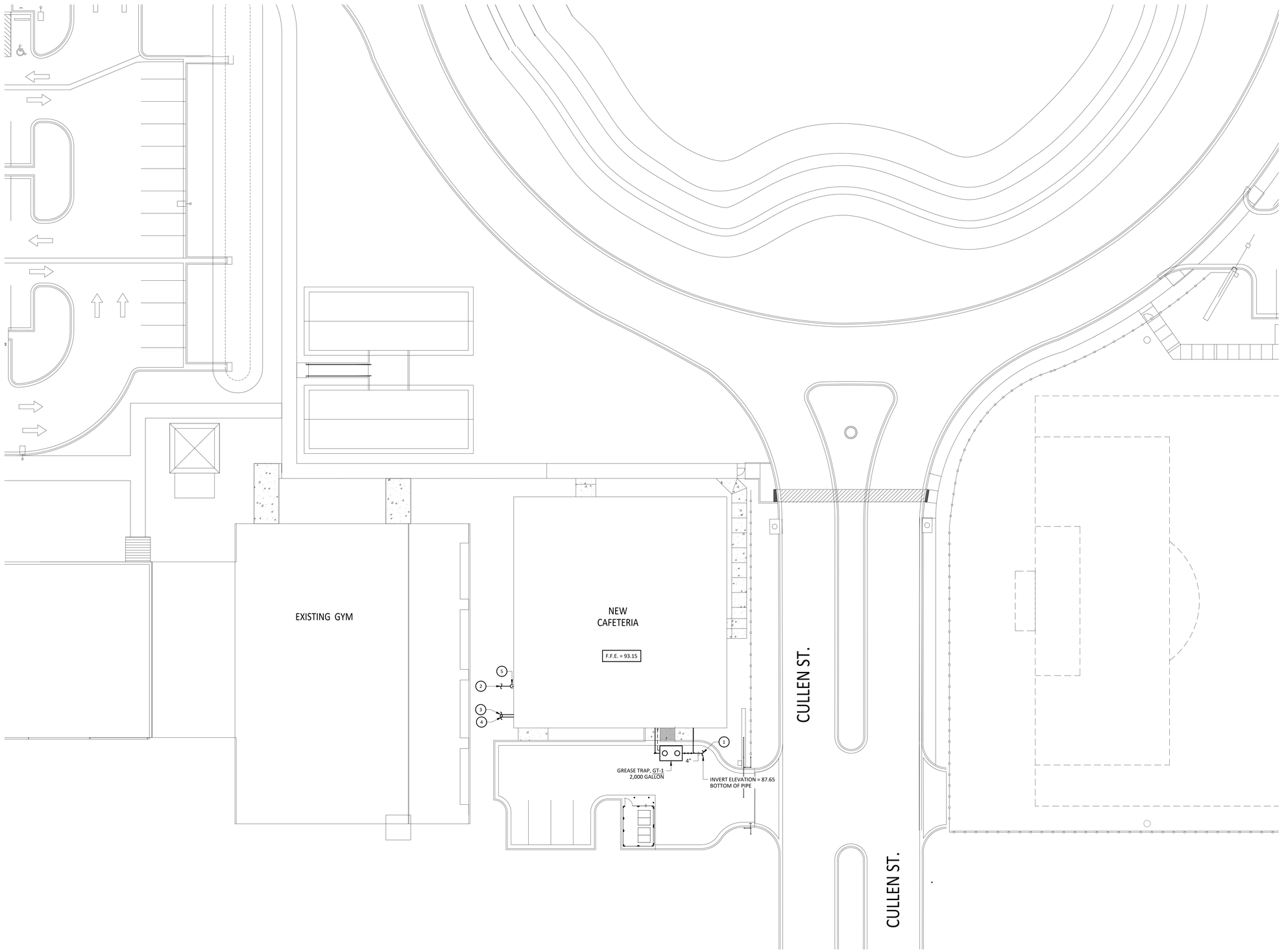

1 PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP1.0 FOR GENERAL NOTES.

B. GREASE WASTE PIPING UPSTREAM OF GREASE INTERCEPTOR SHALL BE SLOPED AT 1/4" PER FOOT.

KEY NOTES: (4)

1. 4" SANITARY SEWER SERVICE PIPING. INVERT ELEVATION = 87.65 BOTTOM OF PIPE. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION. COORDINATE INVERT, DIRECTION OF FLOW AND POINT OF CONNECTION PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.

2. 2" DOMESTIC WATER SERVICE PIPING. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION. COORDINATE INVERT, DIRECTION OF FLOW AND POINT OF CONNECTION PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.

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

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

5. RISE SERVICE WATER SUPPLY PIPING ON EXTERIOR OF BUILDING AND PENETRATE INTO CUSTODIAN ROOM 2-FEET ROOM ABOVE FINISH FLOOR. SHUT-OFF VALVE 18-INCHES ABOVE FINISH FLOOR ON VERTICAL PIPE. EXPOSED PIPING AND SHUT-OFF VALVE SHALL BE INSULATED AND JACKETED. JACKET SHALL BE PVC OR ALUMINIUM JACKETING.

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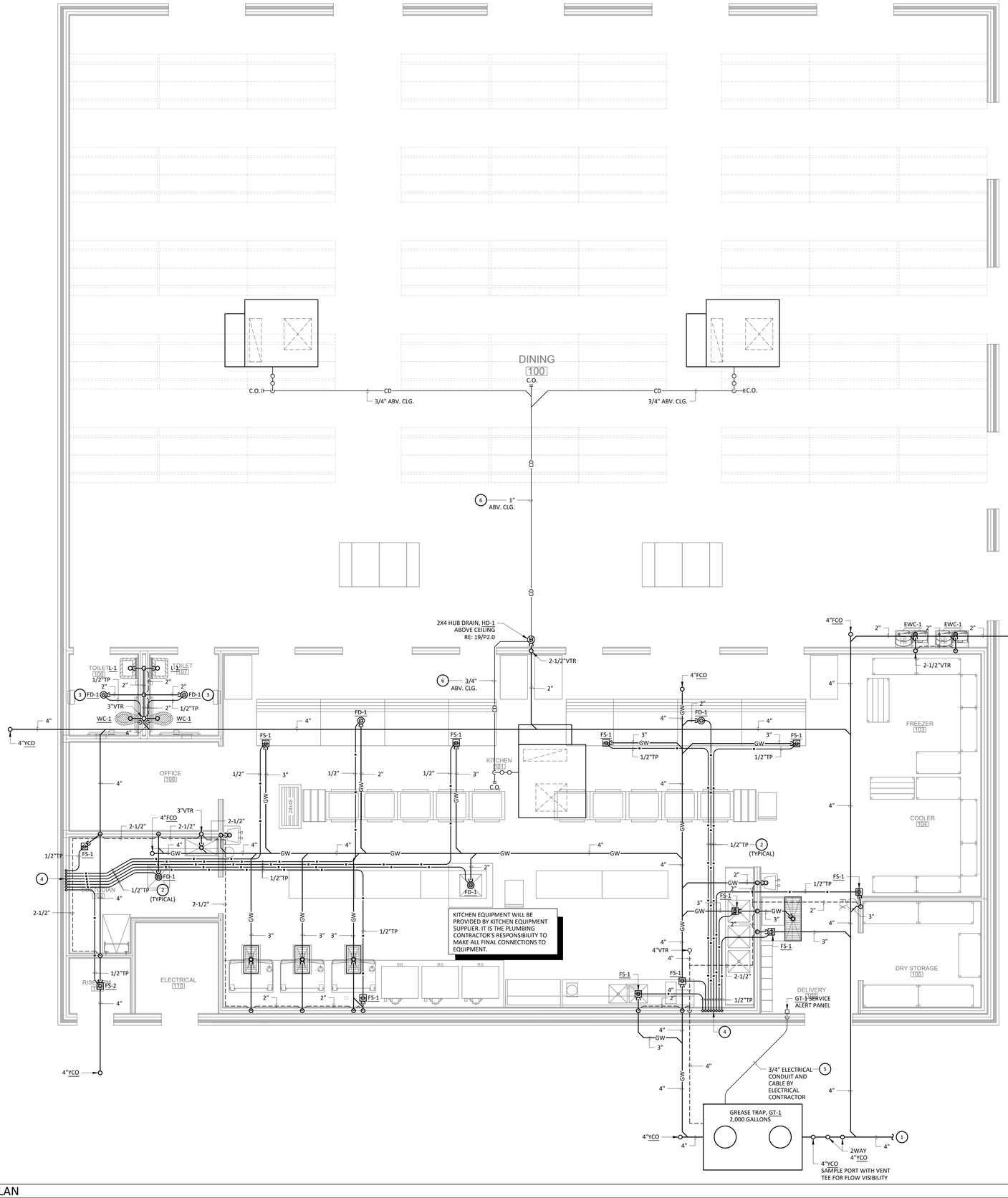

