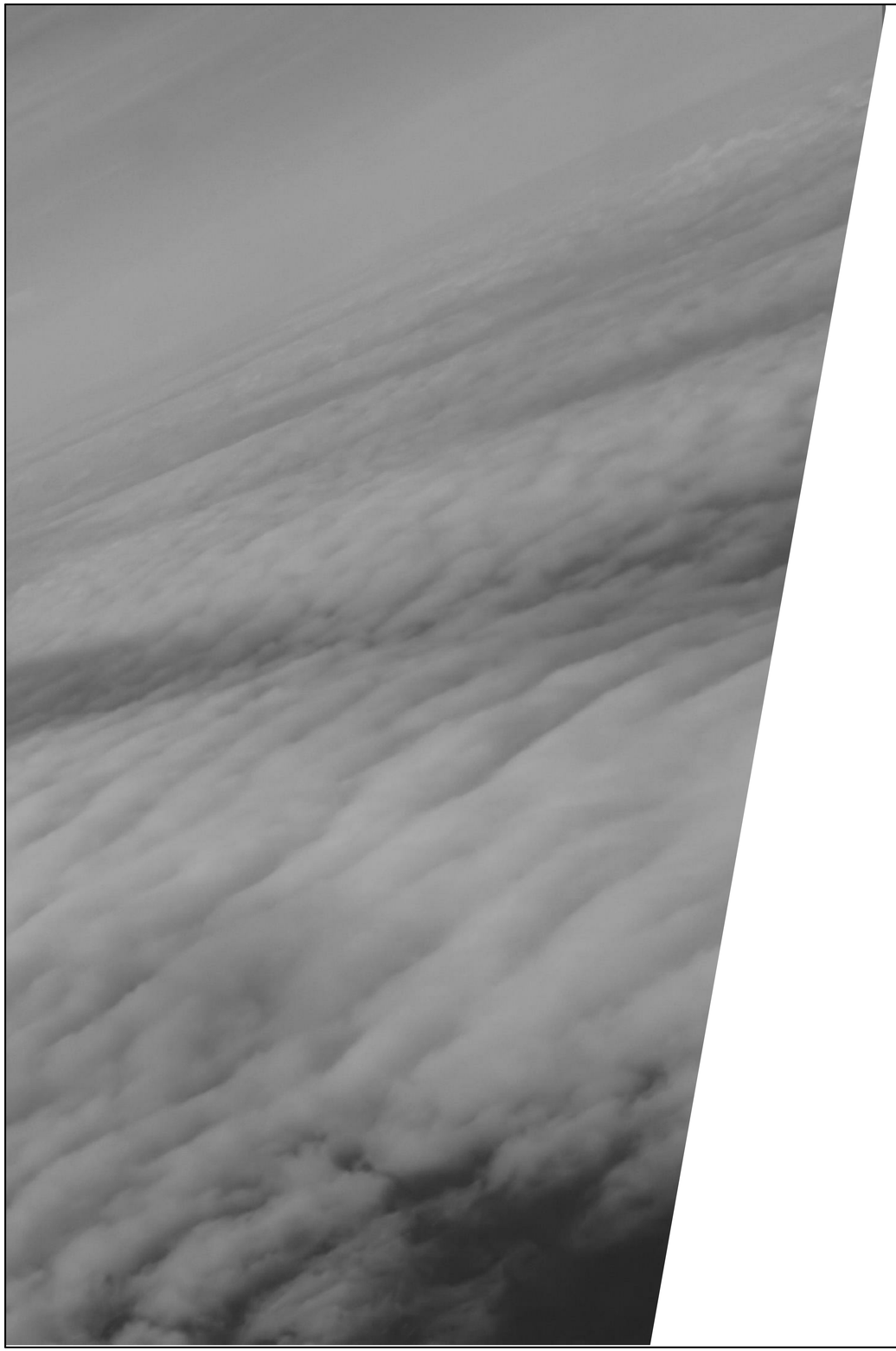

PENSACOLA INTERNATIONAL AIRPORT

PENSACOLA GA FACILITY

4121 MAYGARDEN ROAD
PENSACOLA, FL 32504

BID DOCUMENTS

03/03/2020

AEC PROJECT NUMBER
201-0052-002

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956
EB0005620 * LCC000210 * GB238

IN COLLABORATION WITH:

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720 Bayfront Parkway, Suite 200
Pensacola, FL 32502
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REVISIONS

NO.	DESCRIPTION	DATE

NOT ISSUED FOR CONSTRUCTION

3/4/2020 8:42:16 AM BIM 360://PNS GAF/201005200I1_PNS GAF_A_INT_R19.rvt

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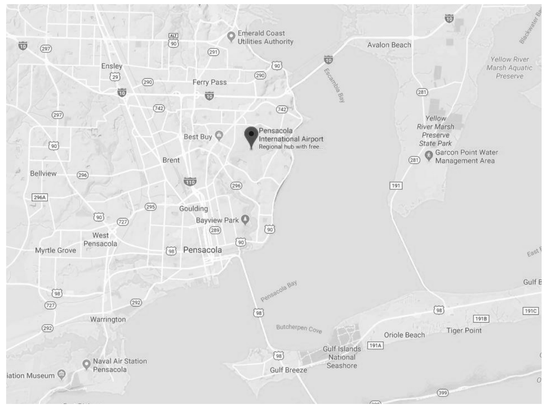


VICINITY MAP

LOCATION

PROJECT SCOPE:

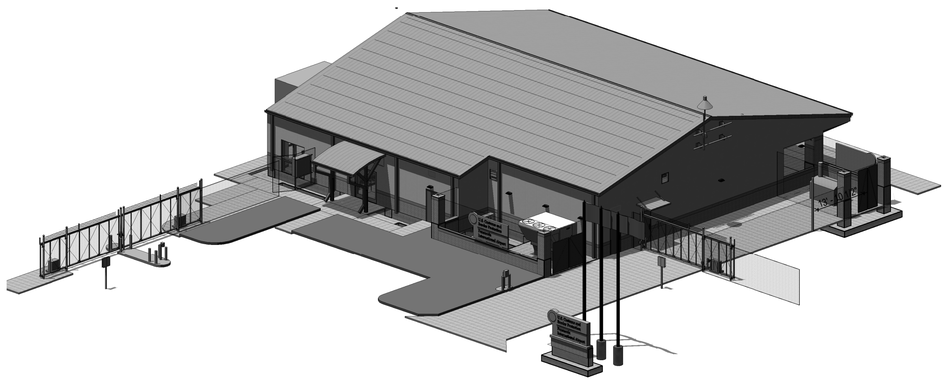
THIS PROJECT IS FOR THE DESIGN OF THE NEW GENERAL AVIATION PROCESSING FACILITY. THE PROJECT INCLUDES A NEW PROCESSING BUILDING, THE REQUIRED EQUIPMENT AND FURNISHINGS, PARKING LOT, FENCING, GATES, AND UTILITY EXTENSIONS TO THE SITE FOR A FULLY-FUNCTIONING FACILITY.
THE FACILITY EXTERIOR SHELL WILL CONSIST OF A MONOLITHIC CONCRETE SLAB WITH INTEGRAL COLUMN FOOTINGS, PRE-ENGINEERED METAL BUILDING FRAME, 8" SPLIT-FACE CMU WAINSCOT APPROXIMATELY 48"HIGH, UNINSULATED METAL WALL PANELS ABOVE WAINSCOT, STANDING-SEAM PREFAB METAL ROOF BY PEMB, HOLLOW METAL DOORS AND FRAMES AND ALUMINUM FRAMED STOREFRONT WITH IMPACT RESISTANT GLAZING. THE ROOF SHAPE IS A GABLE AT EACH END AND WILL BE INSULATED WITH A VINYL-FACED FIBERGLASS BATT SYSTEM. THEIR WILL BE A PREFAB GUTTER AND DOWNSPOUT SYSTEM ALONG EACH EAVE OF THE BUILDING.

EXTERIOR WALLS R=13

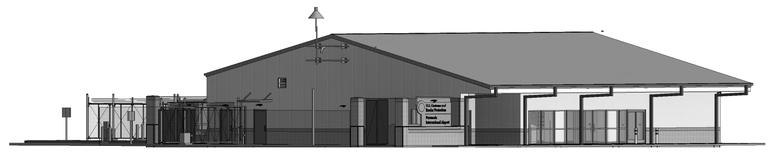
ROOF R=19

SHEET INDEX

SHEET INDEX



3 G001 AXONOMETRIC VIEW-NE CORNER, FRONT
SCALE:



2 G001 3D IMAGE - NW CORNER, MAIN ENTRY & PASSENGER WAITING PORCH
SCALE:

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PROFESSIONAL SEAL

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SG
DRAWN BY:	JKS
DESIGNED BY:	MWR

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SHEET INDEX

SHEET NUMBER

G001

BID DOCUMENTS

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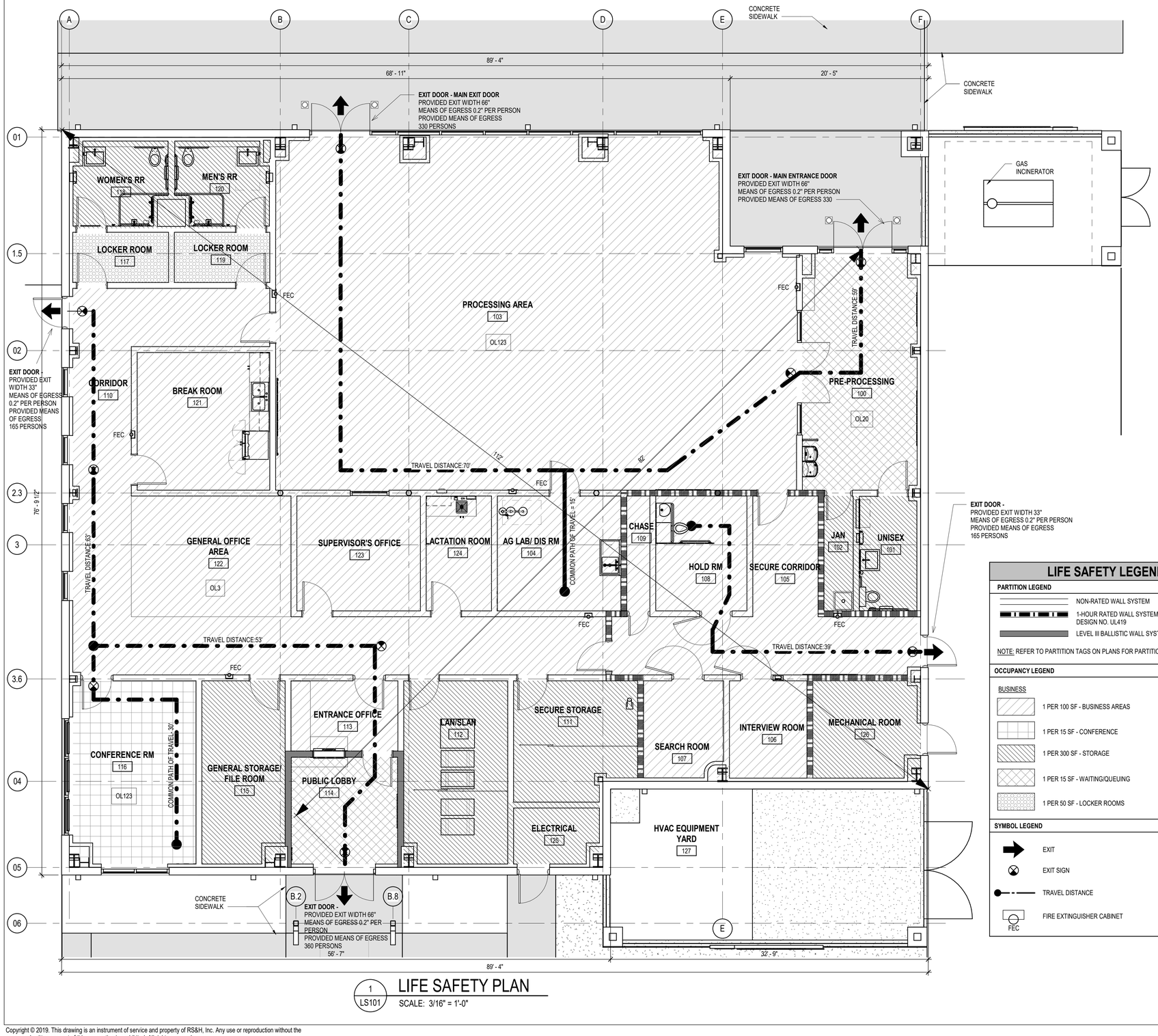

1 LS101 **LIFE SAFETY PLAN**

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

LIFE SAFETY LEGEND

PARTITION LEGEND

- NON-RATED WALL SYSTEM
- 1-HOUR RATED WALL SYSTEM DESIGN NO. UL419
- LEVEL III BALLISTIC WALL SYSTEM - UL 752

NOTE: REFER TO PARTITION TAGS ON PLANS FOR PARTITION TYPE DETAILS

OCCUPANCY LEGEND

BUSINESS

- 1 PER 100 SF - BUSINESS AREAS
- 1 PER 15 SF - CONFERENCE
- 1 PER 300 SF - STORAGE
- 1 PER 15 SF - WAITING/QUEUING
- 1 PER 50 SF - LOCKER ROOMS

SYMBOL LEGEND

- EXIT
- EXIT SIGN
- TRAVEL DISTANCE
- FIRE EXTINGUISHER CABINET (FEC)

CODE ANALYSIS

PROJECT DESCRIPTION

THIS PROJECT IS FOR THE DESIGN OF THE NEW GENERAL AVIATION PROCESSING FACILITY THAT IS REQUIRED TO PROCESS A MAXIMUM OF 15 PASSENGERS AND CREW. THE PROJECT INCLUDES A NEW PROCESSING BUILDING, THE REQUIRED EQUIPMENT AND FURNISHINGS, PARKING LOT, FENCING, GATES, AND UTILITY EXTENSIONS TO THE SITE FOR A FULLY-FUNCTIONING FACILITY.

APPLICABLE CODES

FLORIDA STATE MINIMUM STANDARD CODES :

FLORIDA BUILDING CODE - BUILDING 6TH EDITION, (2017)
FLORIDA BUILDING CODE - ACCESSIBILITY 6TH EDITION, (2017)
FLORIDA BUILDING CODE - MECHANICAL 6TH EDITION, (2017)
FLORIDA BUILDING CODE - PLUMBING 6TH EDITION, (2017)
FLORIDA BUILDING CODE – ENERGY CONSERVATION 6TH EDITION, (2017)
NATIONAL ELECTRICAL CODE NFPA 70, (2014 EDITION)
FLORIDA FIRE PREVENTION CODE, 6TH EDITION, (2017)
LIFE SAFETY CODE - NFPA 101 (2015 EDITION)
ZONING REGULATIONS

USE & OCCUPANCY CLASSIFICATION (LSC)

GROUP B (FBC 303.1.1)
BUSINESS

BUILDING DATA

CONSTRUCTION TYPE:
IIB SPRINKLERED (FBC 602.2)

MAX ALLOWABLE BUILDING HEIGHT (FBC 504.3) PER A-3	75 FT
DESIGNED HEIGHT	24 FT
ALLOWABLE NUMBER OF STORIES (FBC 504.4)	3-STORY
DESIGNED NUMBER OF STORIES	1-STORY
ALLOWABLE BUILDING AREA (FBC TABLE 506.2) PER A-3 (1 STORY SPRINKLERED)	38,000 SF
DESIGNED BUILDING AREA	6,292 SF (SPRINKLERED)

FIRE RESISTANCE RATING OF BUILDING COMPONENTS

REQUIRED RATING (FBC TABLE 601)

STRUCTURAL FRAME (COLUMNS, BEAMS, GIRDERS, TRUSSES AND SPANDRELS HAVING DIRECT CONNECTIONS TO THE COLUMNS AND BRACING MEMBERS DESIGNED TO CARRY GRAVITY LOADS)	0 H
EXTERIOR BEARING WALLS	0 H
EXTERIOR NON-BEARING WALLS	0 H
INTERIOR BEARING WALLS	(N/A)
INTERIOR NON-BEARING WALLS/PARTITIONS	0 H
FLOOR CONSTRUCTION	(N/A)
ROOF CONSTRUCTION	0 H

FIRE RATED SEPARATION

CORRIDOR FIRE-RESISTANCE RATING (FBC 1020.1)
NON-RATED

OCCUPANT LOAD

MAX FLOOR AREA ALLOWANCE PER OCCUPANT (FBC TABLE 1004.1.2)

WAITING AREAS AT 1 PERSON PER 15 GROSS SQ. FT.
BUSINESS AREAS AT 1 PERSON PER 100 GROSS SQ. FT.
BUSINESS ASSEMBLY AT 1 PERSON PER 5 NET SQ. FT.
STORAGE/MECHANICAL/EQUIPMENT AT 1 PERSON PER 300 GROSS SQ. FT.

REFER TO PLAN FOR THE CALCULATIONS FOR EACH AREA.

TOTAL OCCUPANT LOAD: 81 PERSONS

MEANS OF EGRESS

TRAVEL DISTANCE:
MAX 300 FT FROM BUSINESS AREAS WITH SPRINKLER SYSTEM (FBC 1017.2)
MAX PROVIDED: 70 FT

COMMON PATH OF TRAVEL:
MAX 100 FT WITHIN BUSINESS OCCUPANCIES (FBC 1006.2.1)
MAX PROVIDED: 30 FT

NUMBER OF EXITS:
AREAS WITH MORE THAN 50 PERSONS REQUIRE 2 EXITS WITH DOORS SWINGING IN THE DIRECTION OF EGRESS
NUMBER OF DOORS PROVIDED: 5

REQUIRED EXIT WIDTHS :
0.2"/PERSON FOR LEVEL MEANS OF EGRESS
DOOR EXIT WIDTH REDUCED BY 2" FOR CLEAR WIDTH
EXIT WIDTH PROVIDED: 264"

CORRIDOR WIDTH
MIN 36 INCH WITH AN OCCUPANT LOAD LESS THAN 50
DESIGNED CORRIDOR WIDTH: 72"

EMERGENCY LIGHTING AND EXIT SIGNS ARE PROVIDED THROUGHOUT

EXITING EVALUATION:

THE EGRESS IS EVALUATED BASED ON 3 PRIMARY AREAS: PRE-PROCESSING AREA, DETENTION SUITE AND OPERATIONAL SUPPORT AREA

PLUMBING FIXTURE COUNT

PLUMBING FIXTURES (FBC TABLE 2902.1)

TOILETS: 2
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURE: 1 PER 25
TOTAL O.L. = 48/2 = 24
MEN: 1
WOMEN: 1

DRINKING FOUNTAINS: 1
MINIMUM NUMBER OF REQUIRED: 1 PER 100
PROVIDE 1 HIGH AND 1 LOW

SERVICE SINK: 1
FBC - PLUMBING

PN
TN

4 0 4 8 12

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

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PROJECT NUMBER:	
201-0052-002	

SHEET TITLE

LIFE SAFETY PLAN & CODE ANALYSIS

SHEET NUMBER

LS101

BID DOCUMENTS

3/4/2020 9:42:38 AM BIM 360://PNS GAF/2010052001_PNS GAF_A_INT_R19.rvt

SITE DATA

SITE AREA: 4.93 AC (214,751 SF)
JURISDICTION: CITY OF PENSACOLA
EXISTING ZONING: ARZ, AIRPORT RESTRICTED ZONE

MAX. BUILDING HEIGHT = 45'
MAXIMUM IMPERVIOUS LOT COVERAGE = 75%

EXISTING LOT COVERAGE

IMPERVIOUS AREA = 18,731 SF (0.43 AC)
PERVIOUS AREA = 196,020 SF (4.50 AC)

PROPOSED LOT COVERAGE

IMPERVIOUS AREA = 19,602 SF (0.45 AC)
PERVIOUS AREA = 195,149 SF (4.48 AC)

WETLANDS: NO WETLANDS ON SITE

LEGEND

76 — EXISTING CONTOUR W/ELEVATION
75 — FINISHED CONTOUR W/ELEVATION
BENCH–MARK
SS — EXISTING SANITARY SEWER MAIN
W — EXISTING WATER MAIN
G — EXISTING GAS MAIN
O/E — EXISTING OVERHEAD ELECTRIC
X — X — EXISTING FENCE
X — X — NEW FENCE
NEW PAVEMENT
TO BE REMOVED
NEW VALVE
NEW FIRE HYDRANT (FH)
DRAINAGE FLOW DIRECTION
CLEANOUT (C.O.)
LIMITS OF DISTURBANCE
103.00 — FINISHED SPOT GRADE
24" OAK — EXISTING TREE TO BE REMOVED
SILT FENCE
FENCE TO BE REMOVED
HAY BALES

GENERAL NOTES:

1. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.
2. ELEVATIONS SHOWN ARE RELATIVE TO N.G.V.D. 88.
3. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER LINES, BURIED TELEPHONE LINES, BURIED ELECTRICAL LINES AND GAS MAINS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANIES FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES, AERIAL LINES, BURIED CABLE AND OTHER UTILITIES.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS. THESE DRAWINGS REPRESENT KNOWN STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND, MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHOULD NOTIFY THE UTILITY, THEN THE ENGINEER, IMMEDIATELY UPON ENCOUNTERING ANY UNEXPECTED STRUCTURE, UTILITY LINE, OR OTHER UNUSUAL CONDITION. EXISTING CONDITIONS ARE BASED ON SURVEYS BY BASKERVILLE–DONOVAN, INC.
5. CONTRACTOR SHALL SAFETY–BARRICADE ALL EXCAVATIONS AND OTHER HAZARDS.
6. CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES ADJACENT TO THE CONSTRUCTION AREAS. ADEQUATE BARRICADES, CONSTRUCTION SIGNAGE AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH FDOT CONSTRUCTION STANDARDS.
7. THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. WATERS OF THE STATE, ADJACENT PROPERTIES, AND ANY NEW DRAINAGE CONSTRUCTION SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
8. ADEQUATE PROVISIONS SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, WATER COURSES AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION.
9. ALL PAVEMENT CUTS SHALL BE SAW CUT.
10. ALL TREES IN THE PROJECT AREA ARE TO REMAIN UNDAMAGED UNLESS NOTED FOR REMOVAL OR APPROVED BY THE ENGINEER.
11. THE CONTRACTOR IS TO REPLACE TO EXISTING CONDITIONS OR BETTER ANY FENCES, SPRINKLER SYSTEMS, TREES AND SHRUBS, MAINTAINED FLOWER BEDS, OR OTHER EXISTING IMPROVEMENTS IMPACTED DURING CONSTRUCTION, WHETHER DEPICTED IN THE PLANS OR NOT.
12. ALL NEW CONCRETE FOR SITE WORK SHALL ACHIEVE A 28 DAY STRENGTH OF 3000 PSI (MIN.), UNLESS OTHERWISE SPECIFIED.
13. ALL TRAFFIC CONTROL SIGNS AND MARKINGS SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FHWA, LATEST EDITION.
14. DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE DEVELOPER PRIOR TO FINAL "AS–BUILT" SIGN–OFF FROM THE CITY.
15. PARTIAL SCREENING SHALL BE PROVIDED AT THE MULTI–TENANT SERVICE CORRIDORS.
16. ALL NEW BUILDING ROOF DRAINS, DOWN SPOUTS, OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORMWATER TO RETENTION/DETENTION AREAS.
17. THE CONTRACTOR SHALL NOTIFY FDOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHT–OF–WAY.
18. THE SUBJECT PARCEL FALLS WITHIN TIME TRAVEL CONTOURS OF A PROTECTED (POTABLE) WELLHEAD. CONTRACTORS SHALL BE RESPONSIBLE FOR REPORTING SPILLS OF POTENTIALLY HAZARDOUS SUBSTANCES (I.E. GASOLINE, DIESEL FUEL, HYDRAULIC FLUID, CLEANING PRODUCTS, CHEMICALS, ETC.) TO THE APPROPRIATE STATE (FDEP STATE WARNING POINT 1–800–320–0519) AND LOCAL (ESCAMBIA COUNTY HEALTH DEPARTMENT/ENVIRONMENTAL HEALTH 595–6712) AGENCIES.
19. NO SITE WORK ACTIVITIES SHALL TAKE PLACE WITHOUT CITY SITE REVIEW AND APPROVAL OF PROPOSED EROSION CONTROL MEASURES AND ADVANCED NOTIFICATION OF THE REQUESTED INSPECTION IS REQUIRED.

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BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
449 W. MAIN ST.
PENSACOLA, FLORIDA 32502
(850)438-9661
Engineering Business: EB-0000340

PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

GENERAL NOTES, LEGEND & SITE DATA

SHEET NUMBER

C001

BID DOCUMENTS

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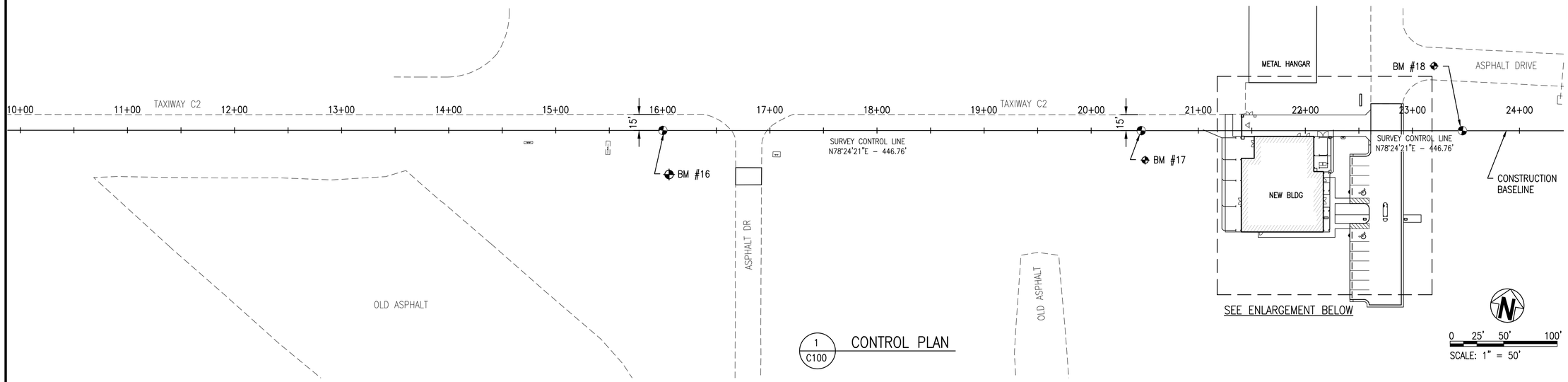


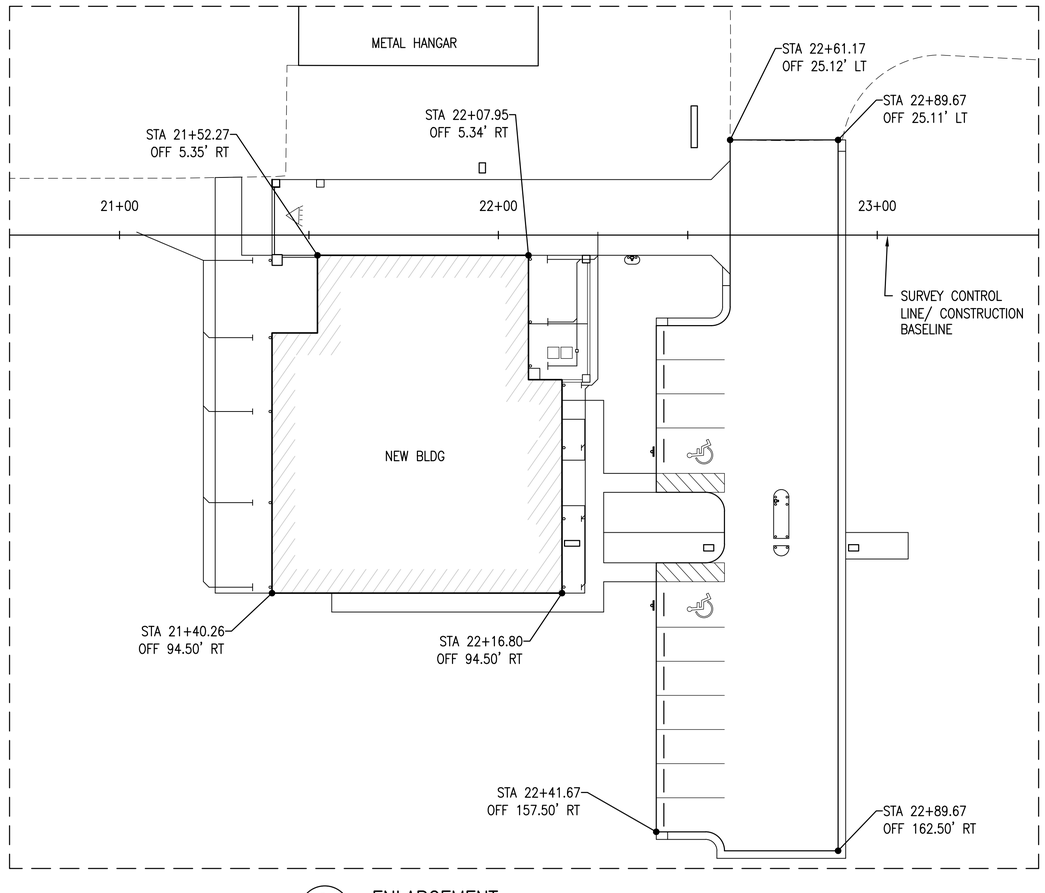
1 C100 CONTROL PLAN

BENCH MARK DATA

BM #16
CAPPED IRON ROD No. 0340
STA 16+00, 0' LT/RT
ELEVATION= 102.76

BM #17
CAPPED IRON ROD No. 0340
STA 20+46.76, 0' LT/RT
ELEVATION= 103.91

BM #18
CAPPED IRON ROD No. 0340
STA 23+46.69, 0' LT/RT
ELEVATION= 102.02



2 C100 ENLARGEMENT

SCHEDULE OF QUANTITIES

DESCRIPTION	QUANTITY	UNIT
Mobilization	1	LS
Maintenance of Traffic	1	LS
Clearing and Grubbing	5.00	AC
Asphalt Sawcutting	1,114	LF
Asphalt Removal (6" average depth)	2,130	SY
Erosion Control	1	LS
Fence Removal	355	LF
Temporary Perimeter Fence	281	LF
Pipe Removal	95	LF
MES Removal	2	EA
Tree Removal	6	EA
Embankment	2,322	CY
Excavation	4,337	CY
Concrete Pavement (6" Thick)	640	SY
12" Stabilized Subgrade	905	SY
6" Graded Aggregate Base	877	SY
Lateral Pavement Patch	111	SY
1.5" Type SP 9.5 Asphalt	70	TN
Gravel Area (6"depth)	27	SY
18" RCP	478	LF
30" RCP	937	LF
Junction Boxes	5	EA
30" MES	1	EA
FDOT Type C Inlet	1	EA
FDOT Type D Inlet	1	EA
Parking Stops	11	EA
Pavement Markings	500	LF
Security Fence	280	LF
Bollards	8	EA
Curb and Gutter	273	LF
Handicap Parking Signs	2	EA
Meter Box	1	EA
Meter Vault	1	EA
Staked Sod	13,651	SY
*PVC for Drainage and Utilities Inc. DI,MJ, Fittings/Valves	1	LS
4" Sanitary Sewer Connection	32	LF
Fire Department Connection	1.0	EA
Check Valves	3	EA
Service Taps	3	EA
Back Flow Preventer with Freeze Protection(RPZ)	2	EA
Back Flow Preventer with Freeze Protection (DBL CK Valve)	1	EA
Riprap to Include Geotextile	51	TN
Fire Hydrant	1	EA

*CONCRETE AREAS INCLUDE ALL HATCHED AREAS SHOWN ON C-104.
*IRRIGATION, SECURITY, & COMMUNICATION CONDUIT PIPE HAS BEEN EXCLUDED.

N

0 10' 20' 40'
SCALE: 1" = 20'

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PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

CONTROL PLAN

SHEET NUMBER

C100

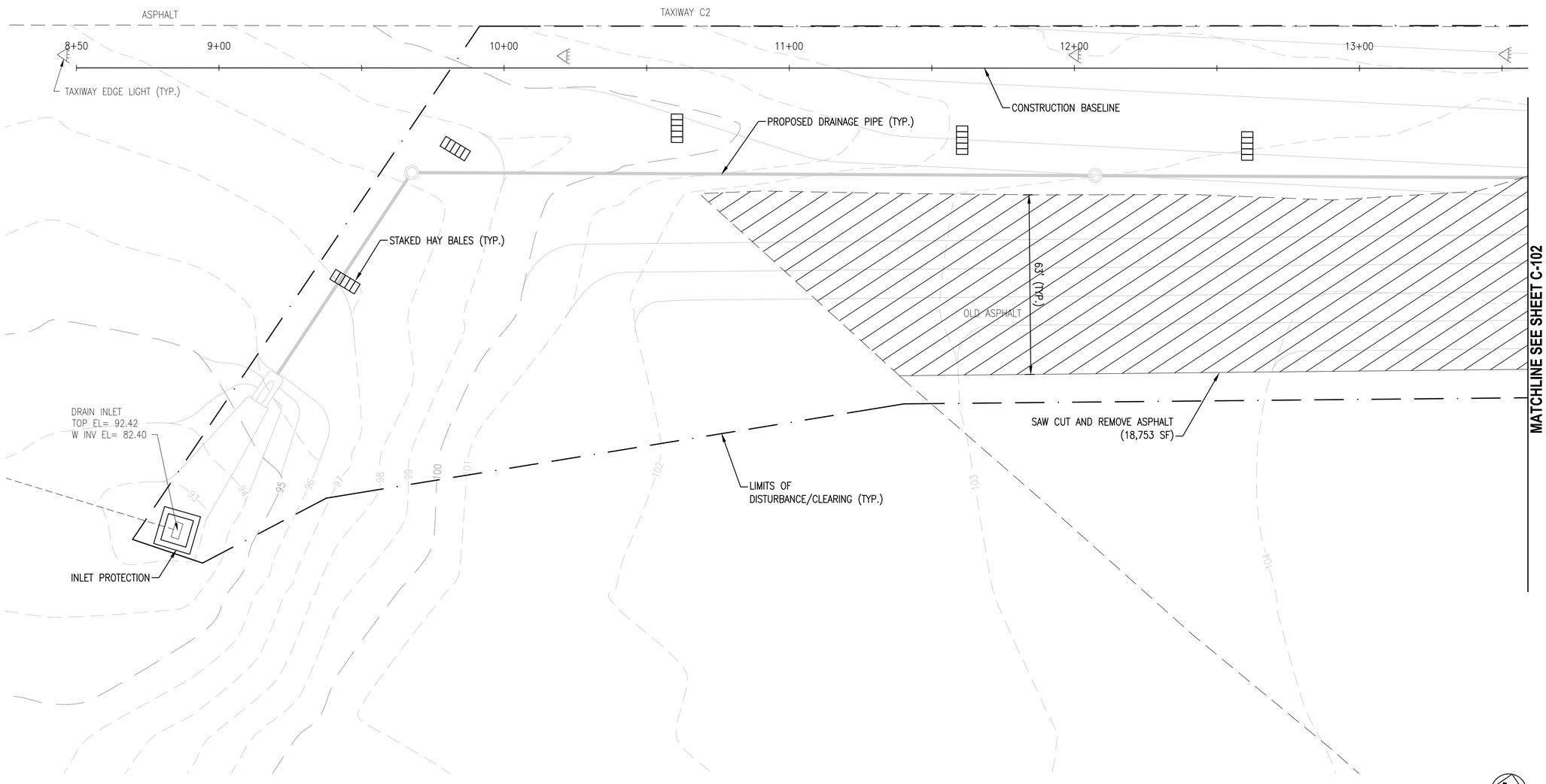
BID DOCUMENTS

LEGEND

- LIMITS OF DISTURBANCE/CLEARING
- TEMPORARY FENCE
- EXISTING TREE TO BE REMOVED (24" OAK)
- SILT FENCE
- FENCE TO BE REMOVED
- HAY BALES

NOTES:

1. SILT FENCE SHALL NOT BE USED INSIDE THE AIRPORT SECURITY FENCE. THE CONTRACTOR SHALL USE ALTERNATE METHODS OF CONTROLLING SEDIMENTATION & EROSION.
2. STAKED HAY BALES TO BE USED FOR UNPAVED DITCHES.
3. STAKED SOD TO BE USED FOR STABILIZATION OF ALL DISTURBED AREAS.
4. THE CONTRACTOR SHALL COORDINATE ALL EROSION AND SEDIMENTATION CONTROL MEASURES WITH AIRPORT OPERATIONS.