1 PLUMBING SANITARY SEWER PLAN

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

GENERAL NOTES:

A. REFER TO SHEET MEP1.0 FOR GENERAL NOTES.

B. GREASE WASTE PIPING UPSTREAM OF GREASE INTERCEPTOR SHALL BE SLOPED AT 1/4" PER FOOT.

KEY NOTES: (4)

1. 4" SANITARY SEWER SERVICE PIPING. INVERT ELEVATION = 87.65 BOTTOM OF PIPE. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION. COORDINATE INVERT, DIRECTION OF FLOW AND POINT OF CONNECTION PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
2. TRAP PRIMER PIPING BELOW FINISH FLOOR SHALL BE SINGLE PIECE SOFT DRAWN FLEXIBLE COPPER PIPING WITH NO ELBOWS OR JOINTS. TRAP PRIMER PIPING SHALL BE UNDER SLAB SHALL BE ENCASED IN POLYETHYLENE SLEEVE AND RISE CONCEALED IN WALL. RE: 15/P2.0.
3. FLOOR DRAIN SHALL BE PRIMED FROM NEAREST WATER CLOSET FLUSH VALVE. TRAP PRIMER PIPING BELOW FINISH FLOOR SHALL BE SINGLE PIECE SOFT DRAWN FLEXIBLE COPPER PIPING WITH NO ELBOWS OR JOINTS. TRAP PRIMER PIPING SHALL BE UNDER SLAB SHALL BE ENCASED IN POLYETHYLENE SLEEVE AND RISE CONCEALED IN WALL. RE: 14/P2.0.
4. RISE AND CONNECT ALL INDIVIDUAL TRAP PRIMER PIPES TO ELECTRONIC TRAP PRIMER SYSTEM MANIFOLD ABOVE CEILING. REFER TO DOMESTIC WATER PLAN FOR TRAP PRIMER LOCATION ABOVE CEILING.
5. GREASE TRAP GT-1 SHALL BE PROVIDED WITH WALL MOUNTED SERVICE ALERT PANEL, NOTIFIES GREASE MAXIMUM CAPACITY WITH AUDIBLE & VISUAL ALARM. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 3/4" CONDUIT AND CABLES FROM GREASE TRAP TANK SENSORS TO ALARM PANEL LOCATED IN ROOM DELIVERY 102. PLUMBING CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
6. PROVIDE AND INSTALL INSULATED COPPER CONDENSATE DRAIN PIPING IN CEILING SPACE. PROVIDE PIPE SUPPORTS MAXIMUM 5'-0" O.C. SPACING. SLOPE PIPING 1/8 INCH PER FOOT. ROUTE AND DRAIN INDIRECTLY INTO NEAREST HUB DRAIN ABOVE CEILING. INSULATE CONDENSATE PIPING ON BOTH EXTERIOR AND INTERIOR OF BUILDING. RE: 17,19/P2.0.

GREASE TRAP SIZE

FIXTURE TYPE	TRAP SIZE	FIXTURE UNITS		QUANTITY	TOTAL
3 COMPARTMENT SINK	3"	6	X	1	6
1 COMPARTMENT SINK	3"	6	X	1	6
MOP SINK	2"	2	X	1	2
FLOOR DRAINS	2"	2	X	4	8
FLOOR SINKS	3"	3	X	6	18
TRENCH DRAIN	3"	3	X	4	12
HAND SINK	2"	0	X	2	0
			TOTAL	FIXTURE UNITS = 52	

52 TOTAL FIXTURE UNITS X 3 GALLONS/MINUTE = 156 GREASE TRAP FLOW RATING

156 FLOW RATING X 12 MINUTES = 1,872 GALLONS CAPACITY

NOTES:
- INTERCEPTOR VOLUME REQUIRED BY CITY OF EDINBURG PRETREATMENT DEPARTMENT IS 2,000 GALLONS
- GREASE TRAP SIZE SHALL BE PRE-APPROVED BY EDINBURG PUBLIC UTILITY-WASTEWATER DIVISION PRETREATMENT DEPARTMENT PRIOR TO PURCHASING.
- UNDERGROUND GREASE TRAP INSTALLATION SHALL BE INSPECTED AND APPROVED BY CITY OFFICIAL PRIOR TO COVERING GREASE TRAP AND ASSOCIATED PIPING.

PLUMBING CONTRACTOR SHALL COORDINATE SANITARY SEWER, DOMESTIC WATER, FIRE LINE AND FIRE DEPARTMENT CONNECTION PIPING DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH CIVIL PLANS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

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Date: September 2024
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Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
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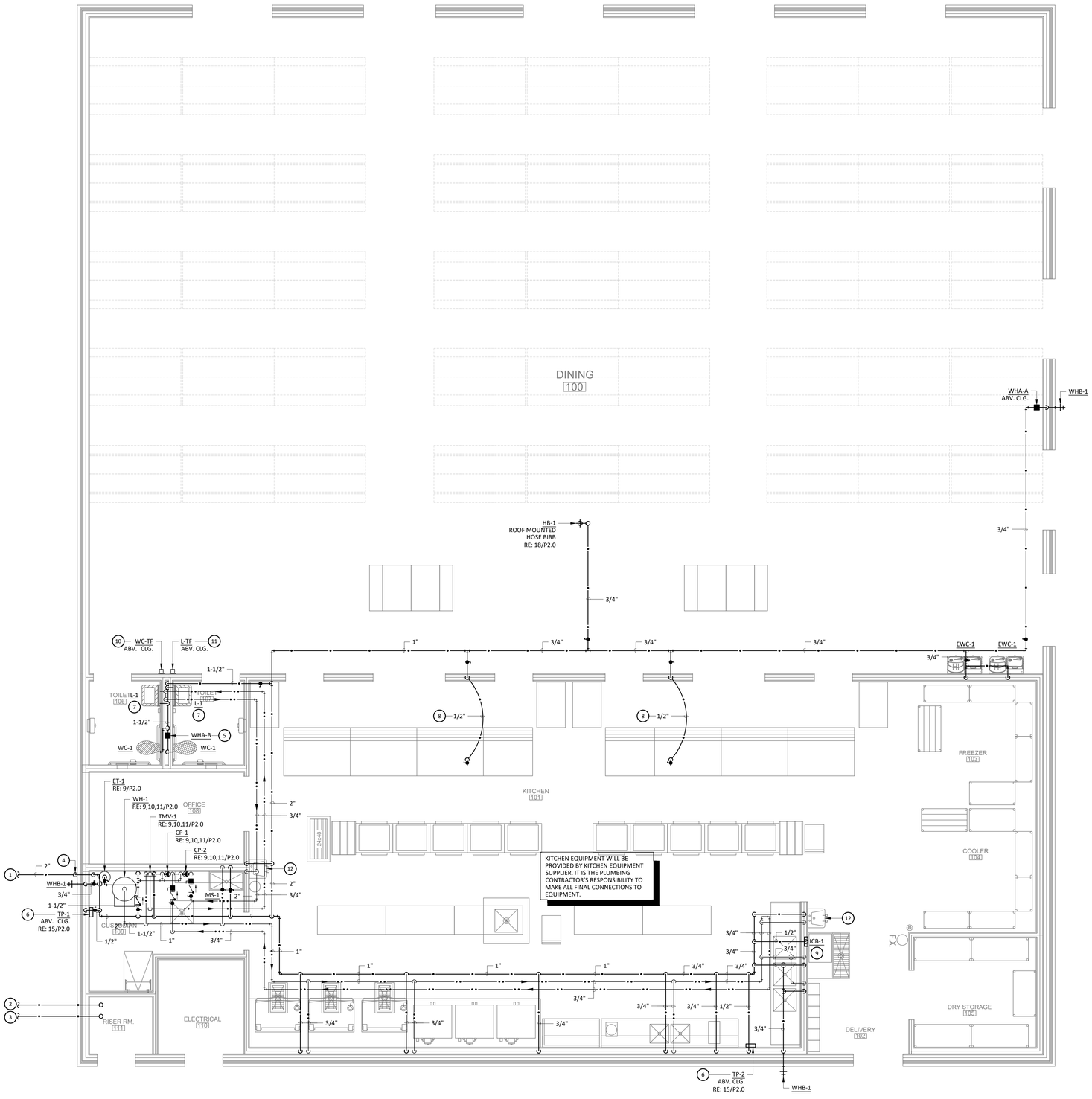