1 / C101 EXISTING CONDITIONS, DEMOLITION & EROSION CONTROL PLAN

0 10' 20' 40'
SCALE: 1" = 20'

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EXISTING CONDITIONS DEMOLITION, & EROSION CONTROL PLAN

SHEET NUMBER

C101

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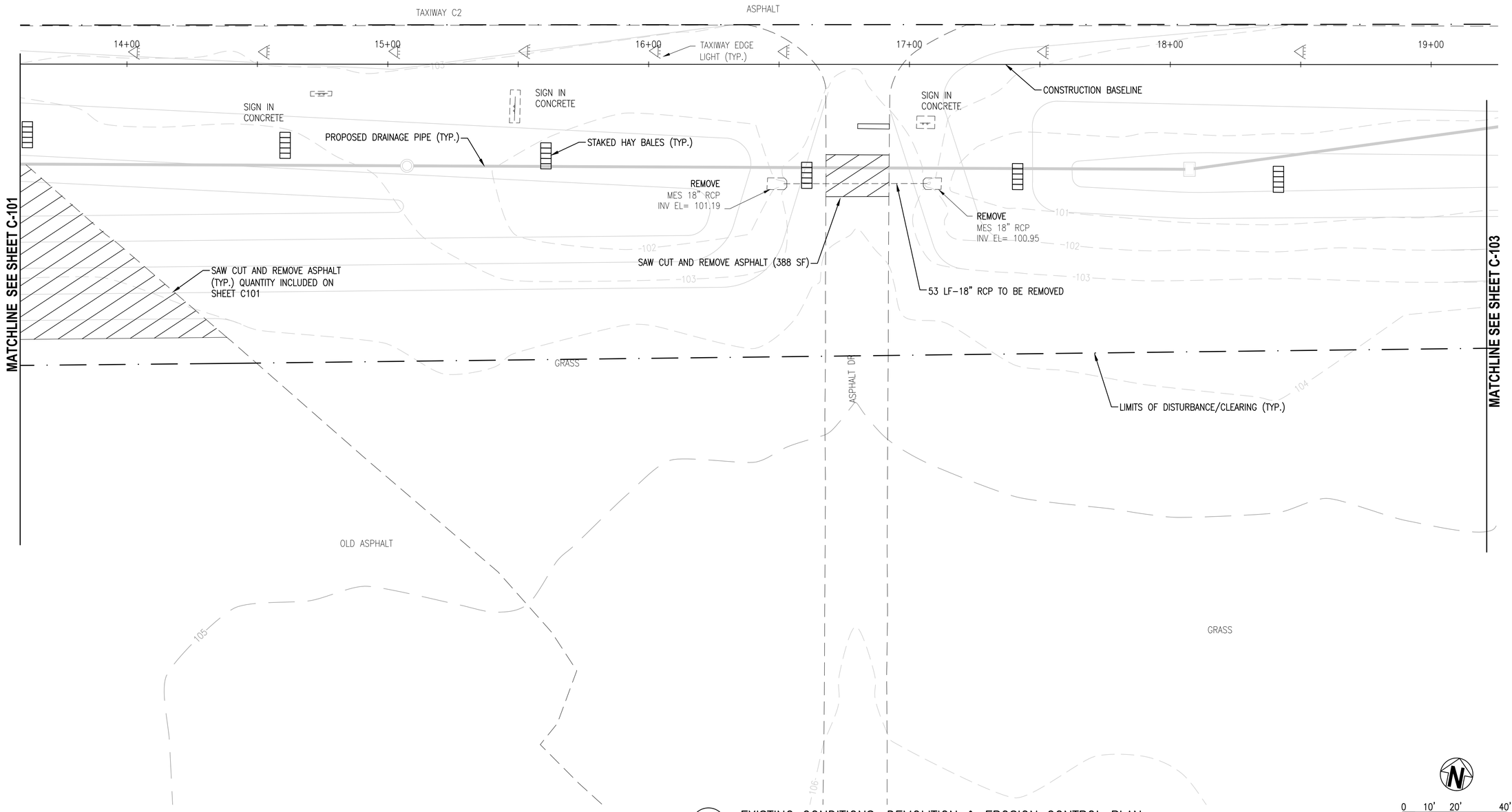
- TEMPORARY FENCE
- EXISTING TREE TO BE REMOVED (24" OAK)
- SILT FENCE
- FENCE TO BE REMOVED
- HAY BALES

NOTES:

1. SILT FENCE SHALL NOT BE USED INSIDE THE AIRPORT SECURITY FENCE. THE CONTRACTOR SHALL USE ALTERNATE METHODS OF CONTROLLING SEDIMENTATION & EROSION.
2. HAY BALES ON FILL SLOPES SHALL BE STAKED.
3. STAKED SOD TO BE USED FOR STABILIZATION OF ALL DISTURBED AREAS.
4. THE CONTRACTOR SHALL COORDINATE ALL EROSION AND SEDIMENTATION CONTROL MEASURES WITH AIRPORT OPERATIONS.
5. THE CONTRACTOR SHALL PHASE PIPE REMOVAL AND REPLACEMENT TO ALLOW ONE WAY TRAFFIC AT ALL TIMES. ROAD CONSTRUCTION SHALL BE COORDINATED WITH AIRPORT OPERATIONS ONE WEEK PRIOR TO DEMOLITION.



1 / C102 EXISTING CONDITIONS, DEMOLITION & EROSION CONTROL PLAN

0 10' 20' 40'
SCALE: 1" = 20'

G:\DWG\218\21805.01\C101-103 ExCond.dwg, Mar 03, 2020 - 3:41:39PM, rgeiger

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Engineering Business: EB-0000340

PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

EXISTING CONDITIONS DEMOLITION, & EROSION CONTROL PLAN

SHEET NUMBER

C102

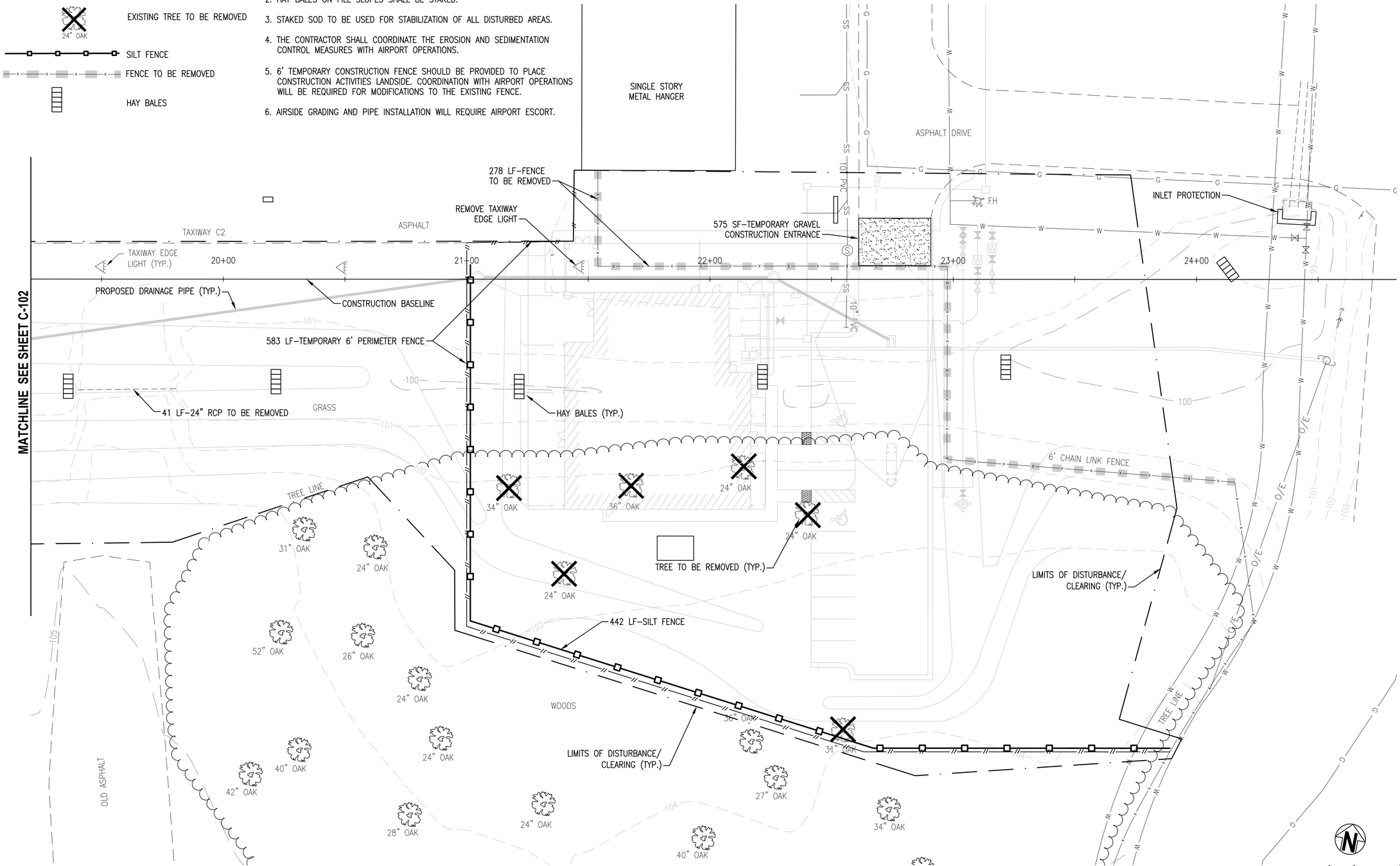
BID DOCUMENTS

LEGEND

- LIMITS OF DISTURBANCE/CLEARING
- TEMPORARY FENCE
- EXISTING TREE TO BE REMOVED (24" OAK)
- SILT FENCE
- FENCE TO BE REMOVED
- HAY BALES

NOTES:

1. SILT FENCE SHALL NOT BE USED INSIDE THE AIRPORT SECURITY FENCE. THE CONTRACTOR SHALL USE ALTERNATE METHODS OF CONTROLLING SEDIMENTATION & EROSION.
2. HAY BALES ON FILL SLOPES SHALL BE STAKED.
3. STAKED SOD TO BE USED FOR STABILIZATION OF ALL DISTURBED AREAS.
4. THE CONTRACTOR SHALL COORDINATE THE EROSION AND SEDIMENTATION CONTROL MEASURES WITH AIRPORT OPERATIONS.
5. 6' TEMPORARY CONSTRUCTION FENCE SHOULD BE PROVIDED TO PLACE CONSTRUCTION ACTIVITIES LANDSIDE. COORDINATION WITH AIRPORT OPERATIONS WILL BE REQUIRED FOR MODIFICATIONS TO THE EXISTING FENCE.
6. AIRSIDE GRADING AND PIPE INSTALLATION WILL REQUIRE AIRPORT ESCORT.



1 C103 EXISTING CONDITIONS, DEMOLITION & EROSION CONTROL PLAN

SCALE: 1" = 20'

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DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

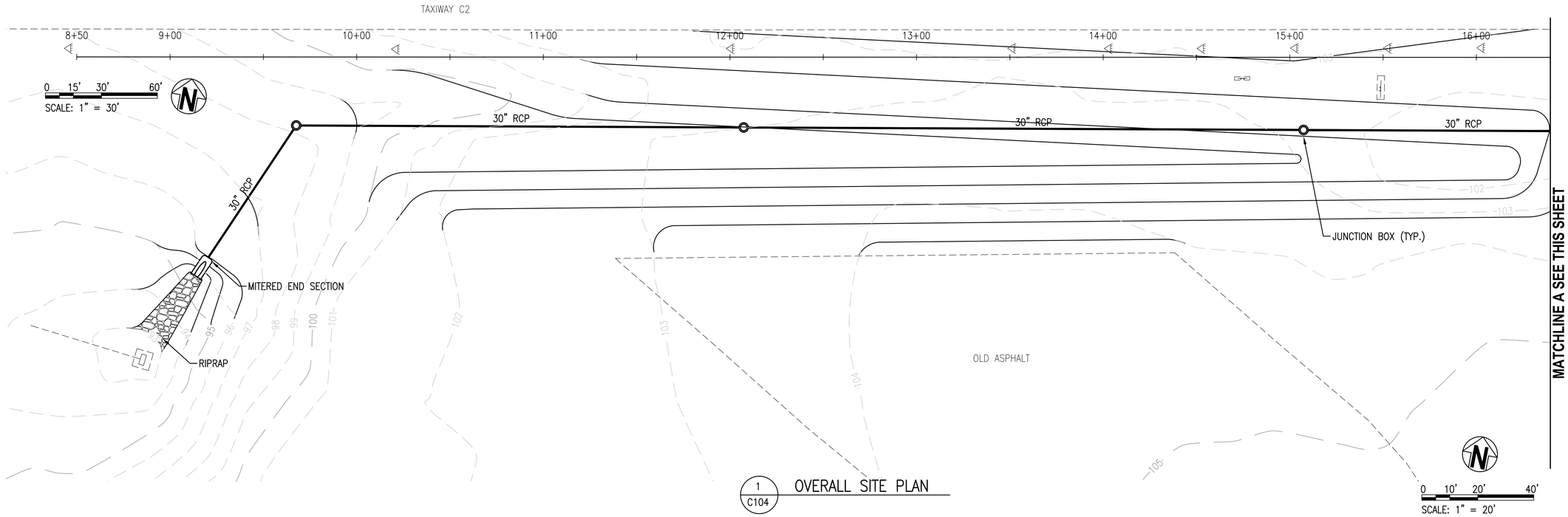
SHEET TITLE

EXISTING CONDITIONS DEMOLITION, & EROSION CONTROL PLAN

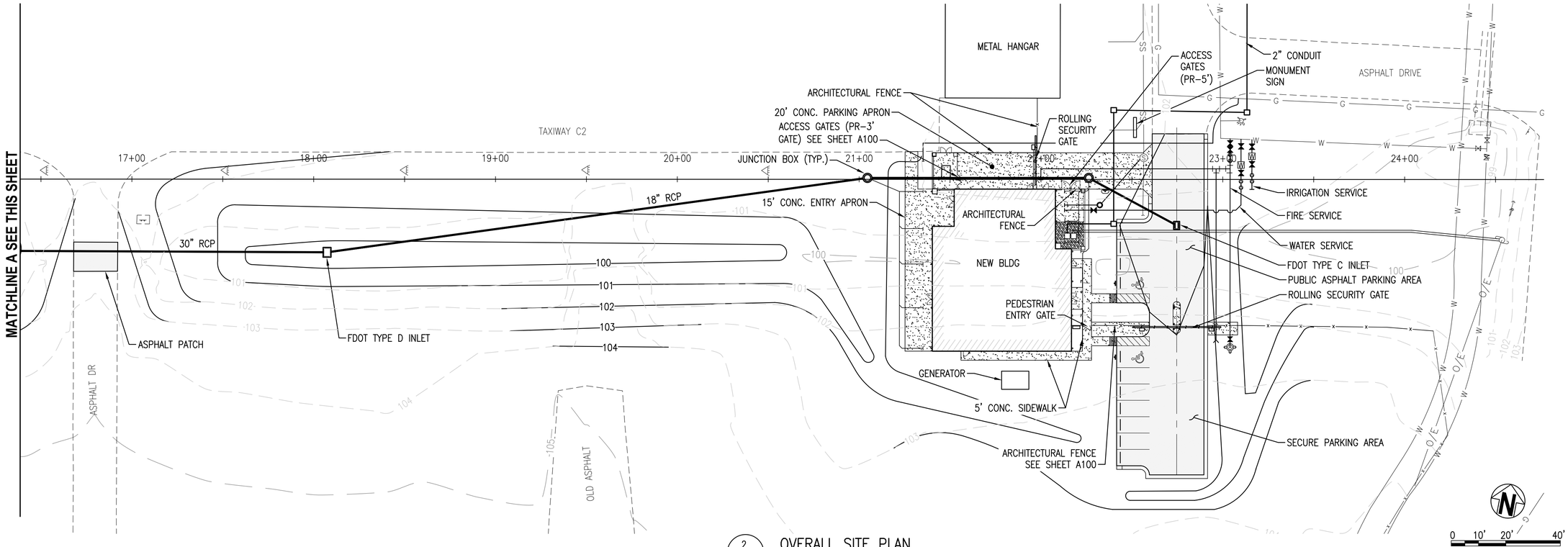
SHEET NUMBER

C103

BID DOCUMENTS



1 C104 OVERALL SITE PLAN



2 C104 OVERALL SITE PLAN

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201-0052-002

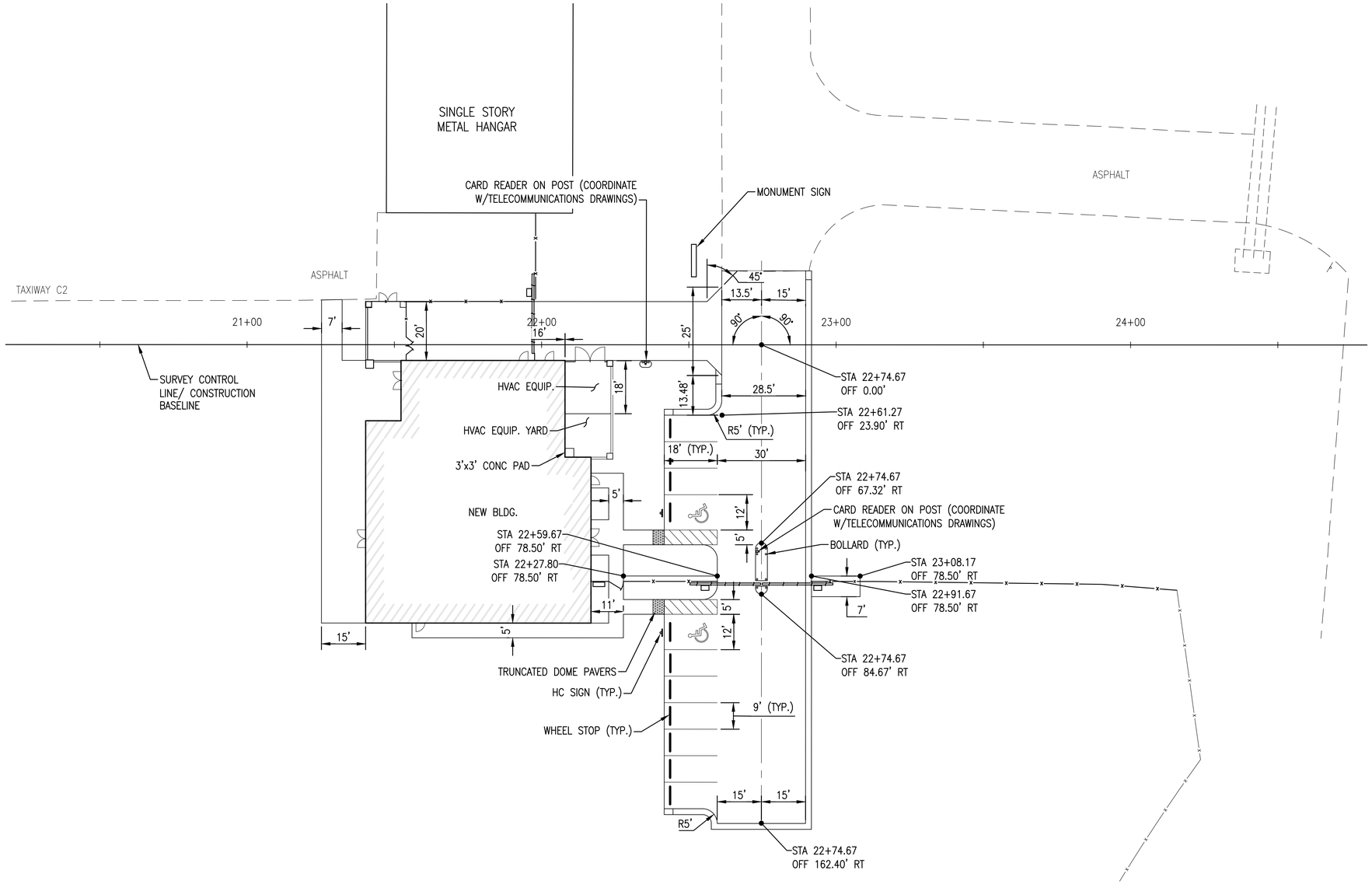
SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C104

BID DOCUMENTS



1 / C105 STAKING PLAN

0 10' 20' 40'

SCALE: 1" = 20'

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DESIGNED BY:	JJF
PROJECT NUMBER:	201-0052-002

SHEET TITLE

STAKING PLAN

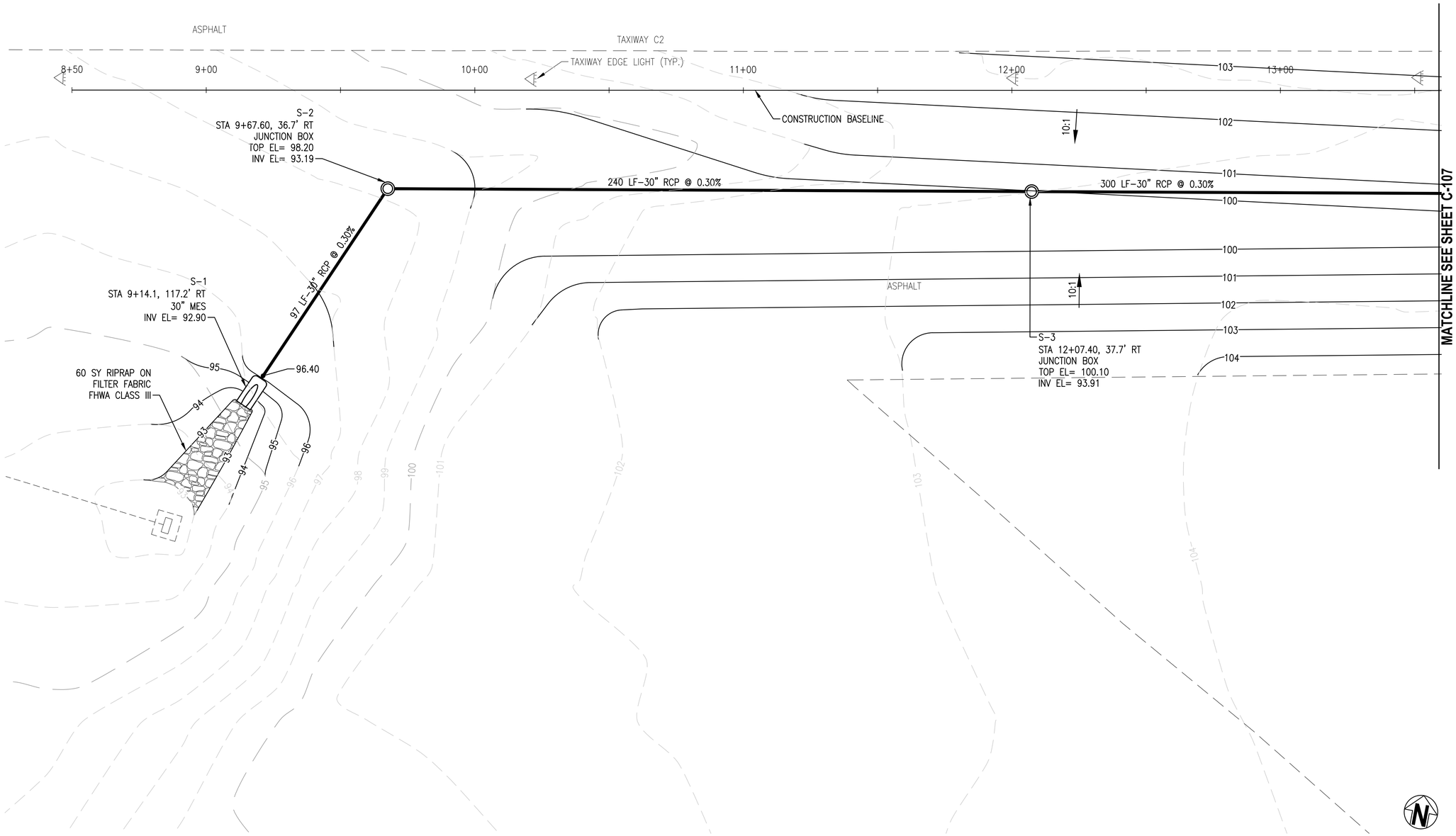
SHEET NUMBER

C105

BID DOCUMENTS

NOTES:

1. STABILIZATION OF TAXIWAY DITCHES SHALL OCCUR IMMEDIATELY AFTER FINAL GRADE. THE CONTRACTOR SHOULD PHASE THESE EFFORTS TO MINIMIZE ANY UNSTABILIZED AREAS NEAR THE TAXIWAY.



1 C106 DRAINAGE & GRADING PLAN

SCALE: 1" = 20'

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PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

DRAINAGE & GRADING PLAN

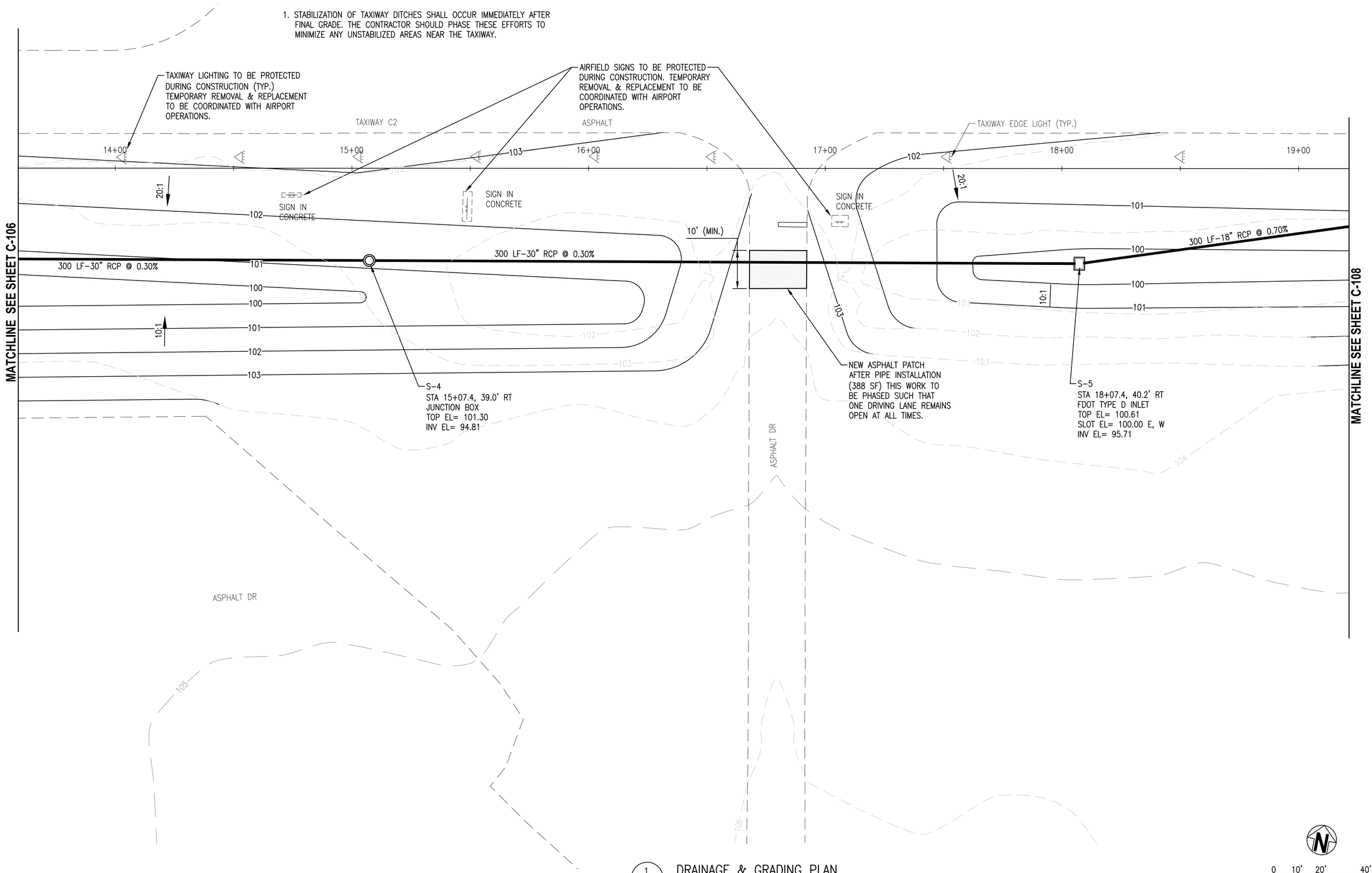
SHEET NUMBER

C106

BID DOCUMENTS

NOTES:

1. STABILIZATION OF TAXIWAY DITCHES SHALL OCCUR IMMEDIATELY AFTER FINAL GRADE. THE CONTRACTOR SHOULD PHASE THESE EFFORTS TO MINIMIZE ANY UNSTABILIZED AREAS NEAR THE TAXIWAY.



1 C107 DRAINAGE & GRADING PLAN

0 10' 20' 40'
SCALE: 1" = 20'

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PROFESSIONAL SEAL

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

DRAINAGE & GRADING PLAN

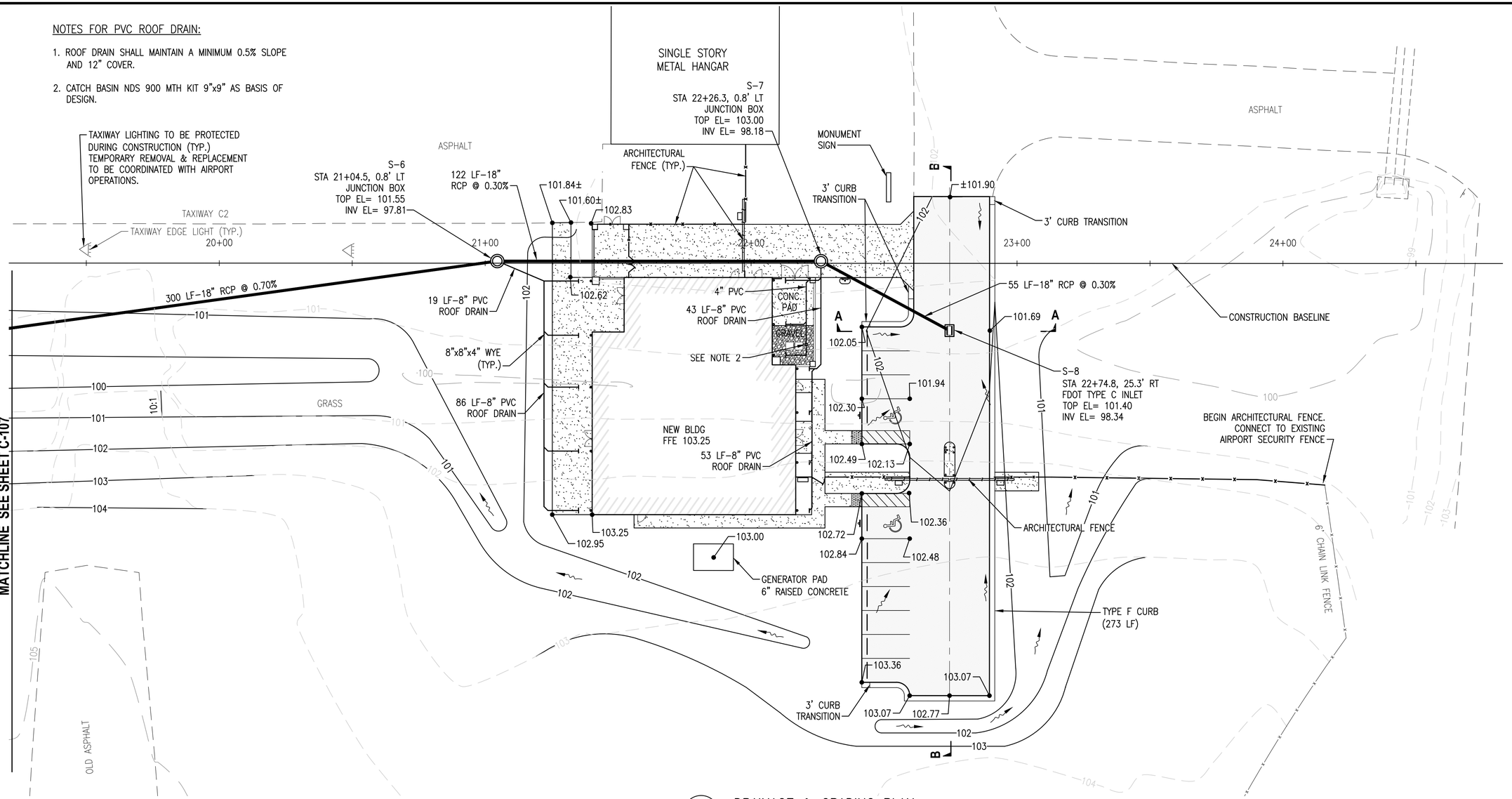
SHEET NUMBER

C107

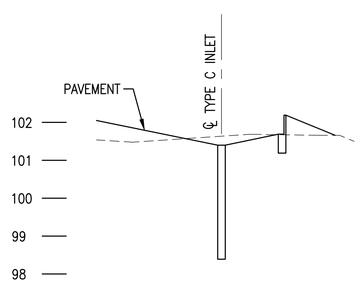
BID DOCUMENTS

NOTES FOR PVC ROOF DRAIN:

1. ROOF DRAIN SHALL MAINTAIN A MINIMUM 0.5% SLOPE AND 12" COVER.
2. CATCH BASIN NDS 900 MTH KIT 9"x9" AS BASIS OF DESIGN.



1 / C108 DRAINAGE & GRADING PLAN



SECTION A – A
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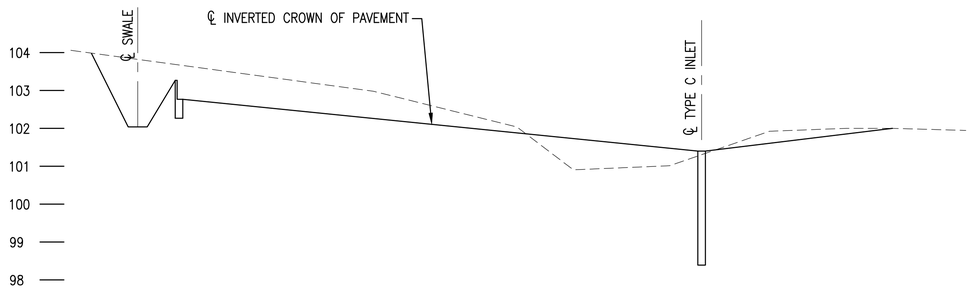

SECTION B – B
NOT TO SCALE

0 10' 20' 40'
SCALE: 1" = 20'

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PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

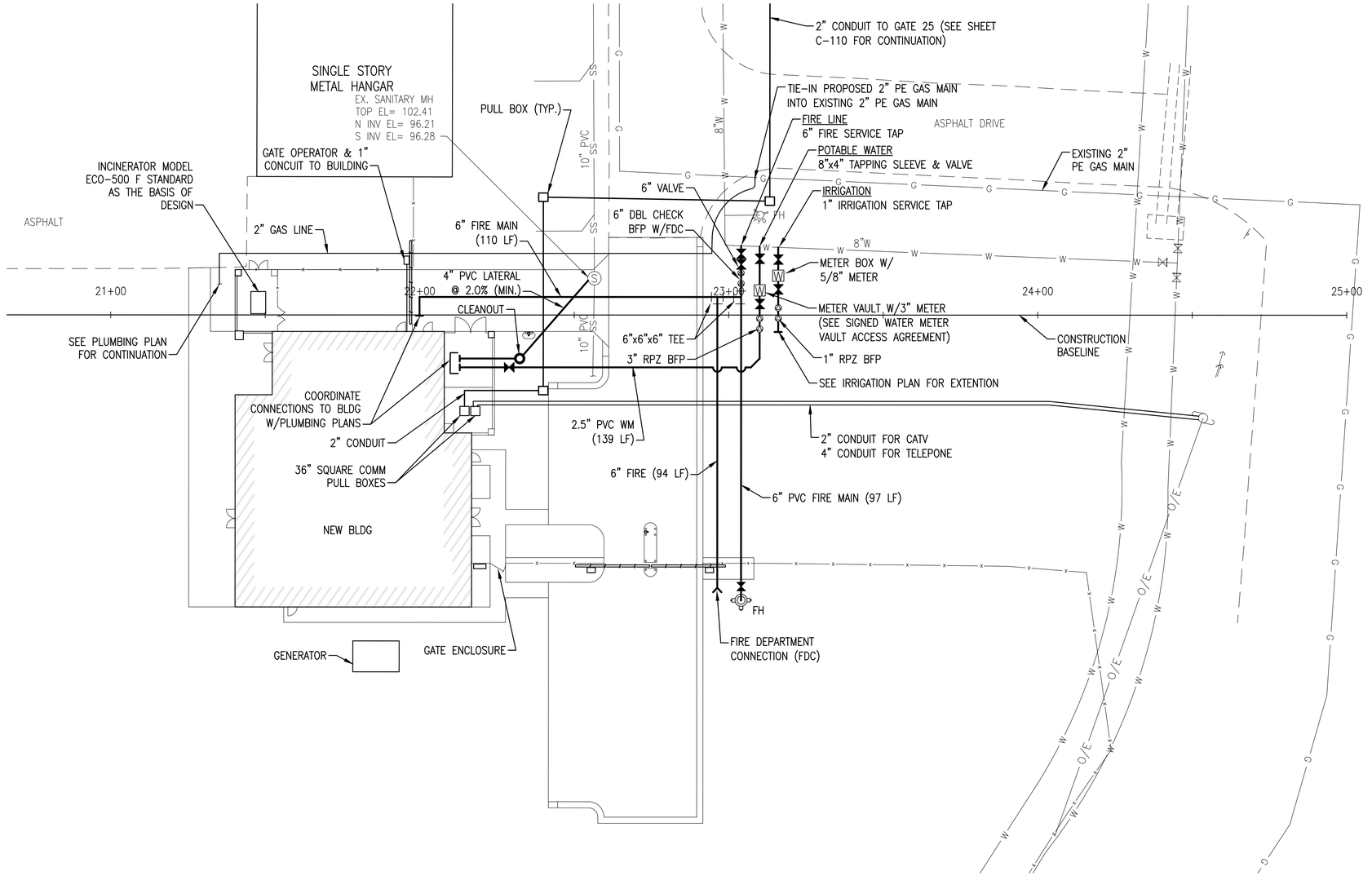
SHEET TITLE

DRAINAGE & GRADING PLAN

SHEET NUMBER

C108

BID DOCUMENTS



1 C109 UTILITY PLAN

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF BACKFLOW ASSEMBLY IN ACCORDANCE WITH ECUA AND MANUFACTURERS SPECIFICATIONS.
2. COORDINATE IRRIGATION TERMINATION WITH THE LANDSCAPE ARCHITECT.
3. THE CONTRACTOR SHALL COORDINATE SERVICE CONNECTIONS TO THE PROPOSED BUILDING WITH THE PLUMBING PLAN.
4. BACKFLOW DEVICES SHALL BE FREEZE PROTECTED.
5. COORDINATE INSTALLATION AND CONNECTION OF THE INCINERATOR WITH THE PLUMBING PLANS.
6. FINAL NATURAL GAS CONNECTION CORRIDOR TO BE DETERMINED BY THE UTILITY PROVIDER AT COMMENCEMENT OF CONSTRUCTION.