GENERAL NOTES:

A. REFER TO SHEET MEP1.0 FOR GENERAL NOTES.

KEY NOTES: (4)

1. 2" DOMESTIC WATER SERVICE PIPING. REFER TO CIVIL UTILITY SITE PLAN FOR CONTINUATION. COORDINATE INVERT, DIRECTION OF FLOW AND POINT OF CONNECTION PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
2. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. BACK FLOW PREVENTION AND SIZE OF PIPING SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH THE FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.
3. PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH THE FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.
4. RISE SERVICE WATER SUPPLY PIPING ON EXTERIOR OF BUILDING AND PENETRATE INTO CUSTODIAN ROOM 2-FEET ROOM ABOVE FINISH FLOOR. SHUT-OFF VALVE 18-INCHES ABOVE FINISH FLOOR ON VERTICAL PIPE. EXPOSED PIPING AND SHUT-OFF VALVE SHALL BE INSULATED AND JACKETED. JACKET SHALL BE PVC OR ALUMINIUM JACKETING.
5. WATER HAMMER ARRESTOR IN CHASE. PROVIDE 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH VANDAL PROOF LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH GRAB BARS, FLUSH VALVE AND /OR OTHER WALL MOUNTED EQUIPMENT AND DEVICES.
6. ELECTRONIC TRAP PRIMER VALVE ABOVE CEILING. REFER TO PLUMBING SANITARY SEWER PLAN FOR TRAP PRIMER LINE ROUTING IN WALL AND BELOW FINISH FLOOR.
7. PROVIDE AND INSTALL UNDER LAVATORY/HAND SINK THERMOSTATIC MIXING VALVE TMV-2, SET TEMPERATURE TO 100°F. MOUNT THERMOSTATIC MIXING VALVE TIGHT TO FIXTURE. RE: 13/P2.0.
8. PROVIDE AND INSTALL 1/2" SOFT DRAWN COPPER PIPING UNDER SLAB TO SERVE KITCHEN EQUIPMENT. ENCASE PIPING INSIDE MASONRY WALL OR UNDER SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL. COORDINATE STUB-UP FINAL LOCATION WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. CONNECTION BETWEEN WATER SUPPLY PIPING AND KITCHEN EQUIPMENT SHALL BE WITH A FLEXIBLE HOSE.
9. PROVIDE AND INSTALL SINGLE FILTER WATER FILTERATION SYSTEM AS REQUIRED FOR ICE MAKER.
10. WATER CLOSET SENSOR FLUSH VALVE TRANSFORMER (WC-TF) ABOVE CEILING. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE AND ELECTRICAL REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. REFER TO ELECTRICAL POWER PLANS FOR ELECTRICAL POWER REQUIREMENTS.
11. LAVATORY FAUCET(S)SENSOR FLUSH VALVE TRANSFORMER (L-TF) ABOVE CEILING. LOW VOLTAGE WIRING UNDER LAVATORY FROM FAUCET TRANSFORMER TO FAUCET SHALL BE INSTALLED AND PROTECTED WITH STAINLESS STEEL FLEXIBLE ELECTRICAL CONDUIT. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE AND ELECTRICAL REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. REFER TO ELECTRICAL POWER PLANS FOR ELECTRICAL POWER REQUIREMENTS.
12. PROVIDE AND INSTALL UNDER LAVATORY/HAND SINK THERMOSTATIC MIXING VALVE TMV-2, SET TEMPERATURE TO 110°F. MOUNT THERMOSTATIC MIXING VALVE TIGHT TO FIXTURE. RE: 12/P2.0.

PLUMBING CONTRACTOR SHALL COORDINATE SANITARY SEWER, DOMESTIC WATER, FIRE LINE AND FIRE DEPARTMENT CONNECTION PIPING DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH CIVIL PLANS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

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

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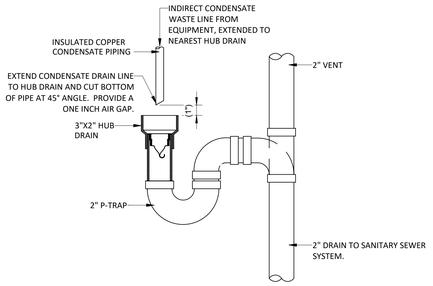
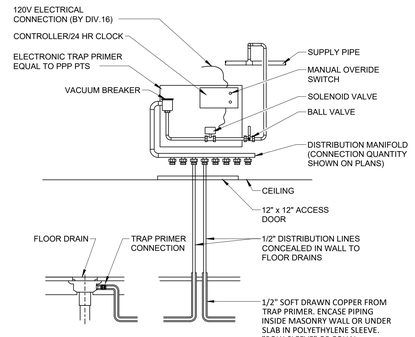


IMPORTANT NOTES:
- 2"X3" HUB DRAIN SHALL BE PROVIDED AND INSTALLED WITH PROVENT SYSTEMS PROSET TRAP GUARDS MODEL #TG TO PREVENT P-TRAP WATER EVAPORATION.

19 HUB DRAIN DETAIL
SCALE:N.T.S.



15 ELECTRONIC TRAP PRIMER DETAIL
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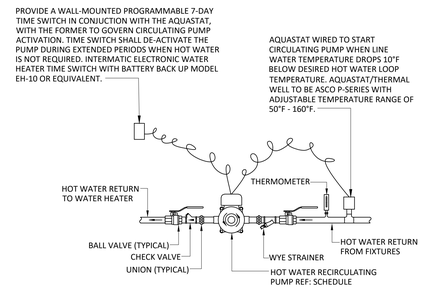
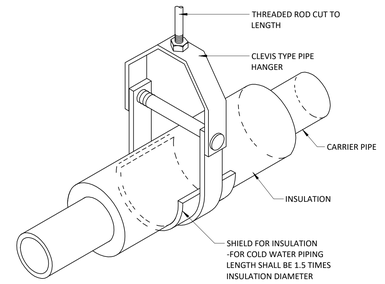


NOTE:
1. MOUNT SECURELY IN AN ACCESSIBLE LOCATION 48" ABOVE FINISH FLOOR.
2. PROVIDE AQUASTAT ON HOT WATER RETURN LINE, WIRED TO START CIRCULATING PUMP WHEN LINE WATER TEMPERATURE DROPS 10°F BELOW DESIRE HOT WATER LOOP TEMPERATURE.

11 IN-LINE CIRCULATING PUMP DETAIL
SCALE:N.T.S.



7 PIPE HANGER CLEVIS TYPE FOR INSULATION
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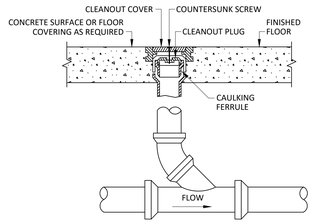

3 FLOOR CLEANOUT DETAIL
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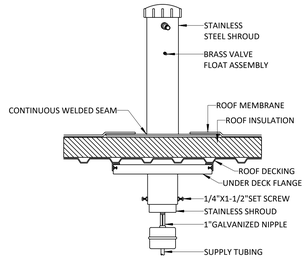

18 ROOF MOUNTED PEDESTAL HYDRANT DETAIL
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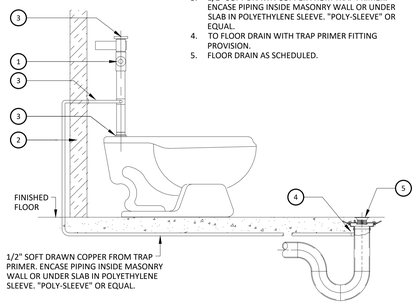
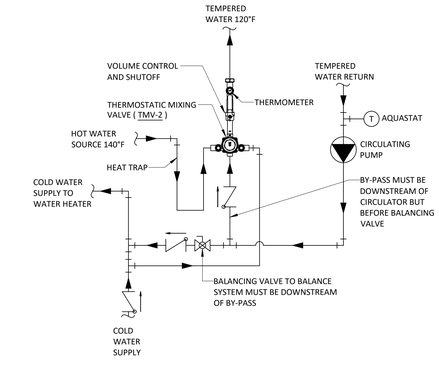
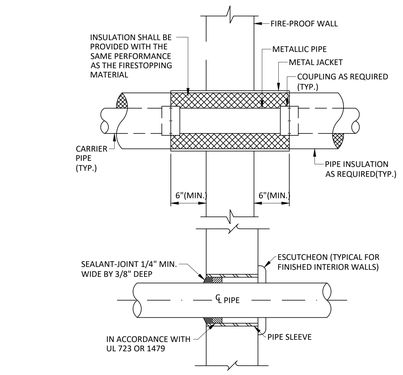


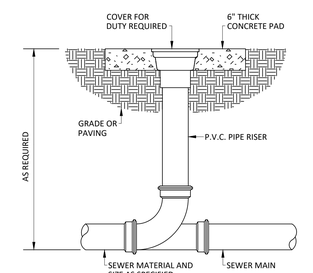
14 FLUSH VALVE TRAP PRIMER DETAIL
SCALE:NOT TO SCALE



10 THERMOSTATIC MIXING VALVE PIPING DIAGRAM
SCALE:N.T.S.



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



2 EXTERIOR CLEANOUT DETAIL
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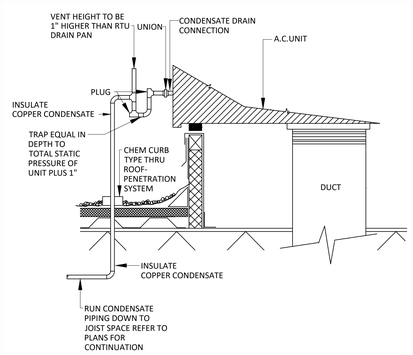

17 RTU CONDENSATE CONNECTION DETAIL
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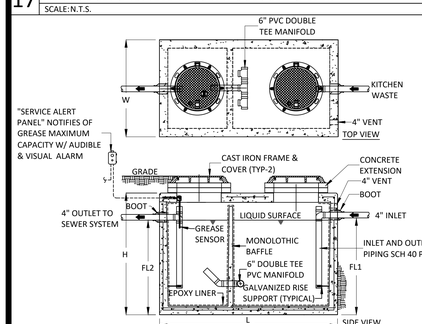
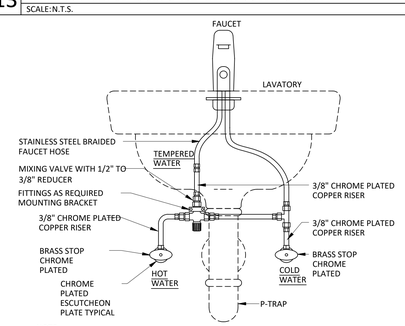


GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT. (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-2000	1,500	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"

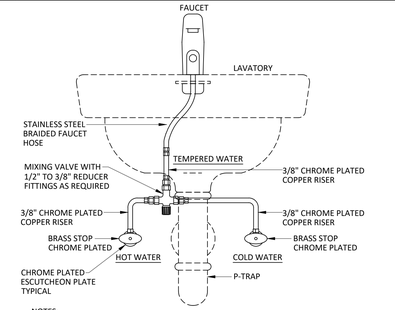
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE INTERCEPTOR WITH ADEQUATE STRUCTURAL STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION. PROVIDE LARGER TANK IF REQUIRED BY LOCAL AUTHORITIES - VERIFY.

16 GREASE INTERCEPTOR DETAIL
SCALE:N.T.S.



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

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



NOTES:
1. MOUNTING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. JACKET INSULATION TO MATCH TRAP COVER KIT.
2. PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.
3. PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
4. FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION.

13 MIXING VALVE UNDER LAVATORY DETAIL
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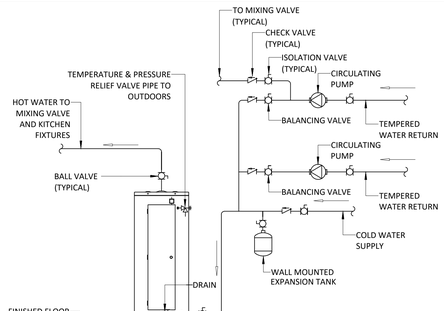

9 WATER HEATER PIPING DIAGRAM
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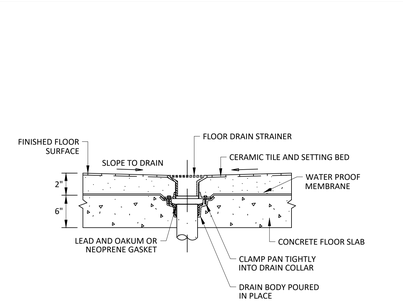

5 OPEN AREA FLOOR DRAIN DETAIL
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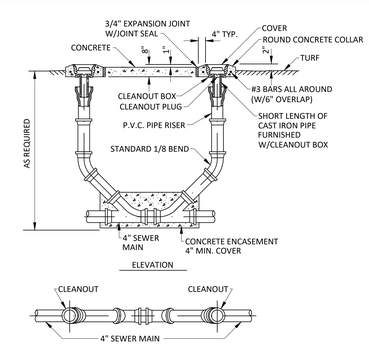

1 TYPICAL EXTERIOR TWO WAY CLEANOUT DETAIL
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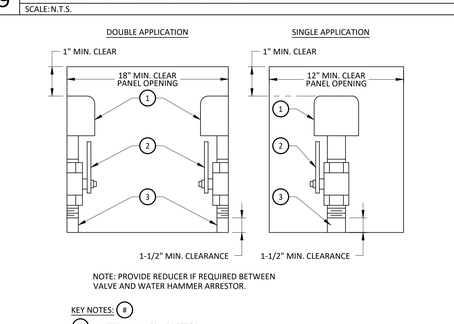

NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

KEY NOTES: (#)
1. WATER HAMMER ARRESTOR
2. BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE I.D.
3. PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT IS ATTACHED.

8 TYPICAL WATER HAMMER PANEL INSTALLATION
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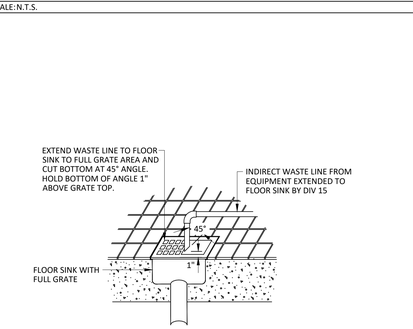