0 10' 20' 40'
SCALE: 1" = 20'

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FL Reg. Engineer #86469

REVISIONS

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DATE ISSUED:	03/03/2020
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DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C109

BID DOCUMENTS

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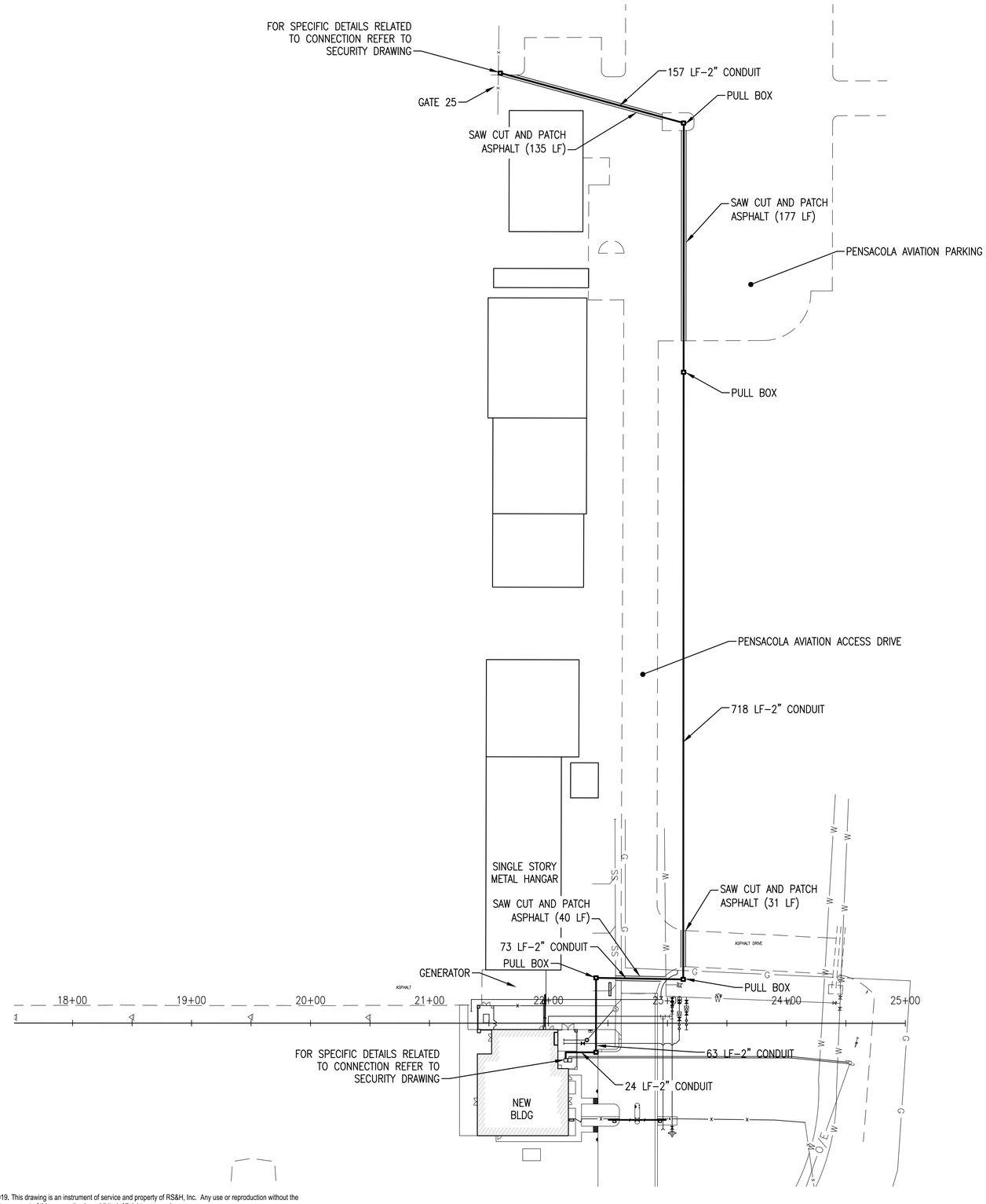

NOTES:

1. THIS DRAWING IS NOT TO SCALE TAKEN FROM AERIAL PHOTOGRAPHY.
2. CONTRACTOR TO LOCATE ALL UTILITIES ALONG THE PROPOSED CORRIDOR.
3. CONTRACTOR TO COORDINATE THE MAINTENANCE OF TRAFFIC FOR THE CONDUIT INSTALLATION WITH THE PENSACOLA AVIATION CENTER.
4. STABILIZE ALL DISTURBED AREAS WITH SOD.

1 / C110 PLAN

0 25' 50' 100'
SCALE: 1" = 50'

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DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SECURITY COORDINATION

SHEET NUMBER

C110

BID DOCUMENTS

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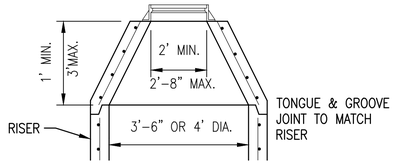
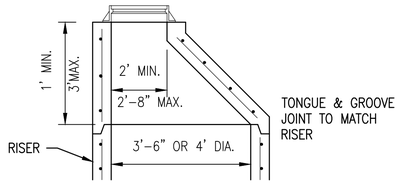
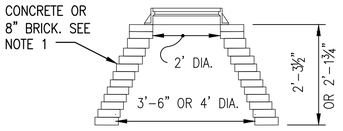


PRECAST CONCENTRIC CONE



PRECAST ECCENTRIC CONE



BRICK OR CONCRETE

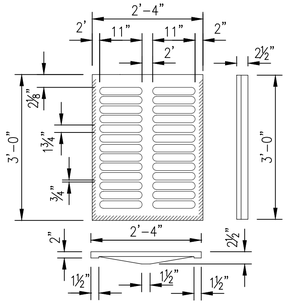
TYPE 8 MANHOLES

NOTES (TOPS)

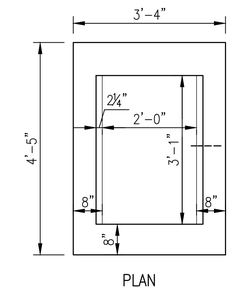
1. MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST CONCRETE CONSTRUCTION OR BRICK CONSTRUCTION. FOR CONCRETE CONSTRUCTION, THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT. AN ECCENTRIC CONE MAY BE USED.
2. MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS AS SHOWN.

MANHOLE TOPS

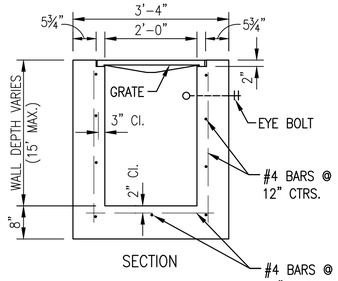
NOT TO SCALE



TYPE 'C' GRATE



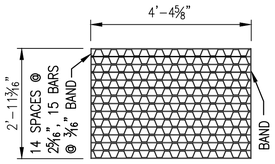
PLAN



SECTION

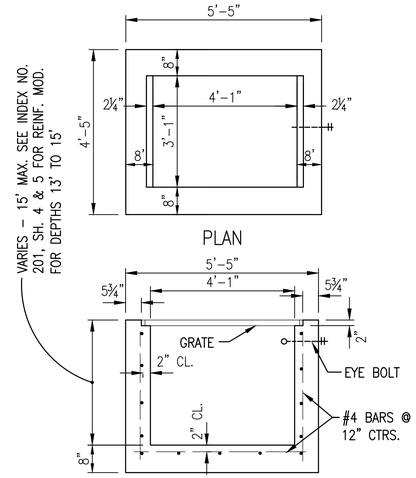
FDOT TYPE C INLET

NOT TO SCALE



TYPE D

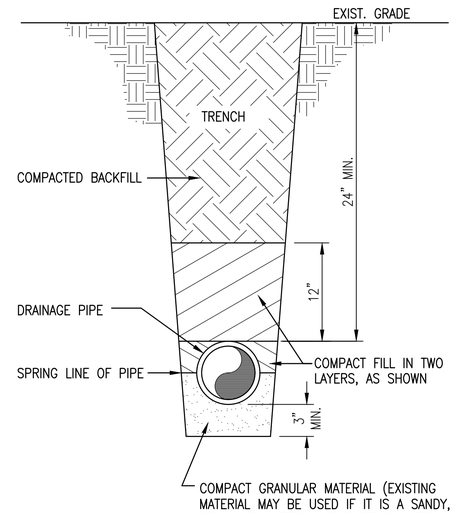
STRAIGHT BARS 2"x 3⁄16"
RETICULINE BARS 1¼"x 3⁄16"
BANDS APPROX. 1½"x ¼"
WEIGHT 180 LBS.



RECOMMENDED MAXIMUM PIPE SIZE:
3'-1" WALL-24" PIPE
4'-1" WALL-36" PIPE

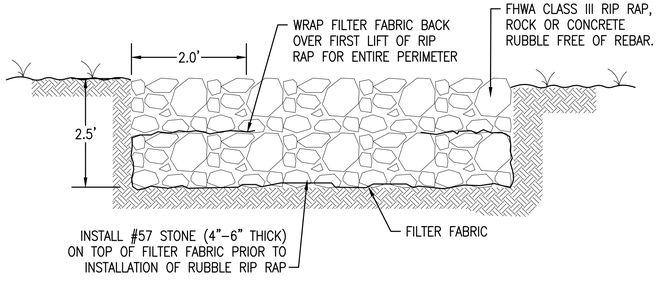
FDOT TYPE D INLET

NOT TO SCALE



TYPICAL DRAINAGE PIPE BEDDING

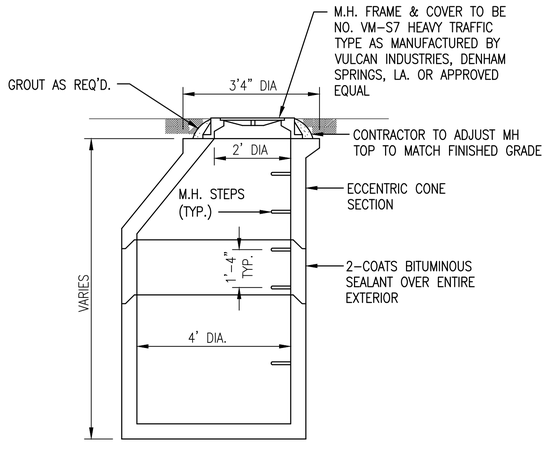
NOT TO SCALE



SEE PLANS FOR TOTAL AREA OF RIP RAP PLACEMENT

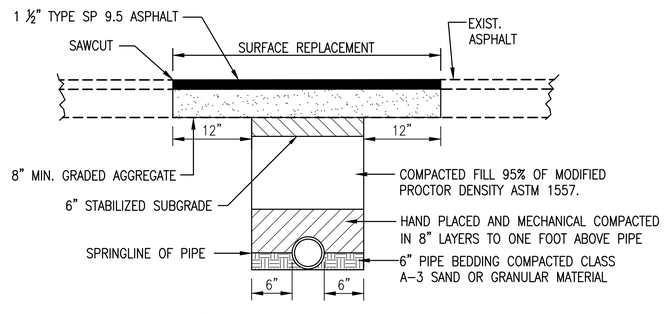
RIP RAP DETAIL

NOT TO SCALE



JUNCTION BOX

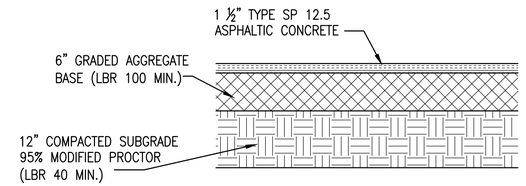
NOT TO SCALE



GRADED AGGREGATE BASE LAYER SHALL BE COMPACTED TO 100% MODIFIED PROCTOR DENSITY AASHTO T-180. BACKFILL BELOW BASE LAYER WILL BE PLACED IN MAXIMUM 8-INCH THICK LOOSE LIFTS.

LATERAL PAVEMENT PATCH DETAIL

NOT TO SCALE



STANDARD ASPHALT PARKING LOT PAVEMENT SECTION

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Engineering Business: EB-0000340

PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

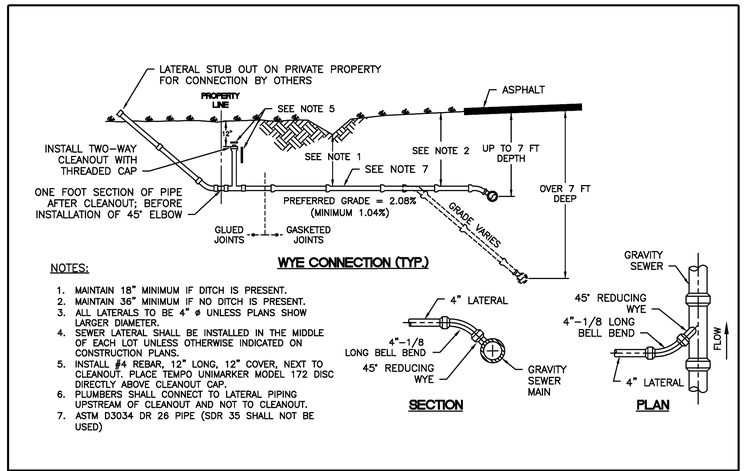
SHEET TITLE

DETAILS

SHEET NUMBER

C900

BID DOCUMENTS

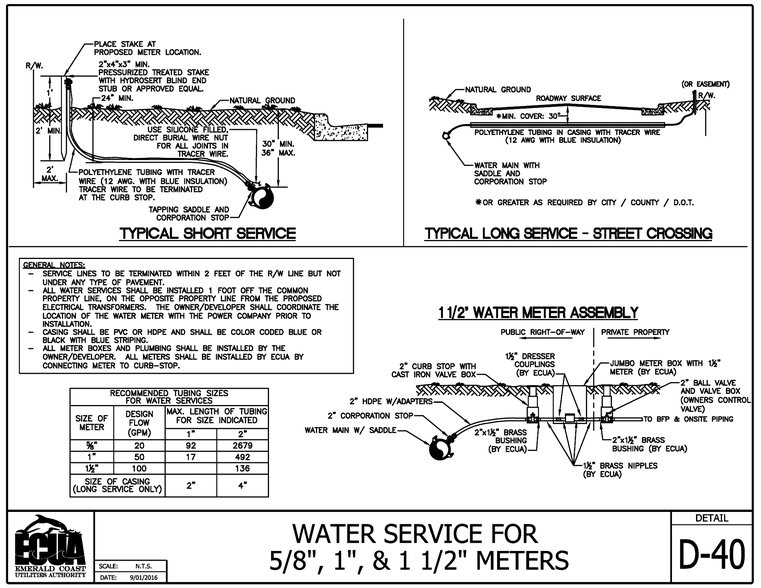


ECUA EMERALD COAST UTILITIES AUTHORITY

SCALE: N.T.S.
DATE: 9/01/2016

SEWER LATERAL CONNECTION

DETAIL D-1



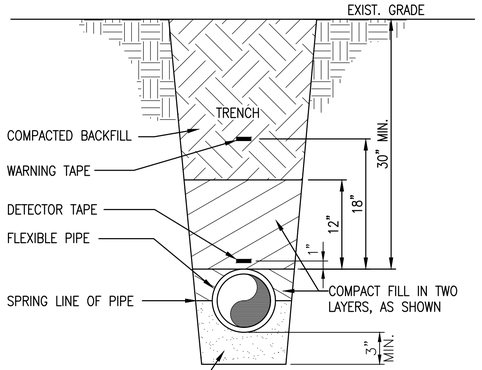
RECOMMENDED TUBING SIZES FOR WATER SERVICES			
SIZE OF METER	DESIGN FLOW (GPM)	MAX. LENGTH OF TUBING FOR SIZE INDICATED	
		1"	2"
5/8"	20	92	2679
1"	50	17	492
1½"	100		136
SIZE OF CASING (LONG SERVICE ONLY)		2"	4"

ECUA EMERALD COAST UTILITIES AUTHORITY

SCALE: N.T.S.
DATE: 9/01/2016

WATER SERVICE FOR 5/8", 1", & 1 1/2" METERS

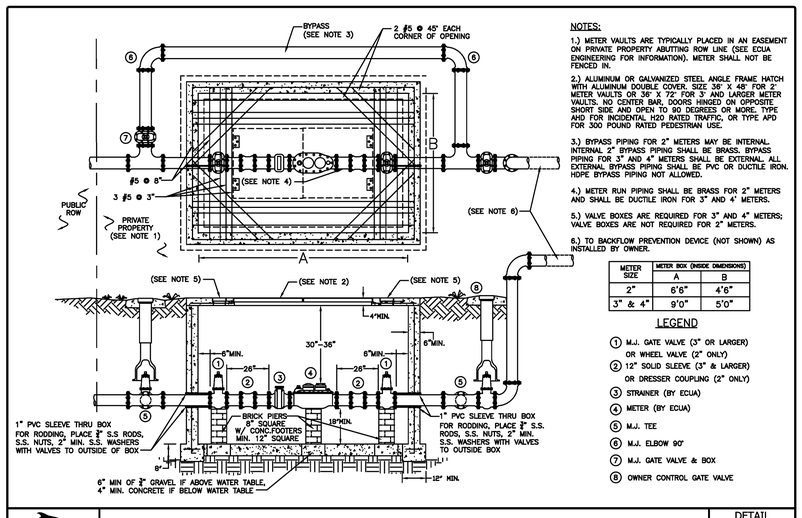
DETAIL D-40



TYPICAL UTILITY PIPE BEDDING
NOT TO SCALE

NOTES:

1. 2" METER VAULT TO BE CONNECTED USING THE APPROPRIATE APPURTENANCES.



NOTES:

1.) METER VAULTS ARE TYPICALLY PLACED IN AN EASEMENT ON PRIVATE PROPERTY ABUTTING ROW LINE (SEE ECUA ENGINEERING FOR INFORMATION). METER SHALL NOT BE FENCED IN.

2.) ALUMINUM OR GALVANIZED STEEL ANGLE FRAME HATCH WITH ALUMINUM DOUBLE COVER. SIZE 36" X 48" FOR 2" METER VAULTS OR 36" X 72" FOR 3" AND LARGER METER VAULTS. NO CENTER BAR. DOORS HINGED ON OPPOSITE SHORT SIDE AND OPEN TO 90 DEGREES OR MORE. TYPE AHD FOR INCIDENTAL H20 RATED TRAFFIC, OR TYPE APD FOR 300 POUND RATED PEDESTRIAN USE.

3.) BYPASS PIPING FOR 2" METERS MAY BE INTERNAL. INTERNAL 2" BYPASS PIPING SHALL BE BRASS. BYPASS PIPING FOR 3" AND 4" METERS SHALL BE EXTERNAL. ALL EXTERNAL BYPASS PIPING SHALL BE PVC OR DUCTILE IRON. HDPE BYPASS PIPING NOT ALLOWED.

4.) METER RUN PIPING SHALL BE BRASS FOR 2" METERS AND SHALL BE DUCTILE IRON FOR 3" AND 4" METERS.

5.) VALVE BOXES ARE REQUIRED FOR 3" AND 4" METERS; VALVE BOXES ARE NOT REQUIRED FOR 2" METERS.

6.) TO BACKFLOW PREVENTION DEVICE (NOT SHOWN) AS INSTALLED BY OWNER.

METER SIZE	METER BOX (INSIDE DIMENSIONS)	
	A	B
2"	6'6"	4'6"
3" & 4"	9'0"	5'0"

LEGEND

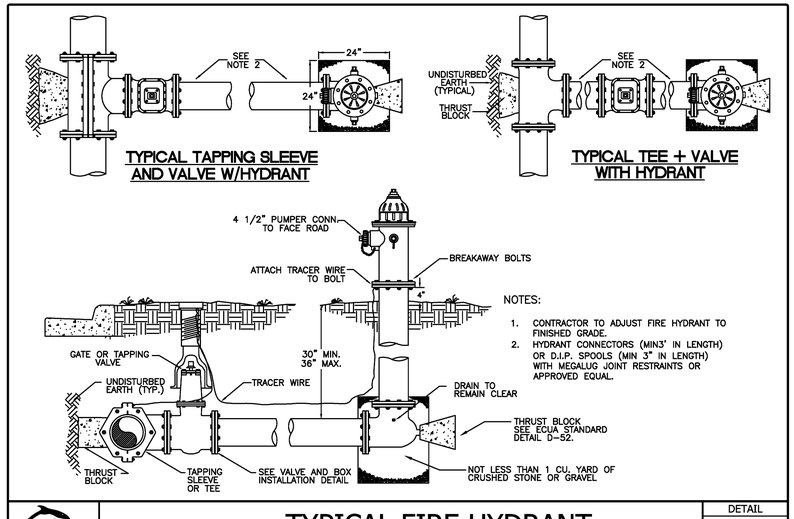
1. M.J. GATE VALVE (3" OR LARGER) OR WHEEL VALVE (2" ONLY)
2. 12" SOLID SLEEVE (3" & LARGER) OR DRESSER COUPLING (2" ONLY)
3. STRAINER (BY ECUA)
4. METER (BY ECUA)
5. M.J. TEE
6. M.J. ELBOW 90°
7. M.J. GATE VALVE & BOX
8. OWNER CONTROL GATE VALVE

ECUA EMERALD COAST UTILITIES AUTHORITY

SCALE: N.T.S.
DATE: 9/01/2016

2", 3" & 4" METER VAULT

DETAIL D-44

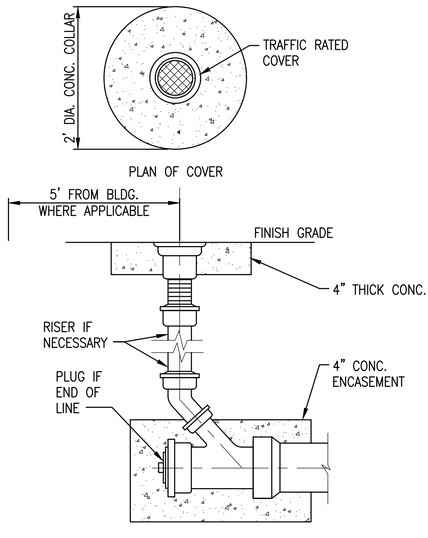


ECUA EMERALD COAST UTILITIES AUTHORITY

SCALE: N.T.S.
DATE: 9/01/2016

TYPICAL FIRE HYDRANT INSTALLATION

DETAIL D-50



SANITARY SEWER CLEANOUT
NOT TO SCALE

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DESIGNED BY:	JJF

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201-0052-002

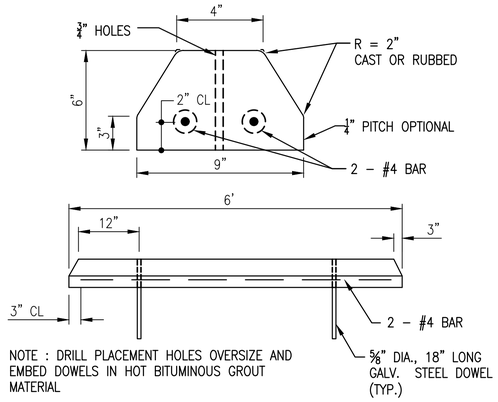
SHEET TITLE

DETAILS

SHEET NUMBER

C901

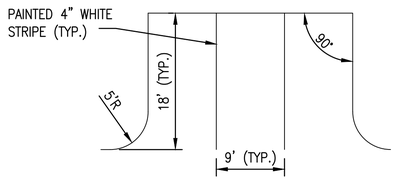
BID DOCUMENTS



NOTE : DRILL PLACEMENT HOLES OVERSIZE AND EMBED DOWELS IN HOT BITUMINOUS GROUT MATERIAL

WHEELSTOP DETAIL

NOT TO SCALE

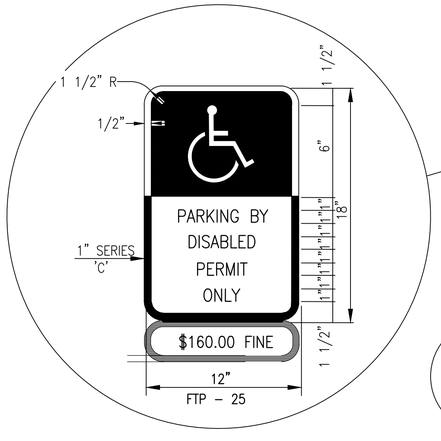


WITHOUT CURB

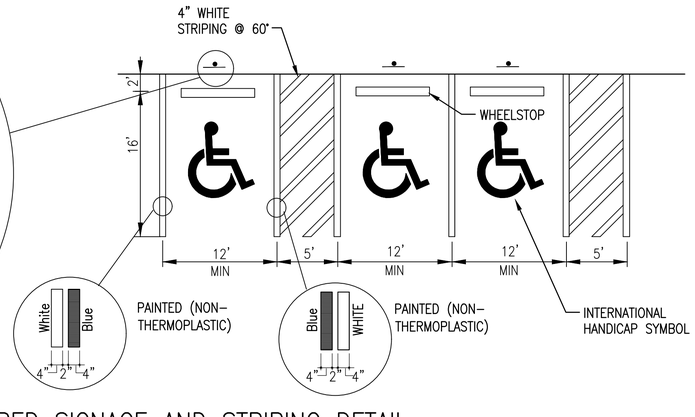
STANDARD STRIPING DETAIL

NOT TO SCALE

NOTES:
1. TOP PORTION OF FTP 25 & 26 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 25 & 26 MAY BE FABRICATED ON ONE PANEL OR TWO.
4. FTP 25 MAY BE SUBSTITUTED FOR THE FTP 26 IN AREAS WHERE SPACE IS LIMITED.
5. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT. (7' FROM PAVEMENT TO BOTTOM OF SIGN).

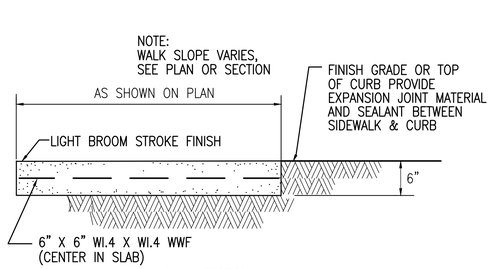


NOTES:
1. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE–GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY," OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
2. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL INSURE THAT ALL HANDICAPPED PARKING AREAS SHALL HAVE A MAXIMUM FINISHED SLOPE OF 2.0% IN ANY DIRECTION. ACCESS ISLES SHALL HAVE A MAXIMUM CROSS–SLOPE OF 2.0% AND LESS THAN 5.0% GRADE.

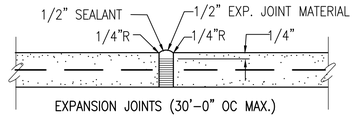


HANDICAPPED SIGNAGE AND STRIPING DETAIL

NOT TO SCALE

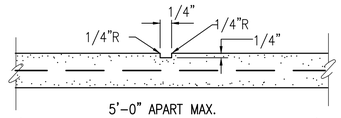


WALK SECTION



EXPANSION JOINTS (30'–0" OC MAX.)

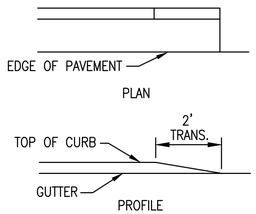
EXPANSION JOINT



5'–0" APART MAX.
(EXCEPT WHERE EXPANSION JOINTS ARE REQUIRED)
CONTRACTION JOINT

TYPICAL CONCRETE SIDEWALK DETAILS

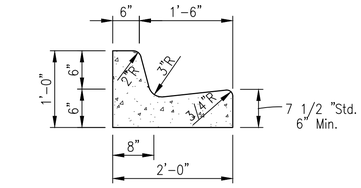
NOT TO SCALE



STRAIGHT END

CURB & GUTTER ENDING

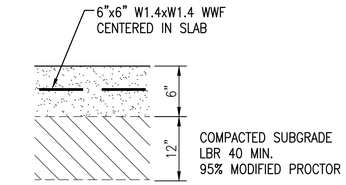
NOT TO SCALE



NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

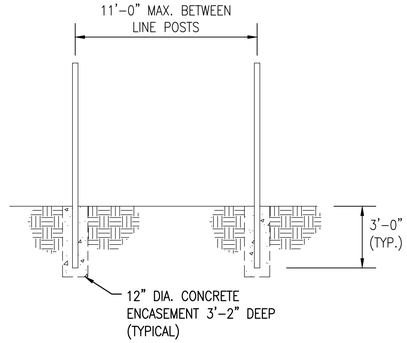
FDOT TYPE F CURB

NOT TO SCALE



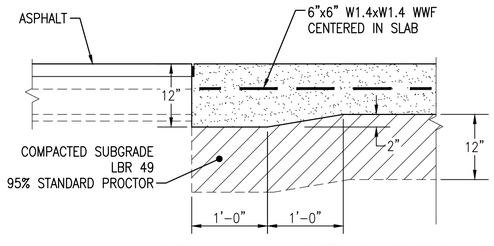
TYPICAL CONCRETE SECTION

NOT TO SCALE



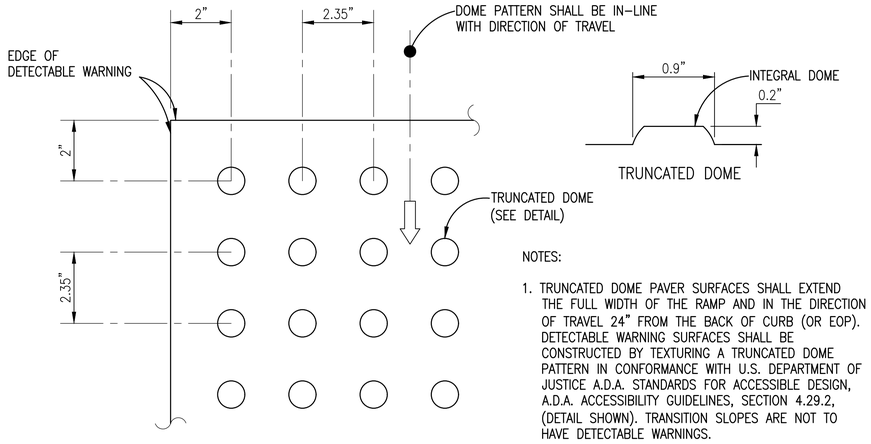
TYPICAL FENCE POST DETAIL

NOT TO SCALE



DETAIL – CONCRETE PAVEMENT INTERFACE TO ASPHALT PAVEMENT

NOT TO SCALE



NOTES:
1. TRUNCATED DOME PAVER SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB (OR EOP). DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING A TRUNCATED DOME PATTERN IN CONFORMANCE WITH U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, A.D.A. ACCESSIBILITY GUIDELINES, SECTION 4.29.2, (DETAIL SHOWN). TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.
2. UNLESS OTHERWISE CALLED OUT IN THE PLANS, THE TRUNCATED DONE PAVER SURFACE SHALL BE COLORED IN ACCORDANCE WITH SECTION 351 OF THE STANDARD SPECIFICATIONS.

TRUNCATED DOME PAVERS

NOT TO SCALE

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SHEET TITLE

DETAILS

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C902

BID DOCUMENTS

STORMWATER POLLUTION PREVENTION PLAN GENERAL NOTES & DETAILS FOR SOIL EROSION AND SEDIMENT CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE STAKED SOD.

3. PERMANENT VEGETATION TO BE SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING.

4. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.

*5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL AREAS SUBJECT TO EROSION WILL RECEIVE STAKED SOD.

*6. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS.

7. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

*8. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

9. UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.

10. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED.

11. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

13. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).

14. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

15. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.

16. ALL CATCH BASIN INLETS SHALL BE PROTECTED WITH HAY BALES AS SHOWN ON DETAIL.

17. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING AND DOWNSTREAM SILTATION PROTECTION.

18. ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

19. THE CONTRACTOR'S MEANS AND METHODS OF GROUNDWATER DEWATERING SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS FOR THE TEMPORARY DIVERSION OF GROUNDWATER AND ITS DISCHARGE, INCLUDING FDEP CHAPTER 62-621 "GENERAL PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY".

* WHERE APPLICABLE

SODDING

SOD SHALL BE WELL ROOT MATTED COMMERCIALLY CUT TO A MINIMUM DIMENSION OF 12" x 24" OR IN A ROLL A MAXIMUM OF 72 HOURS PRIOR TO PLACEMENT. SOD SHALL BE LIVE, FRESH AND UNINJURED, REASONABLY FREE OF WEEDS AND OTHER GRASSES, WITH A HEAVY SOIL MAT ADHERING TO THE ROOT SYSTEM. SOD SHALL BE GROWN, CUT, AND SUPPLIED BY A STATE CERTIFIED GROWER.

TREE PROTECTION

1. DAMAGED TRUNKS OR EXPOSED ROOTS WILL BE PAINTED IMMEDIATELY WITH A QUALITY GRADE OF "TREE PAINT".

2. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA PAINTED IMMEDIATELY WITH A QUALITY GRADE OF TREE PAINT.

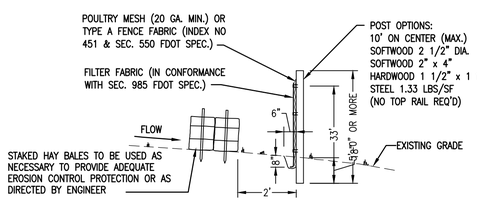
DUST CONTROL

1. ALL AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.

2. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATION COVER.

3. IN EVENT OF EMERGENCY CONDITIONS, TILLAGE WILL BE SATISFACTORY FREE BEFORE SOIL BLOWING STARTS.

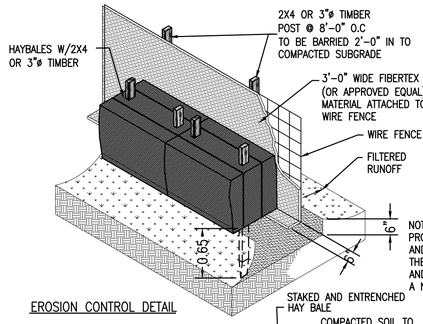
4. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 102-5, LATEST EDITION.



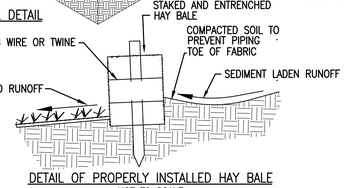
SILT FENCE NOTES:
1. FABRIC TO BE PLACED FACING DRAINAGE FLOW
2. FABRIC TO BE PLACED IN A 6" WIDE x 8" DEEP CONTINUOUS TRENCH, THEN BACKFILLED
3. ALL LUMBER TO BE PRESSURE/PRESERVATIVE TREATED
4. SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. SILT FENCE TO REMAIN UNTIL 100% PROJECT GRASSING (STABILIZATION) IS ACHIEVED
5. PREFABRICATED SILT FENCES ARE PERMITTED AS LONG AS THEY MEET OR EXCEED FDOT SPECIFICATIONS.

TYPE IV SILT FENCE DETAIL

NOT TO SCALE

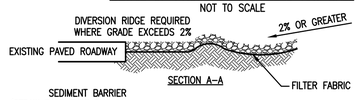


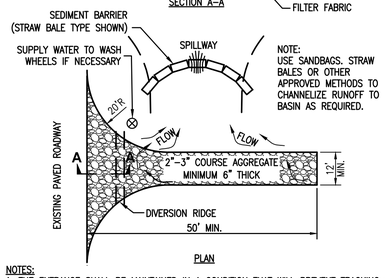
EROSION CONTROL DETAIL



DETAIL OF PROPERLY INSTALLED HAY BALE

NOT TO SCALE





PLAN

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

NOTE:
ALL SPECIMEN TREES AS SHOWN ON THE PLANS TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL SNOW OR SILT FENCING AT THE DRIP LINE OF EACH SPECIMEN TREE BEFORE WORKING IN THE VICINITY OF THE TREE, AS DIRECTED BY THE ENGINEER.

CORRECT FENCING FOR SPECIMEN TREE PROTECTION

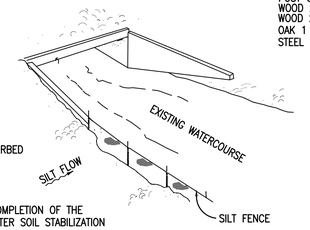
NOT TO SCALE

DESCRIPTION:
FILTER BAGS WILL BE USED AS AN EFFECTIVE FILTER MEDIUM TO CONTAIN SAND, SILT AND FINES WHEN TRENCH DEWATERING. THE WETLAND FILTER BAG CONTAINS THESE MATERIALS WHILE ALLOWING THE WATER TO FLOW THROUGH THE FABRIC.

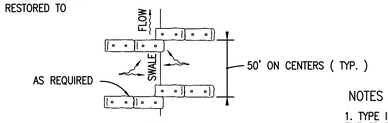
INSTALLATION:
WETLAND FILTER BAGS MAY REPLACE HAY BALE CORRALS DURING TRENCH DEWATERING, AT THE DISCRETION OF THE ENGINEER INSPECTOR. TO INSURE PROPER INSTALLATION, FILTER BAGS WILL BE PLACED ON RELATIVELY FLAT TERRAIN FREE OF BRUSH AND STUMPS TO AVOID RUPTURES AND PUNCTURES. PROPER INSTALLATION REQUIRES CUTTING A SMALL HOLE IN THE CORNER OF THE BAG, INSERTING THE PUMP DISCHARGE HOSE, AND THEN SECURING THE DISCHARGE HOSE TO THE BAG WITH A HOSE CLAMP. FILTER BAGS WILL BE PLACED AS FAR AWAY FROM FLOWING STREAMS AND WETLANDS AS POSSIBLE.

MAINTENANCE:
PRIOR TO REMOVING A BAG FROM THE HOSE, THE BAG WILL BE TIED OFF BELOW THE END OF THE HOSE ALLOWING THE BAG TO DRAIN. DRAINAGE WILL NOT BE ALLOWED THROUGH THE INLET HOLE. TO AVOID RUPTURE, THE BAGS WILL BE ATTENDED AND PUMPING RATES MONITORED. ONCE THE BAG IS INFLATED TO A HEIGHT OF 4 FEET, PUMPING WILL STOP TO AVOID RUPTURE. FILTER BAGS USED DURING CONSTRUCTION WILL BE BUNDLED AND REMOVED FOR PROPER DISPOSAL.

SPECIFICATION:
FILTER BAGS ARE CONSTRUCTED OF NON-WOVEN GEOTEXTILE FABRIC. A MAXIMUM OF ONE SIX INCH DISCHARGE HOSE WILL BE ALLOWED PER FILTER BAG. BAG CAPACITY WILL BE EXCEEDED BEYOND 2,000 GALLONS PER MINUTE. TYPICAL BAG DIMENSIONS ARE 15 FEET BY 13.25 FEET. TO HELP PREVENT PUNCTURES, GEOTEXTILE FABRIC WILL BE PLACED BENEATH THE FILTER BAG WHEN USED IN WOODED LOCATIONS. UNATTENDED FILTER BAGS WILL BE ENCIRCLED WITH A HAY BALE OR SILT FENCE CORRAL. HOSE CLAMPS WILL BE USED TO SECURE THE DISCHARGE HOSE, WIRE OR STRING WILL NOT BE USED.

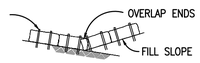


NOTE: AT THE COMPLETION OF THE PROJECT AND AFTER SOIL STABILIZATION AND VEGETATIVE GROWTH HAVE BEEN ASSURED, THE SILT FENCE MUST BE COMPLETELY REMOVED AND THE EMBEDMENT TRENCH RESTORED TO A NATURAL CONDITION.



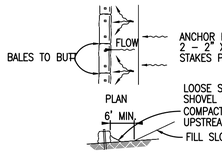
PLAN

ANCHOR BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE.



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



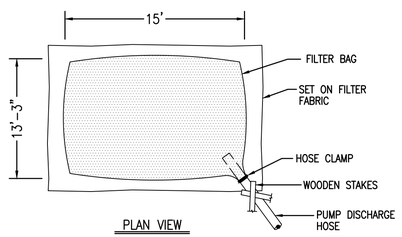
PLAN

ELEVATION

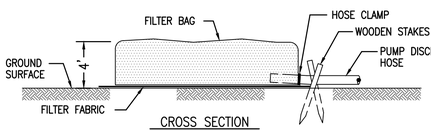
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

NOT TO SCALE



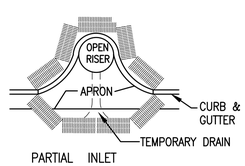
PLAN VIEW



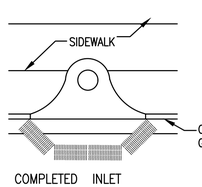
CROSS SECTION

FILTER BAG DETAIL FOR TRENCH DEWATERING OPERATIONS

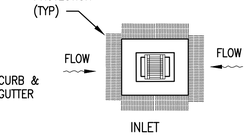
NOT TO SCALE



PARTIAL INLET



COMPLETED INLET

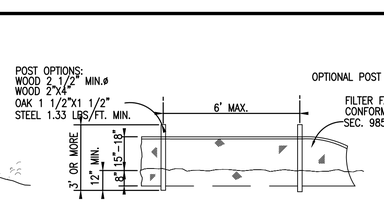


INLET

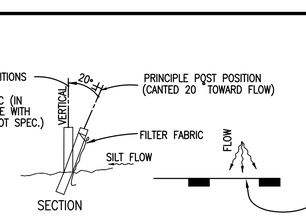
ANCHOR INLET PROTECTION WITH 2 - 2" X 2" X 4' STAKES

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

NOT TO SCALE

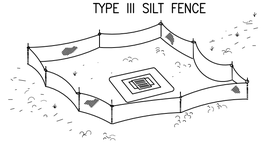


ELEVATION

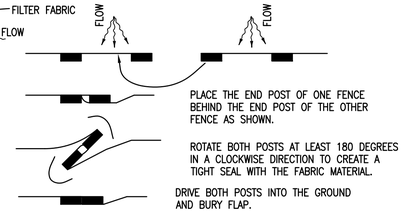


SECTION

TYPE III SILT FENCE



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



PLAN VIEW JOINING TWO SILT FENCES

NOTES FOR SILT FENCES

1. TYPE III SILT FENCE SHALL BE USED. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1, FDOT DESIGN STANDARDS INDEX NO. 102, LATEST EDITION.

2. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES.

3. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

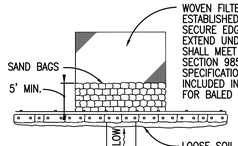
4. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (LF).

EXISTING DITCH OR SWALE WITH INTERMITTENT FLOW

TYPE III SILT FENCE

TYPE III SILT FENCE APPLICATIONS

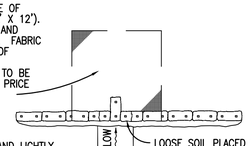
NOT TO SCALE



WOVEN FILTER FABRIC IN ABSENCE OF ESTABLISHED GRASS (APPROX. 12' X 12'). SECURE EDGES BY ENTRENCHING AND EXTEND UNDER BAGS AND BALES. FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 985 OF THE STANDARD SPECIFICATIONS. COST OF FABRIC TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, TN.

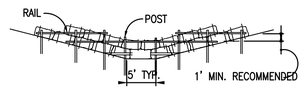
LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY COMPACTED ALONG THE UPSTREAM EDGE OF BALES.

PLAN



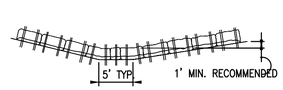
LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY COMPACTED ALONG THE UPSTREAM EDGE OF BALES.

PLAN



ANCHOR LOWER BALES WITH 2 - 2"X2"X4' STAKES PER BALE. ANCHOR TOP BALES TO LOWER BALES WITH 2 - 2"X2"X4' STAKES PER BALE.

ELEVATION



ANCHOR BALES WITH 2 - 2"X2"X4' STAKES PER BALE

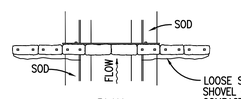
ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART 1, SHEET 1 OF 3, INDEX NO. 102

TYPE II ⎯ TYPE I ⎯

BARRIER FOR UNPAVED DITCHES

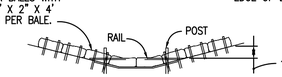
NOT TO SCALE



PLAN

LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY COMPACTED ALONG UPSTREAM EDGE OF BALES.

ANCHOR BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE.

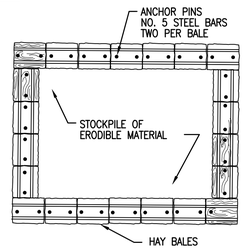


ELEVATION

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3, INDEX NO. 102

BARRIER FOR PAVED DITCH

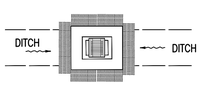
NOT TO SCALE



MATERIAL STOCKPILE DETAIL

NOT TO SCALE

ANCHOR BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE.



DITCH BOTTOM INLET

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956
EB0005620 * LCC000210 * GB238

PENSACOLA International Airport

PENSACOLA INTERNATIONAL AIRPORT

PENSACOLA, FLORIDA

PENSACOLA GENERAL AVIATION FACILITY (GAF)

IN COLLABORATION WITH:

GMC
720 Bayfront Parkway, Suite 200
Pensacola, FL 32502
T 850.432.0706
F 850.433.0508
GMCNETWORK.COM

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
449 W. MAIN ST.
PENSACOLA, FLORIDA 32502
(850)438-9661
Engineering Business: EB-0000340

PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF
PROJECT NUMBER:	201-0052-002

SHEET TITLE

SEDIMENTATION / EROSION CONTROL DETAILS

SHEET NUMBER

C903

BID DOCUMENTS

STORM WATER POLLUTION PREVENTION PLAN

1.0 BACKGROUND & REQUIREMENTS:

1.1 INTRODUCTION:

THE REFERENCED SUPPORT DOCUMENTATION FOR THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S (EPA) STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES, DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES SUMMARY GUIDANCE (EPA 833-R-92-001) AND STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES, DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES (EPA 832-R-92-005). THIS SWPPP IS DESIGNED TO PROTECT ONSITE AND ADJACENT NATURAL RESOURCES, INCLUDING BUT NOT LIMITED TO, WETLANDS, MARSHES, BAYOUS AND BAYS, WHILE PRESERVING WILDLIFE AND ARCHEOLOGICAL RESOURCES.

1.2 NOTICE OF INTENT (NOI):

RULE 62-621.300(4), FAC REQUIRES THE CONSTRUCTION OPERATOR OF A SITE THAT DISTURBS ONE OR MORE ACRES TO OBTAIN COVERAGE FROM THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES (FDEP FORM 62-621.300) ALONG WITH THE APPROPRIATE APPLICATION FEE TO THE FOLLOWING ADDRESS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION:

NPDES STORMWATER NOTICES CENTER, MS # 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

THIS FORM CAN BE OBTAINED FROM FDEP'S WEBSITE (WWW.DEP.STATE.FL.US) OR BY CONTACTING FDEP. PLEASE NOTE THAT THE CURRENT APPLICATION FEE IS $400(> 5 ACRES) OR $250 (1-4.99 ACRES); HOWEVER, THIS FEE IS SUBJECT TO CHANGE WITHOUT NOTICE. ALWAYS REFER TO THE MOST CURRENT VERSION OF RULE 62-4.050(4)(D), FAC TO CONFIRM THE AMOUNT BEFORE SUBMITTING PAYMENT. IF CONSTRUCTION ACTIVITY EXCEEDS FIVE YEARS, THE CONTRACTOR MUST RE-APPLY FOR COVERAGE.

1.3 STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

THE CONTRACTOR IS REQUIRED TO CERTIFY THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BELOW PRIOR TO SUBMITTING THE NOI. THIS SWPPP IS NOT REQUIRED TO BE SUBMITTED WITH THE NOI, BUT IS REQUIRED TO BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION. BECAUSE EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION METHODS VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR, THE CONTRACTOR CAN PROPOSE ALTERNATIVE METHODS TO THIS SWPPP THAT ARE EQUAL OR BETTER AT CONTROLLING EROSION AND SEDIMENTATION. AT A MINIMUM, THE CONTRACTOR MUST FOLLOW THE EROSION CONTROL PLAN SPECIFIED IN THE CONSTRUCTION PLANS AND DOCUMENTS. ANY MODIFICATIONS TO THIS SWPPP MUST BE DOCUMENTED AND KEPT WITH THE PLAN AS PART OF THE RECORDS KEEPING PROCESS TO BE IN FULL COMPLIANCE WITH THE CGP.

1.4 CONTRACTOR'S CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

PRINT & SIGN NAME _____ COMPANY & ADDRESS _____

_____ _____

NAME & TITLE (PRINT) _____

_____

SIGNATURE DATE

RESPONSIBILITIES (GENERAL CONTRACTOR, SITE CONTRACTOR, SUBCONTRACTOR, OTHER):

_____

1.5 NOTICE OF TERMINATION (NOT):

THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF TERMINATION OF GENERIC PERMIT COVERAGE (FDEP FORM 62-621.300(6)) UPON CONSTRUCTION COMPLETION TO DISCONTINUE PERMIT COVERAGE. THE NOT IS TO BE SUBMITTED TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS # 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

THIS FORM CAN BE OBTAINED FROM FDEP'S WEBSITE (WWW.DEP.STATE.FL.US) OR BY CONTACTING FDEP. THE NOT CAN NOT BE SUBMITTED UNTIL ALL DISTURBED SOILS AT THE CONSTRUCTION SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OF THE COVER FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES HAS BEEN ESTABLISHED, OR EQUIVALENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. IF CONSTRUCTION ACTIVITY EXCEEDS FIVE YEARS, THE CONTRACTOR MUST RE-APPLY FOR COVERAGE.

1.6 APPLICATION INFORMATION:

PROJECT ADDRESS: SECTION 17, TOWNSHIP 1S, RANGE 29W, ESCAMBIA COUNTY, FL. LOCATED WEST OF JERRY L. MAYGARDEN RD. WITHIN THE AIRPORT PROPERTY.

LATITUDE: N 28° 02' 74"
LONGITUDE: W 10° 52' 31"

WATER MANAGEMENT DISTRICT: NORTHWEST FLORIDA (NWFWMD)

ERP PERMIT NO.: 0230740-003-EI/17

MS4 OPERATOR NAME: CITY OF PENSACOLA

RECEIVING WATER NAME: PENSACOLA BAY

2.0 SITE DESCRIPTION:

2.1 NATURE OF CONSTRUCTION ACTIVITIES:

THE PROPOSED IMPROVEMENTS CONSIST OF THE CONSTRUCTION OF THE 18,700 SQUARE FOOT DEVELOPMENT WITH NECESSARY UTILITY CONNECTIONS, ASSOCIATED PARKING AND DRIVE ENTRANCES, LANDSCAPING, AND STORMWATER TREATMENT FACILITIES.

2.2 SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

- EROSION CONTROL MEASURES
- CLEARING AND GRUBBING
- EARTHWORK- BORROW STOCKPILE MATERIAL WILL BE SORTED AND USED AS ON-SITE EARTH FILL
- EARTHWORK- STORMWATER CONVEYANCE CONSTRUCTION
- EARTHWORK- ASSOCIATED WITH BUILDING FOUNDATION, STORM DRAINS, CURBING, BASE, AND PAVEMENT CONSTRUCTION

FINAL LANDSCAPING AND STABILIZATION

THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL TO OR BETTER AT CONTROLLING EROSION AND SEDIMENTATION. THE DETAILED SEQUENCE FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY CHANGES.

THE CONSTRUCTION SHOULD PROCEED IN THE FOLLOWING GENERAL MANNER:

1. INSTALL PERIMETER FENCING. PER AIRPORT OPERATIONS.
2. INSTALL SEDIMENT AND EROSION CONTROL THAT CAN BE PLACED PRIOR TO MAJOR SOIL DISTURBANCE. INSTALL & MAINTAIN REMAINING SEDIMENT CONTROLS CONSISTENT WITH CONSTRUCTION ACTIVITIES.
3. CLEAR AND GRUB SITE.
4. SORT STOCKPILE MATERIAL AND COMPLETE ROUGH GRADING OPERATIONS.
5. CONSTRUCT PROPOSED UNDERGROUND UTILITIES, BUILDING, PARKING LOTS, SIDEWALKS, & CURBS, ETC.
6. CONSTRUCT FINAL GRADING, LANDSCAPING AND PERMANENT EROSION CONTROL.
7. REMOVE TEMPORARY SEDIMENT & EROSION CONTROL WHEN FINAL EROSION CONTROL IS ESTABLISHED.

2.3 AREA ESTIMATES:

TOTAL PROJECT AREA: 5.32 ACRES

2.4 RUNOFF COEFICIENTS:

PRE-CONSTRUCTION- 0.2
DURING CONSTRUCTION- 0.4 - 0.5
POST CONSTRUCTION- 0.5

SOILS DATA: SEE SOILS REPORT FOR ADDITIONAL INFORMATION

2.5 SITE MAP:

THE CONSTRUCTION PLANS ARE BEING UTILIZED AS THE SITE MAP. THE EXISTING CONDITIONS SHEET SHOWS PRE-EXISTING DRAINAGE PATTERNS AND SLOPES. THE GRADING AND DRAINAGE PLANS SHOWS THE STORMWATER FACILITIES AND FINAL GRADE SLOPES. TEMPORARY EROSION CONTROL IS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. LANDSCAPING PLANS DEPICT THE FINAL PERMANENT STABILIZATION.

2.6 RECEIVING WATERS:

PENSACOLA BAY IS THE RECEIVING WATERS OF THE STORMWATER RUNOFF FROM THIS PROJECT.

3.0 CONTROLS:

3.1 EROSION AND SEDIMENT CONTROLS:

ALL EROSION AND SEDIMENT CONTROLS SPECIFIED ON THESE PLANS (LIMITS OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES) SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OR DEMOLITION. SILT FENCING AND STAKED HAY BALES SHALL BE INSTALLED ALONG DOWN-GRADIENT LIMITS TO PROTECT EXISTING DRAINAGE STRUCTURES AND/OR DRAINAGE SYSTEMS FROM EROSION AND SEDIMENTATION. SILT FENCING IS LIMITED TO AREAS OUTSIDE OF AIRPORT SECURITY FENCING.

3.2 STORMWATER MANAGEMENT:

STORMWATER MANAGEMENT WILL BE CONSTRUCTED TO CONVEY STORMWATER TO THE PENSACOLA INTERNATIONAL AIRPORT REGIONAL POND FOR TREATMENT. THE FACILITIES HAVE BEEN PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND COMPLY WITH APPLICABLE DESIGN STANDARDS.

3.3 OTHER CONTROLS:

3.3.1 WASTE DISPOSAL

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIAL, INCLUDING BUILDING MATERIALS, TO WATERS OF THE STATE. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS APPROVED BY THE ENGINEER:

PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

3.3.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL.

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS APPROVED BY THE ENGINEER.

COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

REMOVING EXCESS DIRT FROM ROADS DAILY.

STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO THE FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.

USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION.

3.3.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATION FOR WASTE DISPOSAL, AND SANITARY SEWER, OR SEPTIC SYSTEMS.

3.3.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES.

3.3.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.3.6 APPROVED STATE AND LOCAL PLANS AND PERMITS. CONTRACTOR SHALL ADHERE TO THE CITY AND NWFWMD PERMITS ISSUED FOR THIS PROJECT, AS WELL AS ANY ADDITIONAL FEDERAL, STATE, OR LOCAL PERMITS/ORDINANCES THAT ARE APPLICABLE TO THIS PROJECT.

4.0 MAINTENANCE

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM COMPLY WITH THE FOLLOWING:

SILT FENCE: MAINTAIN PER FDOT SECTION 104 OF THE SPECIFICATIONS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 6 MONTH INTERVALS.

SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.

5.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES PRECIPITATION OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

6.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY HAZARDOUS SUBSTANCE SPILLS THAT MAY EQUAL OR EXCEED A REPORTABLE QUANTITY (RQ). REFER TO EPA'S LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (EPA 40 CFR 302.4 & 117). THIS LIST CAN BE OBTAINED FROM EPA'S WEBSITE (WWW.EPA.GOV) OR BY CONTACTING EPA. IF AN RQ RELEASE DOES OCCUR THE CONTRACTOR SHALL PERFORM THE FOLLOWING PROCEDURES:

NOTIFY THE NATIONAL RESPONSE CENTER IMMEDIATELY AT 800-424-8802.

- PROVIDE WRITTEN DESCRIPTION OF THE RELEASE WITHIN 14 DAYS PROVIDING DATES, CAUSE AND PREVENTION METHODS TO THE REGIONAL EPA OFFICE.

MODIFY THE SWPPP AS NECESSARY TO ADDRESS ADDED PREVENTION METHODS.

7.0 IMPLEMENTATION CHECKLIST:

7.1 RECORDS:

THE CONTRACTOR SHALL MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO:

- DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
- DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASE ON A PORTION OF THE SITE.
- DATES WHEN CONSTRUCTION ACTIVITIES PERMANENTLY CEASE ON A PORTION OF THE SITE.
- DATES WHEN STABILIZATION MEASURES ARE INITIATED ON THE SITE.

7.2 INSPECTION REPORTS:

THE CONTRACTOR SHALL PREPARE INSPECTION REPORTS SUMMARIZING THE FOLLOWING, BUT NOT LIMITED TO:

- NAME OF INSPECTOR.
- QUALIFICATIONS OF INSPECTOR.
- MEASURES/AREAS INSPECTED.
- OBSERVED CONDITIONS.
- CHANGES NECESSARY TO THE SWPPP.

7.3 RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS:

THE CONTRACTOR SHALL REPORT ANY RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS IF THEY OCCUR AS PER THE MEASURES OUTLINED IN SECTION 6.0 OF THE SWPPP.

7.4 SWPPP MODIFICATION:

THE CONTRACTOR SHALL MODIFY THE SWPPP AS NECESSARY TO:

- COMPLY WITH MINIMUM PERMIT REQUIREMENTS WHEN NOTIFIED BY FDEP THAT THE PLAN DOES NOT COMPLY.
- ADDRESS ANY CHANGES IN DESIGN, CONSTRUCTION OPERATIONS OR MAINTENANCE, WHICH HAS AN EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS.
- PREVENT REOCCURRENCE OF REPORTABLE QUANTITY RELEASES OF HAZARDOUS MATERIAL OR OIL.

8.0 TERMINATION CHECKLIST:

THE FOLLOWING ITEMS SHALL BE COMPLETE BEFORE SUBMITTING THE NOT:

- ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME.
- ALL AREAS OF THE CONSTRUCTION SITE NOT OTHERWISE COVERED BY PERMANENT PAVEMENT OR STRUCTURE HAVE BEEN STABILIZED WITH UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OR EQUIVALENT MEASURES HAVE BEEN EMPLOYED.

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PROFESSIONAL SEAL

JASON J. FRICK P.E.
FL Reg. Engineer #86469

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	MDL
DRAWN BY:	RGG
DESIGNED BY:	JJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SWPPP PLAN

SHEET NUMBER

C904

BID DOCUMENTS

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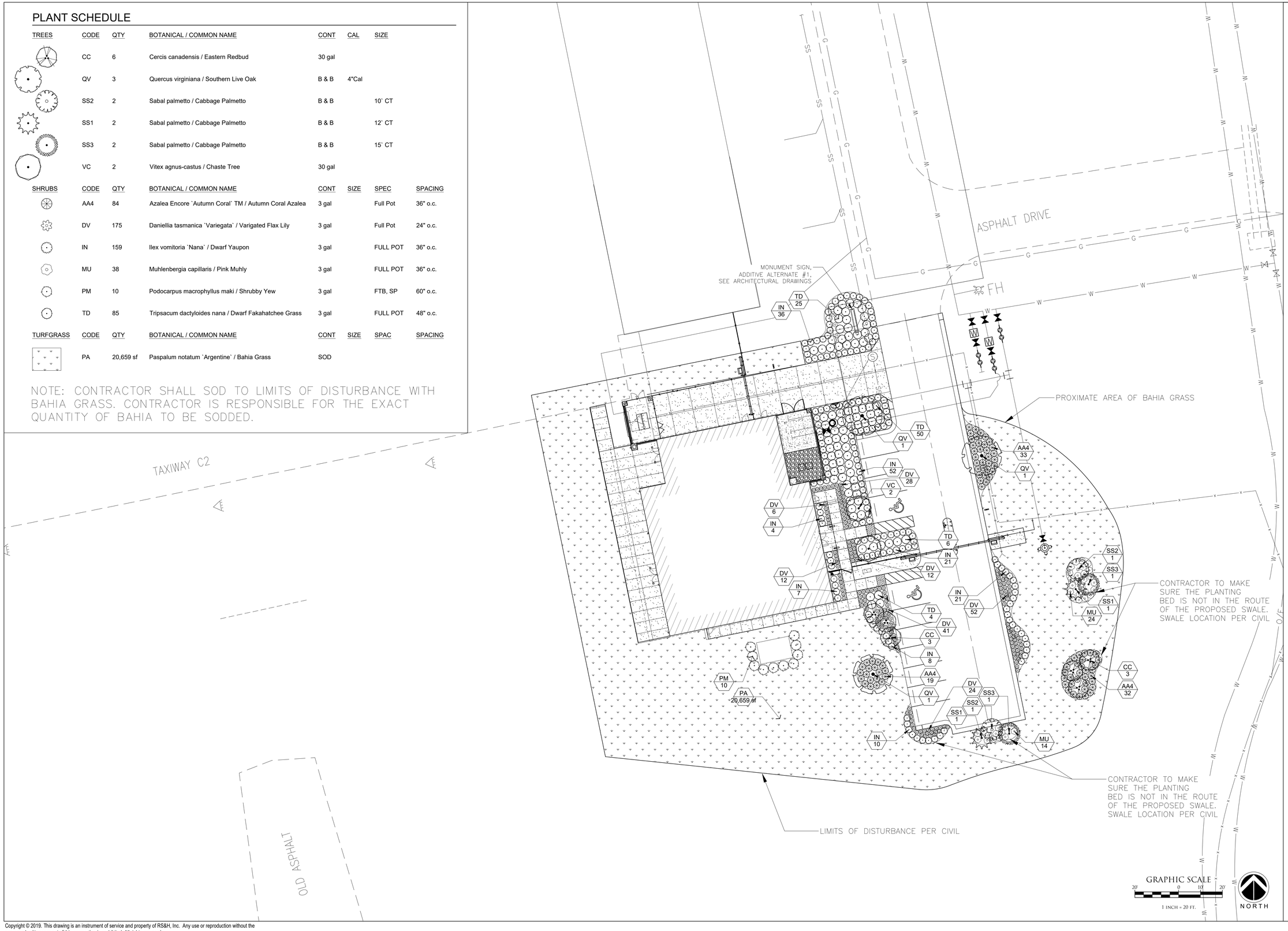
PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	CC	6	Cercis canadensis / Eastern Redbud	30 gal		
	QV	3	Quercus virginiana / Southern Live Oak	B & B	4"Cal	
	SS2	2	Sabal palmetto / Cabbage Palmetto	B & B		10` CT
	SS1	2	Sabal palmetto / Cabbage Palmetto	B & B		12` CT
	SS3	2	Sabal palmetto / Cabbage Palmetto	B & B		15` CT
	VC	2	Vitex agnus-castus / Chaste Tree	30 gal		

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPEC	SPACING
	AA4	84	Azalea Encore `Autumn Coral` TM / Autumn Coral Azalea	3 gal		Full Pot	36" o.c.
	DV	175	Daniellia tasmanica `Variegata` / Varigated Flax Lily	3 gal		Full Pot	24" o.c.
	IN	159	Ilex vomitoria `Nana` / Dwarf Yaupon	3 gal		FULL POT	36" o.c.
	MU	38	Muhlenbergia capillaris / Pink Muhly	3 gal		FULL POT	36" o.c.
	PM	10	Podocarpus macrophyllus maki / Shrubby Yew	3 gal		FTB, SP	60" o.c.
	TD	85	Tripsacum dactyloides nana / Dwarf Fakahatchee Grass	3 gal		FULL POT	48" o.c.

TURFGRASS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPAC	SPACING
	PA	20,659 sf	Paspalum notatum `Argentine` / Bahia Grass	SOD			

NOTE: CONTRACTOR SHALL SOD TO LIMITS OF DISTURBANCE WITH BAHIA GRASS. CONTRACTOR IS RESPONSIBLE FOR THE EXACT QUANTITY OF BAHIA TO BE SODDED.



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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SD
DRAWN BY:	EZ
DESIGNED BY:	EZ

PROJECT NUMBER:
201-0052-002

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L101

BID DOCUMENTS

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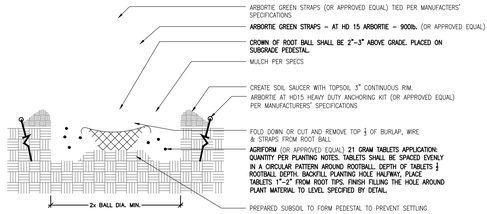
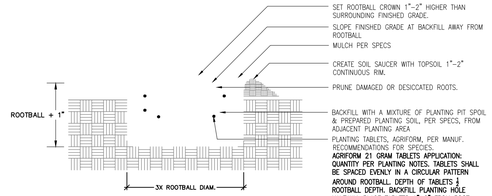
NOTES: TREE PLANTING (OPTIONAL)

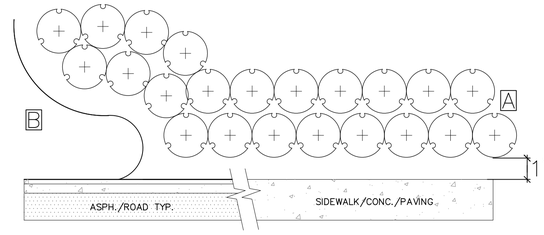
1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERYSTOCK (ANSI Z60.1–2004). PLANT ACCORDING TO ANSI A300 PLANTING STANDARDS.
2. DIG PLANTING HOLE WITH A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL 2"–3" HIGHER THAN THE SOIL SURFACE.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER ⅓ OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE ARBOR TIE GREEN STRAPS HD15 ARBORTIE 900 LB W/ HEAVY DUTY ANCHORING KITS (OR APPROVED EQUAL).
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2–3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY. PRUNING SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
13. FERTILIZE WITH AGRIFORM (OR APPROVED EQUAL) 21 GRAM TABLETS PER PLANTING NOTES



1 L201 DECIDUOUS TREE PLANTING TYP.
NTS



2 L201 SHRUB PLANTING - BARE ROOT
NTS



A SHRUBS AND GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULAR – SPACED IN ROWS PARALLEL TO THE STRAIGHT EDGE.

B SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGES. CURVED EDGES TO BE VERY SMOOTH RADII.

C FIRST ROW OF SHRUBS ADJACENT TO CURB, BEDLINES & CONCRETE SHALL BE A OFFSET A DISTANCE OF 1'.

3 L201 TYPICAL SPACING DETAIL
NTS

1. LANDSCAPE ARCHITECTURE GENERAL PROJECT NOTES & SPECS
 1.1. EXISTING SITE CONDITIONS PROVIDED BY OTHERS.
 1.2. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
 1.3. THE CONTRACTOR IS TO COORDINATE WITH THE RESPONSIBLE UTILITY PROVIDER FOR PROTECTION/HOLDING OF UTILITY POLES, GUY WIRES, AND GUY ANCHORS IN AREAS OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE THE COST OF PROTECTING UTILITY POLES IN THEIR OVERALL PRICE TO THE OWNER/OWNER'S REPRESENTATIVE.
 1.4. ALL EXCESS MATERIAL SHALL BE HAULED AWAY AND DISPOSED OF APPROPRIATELY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL ORDINANCES.
 1.5. RELOCATION OR REPLACEMENT OF OBSTRUCTIONS OWNED BY PRIVATE PROPERTY OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO MUST COORDINATE WITH THE PROPERTY OWNER.
 1.6. THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH FDOT STANDARD PLANS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS.
2. DEMOLITION NOTES:
 2.1. ALL DEBRIS RESULTING FROM PROPOSED DEMOLITION WILL BE DISPOSED OF IN A LEGAL MANNER AND WILL CONFORM TO ANY AND ALL STATE AND LOCAL REGULATIONS AND/OR ORDINANCES WHICH GOVERN SUCH ACTIVITIES.
 2.2. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES AND COORDINATE RELOCATION WITH THE APPROPRIATE UTILITY OWNER AS NECESSARY. ANY AND ALL UTILITIES ENCOUNTERED DURING DEMOLITION WILL BE PROTECTED AND/OR RELOCATED AT THE DISCRETION OF THEIR PROSPECTIVE OWNERS.
 2.3. NO DEMOLITION DEBRIS WILL BE STOCKPILED OR GATHERED ON THE PROJECT SITE OR ADJACENT PROPERTIES WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE LANDSCAPE ARCHITECT.
3. MATERIALS
 3.1. MATERIALS LISTED UNDER THIS SECTION ARE EXPRESSLY SPECIFIED FOR USE BUT DOES NOT PROHIBIT OR RESTRICT THE CONTRACTOR FROM PROVIDING OTHER APPROVED MATERIALS NOT LISTED IN ORDER TO COMPLETE THE WORK REQUIRED HEREIN. ALL MATERIALS SHALL BE NEW AND IN PERFECT CONDITION.
 3.2. IRRIGATION SYSTEM MATERIALS: ALL PARTS, PIECES, COMPONENTS AND PRODUCTS SHALL BE OF NEW, UNUSED, PERFECT CONDITION.
  3.2.1. THE IRRIGATION SYSTEM COMPONENTS SHALL COMPLY WITH THOSE FOUND ON PERMIT DOCUMENT'S IRRIGATION PLAN(S) UNLESS OTHERWISE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
 3.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER, UNLESS OTHERWISE NOTED, AS SET FORTH IN THE CURRENT EDITION OF THE 'GRADES AND STANDARDS FOR NURSERY PLANTS,' STATE OF FLORIDA.
 3.4. PRE-EMERGENCE WEED CONTROL: CONTRACTOR OPTION (GRANULAR)
 3.5. POST-EMERGENCE WEED CONTROL: CONTRACTOR OPTION
 3.6. HERBICIDE: CONTRACTOR OPTION.
 3.7. INSECTICIDE: CONTRACTOR OPTION.
 3.8. FUNGICIDE: CONTRACTOR OPTION.
 3.9. SHRUB BED FERTILIZER: AGRIFORM TABLETS PER MANUFACTURER'S RECOMMENDED RATES FOR EACH PLANT USED.
 3.10. LAWN FERTILIZER: N/A
 3.11. TREE FERTILIZER: AGRIFORM (OR APPROVED EQUAL) 21 GRAM TABLETS. APPLIED PER MANUFACTURER SPECIFICATIONS.
 3.12. MULCH: NATURAL PINE STRAW - 3" MINIMUM DEPTH.
 3.13. TREE STAKES AND GUYS: ARBORTIE HD-15 OR APPROVED EQUAL APPROVED IN FDOT STANDARD PLANS (LATEST EDITION).
4. LANDSCAPE GENERAL NOTES
 4.1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND WRITTEN NOTES. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT, JERRY PATE DESIGN.
 4.2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS.
 4.3. LANDSCAPE MATERIALS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR REMAINING UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDER DRAINS, DITCH BLOCKS, STORM WATER FACILITIES AND DRAINAGE DISCHARGE PATHS, EXISTING SIGNAGE, AND EXISTING LIGHTING AND THEIR APPURTENANCES. THE CONTRACTOR SHALL NOT INSTALL THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK ADJUSTED THAT HAS NOT BEEN APPROVED PREVIOUSLY BY THE LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S EXPENSE.
 4.4. LANDSCAPE IMPROVEMENTS SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE MOST CURRENT "FDOT DESIGN MANUAL - CHAPTER 329 LANDSCAPE PLANS".
 4.5. PLANT QUANTITIES SHOWN ON THE LANDSCAPE PLAN ARE MINIMUM ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTRACTOR'S OWN QUANTITY TAKE-OFF AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL THE PLANTING BEDS TO MEET DESIGN INTENT.
 4.6. PROTECTION OF EXISTING TREES TO REMAIN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT "FDOT DESIGN MANUAL - CHAPTER 329 LANDSCAPE PLANS" AND ALL OTHER PLANTING SPECIFICATIONS INCLUDED IN THE PERMIT DOCUMENTS.
 4.7. THE CONTRACTOR SHALL ENSURE, PRIOR TO MOVING ON SITE, ALL EQUIPMENT WHICH LAST OPERATED IN PLACES KNOW TO BE INFESTED WITH NOXIOUS WEEDS IS FREE OF SOIL, SEEDS, VEGETATIVE MATTER, OR OTHER DEBRIS THAT COULD CONTAIN OR HOLD SEEDS.
 4.8. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE JOB SITE. IF ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL IS FOUND ON THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
 4.9. ANY PUBLIC LAND SURVEY SYSTEM CORNER OR ANY MONUMENT THAT PERPETUATES THE RIGHT-OF-WAY WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE LANDSCAPE ARCHITECT.
5. PLANTING BED PREPARATION
 5.1. ALL TRASH, ASPHALT, CONCRETE SIGNAGE, WEEDS AND OTHER SPOILAGE SHALL BE REMOVED FROM SITE PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
 5.2. ALL AREAS TO BE PLANTED OR SODDED SHALL BE GRADED TO SITE SPECIFICATIONS PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
 5.3. CONTRACTOR SHALL CONFIRM ALL PLANTING BEDS ARE NOT COMPACTED BEYOND 85 PERCENT TO ENSURE DRAINAGE. SHOULD COMPACTED SOILS EXIST, SOILS SHALL BE EXCAVATED AND REPLACED WITH WELL-DRAINING SOIL PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR. NO PARKING LOT SUB-BASE, ASPHALT MATERIAL OR CONCRETE SPOILS SHALL REMAIN IN PLANTING BEDS.
 5.4. ALL EXISTING VEGETATION SHALL BE REMOVED IN ALL PLANTING BED AREAS UNLESS OTHERWISE NOTED ON THE PLANS. HERBICIDE MANUFACTURER SPECIFICATIONS AND INSTRUCTIONS SHALL BE FOLLOWED AS TO TREATMENT DILUTION, MIX, APPLICATION, AND TIME PERIODS BETWEEN APPLICATIONS AS APPLICABLE TO ASSURE WEEDS ARE ELIMINATED FROM THE PLANTING BEDS PRIOR TO COMMENCING PLANTING. ALL PERSONNEL INVOLVED IN THE CHEMICAL PROGRAM ARE TO RECEIVE THE PROPER TRAINING AND LICENSURE, AND FOLLOW THE OPERATING GUIDELINES PROVIDED BY FDOT FOR CHEMICAL CONTROL. CONTACT THE ESCAMBIA COUNTY EXTENSION SERVICE FOR ADDITIONAL INFORMATION REGARDING HERBICIDES, PESTICIDES, AND REQUIRED LICENSES.
 5.5. ALL SOIL AMENDMENTS SHALL BE ADDED TO THE PLANTING BEDS AND INCORPORATED INTO THE SOIL PRIOR TO COMMENCING FINAL GRADING AND PLANTING. ALL BEDS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE WITH NO AREAS WHERE STANDING WATER COULD OCCUR.
 5.6. ALL PLANTING BED AREAS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE TO ENSURE THAT WEEDS WILL BE CONTROLLED.
6. PLANTING NOTES
 6.1. THE LANDSCAPE INSTALLATION MUST BE PROPERLY SEQUENCED WITH OTHER CONSTRUCTION SO THAT THE LANDSCAPE IS NOT DAMAGED BY OTHER WORK/TRADES AND VICE VERSA.
 6.2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF AND STAKE ALL UTILITIES PRIOR TO CONSTRUCTION. EXCAVATION OF PLANT PITS LOCATED WITHIN 5' OF UTILITIES SHALL BE PERFORMED BY HAND. ANY UTILITY AND PLANT MATERIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, OR FIELD ADJUSTMENTS.
 6.3. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SHOWN IN THE PERMIT DOCUMENTS. THE CONTRACTOR SHALL GUARANTEE PLANT HEALTH AND SURVIVABILITY FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE LANDSCAPE ARCHITECT. ANY MATERIAL NOT MEETING SPECIFICATIONS OR DISPLAYING POOR HEALTH SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITHIN TWO WEEKS OF NOTICE.
  6.3.1. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
  6.3.2. ALL PLANTS MUST BE BROUGHT TO THE SITE FREE OF WEEDS.
  6.3.3. ALL PLANT MATERIALS INDICATED WITH A GALLON SIZE SHALL BE CONTAINER GROWN AND WITHIN A CONTAINER APPROPRIATE FOR THE PLANT SIZE.
   6.3.3.1. ROOT BOUND PLANTS SHALL NOT BE ACCEPTED.
  6.3.4. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
 6.4. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE PLANTING BED FIELD CHANGES TO ACCOMMODATE SITE CONDITIONS AND TO ACHIEVE THE DESIGN INTENT. THE CONTRACTOR SHALL FLAG ALL TREE AND BED LINE LOCATIONS FOR APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
 6.5. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL APPROPRIATE SOIL AMENDMENTS AND A PROPERLY PREPARED FINISHED SOIL LAYER IN ACCORDANCE WITH CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION.
 6.6. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING VEGETATION INTENDED TO REMAIN THAT IS DISTURBED BY PLANT MATERIAL INSTALLATION ACTIVITIES. THIS REPAIR /REPLACEMENT SHALL BLEND SEAMLESSLY WITH THE EXISTING LANDSCAPE.
 6.7. ALL PLANT MATERIAL MUST BE PLANTED IMMEDIATELY UPON DELIVERY TO THE SITE AND WATERED IN, BY HAND IF THE IRRIGATION SYSTEM IS NOT YET FUNCTIONING PROPERLY. ANY PLANT MATERIAL NOT INSTALLED WITHIN 6 HOURS OF DELIVERY TO THE SITE MUST BE STORED IN AN APPROVED, PROTECTED HOLDING AREA AND SHALL BE WATERED AS NECESSARY TO MAINTAIN PLANT HEALTH AND QUALITY. ALL BLACK PLASTIC PLACED AROUND TREE ROOTBALLS SHALL BE REMOVED IMMEDIATELY UPON DELIVERY TO THE SITE.
  6.7.1. TREES NOT PLANTED WITHIN 6 HOURS OF DELIVERY TO THE SITE: WATER SHALL BE IMMEDIATELY APPLIED TO THE ROOTBALL AND FOLIAGE. THE TOPS SHALL BE UNTIED AND THE TREES STORED UPRIGHT WITH MULCH COVERING THE ROOTBALLS.
  6.7.2. TREES SHALL NOT BE STORED LYING DOWN.
  6.7.3. IF TREES HAVE PLASTIC TRUNK PROTECTORS, THE PROTECTORS MAY STAY IN PLACE PRIOR TO PLANTING BUT SHALL NOT BE LEFT ON INDEFINITELY.
 6.8. PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 3X DIAMETER OF ROOTBALL OR CONTAINER.
 6.9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING AND GRADES UNTIL FINAL ACCEPTANCE. THIS MAINTENANCE INCLUDES: KEEPING BEDS FREE OF DEBRIS, WEEDS, DISEASES, AND INFESTATIONS.
 6.10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT WATER TO THE PLANTS DURING THIS TIME AND REPAIRING ERODED AREAS WITHIN THE LANDSCAPE SCOPE.
 6.11. THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS AND LABOR BEGINNING UPON FINAL ACCEPTANCE OF THE PROJECT.
 6.12. A FINAL WALK-THROUGH SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.
7. UTILITY NOTES
 7.1. THE LOCATIONS OF THE UTILITIES SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY, AND INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
 7.2. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TWO BUSINESS DAYS PRIOR TO DEMOLITION AND/OR EXCAVATION. CALL "SUNSHINE STATE ONE CALL SYSTEM" (OR 811) SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.
 7.3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES DURING CONSTRUCTION.
 7.4. NO UTILITY IS TO BE RELOCATED.
 7.5. PLANTING SHALL BE ADJUSTED HORIZONTALLY, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, TO ADDRESS ANY UTILITY CONFLICTS.
8. SUBMITTALS REQUIRED
 8.1. SUBMITTALS REQUIRED SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW.
 8.2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW THE HARDSCAPE LAYOUT PRIOR TO INSTALLATION.
 8.3. PLANT MATERIAL
  8.3.1. THE CONTRACTOR SHALL PROVIDE THE LANDSCAPE ARCHITECT WITH REPRESENTATIVE PLANT PHOTOS TO APPROVE FOR ALL PLANT MATERIALS PRIOR TO ANY PLANT DELIVERY. MEASURING STICKS SHALL BE SHOWN IN PHOTOS, AS APPROPRIATE.
  8.3.2. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO COMPLETION TO SCHEDULE A FINAL WALK-THROUGH.
  8.3.3. ALL CERTIFICATIONS & LITERATURE ASSOCIATED WITH SIZE, HEALTH AND BRAND.
  8.3.4. NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO PLANT DELIVERY TO SCHEDULE ON-SITE INSPECTION UPON DELIVERY.
   8.3.4.1. A FINAL WALK-THROUGH SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.
 8.4. THE CONTRACTOR SHALL CONDUCT REPRESENTATIVE SOIL ANALYSIS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
  8.4.1. SUBMIT ALL SOIL SAMPLES AND AMENDMENT RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW.
  8.4.2. THE SOIL SAMPLE TEST RESULTS SHALL INCLUDE, AT A MINIMUM, PH, PRIMARY MACRONUTRIENTS, MICRONUTRIENTS, PERCENTAGE OF ORGANIC MATTER, AND SOIL TEXTURE.
  8.4.3. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY IMPROPER SOIL CONDITION INCLUDING NUTRITIONAL DEFICIENCIES, WETNESS, MUCK, DEBRIS, ETC. AND SHALL RECOMMEND TO THE LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION, ALL SOIL AMENDMENTS THAT MAY BE NECESSARY TO PROMOTE HEALTHY VIGOROUS PLANT GROWTH.