4 INDIRECT WASTE LINE DETAIL
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Drawn By:	GH
Job No.	IDEA EDINBURG CAFETERIA
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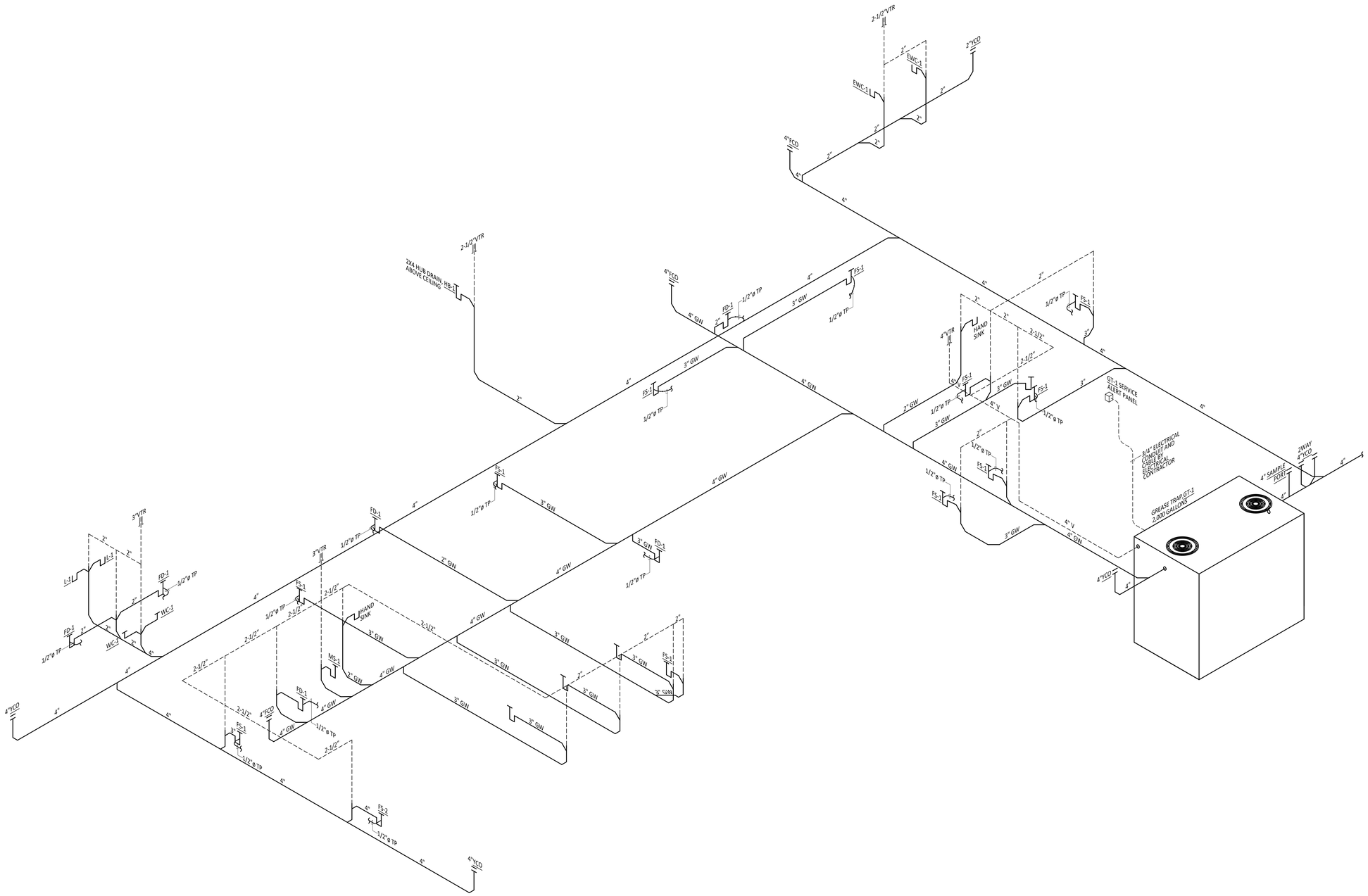

1 PLUMBING SANITARY SEWER RISER DIAGRAM

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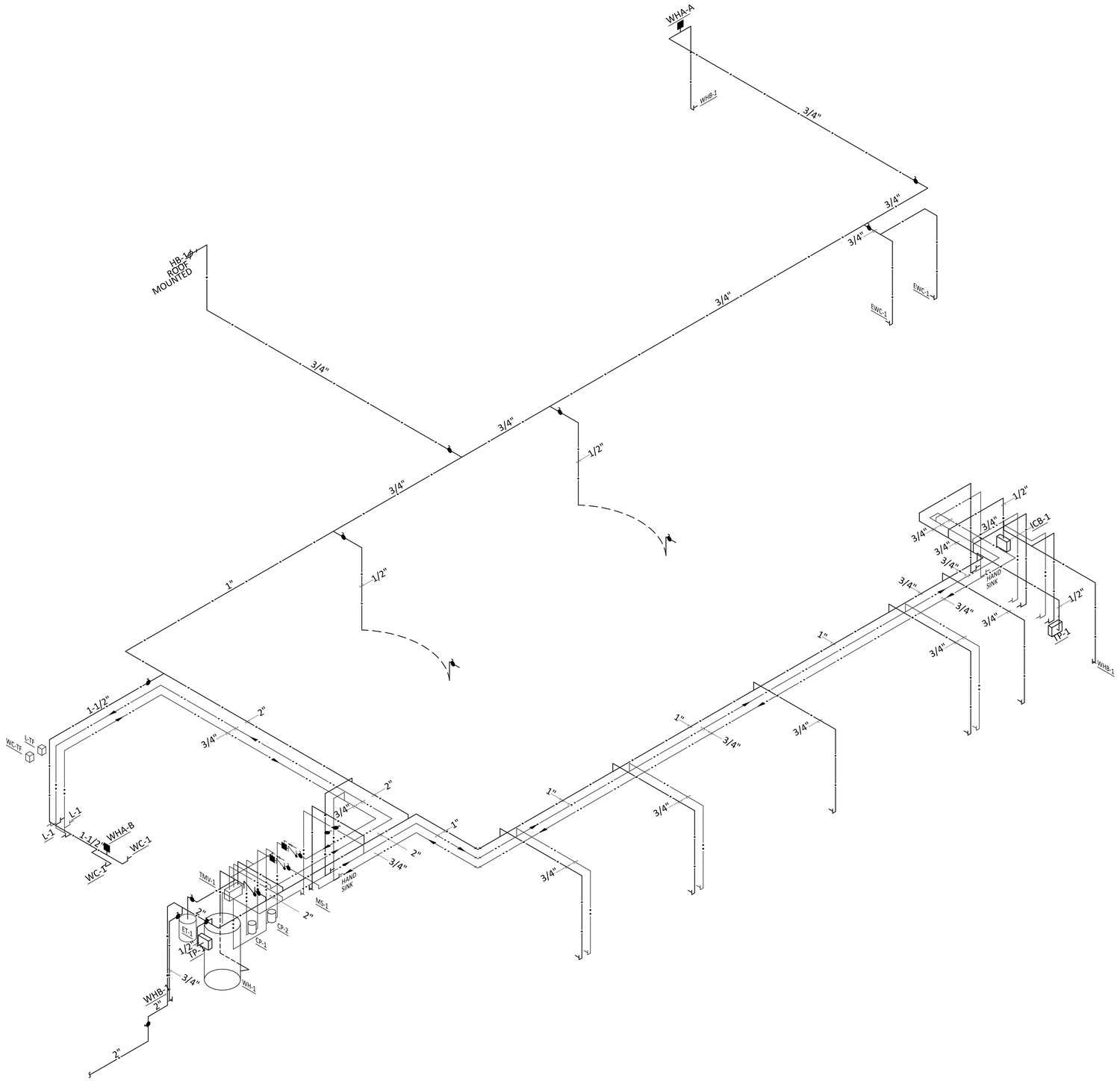

1 PLUMBING DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

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COLLEGE PREPARATORY CAFETERIA ADDITION
EDINBURG, TEXAS

IDEA Public Schools

STATE OF TEXAS
J. GABRIEL HINOJOSA
96585
LICENSED
PROFESSIONAL ENGINEER
09-27-2024

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Architects-Planners

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PLUMBING SYMBOL LEGEND

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

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

PLUMBING PIPE MATERIALS SCHEDULE

PIPING SYSTEM	PIPING MATERIAL	NOTES
SANITARY SEWER AND VENT PIPING UNDERGROUND	SCHEDULE 40 PVC DWV	
SANITARY SEWER AND VENT PIPING ABOVEGROUND	SCHEDULE 40 PVC DWV	1
DOMESTIC COLD & HOT WATER PIPING ABOVE GROUND	COPPER, TYPE L HARD DRAWN	
DOMESTIC COLD & HOT WATER PIPING BELOW GROUND	COPPER, TYPE K SOFT ANNEALED	
DOMESTIC WATER PIPING AT SERVICE ENTRY	COPPER, TYPE K HARD DRAWN	
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON	
FIRE SPRINKLER ABOVE GROUND - 2" AND SMALLER	BLACK STEEL SCHEDULE 40	
FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER	BLACK STEEL SCHEDULE 10	

NOTES:
1. PVC PIPING IN PLENUM SPACES SHALL BE FIRE WRAPPED. SUBMIT FIRE WRAP FOR APPROVAL.

SHOCK ARRESTOR SCHEDULE

P.D.I SYMBOL	FIXTURE UNITS	SIZE
WHA-A	1 - 11	1/2" NPT
WHA-B	12 - 32	3/4" NPT
WHA-C	33 - 60	1" NPT
WHA-D	61 - 113	1-1/4" NPT
WHA-E	114 - 154	1-1/2" NPT
WHA-F	155 - 330	2" NPT

NOTES:
• PIPING RISER DIAGRAMS ILLUSTRATE WATER HAMMER ARRESTORS AND AIR CHAMBERS FOR FIXTURE WATER PIPE OPENINGS. AIR CHAMBERS SHALL NOT BE USED TO REPLACE WATER HAMMER ARRESTORS. PROVIDE WATER HAMMER ARRESTORS FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.

PLUMBING SCHEDULE

MARK	TYPE	CONNECTION SS	CONNECTION V	CONNECTION CW	CONNECTION HW	DESCRIPTION
WC-1	WATER CLOSET FLOOR MOUNTED (HANDICAP)	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, SIPHON JET ACTION, 16-1/2" RIM HEIGHT, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD AMERICAN STANDARD "MADERA FLOWISE" MODEL #3043.001. COMPLETE WITH 1.28 GPF HARDWIRED SENSOR OPERATED EXPOSED FLUSH VALVE SLOAN ROYAL MODEL #111-ESS-1.28-HW-TMO WITH TRUE MECHANICAL OVERRIDE AND AMERICAN STANDARD #5901.100 OPEN FRONT SEAT LESS COVER.
WC-TF	FLUSH VALVE(S) TRANSFORMER	-	-	-	-	FLUSH VALVE TRANSFORMER EQUAL TO SLOAN MODEL #EL-154, 24VAC, 50/60 HZ.
L-1	LAVATORY WALL-MOUNTED (HANDICAP)	1-1/2"	1-1/2"	-	1/2" (TW)	VITREOUS CHINA WALL MOUNTED, 4" CENTERS, D-SHAPED LAVATORY EQUAL TO AMERICAN STANDARD "LUCERNE" MODEL #0355.012. COMPLETE WITH CHROME PLATED CAST BRASS DECK MOUNTED FAUCET, 0.35GPM, ABOVE DECK MIXING VALVE, HARD WIRED, COVER PLATE 4" METAL DECK PLATE MODEL #Z6950-XL-S-IM-HW6-CWB-105-CP4. PROVIDE OFFSET TAILPICE, GRID STRAINER, ANGLE STOPS, SUPPLY-LOOSE KEY, CHROME PLATED P-TRAP WITH CLEANOUT, PROTECTIVE COVERING AND APPROVED CARRIER SYTEM.
L-TF	LAVATORY FAUCET TRANSFORMER	-	-	-	-	LAVATORY FAUCET TRANSFOMER EQUAL TO ZURN MODEL #P6000-HW6. 115VAC, 50/60HZ.
MS-1	MOP SINK	2"	2"	3/4"	3/4"	TERRAZZO MOP SINK EQUAL TO STERN WILLIAMS MODEL #MTB-3624. 36"X24"X12" WITH SPLASH CATCHER PANELS STERN WILLIAMS MODEL #BP-24"X36". COMPLETE WITH SERVICE SINK FAUCET EQUAL TO CHICAGO FAUCET MODEL #540-LDB975WXF WITH 8" CENTERS, PAIL HOOK, WALL BRACKET, VACUUM BREAKER SPOUT, AND ADA COMPLIANT HANDLES, STAINLESS STEEL MOP HANGER STERN WILLIAMS MODEL #T-40, 5' -0" REINFORCED RUBBER HOSE AND WALL BRACKET STERN WILLIAMS MODEL #T-35, QUICK CONNECT GASKET FOR 2" PVC STERN WILLIAMS MODEL # QDC32000, STAINLESS STEEL SHELF STERN WILLIAMS MODEL #T-40-SF AND GRID STRAINER.
EWC-1	BI-LEVEL ELECTRIC WATER-COOLER WALL-MOUNTED (HANDICAP)	2"	2"	1/2"	-	BI-LEVEL SELF-CONTAINED WALL HUNG FILTERED REFRIGERATED WATER COOLER WITH BOTTLE FILLING STATION EQUAL TO ELKAY MODEL #LZST8WSVRLK. COMPLETE WITH SELF CLOSING CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN AND PANELS, FLEX-GUARD BUBBLER, CAPABLE OF DELIVERING 8.0GPH OF 50°F WATER WITH 80°F INLET WATER AND 90°F ROOM TEMPERATURE AND APPROVED CARRIER SYSTEM. PROVIDE CANE APRON ELKAY MODEL #LKAPREZL WHERE WATER COOLERS ARE INSTALLED ON AN EXPOSED WALL.
WH-1	WATER HEATER	-	-	3/4"	3/4"	80 GALLON ASME RATED WATER HEATER EQUAL TO AO SMITH MODEL #DRE-80-30, 30KW, 208V/3PH. WITH A RECOVERY OF 155 GALLONS PER HOUR @ 80°F RISE. REFER TO PIPING DIAGRAM DETAIL FOR VALVES REQUIRED. INSTALL WATER HEATER ON 4" HOSUEKEEPING PAD.
ET-1	EXPANSION TANK	-	-	-	3/4"	PRE-CHARGED STEEL THERMAL EXPANSION TANK EQUAL TO WATTS MODEL #DETA-20, 5 GALLON, 12" DIAMETER X 20" (HIGH) WITH A FIXED BUTYL BLADDER. THE TANK SHALL HAVE A BLADDER INTEGRITY MONITOR AND A .302" - 32 CHARGING VALVE CONNECTION (STANDARD TIRE VALVE) TO FACILITATE THE ON-SITE CHARGING OF THE TANK TO MEET SYSTEM REQUIREMENTS. THE TANK MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE.
CP-1, CP2	HOT WATER CIRCULATING PUMP	-	-	-	3/4"	ITT BELL & GOSSETT SYSTEM LUBRICATED CIRCULATOR PUMP #NBF-25, 2950 RPM, 1/12HP, 115V/1PH,LEAD FREE BRONZE CONSTRUCTION WITH MAXIMUM WORKING PRESSURE OF 150 PSI AND MAXIMUM OPERATING TEMPERATURE OF 225°F. PUMP SHALL BE EQUIPPED WITH DIGITAL ELECTRONIC TIME CLOCK INPUT FOR SCHEDULING OPERATION OF RCP-365 DAY INPUT.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	3/8"	3/8"	THERMOSTATIC WATER MIXING VALVE EQUAL TO LEONARD VALVE COMPANY MODEL # TM-26-BDT-IT-TC-TH-LF, DURA-TROL SOLID BIMETAL THERMOSTAT DIRECTLY LINKED TO VALVE PORTING TO CONTROL THE INTAKE OF HOT AND COLD WATER AND COMPENSATE FOR SUPPLY TEMPERATURE OR PRESSURE FLUCTUATIONS. 3/4" THREADED INLETS AND OUTLET, 1GPM MINIMUM FLOW CAPACITY. INTEGRAL COMBINATION CHECKSTOPS, INTERNAL PARTS OF LEAD-FREE BRONZE, LEAD FREE BRASS, AND STAINLESS STEEL, INTEGRAL WALL SUPPORT, COLOR-CODED DIAL, HOT-COLD WITH DIRECTIONAL INDICATORS, MAXIMUM OPERATING PRESSURE 125 PSI, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP SET FOR 120°F, LOCKING TEMPERATURE ADJUSTMENT KNOB.
TMV-2	THERMOSTATIC MIXING VALVE	-	-	3/8"	3/8"	THERMOSTATIC WATER MIXING VALVE SHALL BE EQUAL TO LEONARD MODEL #170-BRKT-BP WITH MOUNTING BRACKET. PROVIDE WITH COLD WATER BYPASS PORT WHERE FAUCET REQUIRES COLD AND HOT WATER CONNECTIONS.
WHB-1	WALL HYDRANT	-	-	3/4"	-	ZURN MODEL #Z-1300 ENCASED ANTI SIPHON, NON FREEZE, AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH WALL INSTALLATION COMPLETE WITH BACK FLOW PREVENTER, CLOSURE VALVE, AND HINGED, KEY LOCKED COVER STAMPED "WATER".
HB-1	HOSE BIBB ROOF MOUNTED	-	-	3/4"	-	ROOF MOUNTED HOSE BIBB SHALL BE EQUAL TO MAPA PRODUCT MODEL #MPH-24FP PEDESTAL HYDRANT WITH 3/4" INLET, WEATHER GUARD DOME HANDLE, 3/4" MALE HOSE FITTING WITH BUILT-IN VACUUM BREAKER, PIPING INSULATION, DRAIN DOWN FITTING, RESERVOIR TANK BELOW ROOF, UNDER DECK SUPPORT FLANGE AND MOUNTING HARDWARE.
ICB-1	ICE CONNECTION BOX	-	-	1/2"	-	20 GAUGE HOT DIPPED GALVANIZED STEEL RECESSED ICE MAKER OUTLET BOX EQUAL TO GUY GRAY MODEL #BIM875QTSAB. COMPLETE WITH A 1/2" COPPER SWEAT INLET, QUARTER TURN VALVE AND A 1/4" COMPRESSION OUTLET.
TP-1, TP-2	TRAP PRIMER ELECTRONIC	-	-	1/2"	-	ELECTRONIC TRAP PRIMER VALVE WITH MANIFOLD CAN SERVES FROM 6 TO 12 DRAINS. 12" X 12" X 4" NEMA-1 CABINET WITH COVER PLATE, 3/4" INCH NPT FEMALE INLET WITH SHUT-OFF VALVE, DISTRIBUTION MANIFOLD WITH 1/2" INCH COMPRESSION FITTINGS, 120 VOLT 60 HZ/110 VOLT 50 HZ, 2 AMP CIRCUIT BREAKER, MANUAL OVERRIDE SWITCH/TEST BUTTON, TIMER, SOLENOID VALVE, AND ANTI-SIPHON ATMOSPHERIC VACUUM BREAKER.
HD-1	HUB DRAIN	2"	2"	-	-	2"X3" PRO-SET UNDERGROUND HUB DRAIN EQUAL TO PROVENT SYSTEMS MODEL #TG23HD, COMPLETE WITH TRAP GUARD DRAIN INSERT PROTECTION.
FD-1	FLOOR DRAIN	2"	2"	-	-	DURA-COATED CAST IRON BODY FLOOR DRAIN EQUAL TO ZURN MODEL #ZN415 WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE BZ" POLISHED NICKEL BRONZE, LIGHT-DUTY, 6.25" DIAMETER LEVELING STRAINER AND TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	3"	2"	-	-	12" X 12" X 6" DEEP CAST IRON BODY FLOOR SINK EQUAL TO ZURN MODEL #Z1900-2 WITH SQUARE LIGHT-DUTY 1/2 GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER AND TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK	4"	2"	-	-	12" X 12" X 6" DEEP CAST IRON BODY FLOOR SINK EQUAL TO ZURN MODEL #Z1900 WITH SQUARE LIGHT-DUTY FULL GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER AND TRAP PRIMER CONNECTION.
FCO	FLOOR CLEAN OUT	2"-4"	-	-	-	DURA-COATED CAST IRON BODY CLEANOUT EQUAL TO ZURN MODEL #ZN1400-B21 WITH BOTTOM OUTLET, WITH GAS AND WATERTIGHT THREADED ABS TAPERED PLUG, AND INTEGRATED, SELF-CONTAINED (TYPE B) LIGHT DUTY POLISHED NICKEL BRONZE SCORIATED COVER WITH ROUGH-IN COVER FOR PROTECTION DURING POUR.
YCO	YARD CLEAN OUT	2"-4"	-	-	-	DURA-COATED CAST-IRON BODY "LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT EQUAL TO ZURN MODEL #ZN1400, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED CAST IRON EXTRA-HEAVY-DUTY SECURED CAST IRON TOP ADJUSTABLE TO FINISHED FLOOR. CENTRE CLEAN OUT ON 18"X18"X6" THICK CONCRETE BASE FLUSH WITH FINISH GRADE.
GT-1	GREASE TRAP	4"	4"	-	-	2,000 GALLON TRAFFIC DUTY GREASE INTERCEPTOR EQUAL TO PARK EQUIPMENT MODEL #GT-2000. COMPLETE WITH EPOXY LINER. PROVIDE SERVICE ALERT PANEL COMPLETE WITH AUDIBLE AND VISUAL ALARM. INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.