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
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DESIGNED BY:	EZ

PROJECT NUMBER:

201-0052-002

SHEET TITLE

LANDSCAPE DETAILS

SHEET NUMBER

L201

BID DOCUMENTS

Sheet Size: ARCH E 30x42

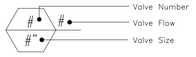
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
△ 25 ▣ 50 △ 10 □ 20	Toro FB-XX-PC, Or Approved Eq. Pressure-Compensating Flood Bubbler. 0.25GPM, 0.5GPM, 1.0GPM, and 2.0GPM.	17	30	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
▪	Toro DZK-EZF-1-MF, Or Approved Eq. 1" Medium Flow Drip Control Valve Kit. With 1" Valve, Y-Filter, and Medium-Flow Pressure Regulator and Fittings. 5gpm-20gpm.	1
(F)	Toro T-FCH-H-FIPT, Or Approved Eq. Flush Valve, plumbed to flush manifold at low point.	1
(A)	Toro T-YD-500-34, Or Approved Eq. 1/2" Air Vent- MIPT Air Release and Vacuum Relief Valve	1
	Area to Receive Drip Emitters Toro T-DPC-DC, Or Approved Eq. Single Outlet Emitter. Self-Flushing, Pressure Compensating, with Color-Coded Dust Cap. 0.5GPH=Blue; 1.0GPH=Black; 2.0GPH=Red.	4,769 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
◕	Toro P220-27-9 GLOBE, Or Approved Eq. 1" Electric, 1", 1-1/2", 2" and 3" Plastic In-Line Remote Control Valve. Equipped to withstand pressure up to 220 PSI. Filter screen on 2" and 3" models. DC Latching Solenoid. Globe Body Style. With Pressure Regulator.	1
C	Toro EVO-04OD-SC, Or Approved Eq. 4 Station Outdoor Controller. With Smart Connect so Controller can communicate wirelessly with a number of add-on devices. Ideal for residential and light-commercial applications.	1
(R)	Toro TWRFS (!!!), Or Approved Eq. Wireless Rain/Freeze Sensor Transmitter and Receiver. Mount Sensor Transmitter as noted or approved, mount Sensor Receiver next to Irrigation Controller as noted or approved, use controller power or optional transformer. Adjustable rain shut-off point.	1
P.O.C	Point of Connection 1" Point of Connection, See Civil	1
———	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	1,109 l.f.
— — — —	Irrigation Mainline: PVC Class 200 SDR 21 1"	16.5 l.f.
= = = = =	Pipe Sleeve: PVC Schedule 40	65.4 l.f.

Valve Callout



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Toro DZK-EZF-1-MF, Or Approved Eq.	1"	Area for Drip Emitters	9.95	38.30	38.46	0.25 in/h
2	Toro P220-27-9 GLOBE, Or Approved Eq.	1"	Bubbler	7.65	35.72	35.87	1.54 in/h

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Toro DZK-EZF-1-MF, Or Approved Eq.	Area for Drip Emitters	0.25 in/h	1	240	2,387	341.1
2	Toro P220-27-9 GLOBE, Or Approved Eq.	Bubbler	1.54 in/h	2	78	596.7	85.2
		TOTALS:			318	2,984	426.3

Drip Emitter Chart

Plant Material

Botonical	Common	Emitter Size (gph)
Azalea Encore 'Autumn Coral'	Autumn Coral Azalea	1.0
Daniellia tasmanica 'Variegata'	Variegated Flax Lily	0.5
Ilex vomitoria 'Nana'	Dwarf Yaupon	0.5
Muhlenbergia capillaris	Pink Muhly	1.0
Podocarpus macrophyllus maki	Shrubby Yew	1.0
Tripsacum dactyloides nana	Dwarf Fakahatchee Grass	1.0

NOTE:
CONTRACTOR IS RESPONSIBLE TO IRRIGATE BAHIA GRASS AREA TEMPORARILY FOR THE ESTABLISHMENT PERIOD.

GRAPHIC SCALE
20' 0 10' 20'
1 INCH = 20 FT.

NORTH

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DESIGNED BY:	EZ

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SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

LI101

BID DOCUMENTS

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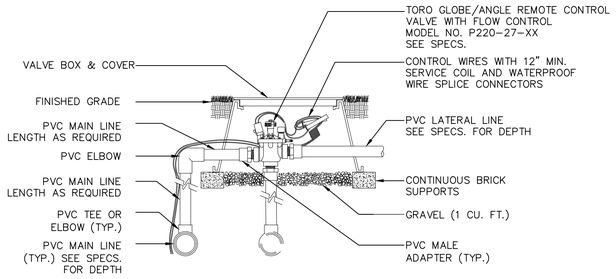
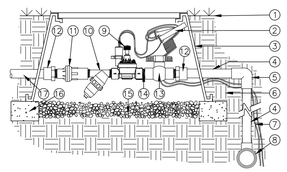


SECTION/ELEVATION

NOTES:
1. INSTALL SPRINKLER AT FINISHED GRADE.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



ELEVATION/SECTION
MIN. FLOW RATE - 2.0 GPM
MAX. FLOW RATE - 20.0 GPM

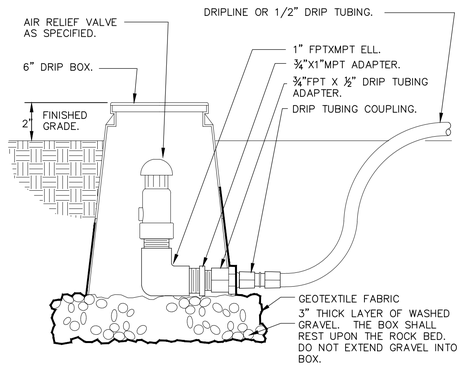
LEGEND:

1. FINISH GRADE.
2. CONTROL WIRES WITH 36" SERVICE COIL AND WATER PROOF WIRE CONNECTIONS, DBY OR EQUAL.
3. RECTANGULAR PLASTIC VALVE BOX. HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS.
4. PVC MAINLINE PER SPECIFICATIONS (LENGTH AS REQUIRED).
5. SCH 40 PVC ELL (SxS).
6. NATIVE SOIL PER SPECIFICATIONS.
7. CONTROL WIRES TO CONTROLLER.
8. PVC MAINLINE FITTING.
9. TORO TPVF100 INLINE VALVE (*).
10. TORO 150 MESH Y-FILTER (*).
11. TORO 25 PSI LOW FLOW PRESSURE REGULATOR (*).
12. SCH 40 PVC MALE ADAPTER.
13. SCH 40 PVC BALL VALVE (*).
14. SCH 80 PVC CLOSE NIPPLE (*).
15. PEA GRAVEL SUMP, MINIMUM 6" DEEP.
16. BRICK SUPPORTS (4 COMMON BRICKS REQUIRED).
17. LATERAL LINE TO DRIP SYSTEM.

(*) PARTS IN DRIP ZONE KIT.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.

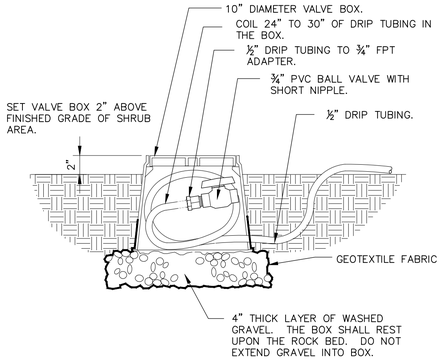
DZK-TPV-1-MF



NOTES:
1. INSTALL MIN. (1) AIR RELIEF VALVE PER ZONE.

1 I201 TORO P-220 SERIES VALVE - PRESSURE REG.

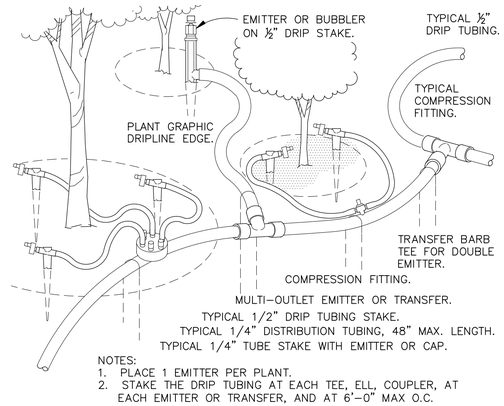
NTS



NOTES:
1. INSTALL (1) FLUSH VALVE AT THE END OF EACH 3/4" TUBING RUN.
2. ENSURE THAT THE COILED DRIP TUBING IS OF SUFFICIENT LENGTH TO COMPLETELY EXTEND 3' OUT OF THE VALVE BOX WHEN FLUSHING.

2 I201 TORO DRIP KIT - DZK-TPV-1MF

NTS



NOTES:
1. PLACE 1 EMITTER PER PLANT.
2. STAKE THE DRIP TUBING AT EACH TEE, ELL, COUPLER, AT EACH EMITTER OR TRANSFER, AND AT 6'-0" MAX O.C.

3 I201 DRIP AIR RELIEF VALVE-IN 6" ROUND BOX

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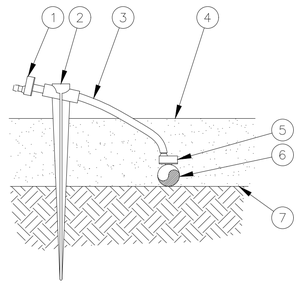
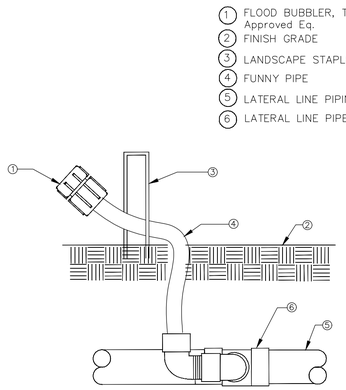


1. SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER AS SPECIFIED
2. UNIVERSAL ¼" TUBING STAKE: AS SPECIFIED.
3. ¼" DISTRIBUTION TUBING: AS SPECIFIED (LENGTH AS REQUIRED)
4. TOP OF MULCH
5. ¼" SELF-PIERCING BARB CONNECTOR: AS SPECIFIED
6. ½" POLYETHYLENE TUBING: AS SPECIFIED
7. FINISH GRADE

4 I201 DRIP FLUSH-BALL VALVE ASSEMBLY

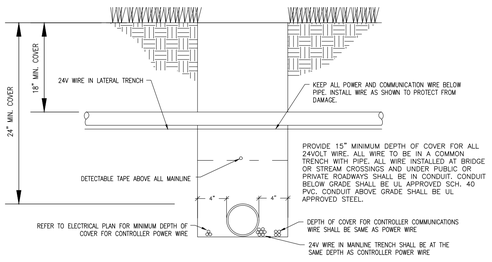
NTS



1. FLOOD BUBBLER, TORO FB-XX-PC, Or Approved Eq.
2. FINISH GRADE
3. LANDSCAPE STAPLE
4. FUNNY PIPE
5. LATERAL LINE PIPING
6. LATERAL LINE PIPE FITTING

5 I201 TYPICAL DRIP TUBING

NTS



6 I201 TORO T-DPC-DC DRIP EMITTER

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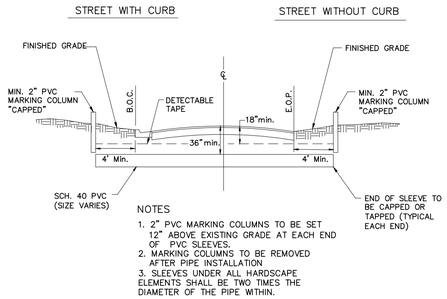

NOTES
1. 2" PVC MARKING COLUMNS TO BE SET 12" ABOVE EXISTING GRADE AT EACH END OF PVC SLEEVES.
2. MARKING COLUMNS TO BE REMOVED AFTER PIPE INSTALLATION
3. SLEEVES UNDER ALL HARDSCAPE ELEMENTS SHALL BE TWO TIMES THE DIAMETER OF THE PIPE WITHIN.

7 I201 FLOOD BUBBLER TORO FB-XX-PC

NTS

8 I201 MAINLINE & TRENCHES

NTS

9 I201 IRRIGATION SLEEVE

NTS

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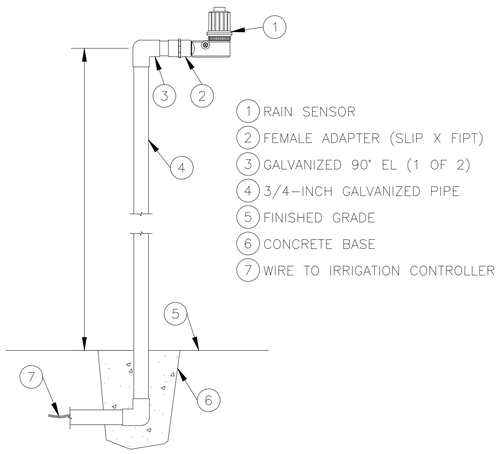


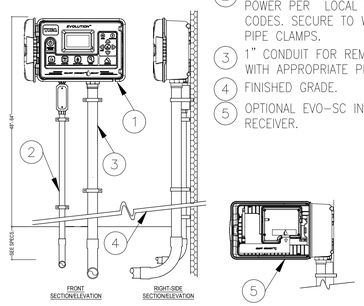
1 RAIN SENSOR
2 FEMALE ADAPTER (SLIP X FIPT)
3 GALVANIZED 90° EL (1 OF 2)
4 3/4–INCH GALVANIZED PIPE
5 FINISHED GRADE
6 CONCRETE BASE
7 WIRE TO IRRIGATION CONTROLLER

1 / I202 TORO RAIN SENSOR T-YD-500

NTS DETAIL–FILE

LEGEND:

1. EVOLUTION OUTDOOR TORO CONTROLLER MODEL NO. EVO–40D. SEE IRRIGATION LEGEND FOR NUMBER OF STATIONS. SECURE TO WALL WITH APPROPRIATE FASTENERS.
2. 1/2" CONDULET AND CONDUIT FOR ELECTRICAL POWER PER LOCAL AND NATIONAL ELECTRICAL CODES. SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS.
3. 1" CONDUIT FOR REMOTE CONTROL WIRES. SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS.
4. FINISHED GRADE.
5. OPTIONAL EVO–SC INTERNAL SMART CONNECT RECEIVER.



2 / I202 TORO ECO-40D EVOLUTION SERIES - OUTDOOR MODEL

NTS DETAIL–FILE

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SD
DRAWN BY:	EZ
DESIGNED BY:	EZ

PROJECT NUMBER:

201-0052-002

SHEET TITLE

IRRIGATION DETAILS

SHEET NUMBER

LI202

BID DOCUMENTS

1. DEFINITIONS
1.1. LATERAL PIPING: DOWNSTREAM FROM CONTROL VALVES TO SPRINKLERS, SPECIALTIES, AND DRAIN VALVES. PIPING IS UNDER PRESSURE DURING FLOW.
1.2. MAINLINE PIPING: DOWNSTREAM FROM POINT OF CONNECTION TO WATER DISTRIBUTION PIPING TO, AND INCLUDING, CONTROL VALVES. PIPING IS UNDER WATER-DISTRIBUTION-SYSTEM PRESSURE.
1.3. LOW VOLTAGE: AS DEFINED IN NFPA 70 FOR CIRCUITS AND EQUIPMENT OPERATING AT LESS THAN 50 V OR FOR REMOTE-CONTROL, SIGNALING POWER-LIMITED CIRCUITS.
2. GENERAL
2.1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, AND OTHER UNDERGROUND LINES BEFORE LANDSCAPE AND IRRIGATION INSTALLATION.
2.2. INSTALL AN AUTOMATIC IRRIGATION SYSTEM TO ENSURE 100% COVERAGE OF ALL PLANTED AND GRASSED AREAS. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER SHOWING ALL INFORMATION REQUIRED BY LOCAL CODES AND NECESSARY FOR THE EFFICIENT OPERATION AND MAINTENANCE OF THE SYSTEM.
2.3. ELEMENT LOCATION ON THE DRAWINGS IS SCHEMATIC SHOWING INTENT. CONTRACTOR SHALL NOT MAKE CHANGES TO PIPE SIZING OR ROUTING WITHOUT PRIOR APPROVAL OF OWNER & IRRIGATION DESIGNER.
2.4. THE CONTROLLER SHALL BE EXISTING WITH PROPERLY LOCATED AND INSTALLED RAIN I FREEZE I WIND SHUTOFF SENSORS. THE SENSORS SHALL BE LOCATED IN SUCH A MANNER SO THAT THEY ARE UNOBSTRUCTED, AND DIRECTLY EXPOSED TO NATURAL RAINFALL, WIND, AND SUNLIGHT FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM SWALES OR OTHER SURFACES.
2.5. THE LANDSCAPE BID SHALL BE FOR THE IRRIGATION MATERIALS SPECIFIED. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AND OWNER'S APPROVAL GIVEN IN WRITING BEFORE THE SUBSTITUTION IS ALLOWED. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL INCLUDE COMPLETE PRODUCT SPECIFICATIONS AND ANY COST SAVINGS TO THE PROJECT.
2.6. IF DISCREPANCIES OCCUR BETWEEN THE PLANS, NOTES, AND ACTUAL CONDITIONS CONTACT THE LANDSCAPE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
2.7. THE INSTALLER SHALL BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE, AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.
2.8. IRRIGATION MATERIALS AND WORKMANSHIP SHALL BE WARRANTIED FOR ONE YEAR. MANUFACTURER'S WARRANTIES SHALL BE PASSED TO THE OWNER.
2.9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS, AND ESCAMBIA COUNTY IRRIGATION STANDARDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND CONFORM TO THE PARTICULAR CODES AND REGULATIONS APPLICABLE TO THIS LOCATION, AS WELL AS ESCAMBIA COUNTY IRRIGATION STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING THOSE FOR ANY NEW WATER LINE TAPS OR WELLS, LOCATES, AND INSPECTIONS.
2.10. IRRIGATION SYSTEM AND ITS COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURES' SPECIFICATIONS
2.11. IRRIGATION SCHEDULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN TAKE OFF BASED ON PLAN DOCUMENTS & ENSURING UNIFORM COVERAGE OF LANDSCAPED AREAS.
2.12. NO SITE WORK ACTIVITIES SHALL TAKE PLACE WITHOUT CITY SITE REVIEW/APPROVAL OF PROPOSED EROSION CONTROL MEASURES AND ADVANCED NOTIFICATION OF THE REQUESTED INSPECTION IS REQUIRED.
2.13. PUBLIC WORKS STAFF SHALL BE NOTIFIED PRIOR TO PERFORMING ANY WORK IN THE CITY RIGHT OF WAY.
2.14. ALL PROPOSED DEPTH OF IRRIGATION MAINLINE PIPE SHALL BE MIN. 18" DEPTH OF COVER.
2.15. ALL PROPOSED DEPTH OF IRRIGATION LATERAL CIRCUITING PIPE SHALL BE MIN. 18" DEPTH OF COVER.
3. ACTION SUBMITTALS
3.1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES.
3.2. WIRING DIAGRAMS: FOR POWER, SIGNAL, AND CONTROL WIRING.
4. INFORMATIONAL SUBMITTALS
4.1. QUALIFICATION DATA: FOR QUALIFIED INSTALLER.
4.2. FIELD QUALITY-CONTROL REPORTS.
5. CLOSEOUT SUBMITTALS
5.1. OPERATION AND MAINTENANCE DATA: FOR DRIP EMITTERS, CONTROLLER, AND AUTOMATIC CONTROL VALVES, RAIN SENSOR, ETC. TO INCLUDE IN OPERATION AND MAINTENANCE MANUALS.
6. QUALITY ASSURANCE
6.1. INSTALLER QUALIFICATIONS: COMPANY MUST HAVE THREE YEARS OF EXPERIENCE INSTALLING IRRIGATION SYSTEMS OF SIMILAR SIZE AND COMPLEXITY. COMPANY MUST HAVE QUALIFIED SUPERINTENDENT ON-SITE AT ALL TIMES WHO HAS MINIMUM THREE YEARS' EXPERIENCE INSTALLING IRRIGATION SYSTEMS OF SIMILAR SIZE AND COMPLEXITY.
6.2. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
7. DELIVERY, STORAGE, AND HANDLING
7.1. STORE PLASTIC PIPING PROTECTED FROM DIRECT SUNLIGHT. SUPPORT TO PREVENT SAGGING AND BENDING.
7.2. CONTRACTOR IS RESPONSIBLE FOR STORAGE AND SECURITY OF ALL MATERIALS STORED ON SITE.
8. PROJECT CONDITIONS
8.1. INTERRUPTION OF EXISTING WATER SERVICE: DO NOT INTERRUPT WATER SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY WATER SERVICE ACCORDING TO REQUIREMENTS INDICATED:
8.1.1. NOTIFY OWNER NO FEWER THAN FIVE DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF WATER SERVICE.
8.1.2. DO NOT PROCEED WITH INTERRUPTION OF WATER SERVICE WITHOUT OWNER'S WRITTEN PERMISSION.
9. PRODUCTS
9.1. PIPES, TUBES, AND FITTINGS
9.1.1. PVC LATERAL PIPE 1", PRESSURE RATED: ASTM D 2241, PVC 1120 COMPOUND, SDR 21 CLASS 200, SOLVENT WELD.
9.1.2. PVC SOCKET FITTINGS: ASTM D 2467, SCHEDULE 80. NO THREADED FITTINGS ALLOWED EXCEPT AS NOTED ON THE PLAN DOCUMENTS.
9.1.3. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH SOCKET ENDS.
9.1.4. PVC MAINLINE PIPE 1", PRESSURE RATED: ASTM D 2241, PVC 1120 COMPOUND, SDR 21 CLASS 200, GASKETED ENDS.
9.1.5. PVC SOCKET FITTINGS: ASTM D 2467, SCHEDULE 80. FITTINGS FOR MAINLINE PIPE MUST BE GASKETED AND THRUST BLOCKED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
9.1.6. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH GASKETED ENDS.
9.2. PIPING JOINING MATERIALS
9.2.1. SOLVENT CEMENTS FOR JOINING PVC LATERAL PIPING 1": ASTM D 2564. INCLUDE PRIMER ACCORDING TO ASTM F 656.
9.3. AIR RELIEF VALVES
9.3.1. AIR RELIEF VALVE SIZED TO MATCH MAINLINE PIPING WHERE LOCATED.
9.4. TRANSITION FITTINGS
9.4.1. GENERAL REQUIREMENTS: SAME SIZE AS, AND WITH PRESSURE RATING AT LEAST EQUAL TO AND WITH ENDS COMPATIBLE WITH, PIPING TO BE JOINED.
9.5. CONTROLLERS
9.5.1. CONTROLLER TO BE MOUNTED ON ELECTRICAL RACK PER ELECTRICAL SPECIFICATIONS LOCATED NEAR THE GROUNDWATER SUPPLY WELL.
9.6. BOXES FOR AUTOMATIC CONTROL VALVES
9.6.1. PLASTIC BOXES:
9.6.1.1. DESCRIPTION: BOX AND COVER, WITH OPEN BOTTOM AND OPENINGS FOR PIPING; DESIGNED FOR INSTALLING FLUSH WITH GRADE.
9.6.1.2. AS REQUIRED FOR VALVES AND SERVICE.
9.6.1.3. AS REQUIRED FOR VALVES AND SERVICE.
9.6.1.4. SIDEWALL MATERIAL: PE.
9.6.1.5. COVER MATERIAL: PE.
10. EXECUTION
10.1. EARTHWORK
10.1.1. EXCAVATING, TRENCHING, AND BACKFILLING ARE SPECIFIED IN SECTION 312000 "EARTH MOVING."
10.1.2. PROVIDE MINIMUM COVER OVER TOP OF UNDERGROUND PIPING ACCORDING TO THE FOLLOWING:
10.1.2.1. IRRIGATION MAINLINE PIPING: TOP OF PIPE MINIMUM DEPTH OF 24 INCHES (900 MM) BELOW FINISHED GRADE, OR NOT LESS THAN 18 INCHES (450 MM) BELOW AVERAGE LOCAL FROST DEPTH, WHICHEVER IS DEEPER.
10.1.2.2. LATERAL PIPING: 18 INCHES (300 MM) TO TOP OF PIPE. PIPE CAN BE SHALLOWER SLIGHTLY AT VALVE LOCATION AS NEEDED.
10.1.2.3. DRAIN PIPING: 12 INCHES (300 MM).
10.1.2.4. SLEEVES: 36 INCHES (600 MM) TO TOP OF SLEEVE BELOW CROWN OF ROAD CROSSING.
10.2. PREPARATION
10.2.1. SET STAKES TO IDENTIFY LOCATIONS OF PROPOSED IRRIGATION SYSTEM. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL BEFORE EXCAVATION.
10.3. PIPING INSTALLATION
10.3.1. LOCATION AND ARRANGEMENT: DRAWINGS INDICATE SCHEMATIC LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. PIPING SHALL BE LOCATED WITHIN BEDS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS ARE APPROVED ON COORDINATION DRAWINGS.
10.3.2. INSTALL ALL PIPING AND FITTINGS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
10.3.3. INSTALL PIPING AT MINIMUM UNIFORM SLOPE OF 0.5 PERCENT DOWN TOWARD DRAIN VALVES.
10.3.4. INSTALL PIPING FREE OF SAGS AND BENDS.
10.3.5. INSTALL GROUPS OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT VALVE SERVICING.
10.3.6. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. THRUST BLOCK OR JOINT RESTRAINTS AS REQUIRED.
10.3.7. INSTALL UNIONS ADJACENT TO VALVES AND TO FINAL CONNECTIONS TO OTHER COMPONENTS WITH NPS 2½ (DN 50) OR SMALLER PIPE CONNECTION.
10.3.8. INSTALL FLANGES ADJACENT TO ISOLATION GATE VALVES WITH NPS 3 (DN 65) OR LARGER PIPE CONNECTION.
10.3.9. LAY PIPING ON SOLID SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS OR DEPRESSIONS.
10.3.10. INSTALL DUCTILE-IRON PIPING ACCORDING TO AWWA C600.
10.3.11. INSTALL PVC PIPING IN DRY WEATHER WHEN TEMPERATURE IS ABOVE 40 DEG F (5 DEG C). ALLOW JOINTS TO CURE AT LEAST 24 HOURS AT TEMPERATURES ABOVE 40 DEG F (5 DEG C) BEFORE TESTING.
10.3.12. INSTALL PIPING IN SLEEVES UNDER PARKING LOTS, ROADWAYS, AND SIDEWALKS.
10.3.13. INSTALL SLEEVES MADE OF SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
10.4. JOINT CONSTRUCTION
10.0.1. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS.
10.0.2. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.
10.0.3. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS:
10.0.3.1. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED.
10.0.3.2. DAMAGED THREADS: DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS THAT HAVE CRACKED OR OPEN WELDS.
10.0.4. FLANGED JOINTS: SELECT RUBBER GASKET MATERIAL, SIZE, TYPE, AND THICKNESS FOR SERVICE APPLICATION. INSTALL GASKET CONCENTRICALLY POSITIONED. USE SUITABLE LUBRICANTS ON BOLT THREADS.
10.0.5. PVC PIPING SOLVENT-CEMENTED JOINTS: CLEAN AND DRY JOINING SURFACES. JOIN PIPE AND FITTINGS ACCORDING TO THE FOLLOWING:
10.0.5.1. COMPLY WITH ASTM F 402 FOR SAFE-HANDLING PRACTICE OF CLEANERS, PRIMERS, AND SOLVENT CEMENTS.
10.0.5.2. PVC PRESSURE PIPING: JOIN SCHEDULE NUMBER, ASTM D 1785, PVC PIPE AND PVC SOCKET FITTINGS ACCORDING TO ASTM D 2672. JOIN OTHER-THAN-SCHEDULE-NUMBER PVC PIPE AND SOCKET FITTINGS ACCORDING TO ASTM D 2855.
10.0.5.3. PVC NON-PRESSURE PIPING: JOIN ACCORDING TO ASTM D 2855.
10.1. VALVE INSTALLATION
10.1.1. UNDERGROUND IRON GATE VALVES, RESILIENT SEAT: COMPLY WITH AWWA C600 AND AWWA M44. INSTALL IN VALVE CASING WITH TOP FLUSH WITH GRADE.
10.1.1.1. INSTALL VALVES AND PVC PIPE WITH RESTRAINED, GASKETED JOINTS.
10.1.2. PRESSURE-REDUCING VALVES: INSTALL IN BOXES FOR AUTOMATIC CONTROL VALVES.
10.2. SPRINKLER INSTALLATION
10.2.1. INSTALL SPRINKLERS AFTER HYDROSTATIC TEST IS COMPLETED.
10.2.2. INSTALL SPRINKLERS AT MANUFACTURER'S RECOMMENDED HEIGHTS.
10.2.3. LOCATE PART-CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 12 INCHES (100 MM) FROM WALLS AND 6 INCHES (50 MM) FROM CURBS AND SIDEWALKS UNLESS OTHERWISE INDICATED.
10.3. AUTOMATIC IRRIGATION-CONTROL SYSTEM INSTALLATION
10.3.1. EQUIPMENT MOUNTING: INSTALL EXTERIOR WALL-MOUNTED DEVICES ON RACKING IN SPECIFIC LOCATION APPROVED BY OWNER AND LANDSCAPE ARCHITECT.
10.3.1.1. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
10.3.1.2. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.
10.3.1.3. ALL WIRING EXTENDING ABOVE GRADE TO CONTROLLER SHALL BE IN CONDUIT AND SECURELY NEATLY TO WALL.
10.3.2. PROVIDE CONDUCTORS OF SIZE NOT SMALLER THAN RECOMMENDED BY CONTROLLER MANUFACTURER.
10.4. CONNECTIONS
10.4.1. INSTALL PIPING ADJACENT TO EQUIPMENT, VALVES, AND DEVICES TO ALLOW SERVICE AND MAINTENANCE.
10.4.2. CONNECT WIRING BETWEEN CONTROLLERS AND AUTOMATIC CONTROL VALVES USING DBY'S OR DBR'S.
10.5. FIELD QUALITY CONTROL
10.5.1. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.
10.5.2. PERFORM TESTS AND INSPECTIONS.
10.5.2.1. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS, AND TO ASSIST IN TESTING.
10.5.3. TESTS AND INSPECTIONS:
10.5.3.1. LEAK/PRESSURE TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
10.5.3.2. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, OPERATE CONTROLLERS AND AUTOMATIC CONTROL VALVES TO CONFIRM PROPER SYSTEM OPERATION.
10.5.3.3. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
10.5.4. ANY IRRIGATION PRODUCT WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
10.5.5. PREPARE TEST AND INSPECTION REPORTS.
10.6. STARTUP SERVICE
10.6.1. PERFORM STARTUP SERVICE.
10.6.1.1. COMPLETE INSTALLATION AND STARTUP CHECKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
10.6.1.2. VERIFY THAT CONTROLLERS ARE INSTALLED AND CONNECTED ACCORDING TO THE CONTRACT DOCUMENTS.
10.6.1.3. VERIFY THAT ELECTRICAL WIRING INSTALLATION COMPLIES WITH MANUFACTURER'S SUBMITTAL.
10.7. ADJUSTING
10.7.1. ADJUST SETTINGS OF CONTROLLERS.
10.7.2. ADJUST AUTOMATIC CONTROL VALVES TO PROVIDE FLOW RATE AT RATED OPERATING PRESSURE REQUIRED FOR EACH SPRINKLER CIRCUIT.
10.7.3. ADJUST SPRINKLERS AND DEVICES, EXCEPT THOSE INTENDED TO BE MOUNTED ABOVEGROUND, SO THEY WILL BE FLUSH WITH, OR NOT MORE THAN 1/2 INCH (13 MM) ABOVE, FINISH GRADE.
10.8. CLEANING
10.8.1. FLUSH DIRT AND DEBRIS FROM PIPING BEFORE INSTALLING SPRINKLERS AND OTHER DEVICES.
10.9. DEMONSTRATION
10.9.1. TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN AUTOMATIC CONTROL VALVES AND CONTROLLERS.
10.10. PIPING SCHEDULE
10.10.1. INSTALL COMPONENTS HAVING PRESSURE RATING EQUAL TO OR GREATER THAN SYSTEM OPERATING PRESSURE.
10.10.2. PIPING IN CONTROL-VALVE BOXES AND ABOVEGROUND MAY BE JOINED WITH FLANGES OR UNIONS INSTEAD OF JOINTS INDICATED.
10.10.3. UNDERGROUND IRRIGATION MAINLINE PIPING SHALL BE FOLLOWING:
10.10.3.1. SDR 21, PVC, PRESSURE-RATED PIPE CLASS 200; PVC SOCKET FITTINGS; AND GASKETED JOINTS.
10.10.4. LATERAL PIPING SHALL BE THE FOLLOWING:
10.10.4.1. SDR 21, PVC, PRESSURE-RATED PIPE CLASS 200, PVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
10.11. VALVE SCHEDULE
10.11.1. AS INDICATED ON PLAN DOCUMENTS.

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PROFESSIONAL SEAL

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REVISIONS

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SHEET TITLE

IRRIGATION SPECIFICATION

SHEET NUMBER

LI203

BID DOCUMENTS

Sheet Size: ARCH E 22X34

DESIGN CRITERIA:

DESIGN PER THE *FLORIDA BUILDING CODE, BUILDING, 6TH EDITION* (2017)

1. DEAD LOADS
   - TYPICAL _____ SELFWEIGHT
   - ROOF _____ SELFWEIGHT + 5 PSF + 10 PSF COLLATERAL
2. LIVE LOADS (PER ASCE 7-10):
   - TYPICAL SLAB _____ 100 PSF
   - MECHANICAL AND LIGHT STORAGE SLAB _____ 125 PSF
   - ROOF _____ 20 PSF
3. WIND LOADS (PER ASCE 7-10):
   - ULTIMATE DESIGN WIND SPEED, V_{ult} _____ 150 MPH
   - NOMINAL DESIGN WIND SPEED, V_{asd} _____ 117 MPH
   - RISK CATEGORY _____ II
   - WIND EXPOSURE CATEGORY _____ C
   - INTERNAL PRESSURE COEFFICIENT, GC_{pi} _____ ± 0.18
   - COMPONENTS AND CLADDING WIND PRESSURES _____ SEE 1/S001
4. EARTHQUAKE DESIGN DATA - BUILDING (PER ASCE 7-10):
   - SEISMIC IMPORTANCE FACTOR _____ I_e = 1.0
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS _____ S_S = 0.091
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS _____ S_1 = 0.054
   - SPECTRAL RESPONSE COEFFICIENT _____ S_{DS} = 0.097
   - SPECTRAL RESPONSE COEFFICIENT _____ S_{D1} = 0.086
   - SITE CLASS _____ D
   - SEISMIC DESIGN CATEGORY _____ B
   - BASIC SEISMIC FORCE RESISTING SYSTEM _____ STEEL NOT SPECIALLY DETAILED FOR SEISMIC RESISTANCE
   - RESPONSE MODIFICATION COEFFICIENT _____ R = 3
   - DESIGN BASE SHEAR _____ V = 1.72 KIP
   - SEISMIC RESPONSE COEFFICIENT _____ C_S = 0.029
   - ANALYSIS DESIGN PROCEDURE _____ EQUIVALENT LATERAL FORCE
5. SNOW LOADS (PER ASCE 7-10):
   - GROUND SNOW LOAD _____ P_g = 0 PSF
6. GEOTECHNICAL DATA:
   - ALLOWABLE SOIL BEARING _____ 2,000 PSF
   - ALLOWABLE LATERAL BEARING PRESSURE _____ 150 PSF/FT (PER FBC TABLE 1806.2)

MATERIAL PROPERTIES:

1. CONCRETE (PER ACI 318-14):
   - ALL CONCRETE _____ f ' c = 4,500 PSI (UON)
2. REINFORCING STEEL _____ ASTM A615 GRADE 60
3. STRUCTURAL STEEL (PER AISC 360-10):
   - WIDE FLANGE SHAPES _____ ASTM A992
   - HSS RECTANGULAR _____ ASTM A500, GRADE B, F_y = 46 KSI
   - HSS ROUND _____ ASTM A500, GR B, F_y = 42 KSI
   - STEEL PIPES _____ ASTM A53, GRADE B, TYPE S
   - CHANNELS _____ ASTM A36
   - PLATES _____ ASTM A36
   - ANGLES _____ ASTM A36
   - BOLTS _____ ASTM F3125 GR A325 (3/4"Ø UON)
   - ANCHOR BOLTS _____ ASTM F1554 (GRADE 36 UON)
   - ALL OTHER STEEL _____ ASTM A36
4. WELDS (PER AWS D1.1) _____ E70XX

GENERAL NOTES:

1. THE STRUCTURAL NOTES SHALL GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE PROJECT SPECIFICATION AND OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING PROJECT SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWING PACKAGES.
2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION.
3. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS, ETC.
4. FOR TYPICAL DETAILS SHOWN BUT NOT BE REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.
5. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL THE ENGINEER SHALL BE NOTIFIED.
6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS OF EXISTING SITE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
7. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS CONTAINED IN GEOTECHNICAL REPORT 4511-19-018-002 BY TIERRA, INC. DATED SEPTEMBER 18, 2019.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS
   A. METAL BUILDING SYSTEM (SPECIFICATION 133419)
   B. ALUMINUM CANOPY SYSTEMS (SPECIFICATION 107316)
2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.
   A. SUBMITTAL DOCUMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS.
   B. SUBMITTAL DOCUMENTS SHALL INCLUDE PLAN LAYOUTS, SECTIONS, DETAILS, CALCULATIONS, PRODUCT DATA, CERTIFICATES AND OTHER DATA. DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN FLORIDA.
3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE ENGINEER AND BUILDING OFFICIAL.

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE SHALL BE IN COMPLIANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-14.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   - FOOTINGS _____ 3"
   - PILASTERS _____ 2"
   - SLAB ON GRADE _____ 2" FROM TOP OF CONC.
3. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH THE CURRENT EDITIONS OF THE CRSI MANUAL OF STANDARD PRACTICE DURING THE PLACING OF THE CONCRETE.
4. PROVIDE CORNER BARS AT ALL BEAM AND WALL INTERSECTIONS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BARS.
5. ALL GRADE BEAM AND WALL STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. TOP BARS SHALL BE SPLICED AT THE CENTER OF THE SPAN, BOTTOM BARS OVER SUPPORTS, AND OTHER HORIZONTAL AND TEMPERATURE BARS AS REQUIRED.
6. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.
   REINFORCING STEEL _____ SEE DETAIL 6/S002
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL PLANS FOR CAST-IN-PLACE BOLTS, INSERTS, ANCHORS, ETC AND FOR ALL SLAB LEAVE-OUTS, SLOPES, DEPRESSIONS, SLEEVES, ETC.
8. ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.
9. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
10. PROVIDE 1/2" PREMOLDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AGAINST GRADE BEAMS OR WALLS, UNLESS OTHERWISE SHOWN OR NOTED.
11. ALL CONCRETE SHALL BE DESIGNED BY AN APPROVED LABORATORY, AND THE DESIGN MIX SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW, AND APPROVAL OBTAINED PRIOR TO USE.
12. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES, MOULDS, FLOOR HINGES, ETC TO BE CAST INTO THE CONCRETE.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE CURRENT EDITION OF THE AISC STEEL CONSTRUCTION MANUAL (FOURTEENTH EDITION) INCLUDING AISC 360-10 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS) AND AISC 303-10 (CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES).
2. QUALITY CONTROL (QC) SHALL BE PERFORMED BY THE CONTRACTOR (ERECTOR/FABRICATOR) IN ACCORDANCE WITH THE PROVISIONS OF AISC 360-10 CHAPTER N AND ALL APPLICABLE REFERENCED STANDARDS. ALL WELDING INSPECTIONS PERFORMED BY THE CONTRACTOR SHALL BE PERFORMED BY A CERTIFIED WELDING INSPECTOR (AWS CWI QC1). CONTRACTOR SHALL KEEP CURRENT AND HAVE AVAILABLE FOR REVIEW ALL DOCUMENTATION LISTED IN AISC CHAPTER N, SECTION N3 AS WELL AS ALL DOCUMENTATION REQUIRED FOR INDIVIDUAL INSPECTION TASKS OUTLINED IN AISC 360 CHAPTER N.
3. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION). ALL WELDS SHALL BE 3/16" MINIMUM FILLET WELDS UON OR AS REQUIRED BY AISC.
4. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF FABRICATION. ALL STRUCTURAL STEEL SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
5. ALL SHOP CONNECTIONS SHALL BE WELDED. ALL FIELD WELDING SHALL BE SHOWN ON THE SHOP DRAWINGS.
6. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AS APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC). ALL BOLTING HARDWARE INCLUDING BOLTS, NUTS AND WASHERS SHALL BE EITHER HOT-DIP OR MECHANICALLY GALVANIZED. ALL COMPONENTS OF BOLTING ASSEMBLY SHALL BE GALVANIZED BY THE SAME PROCESS.
7. ALL BOLTS SHALL BE ASTM F3125 GR A325 INSTALLED TO SNUG-TIGHT IN BEARING TYPE CONDITION WITH THREADS ALLOWED ACROSS THE SHEAR PLANE UON.
8. EXCEPT WHERE SPECIFICALLY NOTED, CONNECTION DETAILS ON THE DRAWINGS ARE CONSIDERED COMPLETELY DESIGNED AND SHALL NOT BE MODIFIED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ENGINEER.
9. NO SHOP OR FIELD SPLICES WILL BE ALLOWED IN BEAMS, GIRDERS OR COLUMNS EXCEPT WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
10. NO ADDITIONAL HOLES FOR BOLTING OF TEMPORARY BRACING, ETC. DURING ERECTION WILL BE ALLOWED IN ANY STRUCTURAL STEEL MEMBER. WHERE TEMPORARY BOLTED CONNECTIONS ARE REQUIRED FOR STABILITY OF THE STEEL FRAME DURING ERECTION, USE NELSON STUD BOLTS IN LIEU OF PUNCHED OR DRILLED HOLES.
11. ALL STRUCTURAL STEEL MEMBERS, ANGLES, BARS, ANCHORS, ANCHOR BOLTS, ETC. EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. SEE ARCHITECTURAL FOR FINISH COATING SYSTEM. COATING SYSTEM SHALL BE COMPATIBLE WHEN APPLIED OVER GALVANIZED COATING.
12. ANGLE FRAME MEMBERS AROUND TRENCHES, PITS, OPENINGS, ETC. SHALL BE MITERED, WELDED AND GROUND SMOOTH.
13. STRUCTURAL GROUT FOR STEEL COLUMNS SHALL BE A NON-SHRINKAGE NON-EXPANSIVE, NON-METALLIC, GROUT WITH A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.

MASONRY:

1. ALL MASONRY WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1/ASCE 6).
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH f ' m = 1,900 PSI.
3. MORTAR SHALL CONFORM TO ASTM C270 TYPE S TYPICAL WITH TYPE M USED BELOW GRADE (UON).
4. GROUT SHALL BE 3000 PSI STRENGTH AT 28 DAYS. GROUT SOLID ALL CELLS WITH REINFORCING OR EMBEDDED BOLTS.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. SEE SCHEDULE FOR LAP SPLICE LENGTHS.
6. METAL ANCHORS AND TIES SHALL BE OF CORROSION RESISTANT METAL HOT DIPPED GALVANIZED.
7. JOINT REINFORCING SHALL BE ASTM A153, CLASS B, HOT-DIP GALVANIZED LADDER TYPE WITH #9 GAUGE DEFORMED LONGITUDINAL WIRES AND SMOOTH CROSS WIRES CONFORMING TO ASTM A951. SPACE AT 16" OC VERTICAL. EMBED LONGITUDINAL WIRES IN MORTAR WITH A MINIMUM COVER OF 5/8" WHEN EXPOSED TO WEATHER OR EARTH AND 1/2" WHEN NOT EXPOSED TO WEATHER OR EARTH.
8. CONCRETE MASONRY BOND BEAMS SHALL BE VERTICALLY SPACED AT 8'-0" ON CENTER MAXIMUM. PROVIDE (2) #5 BARS IN 8" BOND BEAMS AND PROVIDE (2) #6 BARS IN 12" BOND BEAMS.
9. UNLESS OTHERWISE NOTED, ALL CMU WALLS SHALL BE REINFORCED WITH (1) #5 AT EACH CORNER, CELLS ADJACENT TO EACH CORNER, AND EACH SIDE OF ALL OPENINGS AND RECESSES. PROVIDE (1) #5 IN EACH OF 2 CELLS EACH SIDE OF OPENINGS OF 6'-0" OR MORE. PROVIDE #5 @ 48" OC (MIN) FOR VERTICAL REINFORCING IN ALL MASONRY WALLS, TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
10. PROVIDE TEMPORARY BRACING FOR MASONRY WALLS UNTIL THEY ARE CONSTRUCTED TO THEIR FINAL DESIGN CONDITION.
11. ALL PRECAST OR POURED LINTELS SHALL BE REINFORCED WITH (2) #4 TOP AND BOTTOM W/ #3 TIES AT 12" AS A MINIMUM AND SHALL HAVE MINIMUM MASONRY END BEARING OF 8". SEE STANDARD LINTEL SCHEDULE FOR MORE INFORMATION.
12. PROVIDE MASONRY CONTROL JOINTS AT 25'-0" OC MAX. UON SEE SPECS FOR JOINT INFORMATION.

EARTHWORK NOTES:

SITE PREPARATION:

1. THE PROPOSED BUILDING FOOTPRINT AND FIVE FEET BEYOND SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL EXISTING PAVEMENT, DEMOLITION DEBRIS, AND OTHER DELETERIOUS MATERIALS IN THEIR ENTIRETY.
2. PRIOR TO PLACING STRUCTURAL FILL, THE UPPER 12 INCHES (AS A MINIMUM) OF GROUND SURFACE SHALL BE COMPACTED TO A MINIMUM 93% OF THE MODIFIED PROCTOR TEST (ASTM D1557) USING A STATIC ROLLER (NON-VIBRATORY COMPACTION EQUIPMENT SHALL BE USED, VIBRATORY ROLLER NOT PERMITTED).
3. ANY EXPOSED SUBGRADE SOILS THAT ARE FOUND TO BE UNSTABLE OR UNSUITABLE SHALL BE REMOVED IN THEIR ENTIRETY AND REPLACED WITH WELL COMPACTED STRUCTURAL FILL.

STRUCTURAL FILL AND COMPACTION:

1. STRUCTURAL FILL SHALL BE A CLEAN GRANULAR FILL FREE OF ROCK FRAGMENTS GREATER THAN 6 INCHES, TOPSOIL, ORGANICS, OR ANY OTHER UNSUITABLE MATERIAL, SHALL HAVE A LOW TO MODERATE PLASTICITY, UNIFORM COMPOSITION, PLASTICITY INDEX (PI) LESS THAN 30 PERCENT, STANDARD PROCTOR (ASTM D698) MAXIMUM DRY DENSITY OF AT LEAST 90 POUNDS PER CUBIC FOOT (PCF), AND SHALL BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
2. STRUCTURAL FILL SHALL BE PLACED IN UNIFORM HORIZONTAL LAYERS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND SHALL BE COMPACTED TO A MINIMUM SOIL DENSITY OF 95% OF THE MODIFIED PROCTOR TEST (ASTM D1557).

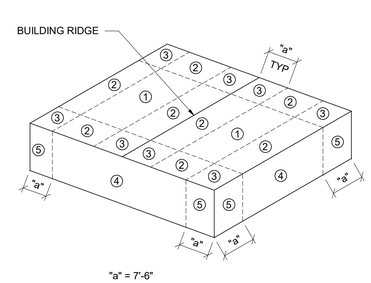
FOUNDATIONS:

1. THE SOIL IMMEDIATELY BENEATH AND TO A MINIMUM DEPTH OF 12 INCHES BELOW THE FOOTINGS SHALL BE COMPACTED TO A MINIMUM SOIL DENSITY OF 98% OF THE MODIFIED PROCTOR TEST (ASTM D1557).
2. ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED AND TESTED TO VERIFY THAT IN-SITU SOIL BEARING PRESSURES, COMPATIBLE WITH THE DESIGN VALUE, ARE ACHIEVED.
3. ALL FOUNDATIONS SHALL BE FORMED TO PREVENT THE CREATION OF AN ENLARGED AREA OF CONCRETE (MUSHROOM).
4. FOUNDATION EXCAVATIONS SHALL BE OBSERVED, AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOUNDATION BEARING SOILS TO WETTING AND DRYING. SURFACE WATER RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. THE FOUNDATION CONCRETE SHALL BE PLACED DURING THE SAME DAY THE EXCAVATION IS MADE. IF IT IS REQUIRED THAT FOOTING EXCAVATIONS BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHALL BE PROTECTED TO REDUCE EVAPORATION AND ENTRY OF MOISTURE.

SLAB-ON-GRADE:

1. 6 INCHES (MIN) OF COMPACTED STRUCTURAL FILL SHALL BE PLACED UNDER THE SLAB-ON-GRADE.
2. PROVIDE ASTM E1745 15 MIL VAPOR BARRIER BELOW SLAB ON GRADE.

COMPONENTS AND CLADDING WIND PRESSURES (PSF)					
ZONE		EFFECTIVE WIND AREA (SF)			
		10	50	100	500
ROOF	①②③	+29.4	+23.3	+20.8	+20.8
	①	-46.6	-43.6	-42.3	-42.3
	②	-81.1	-66.0	-59.6	-59.6
	③	-119.9	-101.8	-94.0	-94.0
ROOF OVERHANG	②	-102.7	-102.7	-102.7	-102.7
	③	-167.3	-131.2	-115.6	-115.6
WALLS	④⑤	+50.9	+45.6	+43.3	+38.0
	④	-55.2	-49.9	-47.6	-42.3
	⑤	-68.1	-57.5	-52.9	-42.3



"a" = 7'-6"

NOTES:

1. ALL WIND LOADS SHOWN ARE ULTIMATE PER ASCE 7-10 AND UNITS PSF.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. EACH COMPONENT SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.
4. EDGE ZONE ("a") IS DISTANCE FROM CORNERS OF BUILDINGS.
5. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE, USE THE LOWER EFFECTIVE AREA.
6. ALL ROOF CANOPIES SHALL BE DESIGNED USING ZONE 3 ROOF OVERHANG PRESSURES. SEE ARCH FOR LOCATIONS.

1 / S001 COMPONENTS AND CLADDING

SCALE: N.T.S.

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10748 Deerwood Park Blvd. South
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DESIGN CRITERIA AND STRUCTURAL NOTES

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S001

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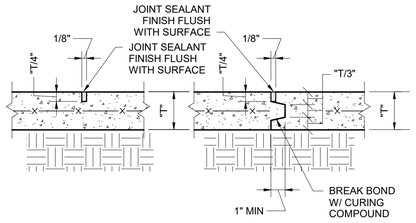

CRACK CONTROL JOINT - (CCJ)

CONSTRUCTION JOINT - (CJ)

NOTES:

1. CCJ SHALL BE PREFORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HOURS OF SLAB PLACEMENT.
2. USE CJ INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

1 S002 TYPICAL SLAB ON GRADE JOINT DETAILS

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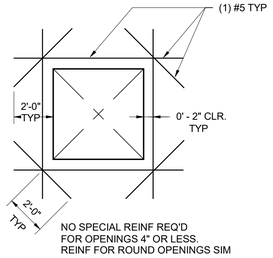

NO SPECIAL REINF REQ'D FOR OPENINGS 4" OR LESS. REINF FOR ROUND OPENINGS SIM

2 S002 SLAB OPENING REINFORCING

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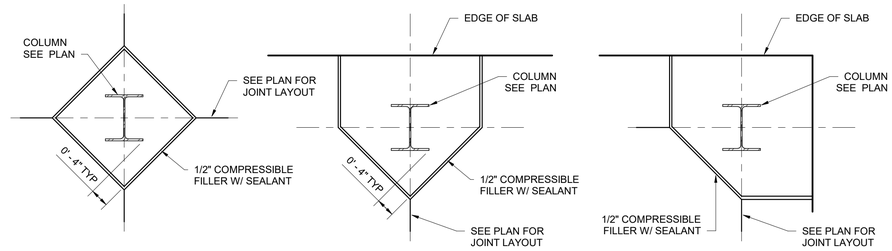

3 S002 TYPICAL BLOCKOUT @ COLUMNS

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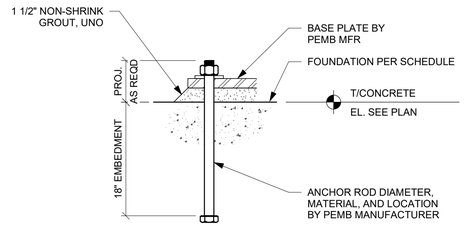

4 S002 TYPICAL ANCHOR ROD DETAIL

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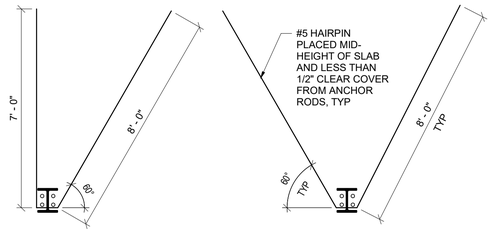

5 S002 TYPICAL HAIRPIN DETAIL

SCALE: N.T.S.

TYPICAL LAP SPLICE SCHEDULE (CONCRETE)	
BAR SIZE	LAP SPLICE
#3	2'-0"
#4	2'-8"
#5	3'-4"
#6	4'-0"
#7	5'-10"
#8	6'-8"
#9	7'-6"

TYPICAL LAP SPLICE SCHEDULE (MASONRY)	
BAR SIZE	LAP SPLICE
#3	2'-3"
#4	3'-0"
#5	3'-9"
#6	4'-6"

CONCRETE NOTES:
1. TABULATED VALUES ARE BASED ON THE FOLLOWING:
   NORMAL WEIGHT CONCRETE.
   UNCOATED GRADE 60 REINFORCING BARS.
   CLEAR COVER NOT LESS THAN 1.0 x BAR DIAMETER.
   CLEAR SPACING NOT LESS THAN 2.0 x BAR DIAMETER.
   LAP CLASS B.
   f'c = 4500 psi.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

6 S002 TYPICAL LAP SPLICES

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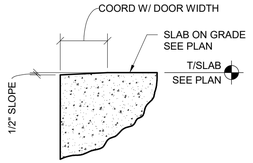

7 S002 SECTION AT DOOR

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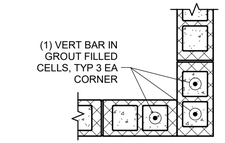
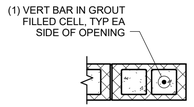


MASONRY CORNER DETAIL



MASONRY END OF WALL DETAIL

8 S002 MASONRY DETAILS

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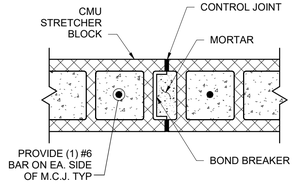

9 S002 MASONRY CONTROL JOINT DETAIL

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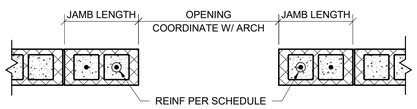

MASONRY JAMB SCHEDULE		
OPENING SIZE	JAMB LENGTH	# BARS PER CELL
UP TO 4'-0"	8"	(1) #5
4'-1" TO 6'-0"	16"	(1) #5

10 S002 MASONRY JAMB SCHEDULE

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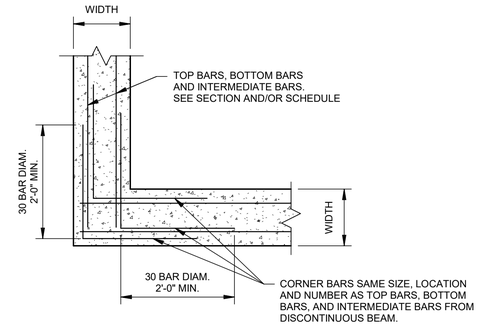

11 S002 TYPICAL CONCRETE CORNER DETAIL

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

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SHEET NUMBER

S002

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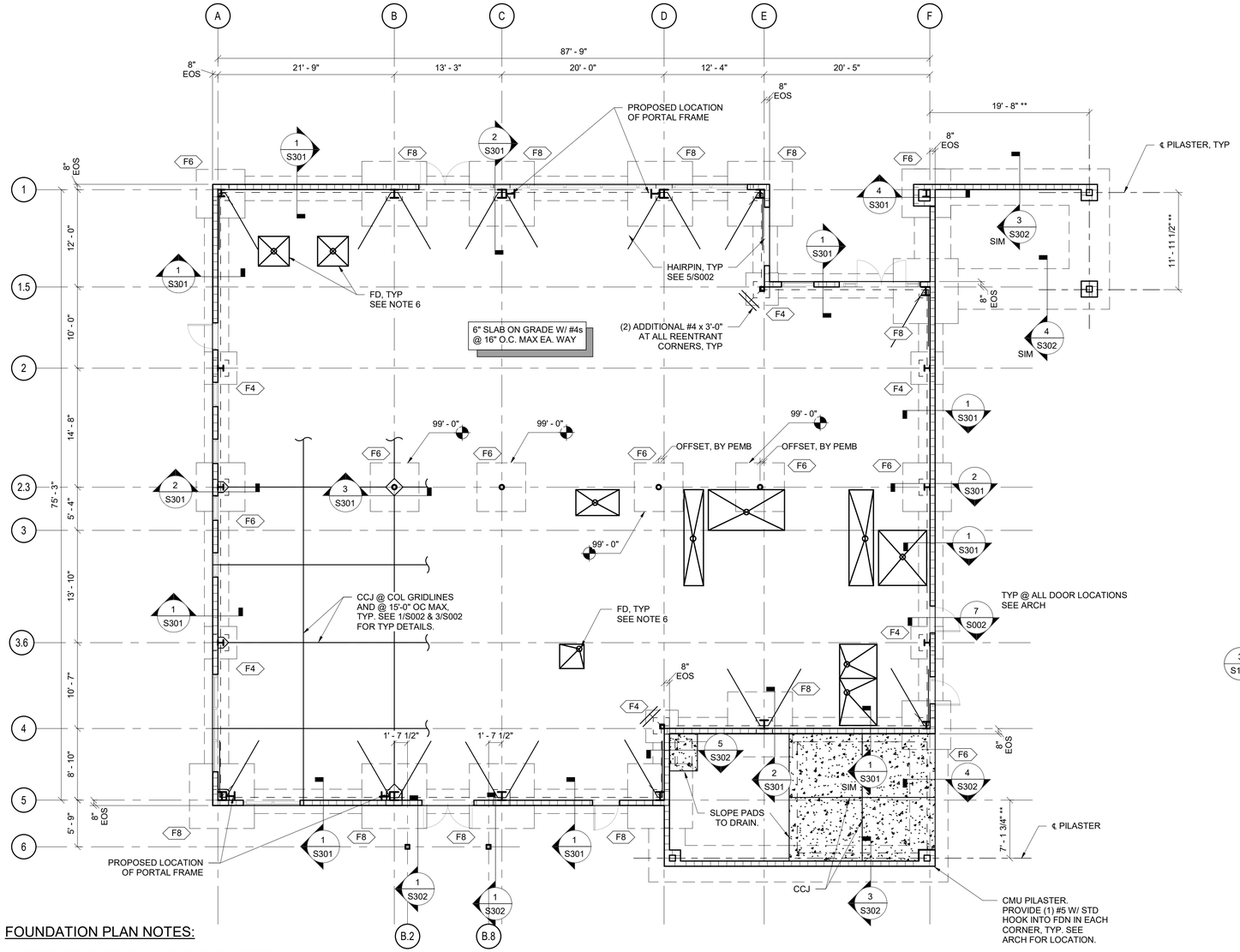

FOUNDATION PLAN NOTES:

1. REFERENCE ELEVATION 100'-0" = 103.25 N.G.V.D. 88 (SEE CIVIL)
2. TOP OF SLAB ELEVATION = 100'-0" UON
3. TOP OF FOOTING ELEVATION = SEE SCHEDULE
4. COLUMN FOOTING IS CENTERED ON COLUMN BASE PLATE.
5. SEE 4/S002 FOR TYPICAL ANCHOR ROD DETAIL.
6. FD = FLOOR DRAIN. SEE PLUMBING AND ARCH FOR LOCATION AND SLAB SLOPES.
7. ** DENOTES COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATION.

1 S101 FOUNDATION PLAN

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

FOUNDATION SCHEDULE

DESIGNATION	LENGTH x WIDTH	THICKNESS	REINFORCEMENT	TOP OF FOOTING ELEVATION
F4	4'-0"x4'-0"	1'-6"	#6 @ 12" OC MAX T&B EW	98'-0"
F5	5'-0"x5'-0"	2'-0"	#7 @ 12" OC MAX T&B EW	98'-0"
F6	6'-0"x6'-0"	2'-0"	#7 @ 12" OC MAX T&B EW	98'-0" (TYP, UON)
F8	8'-0"x8'-0"	2'-0"	#7 @ 12" OC MAX T&B EW	98'-0"

2 S101 FOUNDATION SCHEDULE

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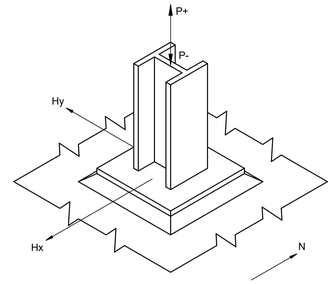


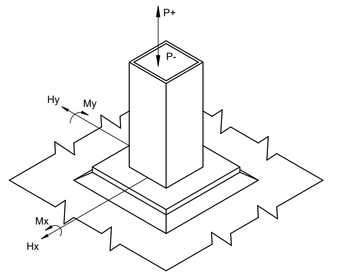
METAL BUILDING				
COLUMN LOCATION	P		Hx	Hy
A/1	+ 11.5	- 3.00	± 0.00	± 5.50
B/1, C/5, D/5,	+ 12.0	- 8.75	± 0.00	± 6.00
E/1, E/4	+ 25.0	- 17.0	± 0.00	± 8.00
F/1.5, F/4	+ 15.5	- 7.50	± 0.00	± 4.50
E/1.5, D/4	+ 0.00	- 5.00	± 4.50	± 4.50
B/2.3, C/2.3, D/2.3, E/2.3	+ 16.0	- 16.5	± 0.00	± 0.00
A/2, A/3.6, F/2	+ 0.00	- 8.00	± 9.00	± 0.00
C/1, D/1, A/5, B,5	+ 20.0	- 13.0	± 14.0	± 6.00
F/1	+ 25.0	- 17.0	± 0.00	± 0.00
A/2.3, F/3	+ 15.0	- 25.5	± 9.00	± 0.00

NOTES:

1. ALL REACTIONS ARE PER 2017 FBC LRFD LOAD COMBINATIONS (KIPS)
2. P(+), Hx AND Hy ARE DUE TO WIND LOADS
3. FOUNDATION DESIGN FOR METAL BUILDING COLUMNS IS PRELIMINARY. FOUNDATION AS SHOWN ON PLANS IS NOT FOR CONSTRUCTION. PRIOR TO FABRICATION AND CONSTRUCTION METAL BUILDING MANUFACTURER SHALL SUBMIT SIGNED AND SEALED COLUMN REACTIONS TO ENGINEER FOR VERIFICATION THAT PRELIMINARY FOUNDATION DESIGN COMPLIES WITH ALL APPLICABLE CODES. SEE DEFERRED SUBMITTAL FOR ADDITIONAL REQUIREMENTS.

3 S101 METAL BUILDING REACTIONS

SCALE: N.T.S.



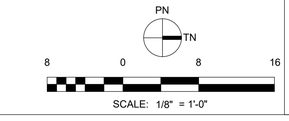
CANOPY						
COLUMN	P		Hx	Hy	Mx	My
B.2/6, B.8/6	+ 2.0	- 15.0	± 1.00	± 1.00	± 10.00	± 10.00

NOTES:

1. ALL REACTIONS ARE IN KIPS AND MOMENTS IN KIP-FT.
2. P(+), Hx AND Hy ARE DUE TO WIND LOAD
3. FOUNDATION DESIGN COMPLIES WITH ALL APPLICABLE CODES. FOUNDATION DESIGN FOR CANOPY COLUMNS IS PRELIMINARY, BASED ON PRELIMINARY REACTIONS. FOUNDATION AS SHOWN ON PLANS IS NOT FOR CONSTRUCTION . PRIOR TO FABRICATION AND CONSTRUCTION CANOPY MANUFACTURER SHALL SUBMIT SIGNED AND SEALED COLUMN REACTIONS TO ENGINEER FOR VERIFICATION THAT PRELIMINARY FOUNDATION DESIGN COMPLIES WITH ALL APPLICABLE CODES. SEE DEFERRED SUBMITTAL FOR ADDITIONAL REQUIREMENTS.

4 S101 CANOPY REACTIONS

SCALE: N.T.S.



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

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PROFESSIONAL SEAL

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/03/2020
REVIEWED BY: RLM
DRAWN BY: CMM
DESIGNED BY: CMM
PROJECT NUMBER: 201-0052-002

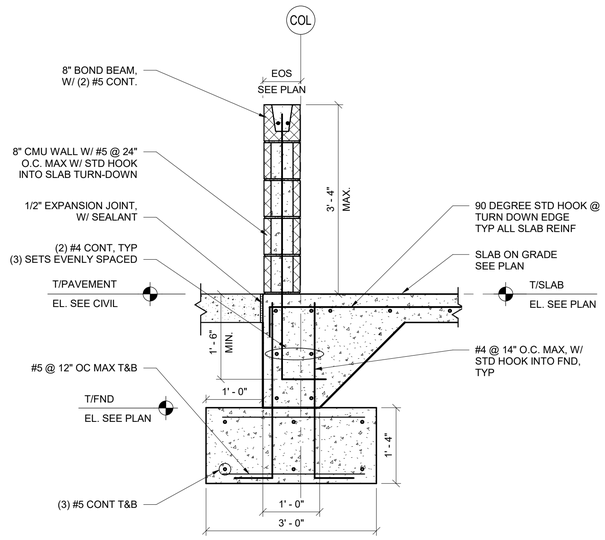
SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

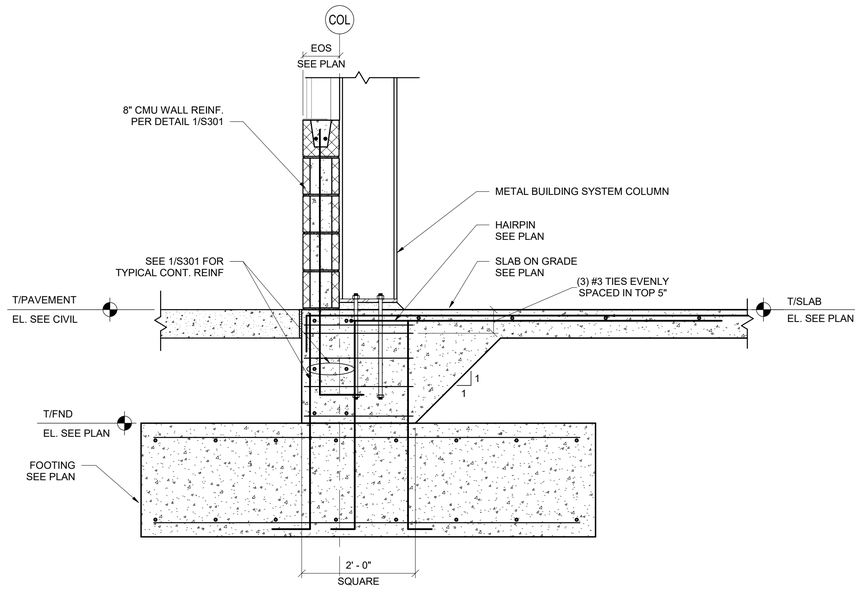
S101

BID DOCUMENTS



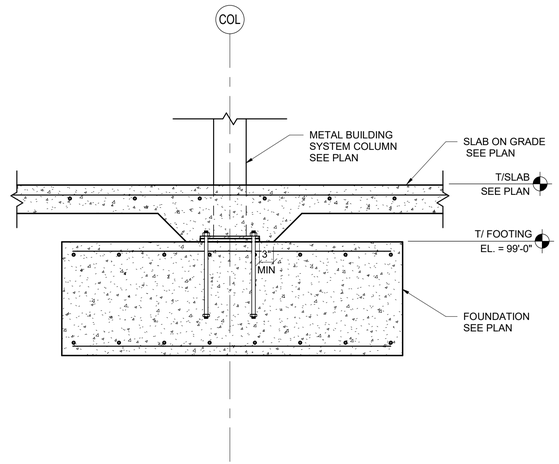
1 S301 TYPICAL SLAB EDGE SECTION

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



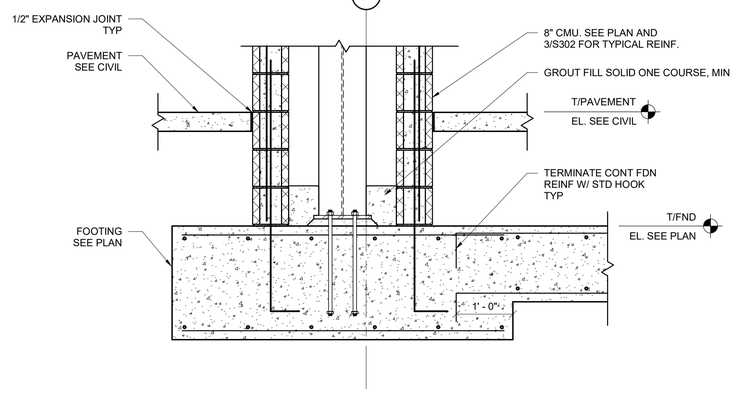
2 S301 TYPICAL SECTION @ COLUMN

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



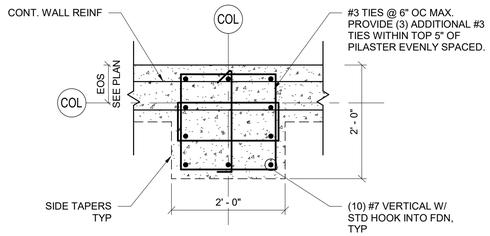
3 S301 TYPICAL SECTION @ INTERIOR COLUMN

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



4 S301 EXTERIOR COLUMN SECTION

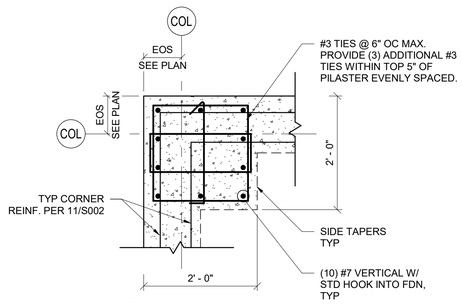
SCALE: 3/4" = 1'-0"



NOTE:
ONLY PILASTER INFORMATION SHOWN
FOR CLARITY. SEE PLAN AND TYPICAL
SECTIONS FOR ADDITIONAL INFORMATION
NOT SHOWN.