NOTES:
• REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE MOUNTING HEIGHTS.
• KITCHEN EQUIPMENT NOT SPECIFIED (3-COMPARTMENT SINKS, 1-COMPARTMENT SINK, HAND SINKS, AND FLOOR TROUGHS) ON THIS SCHEDULE WILL BE PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.

1 PLUBMING SCHEDULES AND GENERAL LEGEND
SCALE: N.T.S.

No.	REVISIONS	BY

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AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES:

PART 1 - GENERAL

1.01 SCOPE:

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

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

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

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

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

1.02 QUALITY ASSURANCE:

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

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

1.03 SUBMITTALS:

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

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

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

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

PART 2 - PRODUCTS

2.01 GENERAL:

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

2.02 PIPING:

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

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

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

2.03 HANGERS:

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

2.04 SPRINKLERS:

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

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

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

2.05 FIRE DEPARTMENT SIAMESE:

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

2.06 GATE VALVES:

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

2.07 CHECK VALVES:

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

2.08 FLOW SWITCHES:

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

2.09 MONITOR SWITCHES:

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

2.10 ALARM VALVE ASSEMBLIES:

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

2.11 WATER MOTOR GONG:

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

2.12 SPARE SPRINKLERS:

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

2.13 DOUBLE CHECK BACKFLOW PREVENTER:

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

PART 3 - EXECUTION

3.01 SCOPE:

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

3.02 CERTIFIED CONTRACTORS:

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

3.03 COORDINATION:

A. WORK SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:

1. REQUIRED FITTINGS AND VALVES, ETC.
2. OVERHEAD SPRINKLER SYSTEM FOR ENTIRE BUILDING, INCLUDING ALL REQUIRED ITEMS, EXCEPT UNDER EXTERIOR CANOPIES AND/OR OVERHANGS OVER WALKWAYS.

3.04 DESIGN:

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

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

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

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

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

F. IN ADDITION TO MEETING THE NATIONAL FIRE PROTECTION ASSOCIATION NO. 13 REQUIREMENTS, THE FOLLOWING WILL APPLY TO THE SPRINKLER SYSTEM:

1. THE SPRINKLER SYSTEM SHALL BE ELECTRICALLY INTER-CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
2. THE SPRINKLER SYSTEM MAIN CONTROL VALVE SHALL BE ELECTRICALLY SUPERVISED SO THAT AT LEAST A LOCAL ALARM WILL SOUND WHEN THE VALVE IS CLOSED.

3.05 DRAWINGS:

A. SHOP DRAWINGS CONSISTING OF THE FOLLOWING SHALL BE FURNISHED BY THE SPRINKLER SUB- CONTRACTOR:

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

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

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

3.06 INSTALLATION:

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

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

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

3.07 GUARANTEE:

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

3.08 TESTS:

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

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

3.09 ACCEPTANCE:

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

B. AFTER COMPLETION OF ALL INSTALLATION, TESTS, ETC. AND PRIOR TO THE OPENING DATE THE SPRINKLER CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF THE SPRINKLER SYSTEM. PROVIDE WRITTEN OPERATING INSTRUCTIONS AND MOUNT ON WALL IN A FRAME WITH GLASS FRONT. INCLUDE THE FOLLOWING SO THAT THE OWNER:

1. WILL IMMEDIATELY RECOGNIZE THE MAIN VALVES ARE IN OPEN OR CLOSED POSITION.
2. WILL KNOW HOW TO DRAIN THE SYSTEM.
3. WILL KNOW HOW TO RESET THE ALARM SYSTEM.
4. WILL KNOW NOW TO MAKE COMPLETE WEEKLY INSPECTION.
5. WILL KNOW HOW TO MAINTAIN SYSTEM IN ACCORDANCE WITH NFPA NO. 13.