5 S301 TYPICAL PILASTER DETAIL

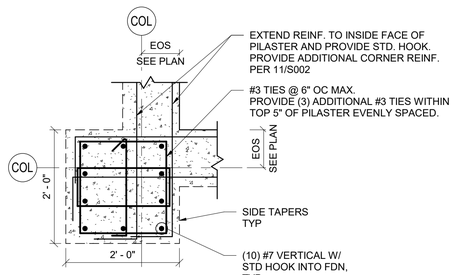
SCALE: 3/4" = 1'-0"



NOTE:
ONLY PILASTER INFORMATION SHOWN
FOR CLARITY. SEE PLAN AND TYPICAL
SECTIONS FOR ADDITIONAL INFORMATION
NOT SHOWN.

6 S301 TYPICAL CORNER COLUMN PILASTER DETAIL

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



NOTE:
ONLY PILASTER INFORMATION SHOWN FOR CLARITY.
SEE PLAN AND TYPICAL SECTIONS FOR ADDITIONAL
INFORMATION NOT SHOWN.

7 S301 TYPICAL REENTRANT CORNER PILASTER DETAIL

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

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DATE ISSUED:	03/03/2020
REVIEWED BY:	RLM
DRAWN BY:	CMM
DESIGNED BY:	CMM

PROJECT NUMBER:
201-0052-002

SHEET TITLE

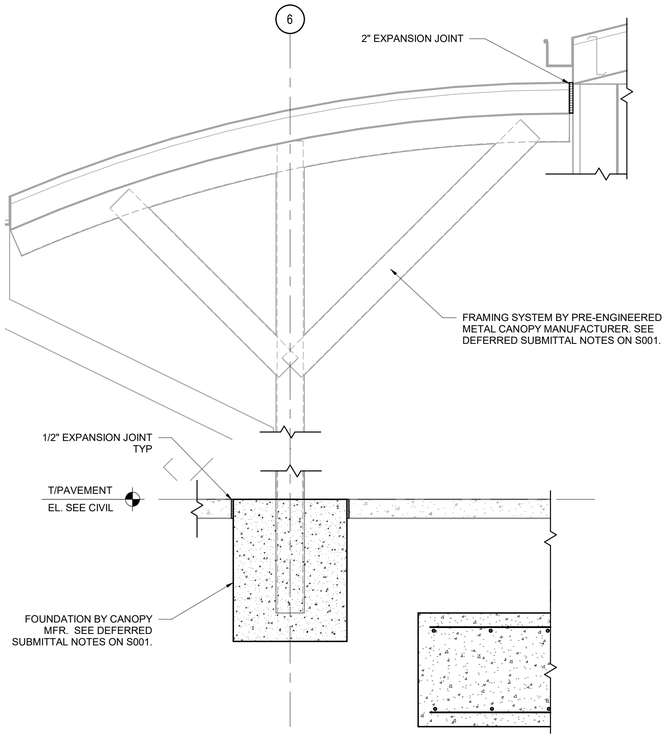
SECTIONS AND DETAILS

SHEET NUMBER

S301

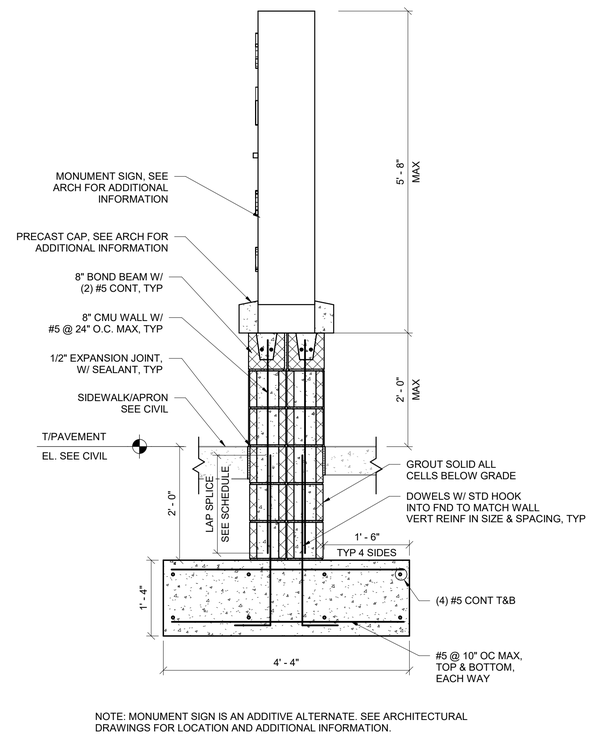
BID DOCUMENTS

Sheet Size: ARCH E 22X34



1 S302 SECTION @ CANOPY

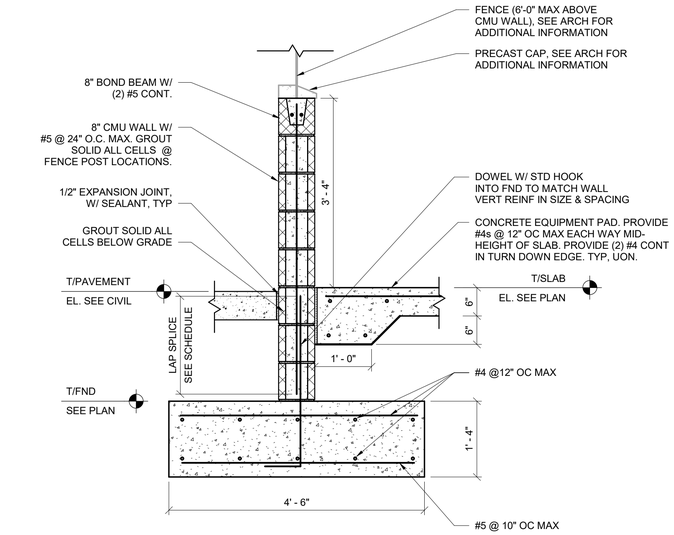
SCALE: 3/4" = 1'-0"



NOTE: MONUMENT SIGN IS AN ADDITIVE ALTERNATE. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.

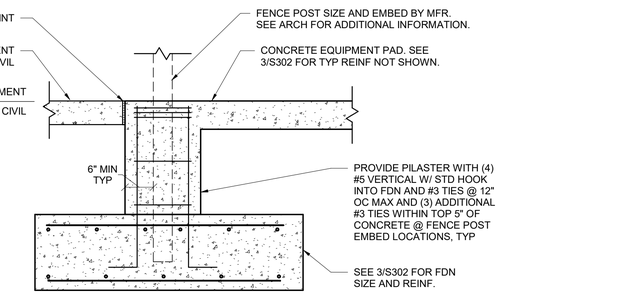
2 S302 MOUNMENT SIGN

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



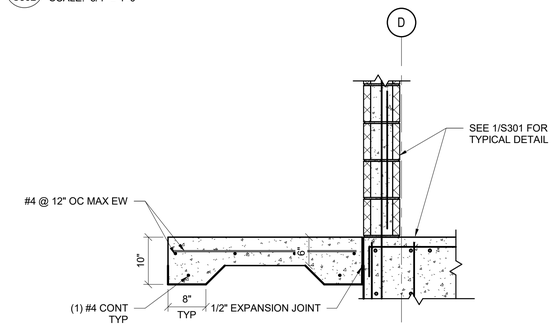
3 S302 SECTION @ ENCLOSURE

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



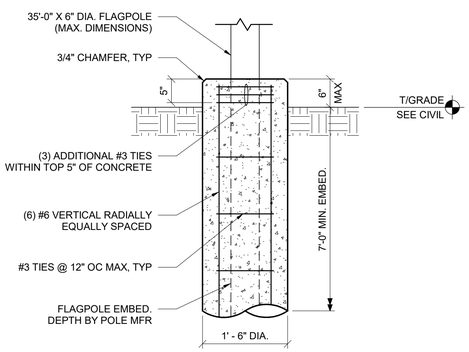
4 S302 SECTION

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



5 S302 SECTION

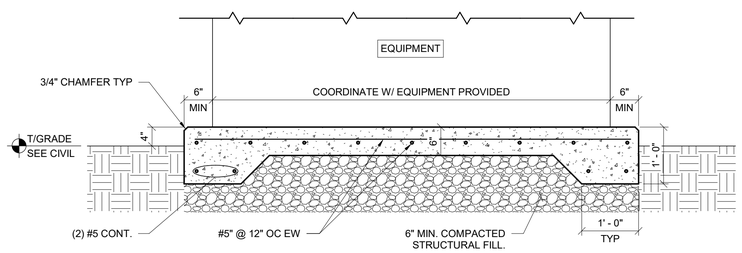
SCALE: 3/4" = 1'-0"



NOTE:
1. SEE ARCH FOR FLAGPOLE LOCATIONS. MINIMUM CENTER TO CENTER SPACING OF FLAGPOLE FOUNDATIONS = 4'-6".

6 S302 FLAGPOLE FOUNDATION

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



NOTE: SEE ARCH AND ELECTRICAL FOR LOCATION.

7 S302 GENERATOR PAD

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

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DRAWN BY:	CMM
DESIGNED BY:	CMM

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SECTIONS AND DETAILS

SHEET NUMBER

S302

BID DOCUMENTS

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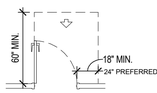
Sheet Size: ARCH E 22X34

PROJECT GENERAL NOTES:

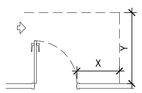
1. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
2. REFER TO CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE-PROTECTION, ELECTRICAL, SIGNAGE AND BAGGAGE SYSTEM DRAWINGS AND SPECIFICATIONS FOR COORDINATION OF WORK.
3. EACH SUBCONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS THEREIN. EACH TRADE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK.
4. THE SUBCONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
5. ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, ETC. MUST BE SCHEDULED WITH THE OWNER 72 HOURS PRIOR TO COMMENCING THE WORK.
6. DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF THE WORK IS MADE POSSIBLE.
7. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
8. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
9. DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
10. ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
11. UNLESS NOTED OTHERWISE ALL NEW WALLS AND PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STUD OR FACE OF THE BLOCK.
12. UNLESS NOTED OR DIMENSIONED OTHERWISE, ALL DOORS ARE LOCATED BY THE JAMB DETAIL AND/OR FLOOR PLAN DIMENSIONS. RELATIVE TO THE ADJACENT WALLS AND PARTITIONS.
13. UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED IN ALL FINISHED SPACES.
14. ANY PIPING, DUCTS, CONDUITS, ETC. THAT PENETRATE FIRE-RATED FLOOR SLABS AND WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE INTEGRITY OF THE FLOOR OR WALL WHERE PENETRATIONS OCCUR. PROVIDE FIRE DAMPERS IN DUCTS PENETRATING FIRE-RATED WALLS TO MEET THE APPLICABLE BUILDING CODES. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE-PROTECTION DRAWINGS FOR EXTENT AND FIRE-RATING REQUIREMENTS. THE FIRE-RATING OF THE FIRE-STOPPING MUST BE EQUAL OR GREATER TO THE MINIMUM FIRE-RATING OF THE FLOOR, ROOF OR WALL ASSEMBLY.
15. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLIES, SHALL BE TIGHT AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.
16. WHERE THE FIRE RATING OF WALLS ARE NOTED ON THE DRAWINGS, THE FIRE RATING SHALL APPLY TO THE ENTIRE PERIMETER ENCLOSURE OF THE ROOM OR SPACE FOR THE FULL LENGTH AND HEIGHT OF AREAS BEING SEPARATED,
17. PROVIDE FIRE STOPS TO SEPARATE WALL CAVITIES FROM HORIZONTAL PLENUM AREAS AND BETWEEN FLOORS TO CLOSE THE OPENINGS. FIRE RATING OF STOPS SHALL MATCH THE FIRE RATING OF VERTICAL SEPARATION OR FLOOR CONSTRUCTION, WHICHEVER IS GREATER.
18. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
19. ALL FERROUS METAL WORK LOCATED ON THE EXTERIOR OR IN NONCONDITIONED SPACES (INTERIOR) SHALL BE HOT-DIPPED GALVANIZED (MINIMUM G-90 COATING THICKNESS).
20. PROVIDE A 7'-6" MINIMUM HEADROOM CLEARANCE IN ALL EXIT PASSAGES AT ALL LOCATIONS (BENEATH SPRINKLER PIPING, LIGHTING, ETC.).
21. THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGMENT OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT IN WRITING OF ANY SITUATION THAT WOULD NOT ALLOW HIM TO PROCEED ON THE BASIS OF THESE DOCUMENTS.
22. THE ARCHITECT/ENGINEER SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING WITH THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.
23. CONTRACTOR SHALL COORDINATE WITH EARLY CIVIL/STRUCTURAL FOUNDATION DOCUMENTS.
24. CONTRACTOR SHALL COORDINATE WITH SIGNAGE DOCUMENTS AND PROVIDE MOUNTING DEVICE INCLUDING FIRE RETARDANT TREATED BLOCKING FOR ALL EXTERIOR AND INTERIOR SIGNS.
25. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED AND FIRE RETARDANT.
26. CONTRACTOR SHALL PROVIDE BLOCKING IN WALLS AND CEILINGS FOR WALL AND CEILING MOUNTED FURNITURE, FIXTURES, EQUIPMENT,AND ACCESSORIES.
27. CONTRACTOR SHALL PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE GWB CORNERS.
28. CONTRACTOR SHALL PROVIDE WALL/FLOOR MOUNTED DOOR STOPS AT ALL DOORS.

ADA MOUTING GUIDLINES AND DOOR CLEARANCE

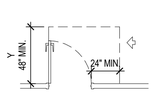
NOTE: INDICATED DIRECTION OF TRAVEL



PUSH SIDE DOOR CLEARANCE

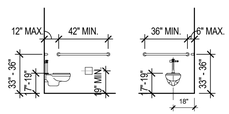


NOTE:
X = 36" MIN. IF Y= 60"
X = 42" MIN. IF Y= 54"
PULL SIDE DOOR CLERANCE

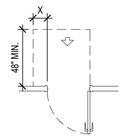


NOTE:
Y= 54" MIN. IF DOOR HAS CLOSER
PULL SIDE DOOR CLERANCE

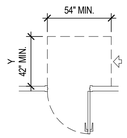
NOTE:
FLUSH LEVER LOCATED OPPOSITE FROM WALL
CLEAR FLOOR SPACE AT WATER CLOSETS



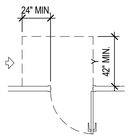
WATER CLOSET ELEVATIONS



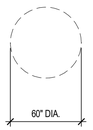
NOTE:
X = 72" IF DOOR HAS BOTH A CLOSER AND LATCH
PULL SIDE DOOR CLERANCE



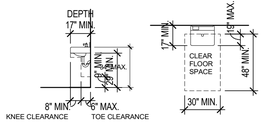
NOTE:
Y = 48" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH
PUSH SIDE DOOR CLERANCE



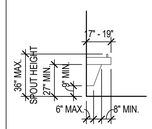
NOTE:
Y = 48" MIN. IF DOOR HAS BOTH A CLOSER
PUSH SIDE DOOR CLERANCE



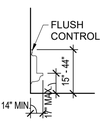
U-TURN AND PASSING SPACES



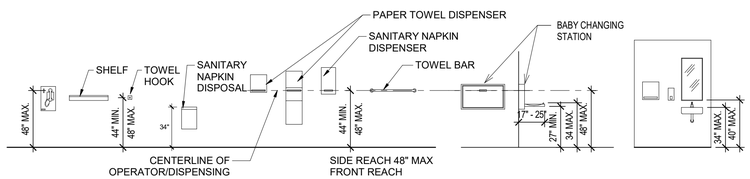
LAVATORY CLERANCES



DRINKING FOUNTAIN



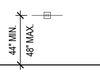
URINAL



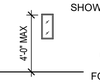
TOILET ROOM ACCESSORIES

DOOR OPENING

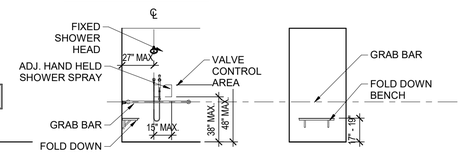
ELECTRIC AND DATA OULETS



LIGHT SWITCH, ALARM OR THERMOSTAT



FIRE EXTINGUISHER CABINET

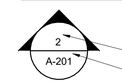


SHOWER ACCESSORIES

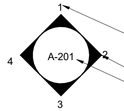
ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	EA.	EACH	K.P.	KICK PLATE	REINF.	REINFORCEMENT
A.C.T.	ACOUSTIC CEILING TILE	E.W.	EACH WAY			RESIST.	RESITANT
A.P.	ACCESS PANEL	E.D.	EXISTING DIMENSION	LAM.	LAMINATE	REQD.	REQUIRED
ADJ.	ADJACENT	ELEC.	ELECTRICAL	LAV.	LAVATORY	REV.	REVISION
A.H.U.	AIR HANDLING UNIT	E.W.C.	ELECTRICAL WATER COOLER	L.H.	LEFT HAND	R.H.	RIGHT HAND
A.T.O	AIRLINE TICKET OFFICE	EL.	ELEVATION	L.F.	LINEAR FEET	R.D.	ROOF DRAIN
ALT.	ALTERNATE	E.O.D.	EMERGENCY OVERFLOW DRAIN	L. PT.	LOW POINT	RM.	ROOM
ALUM.	ALUMINUM	ENCL.	ENCLOSURE			R.O.	ROUGH OPENING
APPROX.	APPROXIMATE	EQ.	EQUAL	MFR.	MANUFACTURER		
ARCH.	ARCHITECTURE	EQUIP.	EQUIPMENT	M.O.	MASONRY OPENING	SC.	SCALE
A.D.	AREA DRAIN	EXIST.	EXISTING	MATL.	MATERIAL	SCHED.	SCHEDULE
ASPH.	ASPHALT	E.J.	EXPANSION JOINT	MAX.	MAXIMUM	SEC.	SECTION
@	AT	EXP.	EXPOSED	MECH.	MECHANICAL	S.S.D.	SELF SERVICE DEVICE
AUTO.	AUTOMATIC	ETS.	EXPOSED TO STRUCTURE	MTL.	METAL	SHT.	SHEET
A.P.C.	AUTOMATIC PASSPORT CONTROL	E.T.D.	EXPLOSIVE TRACE DETECTION	M.S.F.	METAL STUD FRAMING	SIM.	SIMILAR
		EXT.	EXTERIOR	MIN.	MINIMUM	S.C.	SOLID CORE
BM.	BEAM	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	MIR.	MIRROR	SPEC.	SPECIFICATIONS
B.F.F.	BELOW FINISHED FLOOR			MISC.	MISCELLANEOUS	SQ.	SQUARE
B.M.	BENCH MARK	FT.	FEET	MR.	MOISTURE RESISTANT	S.F.	SQUARE FEET
BLKG.	BLOCKING	F.R.G.	FIBER REINF. GYPSUM	MRGWB	MOISTURE RESISTANT GWB	S.S.	STAINLESS STEEL
BD.	BOARD	FIN.	FINISH	MUL.	MULLION	STC.	SOUND TRANSMISSION CLASS
B.O.D.	BASIS OF DESIGN	F.F.L.	FINISH FLOOR LEVEL	M.U.F.I.D.S.	MULTI USER FLIGHT INFORMATION DISPLAY SYSTEM	STD.	STANDARD
BOT.	BOTTOM	F.E.	FIRE EXTINGUISHER			STL.	STEEL
BLDG.	BUILDING	F.E.C.	FIRE EXTINGUISHER CABINET	NOM.	NOMINAL	STRUCT.	STRUCTURAL
CAB.	CABINET	FFE	FURNITURE, FIXTURES AND EQUIPMENT	N.I.C.	NOT IN CONTRACT	SUSP.	SUSPENDED
C.R.	CARD READER	F.H.C.	FIRE HOSE CABINET	N.T.S.	NOT TO SCALE	SYM.	SYMBOL
CPT.	CARPET	F.H.R.	FIRE HOSE RACK	NO. or #	NUMBER	TAS	TOILET ACCESSORIES SCHEDULE
C.B.	CATCH BASIN	F.R.P.	FIRE RETARDANT PLYWOOD			TEL. or TELE.	TELEPHONE
CLG.	CEILING	F.V.C.	FIRE VALVE CABINET	O.C.	ON CENTER	TEMP.	TEMPERED
℄ or C.L.	CENTERLINE	FIXT.	FIXTURE	OPG.	OPENING	THR.	THRESHOLD
CTR.	CENTER	FLASH.	FLASHING	OPP. or OH	OPPOSITE or OPPOSITE HAND	THK.	THICKNESS
C.T.	CERAMIC TILE	FL.	FLOOR	OZ.	OUNCE	T.	TREAD
CLR.	CLEAR	F.D.	FLOOR DRAIN	O.D.	OUTSIDE DIAMETER	T.N.	TRUE NORTH
C.F.M.F.	COLD FORM METAL FRAMING	FLUOR.	FLUORESCENT	O.A.	OVERALL	T.O.S.	TOP OF STEEL
COL.	COLUMN	FTG.	FOOTING	OFRD	OVERFLOW ROOF DRAIN	T/SLAB	TOP OF SLAB
COMM.	COMMUNICATIONS	FDN.	FOUNDATION	O'HD. DR.	OVERHEAD DOOR	TYP.	TYPICAL
COMP.	COMPRESSIBLE	FR.	FRAME				
CONC.	CONCRETE	FURR.	FURRING	PEMB	PRE-ENGINEERED METAL BUILDING	U.L.	UNDERWRITERS LABRATORIES
CONC. BLK.	CONCRETE BLOCK			PTD.	PAINTED	U.O.N.	UNLESS OTHERWISE NOTED
CMU	CONCRETE MASONRY UNIT	GA.	GAUGE	PR.	PAIR		
CONN.	CONNECTION	GALV.	GALVINZED	P.J.	PANEL JOINT	V.B.	VAPOR BARRIER
CONST. JT.	CONSTRUCTION JOINT	GL.	GLASS	PLAS.	PLASTER	VEND.	VENDING
CONT.	CONTINUOUS	G.F.R.G.	GLASS FIBER REINF. GYPSUM	PLAM	PLASTIC LAMINATE	V.	VENT
C.J.	CONTROL JOINT	G.E.	GLOBAL ENTRY	PL.	PLATE	V.I.F.	VERIFY IN FIELD
CORR.	CORRIDOR	G.B.	GRAB BAR	PLMBG	PLUMBING	VERT.	VERTICAL
CU.	CUBIC	GYP.	GYPSUM	PLYWD.	PLYWOOD	VEST.	VESTIBULE
		GWB	GYPSUM BOARD	PVC.	POLYVINYLCHLORIDE	V.C.T.	VINYL COMPOSITION TILE
DEG.	DEGREE			PT.	POINT	V.W.C.	VINYL WALL COVERING
DEMO.	DEMOLITION / DEMOLISH	HDW.	HARDWARE	LBS.	POUNDS	VOL.	VOLUME
DET.	DETAIL	HD.	HEAD	PSI.	POUNDS PER SQUARE INCH		
DIA. or Ø	DIAMETER	HT.	HEIGHT	P.C.	PRECAST CONCRETE	W.C.	WATER CLOSET
DIM.	DIMENSION	H.C.	HOLLOW CORE	PREFIN.	PREFINISHED	W.G.	WALL GUARD
DIST.	DISTANCE	H.M.	HOLOW METAL	PREMANUF.	PREMANUFACTERED	W.H.	WATER HEATER
DIV.	DIVIDER	HORIZ.	HORIZONTAL	P.T.	PRESSURE TREATED	WP.	WATERPROOF
DR.	DOOR			P.R.D.	PRIMARY ROOF DRAIN	W.R.	WATER RESISTANT
DBL.	DOUBLE	IN.	INCHES	PRPTY.	PROPERTY	WT.	WEIGHT
DN.	DOWN	I.D.	INSIDE DIAMETER			W.W.F.	WELDED WIRE FABRIC
DS.	DOWNSPOUT	INSUL.	INSULATION	QTY.	QUANTITY	WDW.	WINDOW
D.	DRAIN	I.C.F.	INSULATING CONRETE FORM	Q.T.	QUARRY TILE	W/	WITH
DWG.	DRAWING	INT.	INTERIOR			W/O	WITHOUT
D.F.	DRINKING FOUNTAIN			R.	RADIUS	WD.	WOOD
D.C.	DRAIN COLUMN	JAN.	JANITOR	REC.	RECESSED	W.P.	WORKING POINT
		JT.	JOINT	RECT.	RECTANGULAR		

DRAFTING SYMBOLS



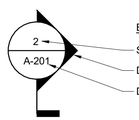
EXTERIOR ELEVATION SYMBOL
ELEVATION IDENTIFICATION
DRAWING WHERE ELEVATION IS SHOWN



INTERIOR ELEVATION SYMBOL
ELEVATION IDENTIFICATION
DIRECTION WHERE ELEVATION IS VIEWED
DRAWING WHERE ELEVATION IS SHOWN

DRAWING TITLE

DRAWING TITLE
SCALE: 3/16"=1'-0"
DRAWING IDENTIFICATION
SHEET NUMBER WHERE DRAWINGS IS SHOWN



BUILDING / WALL SECTION SYMBOL
SECTION IDENTIFICATION
DIRECTION WHERE SECTION IS VIEWED
DRAWING WHERE SECTION IS SHOWN

WINDOW IDENTIFICATION
MARK (NUMBER)

WALL IDENTIFICATION
MARK (NUMBER)

TOILET ROOM ACCESSORY IDENTIFICATION
MARK (NUMBER)

FINISH IDENTIFICATION
MARK (NUMBER)

FURNITURE/EQUIPMENT IDENTIFICATION
MARK (NUMBER)

REVISION IDENTIFICATION
MARK (NUMBER)

ROOM IDENTIFICATION
MARK (NAME)
MARK (NUMBER)

DOOR IDENTIFICATION
MARK (NUMBER)

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REVISIONS

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DRAWN BY:	JKS
DESIGNED BY:	MWR

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201-0052-002

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, & SYMBOLS

SHEET NUMBER

A001

BID DOCUMENTS

3/4/2020 9:40:38 AM BIM 360://PNS GAF/2010052001_PNS GAF_A_INT_R19.rvt

Sheet Size: ARCH E 22X34

FUTURE APRON

EXISTING AIRCRAFT PARKING

EXISTING APRON

LINE OF PEMB ROOF ABOVE
CONTROL JOINTS TYP.
CONCRETE EXPANSION JOINT, TYP.
EDGE OF SIDEWALK, SEE CIVIL DRAWINGS
E.J.
BOLLARD, TYP.
PASSENGER WAITING PORCH
CMU COLUMN WRAP
ENTRY PORCH
SCREEN WALL WITH ARCHITECTURAL FENCE FABRIC
GAS INCINERATOR, SEE CIVIL DRAWINGS
CMU PIER, TYP
EDGE OF EXISTING PAVEMENT
PR 3' MAINTENANCE GATES, ARCHITECTURAL FENCE
GAS INCINERATOR CLEARANCE AREA
ARCHITECTURAL FENCE
SECURITY EQUIPMENT, SEE SECURITY DRAWINGS
SCREEN WALL WITH ARCHITECTURAL FENCE
CBP VEHICULAR ACCESS LANE
5' CONCRETE SIDEWALK
38' - 0"
10' - 0"
11' - 0"
15' - 0"
PENSACOLA GA FACILITY
6322 SQ.FT.
EXISTING METAL BUILDING PENSACOLA AVIATION CENTER
AIRSIDE
LANDSIDE
ROLLING SECURITY VEHICLE GATE, ARCHITECTURAL FENCE
ARCHITECTURAL FENCE
49' - 6"
GENERATOR, SEE ELECTRICAL
CONCRETE EXPANSION JOINT, TYP.
3'X3' CONCRETE PAD
HVAC EQUIPMENT YARD
PR 5' MAINTENANCE GATES, ARCHITECTURAL FENCE
18'X16' CONCRETE PAD
COMMUNICATION PULL BOX
ARCHITECTURAL FENCE
CMU PIER, TYP
HVAC EQUIPMENT, SEE MECHANICAL DRAWINGS
CONTROL JOINTS, TYP.
SCREEN WALL WITH ARCHITECTURAL FENCE
20' CONCRETE ACCESS LANE
CARD READER ON POST, SEE TELECOMINUCATION DRAWINRS
FLAGPOLE, TYP.
MONUMENT SIGN, ADDITIVE ALTERNATE #1
1 A806
VEHICULAR ACCESS LANE
ASPHALT, SEE CIVIL DRAWINGS
EDGE OF EXISTING PAVEMENT
ACCESS ROAD
NEW PAVEMENT
EXISTING PAVEMENT
REFER TO LANDSCAPE DRAWINGS FOR VEGETATION INFORMATION
GATE CONTROL TERMINATION CABINET
PEDESTRIAN ENTRY GATE, ARCHITECTURAL FENCE FABRIC
CONTROL JOINTS, TYP.
CURVED BUILDING CANOPY ABOVE
EDGE OF SIDEWALK, SEE CIVIL DRAWINGS
REFER TO LANDSCAPE DRAWINGS FOR VEGETATION INFORMATION
TRUNCATED DOME PAVERS, SEE CIVIL DRAWINGS
ADA RAMP, SEE CIVIL DRAWING
WHEEL STOP, TYP., SEE CIVIL
SITE SIGNAGE,TYP., SEE CIVIL DRAWINGS
SITE SIGNAGE,TYP., SEE CIVIL DRAWINGS
ARCHITECTURAL FENCE
TRUNCATED DOME PAVERS, SEE CIVIL DRAWINGS
WHEEL STOP, TYP., SEE CIVIL
STRIPING, SEE CIVIL DRAWING
REFER TO LANDSCAPE DRAWINGS FOR VEGETATION INFORMATION
CONCRETE PAD, SEE CIVIL DRAWINGS
CURB, TYP.
CBP SECURED PARKING AREA
ROLLING SECURITY VEHICLE GATE, ARCHITECTURAL FENCE FABRIC
PUBLIC PARKING AREA
CARD READER ON POST, SEE TELECOMINICATION SHEETS
BOLLARD, TYP.
ROLLING SECURITY VEHICLE GATE, ARCHITECTURAL FENCE FABRIC
CURB, TYP.
REFER TO LANDSCAPE DRAWINGS FOR VEGETATION INFORMATION
AIRSIDE
LANDSIDE
EDGE OF EXISTING PAVEMENT
PN
TN
10 0 10 20
SCALE: 1" = 10'-0"

1 A100 ARCHITECTURAL SITE PLAN
SCALE: 1" = 10'-0"

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1.	PROGRESS DRAWINGS	11/19/19

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201-0052-002

SHEET TITLE

ARCHITECTURAL SITE PLAN

SHEET NUMBER

A100

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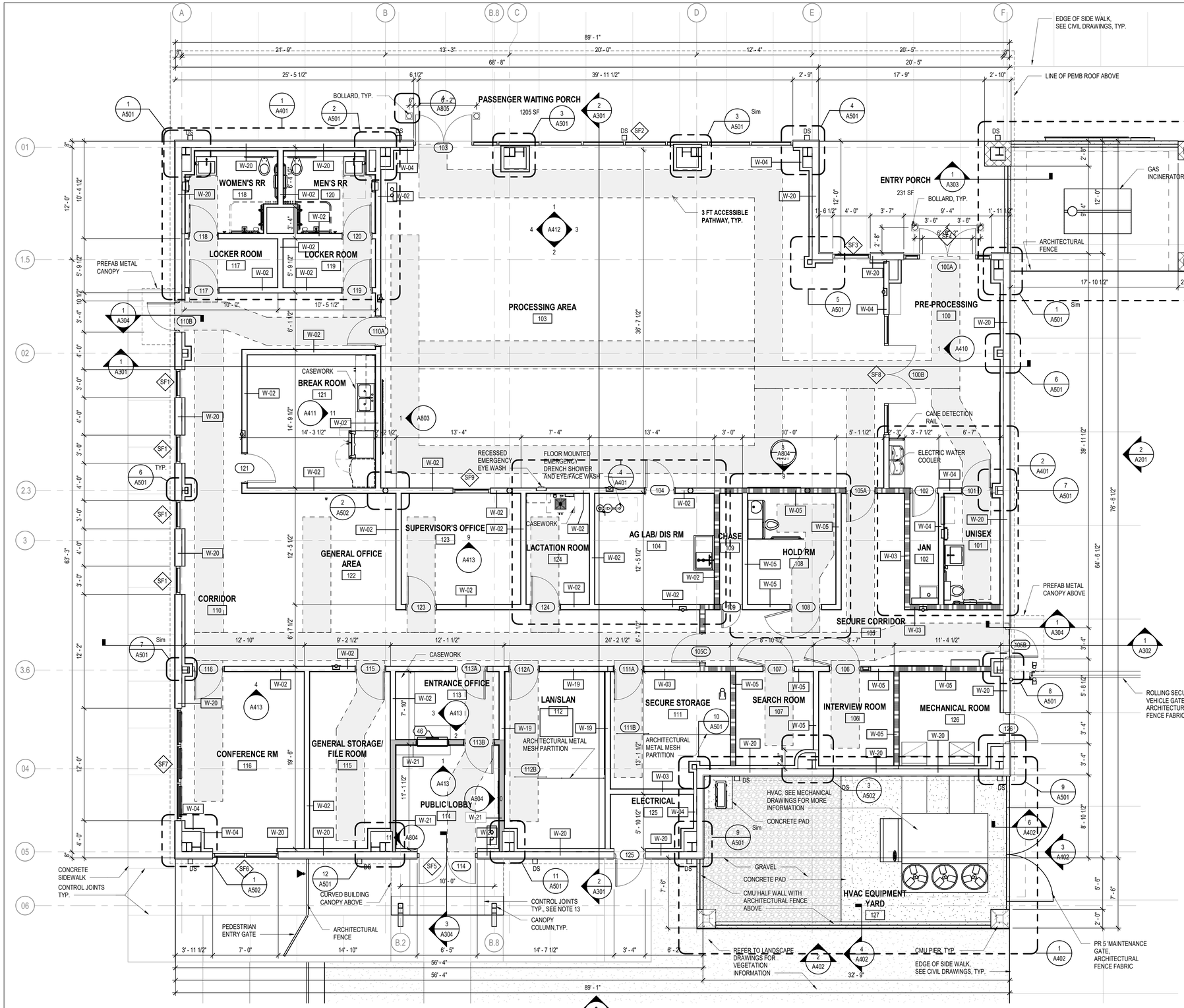
3/4/2020 9:40:39 AM BIM 360://PNS GAF/20100520001_PNS GAF_A_INT_R19.rvt

Sheet Size: ARCH E 22X34



1 A101 FLOOR PLAN
SCALE: 3/16" = 1'-0"

FLOOR PLAN LEGEND & SHEET NOTES

PARTITION LEGEND

- INTERIOR WALL SYSTEM
- CONCRETE MASONRY UNIT WALL SYSTEM
- EXTERIOR WALL SYSTEM
- ACCESSIBILITY PATH 3'-0"
- 1-HOUR RATED WALL SYSTEM - UL 419
- LEVEL III BALISTIC WALL SYSTEM - UL 752

NOTE: REFER TO PARTITION TAGS ON PLANS AND PARTITION TYPE DETAILS

GENERAL SHEET NOTES

1. ALL EXTERIOR WALLS ARE DIMENSIONED FROM THE FACE CMU AND STEEL COLUMN U.N.O.
2. ALL INTERIOR WALLS ARE DIMENSIONED FROM THE FACE OF STUD U.N.O.
3. SEE A801 FOR FURNITURE/EQUIPMENT
4. PROVIDE 5/8" MOISTURE RESISTANT GWB IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO:
   A. RESTROOMS
   B. LOCKER ROOMS
   C. LAB AREAS
5. SEE CIVIL DRAWINGS FOR UNDERGROUND CONNECTION TO STORM DREINGE.
6. SEE CIVIL DRAWINGS FOR SITE INFORMATION AND DETAILS

GENERAL NOTES

1. ALL DIMENSIONS ARE FROM FACE OF STUD OR FACE OF CMU.
2. ALL METAL STUDS / FRAMING SHALL BE GALVANIZED C.F.M. STUD FRAMING, UNLESS OTHERWISE NOTED.
3. SEAL ALL PENETRATIONS ON EXTERIOR WALLS.
4. ALL NON-RATED WALLS SHALL BE TERMINATED 6" ABOVE CEILING AND LATERALLY BRACED TO THE BUILDING STRUCTURE, EXCEPT PERIMETERS WALLS EXTENDED TO ROOF FRAMING.
5. PROVIDE 3/4" FIRE RESISTANT PLYWOOD IN TEL/COMM ROOM(S).
6. REFER TO SHEET A302 FOR EXTERIOR WALL ASSEMBLIES.
7. REFER TO SHEET A701 FOR WALL TYPES.
8. REFER TO SHEET A601 FOR DOORS, WINDOWS, AND STOREFRONT SCHEDULES AND DETAILS.
9. REFER TO SHEET A701 FOR FINISH SCHEDULES/LEGEND.
10. REFER TO SHEET A801 FOR FURNITURE, FIXTURES AND EQUIPMENT.
11. SEE A100 FOR SIDEWALK CONTROL JOINT LOCATION, TYP.