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

FIRE PROTECTION NOTES:

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

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

B. CONTRACTOR'S WORK PLAN AND SCHEDULING.

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

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

1 AUTOMATIC SPRINKLER SYSTEM PERFORMANCE SPECIFICATION NOTES
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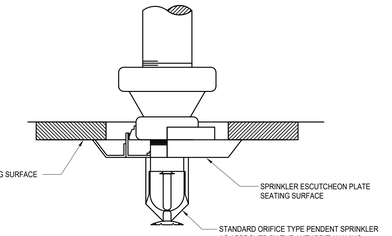

4 TWO-PIECE (ADJUSTABLE) FLUSH ESCUTCHEON PLATE
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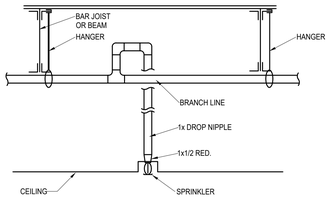

3 TYPICAL PENDENT SPRINKLER DETAIL
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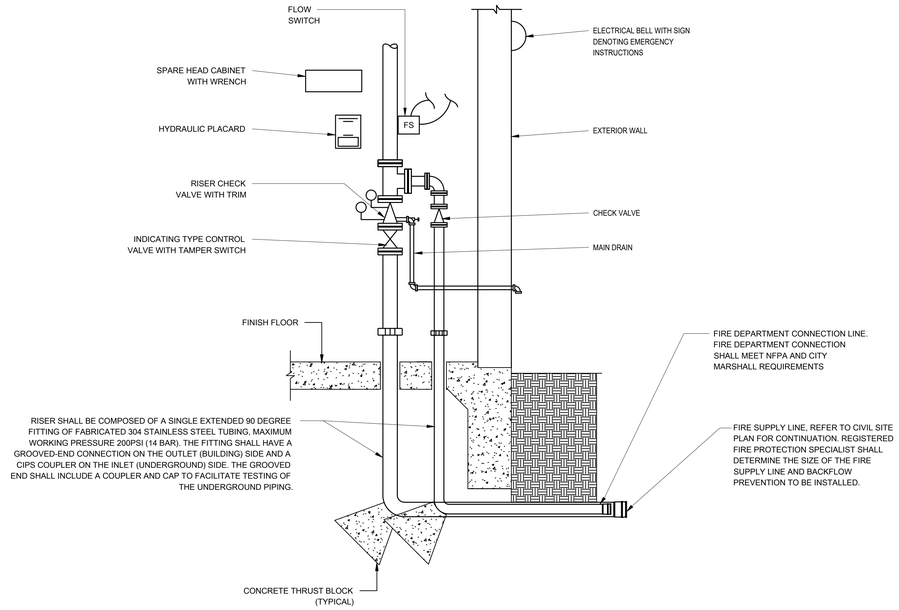

NOTE:
THIS RISER DIAGRAM IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE FINAL RISER CONFIGURATION, NUMBER OF RISERS, SIZE OF PIPING AND ALL OTHER DESIGN REQUIREMENTS SHALL BE DETERMINED BY THE LICENSED FIRE PROTECTION SPECIALIST

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

THESE CONCEPTUAL FIRE SPRINKLER PROTECTION PLANS ARE FOR INFORMATION PURPOSES ONLY. ALL CIVIL AND FIRE SPRINKLER PLANS ARE TO BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW OF COMPLIANCE TO THE RESPECTIVE GOVERNING STANDARDS.

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Architects-Planners

Date: September 2024
Scale: As Noted
Project Architect: Roan G Gomez, AIA
Drawn By: GH
Job No. IDEA EDINBURG CAFETERIA
Sheet: P5.0

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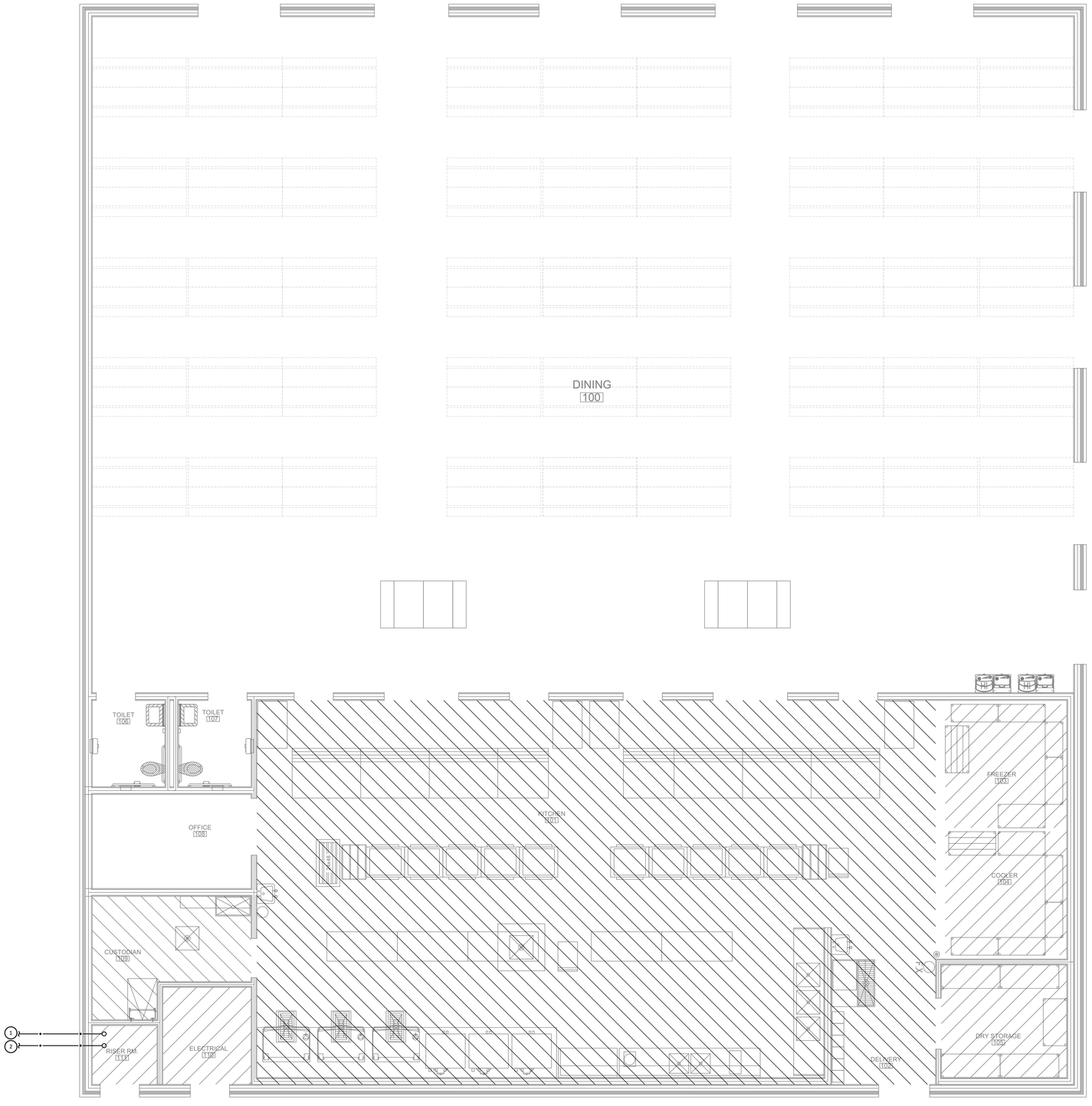

GENERAL NOTES:

A. REFER TO SHEET P5.0 FOR AUTOMATIC SPRINKLER PERFORMANCE SPECIFICATION NOTES.

KEY NOTES: (#)

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

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

LEGEND

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

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

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

THESE CONCEPTUAL FIRE SPRINKLER PROTECTION PLANS ARE FOR INFORMATION PURPOSES ONLY. ALL CIVIL AND FIRE SPRINKLER PLANS ARE TO BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW OF COMPLIANCE TO THE RESPECTIVE GOVERNING STANDARDS.

1 CONCEPTUAL FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

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09-27-2024

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