PN TN

4 0 4 8 12
SCALE: 3/16" = 1'-0"

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FLOOR PLAN

SHEET NUMBER

A101

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A1 / A121 REFLECTED CEILING PLAN

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

CEILING PLAN LEGEND & SHEET NOTES

FIXTURE LEGEND

- 1' x 4' FLUORESCENT LIGHT FIXTURE
- 1' x 4' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' x 2' FLUORESCENT LIGHT FIXTURE
- 2' x 2' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' x 2' FLUORESCENT LIGHT FIXTURE
- 4" x 4' PENDANT LIGHT FIXTURE
- DOWNLIGHT RECESSED CAN LIGHT FIXTURE
- DOWNLIGHT EMERGENCY RECESSED CAN LIGHT FIXTURE
- WALL MOUNTED EXIT SIGN
- CEILING MOUNTED EXIT SIGN
- 2' x 2' SUPPLY AIR DIFFUSER
- 2' x 2' RETURN AIR GRILLE
- ACCESS PANEL
- OCCUPANCY SENSOR
- EXTERIOR WALL MOUNTED LIGHT FIXTURE

CEILING TYPES LEGEND

CF-02	GYPSUM BOARD OVER #9 (10 Ga) EXPENDED METAL MESH, PAINTED
CF-03	2' x 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
CF-07	GYPSUM BOARD, 5/8" MOISTURE RESISTANT, PAINTED
CF-15	5/8" GYPSUM BOARD OVER #9 (10 Ga) EXPENDED METAL MESH, ADHEARD ACT
CF-17*	SECURE, 1H FIRE RATED ACOUSTICAL CEILING ASSEMBLY STC -55, GA NO. WP 1015
EXP	EXPOSED TO ABOVE
MSP	EXTERIOR METAL SOFFIT PANEL

GENERAL SHEET NOTES

1. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
2. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O.
3. CENTER SPRINKLER HEADS IN ACOUST. CEILING PANELS WHERE THEY OCCUR. COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILINGS. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCES OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. COORDINATE ACCESS PANELS WITH MECHANICAL DRAWINGS.
5. SECURE FIRE RATED CEILING ON STRUCTURAL GRID REQUIRES ALL PENETRATION TO BE SECURED .
6. FOR SOUND TRANSMISSION CLASS RATING (STC) REFER TO ROOM FINISH SCHEDULE.

PN / TN

4 0 4 8 12

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

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REFLECTED CEILING PLAN

SHEET NUMBER

A121

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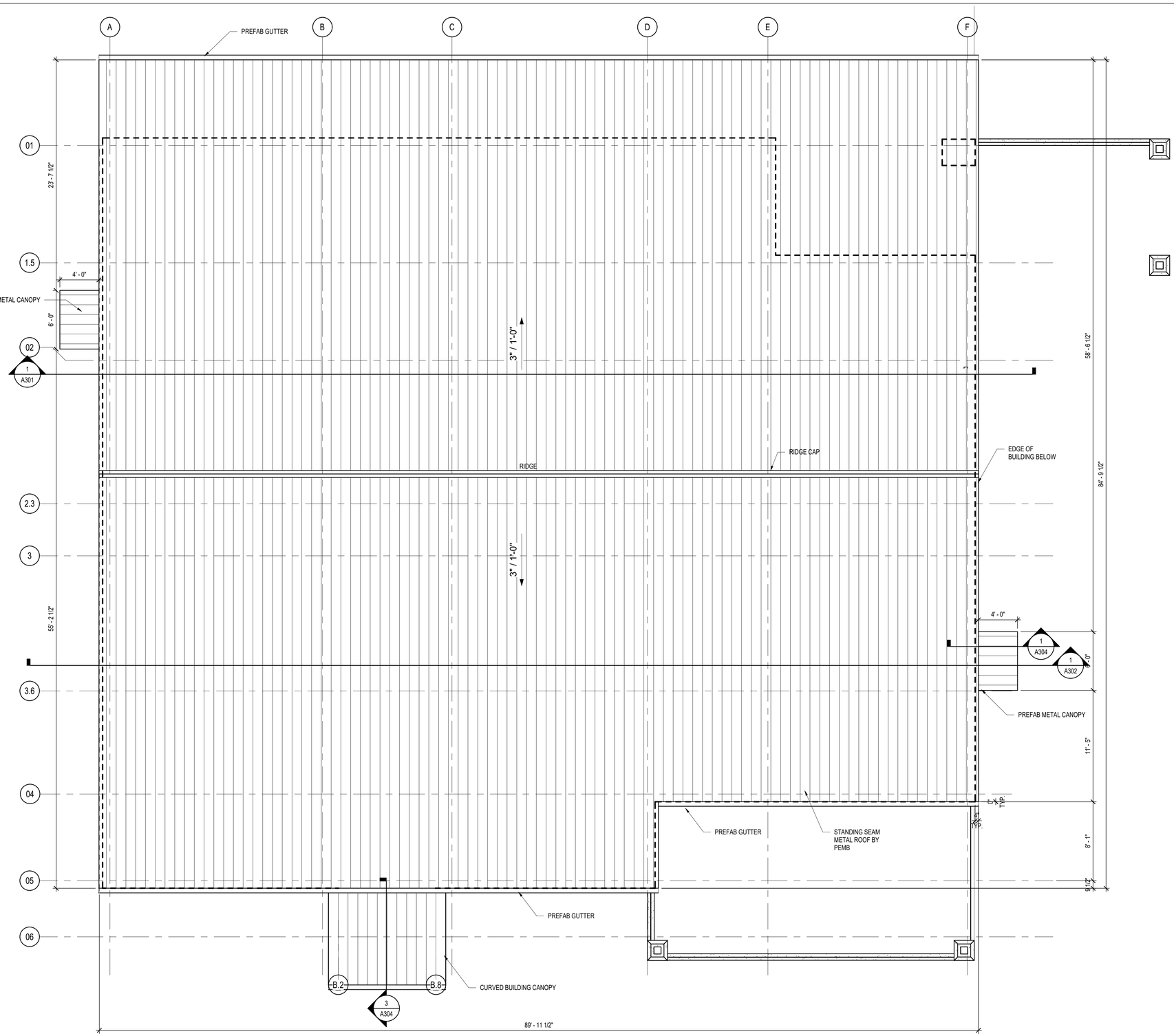

1 A131 ROOF PLAN

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

PN TN

4 0 4 8 12

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

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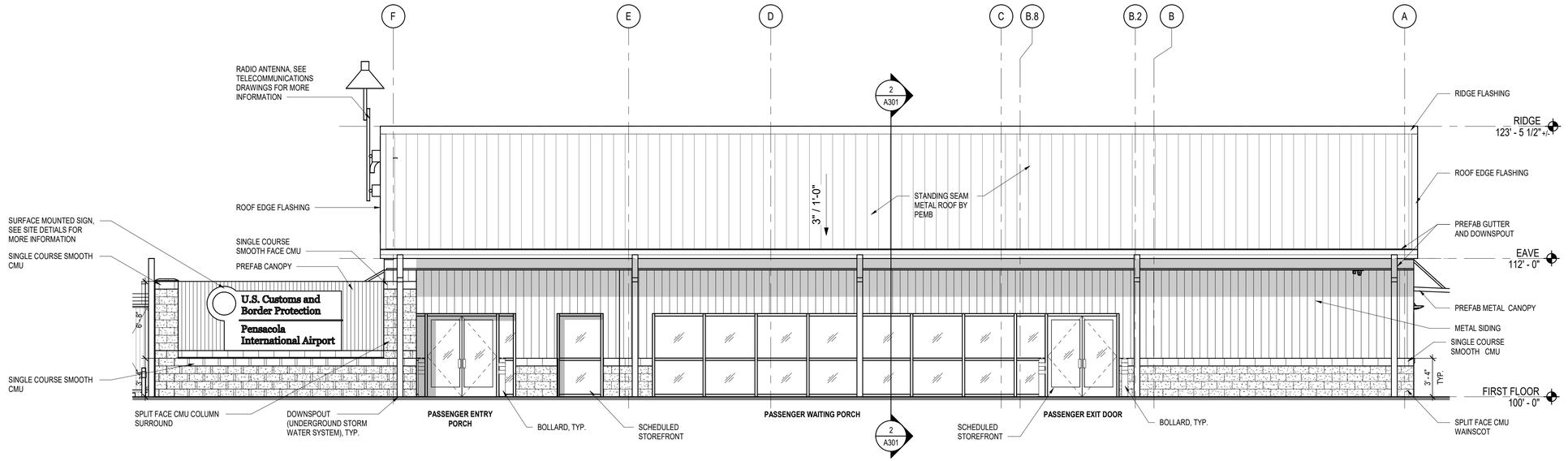
SHEET TITLE

ROOF PLAN

SHEET NUMBER

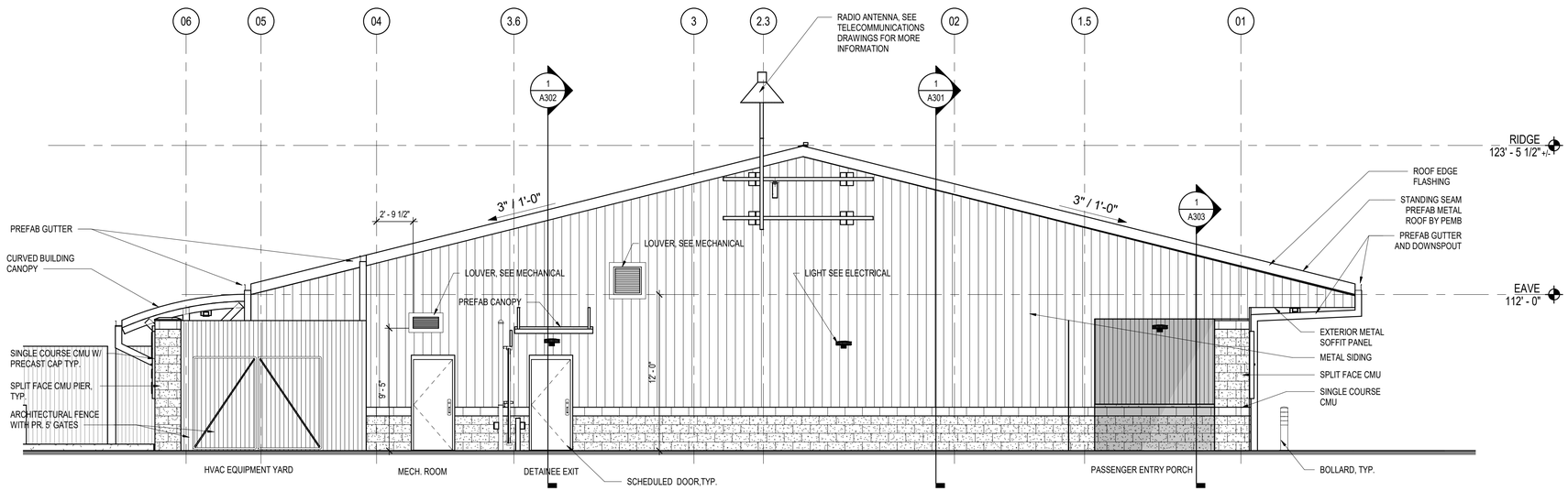
A131

BID DOCUMENTS



A1 / A201 NORTH ELEVATION

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



2 / A201 EAST ELEVATION

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

4 0 4 8 12

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

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REVISIONS

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DESIGNED BY:	MWR

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201-0052-002

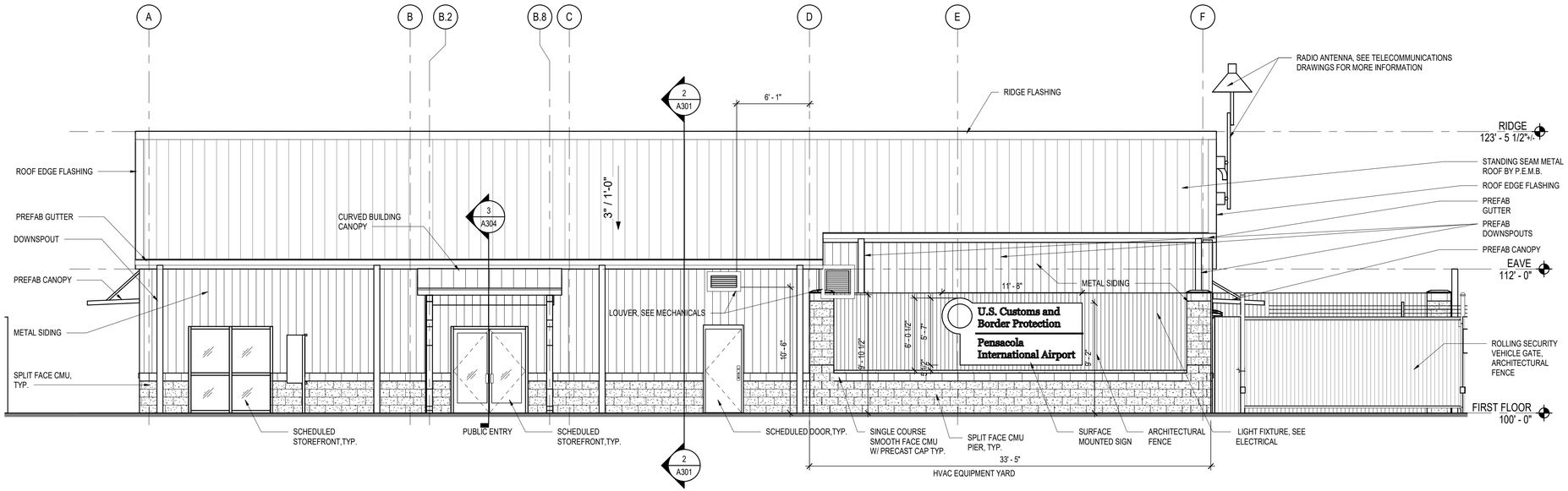
SHEET TITLE

BUILDING ELEVATIONS

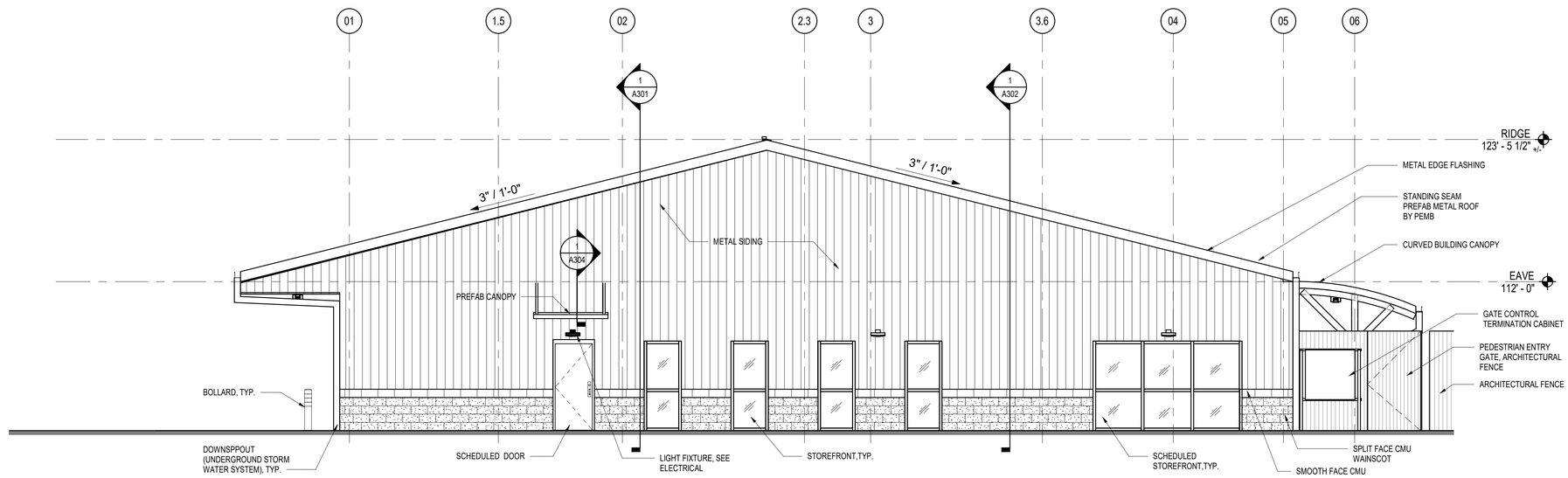
SHEET NUMBER

A201

BID DOCUMENTS



1 A202 **SOUTH ELEVATION**
SCALE: 3/16" = 1'-0"



2 A202 **WEST ELEVATION**
SCALE: 3/16" = 1'-0"

4 0 4 8 12
SCALE: 3/16" = 1'-0"

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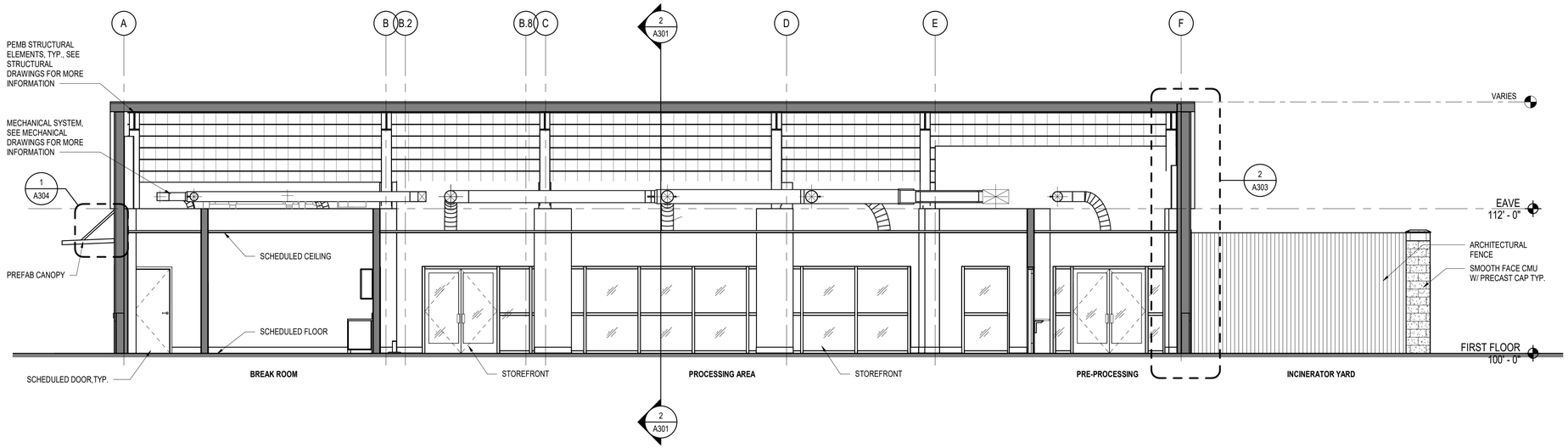
SHEET TITLE

BUILDING ELEVATIONS

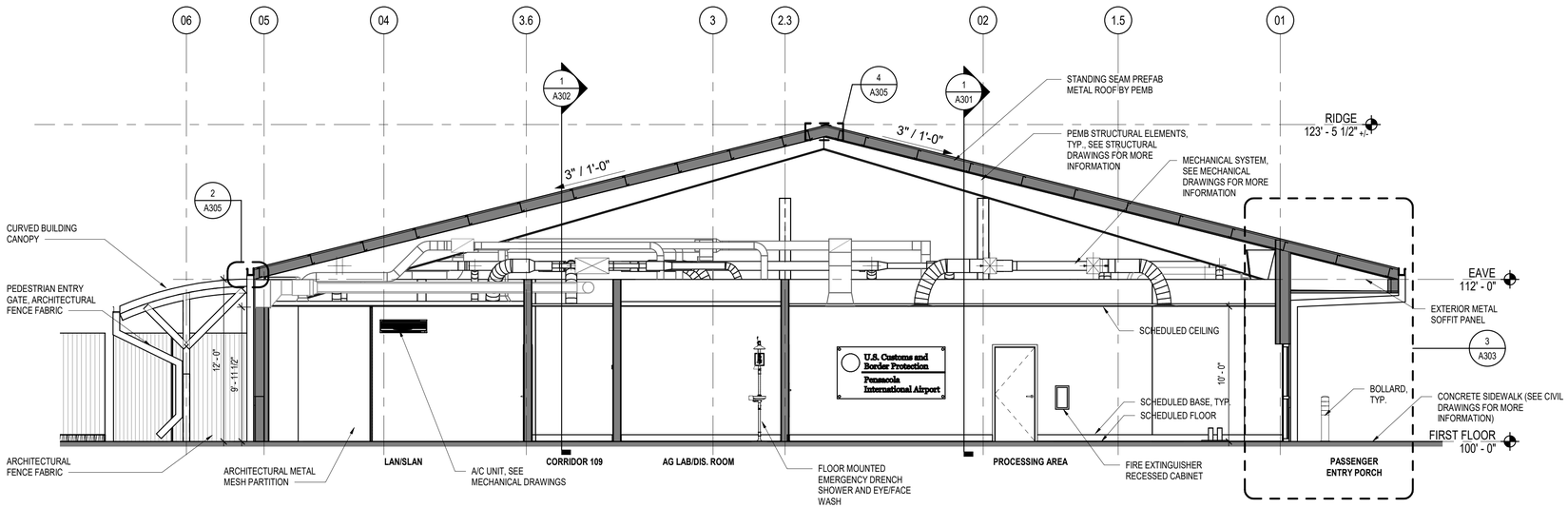
SHEET NUMBER

A202

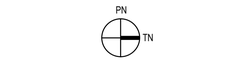
BID DOCUMENTS



1 A301 **LONGITUDINAL SECTION**
SCALE: 3/16" = 1'-0"



2 A301 **TRANSVERSE SECTION**
SCALE: 3/16" = 1'-0"



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

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BUILDING SECTIONS

SHEET NUMBER

A301

BID DOCUMENTS

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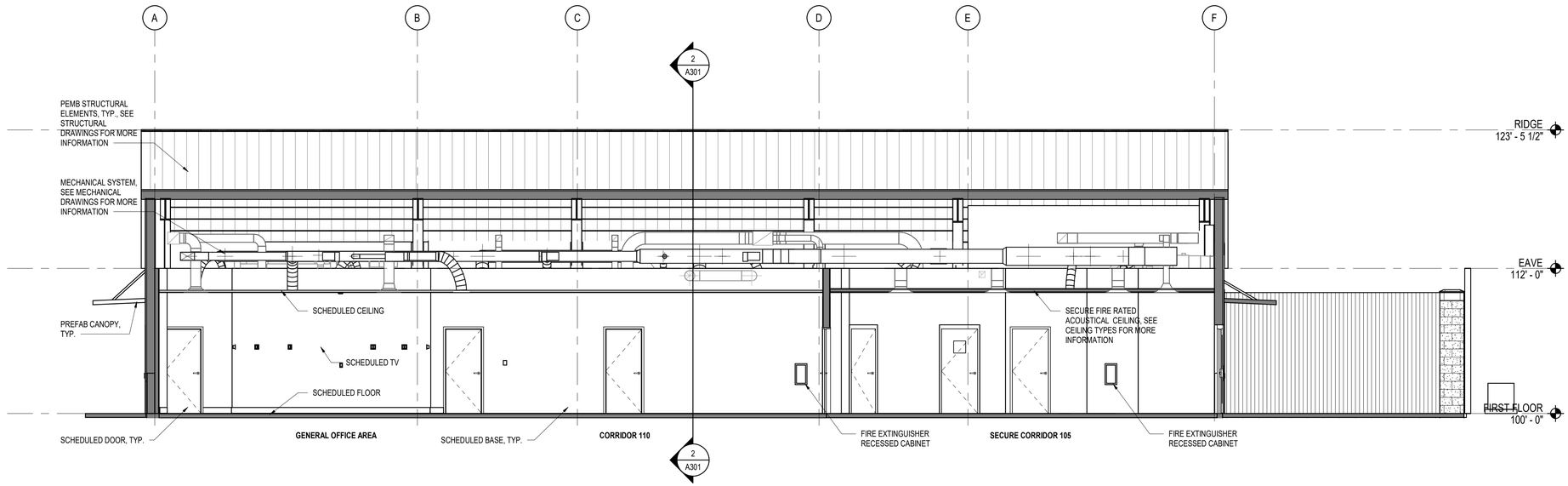

1 A302 LONGITUDIAL SECTION

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

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BUILDING SECTIONS

SHEET NUMBER

A302

BID DOCUMENTS

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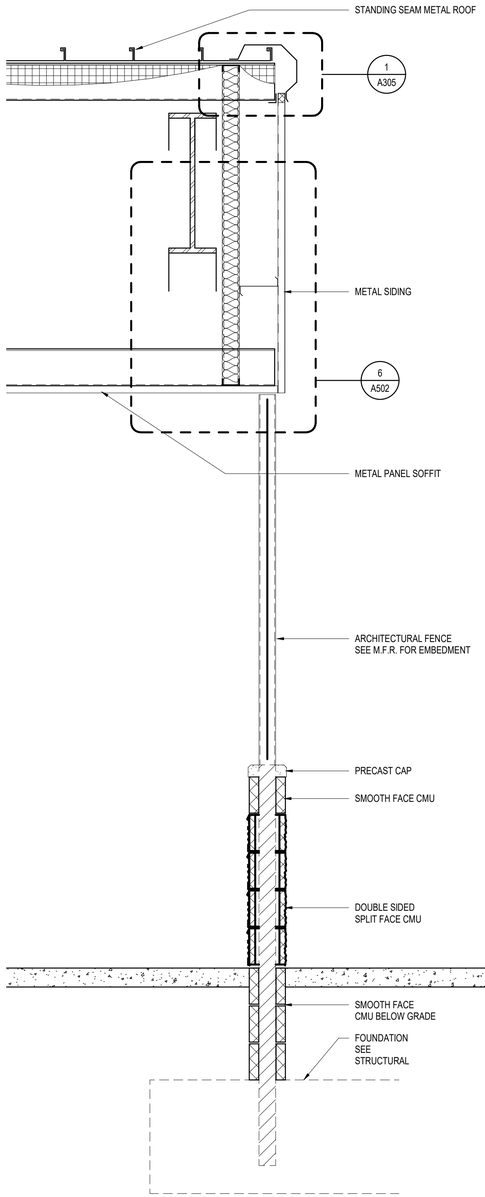
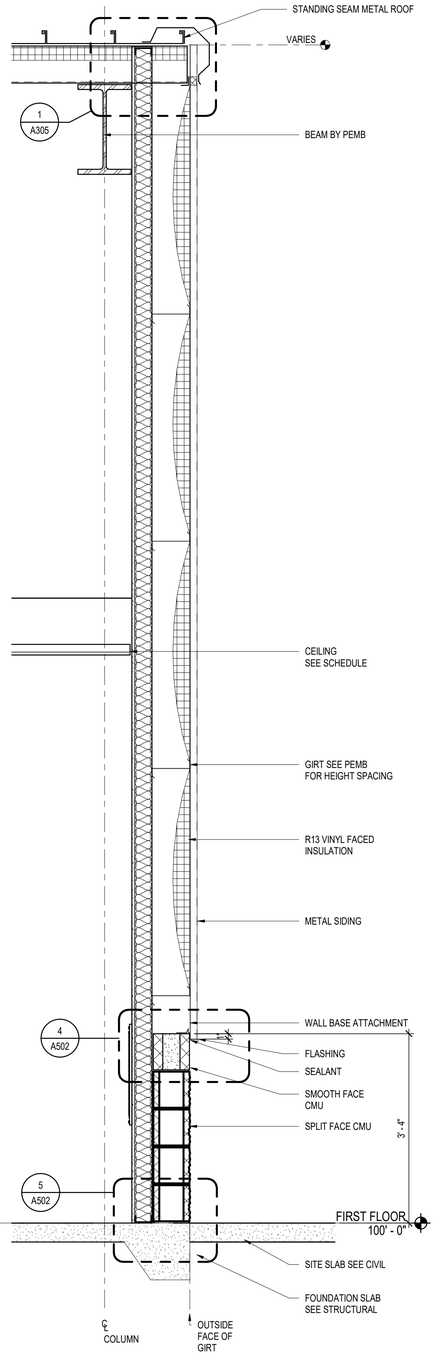


1 A303 WALL SECTION @ ENTRY
SCALE: 3/4" = 1'-0"



2 A303 WALL SECTION
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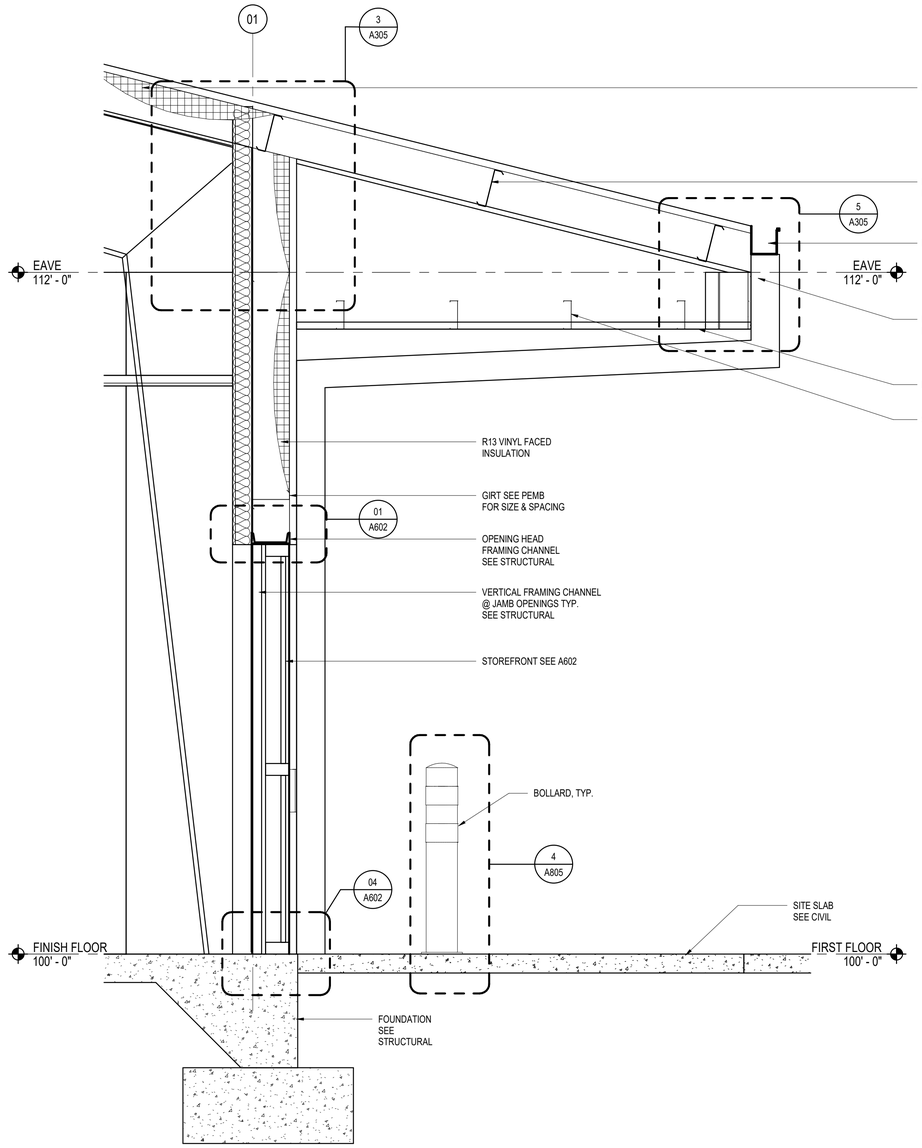

3 A303 WALL SECTION
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

SHEET NUMBER

A303

BID DOCUMENTS

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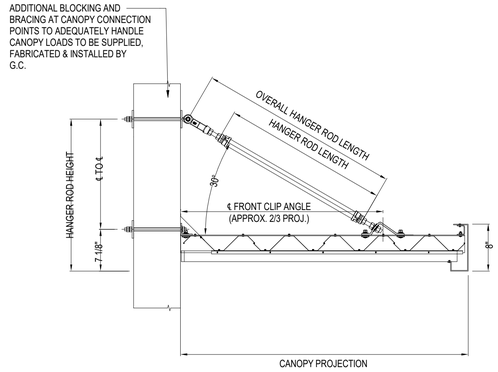
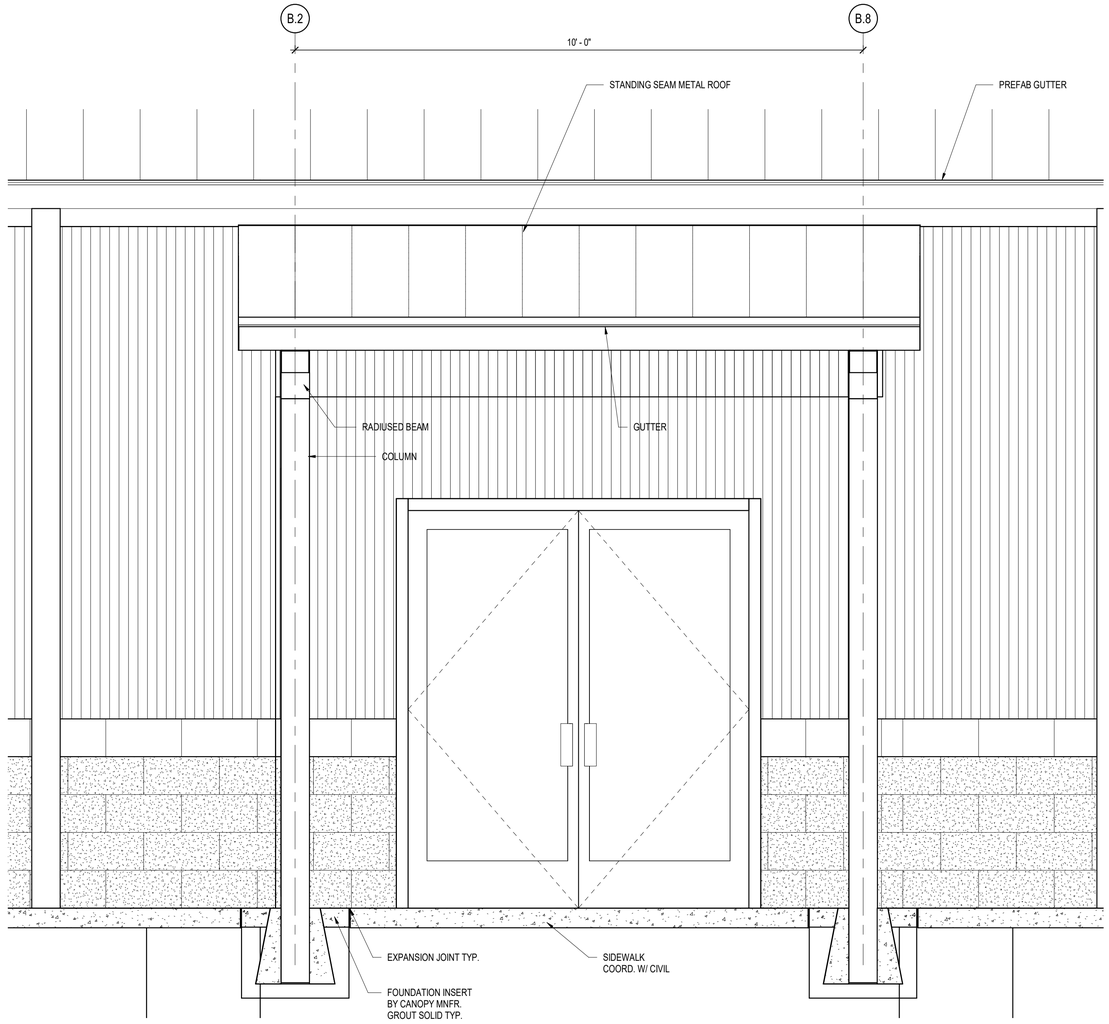


1 / A304 CANOPY SECTION

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

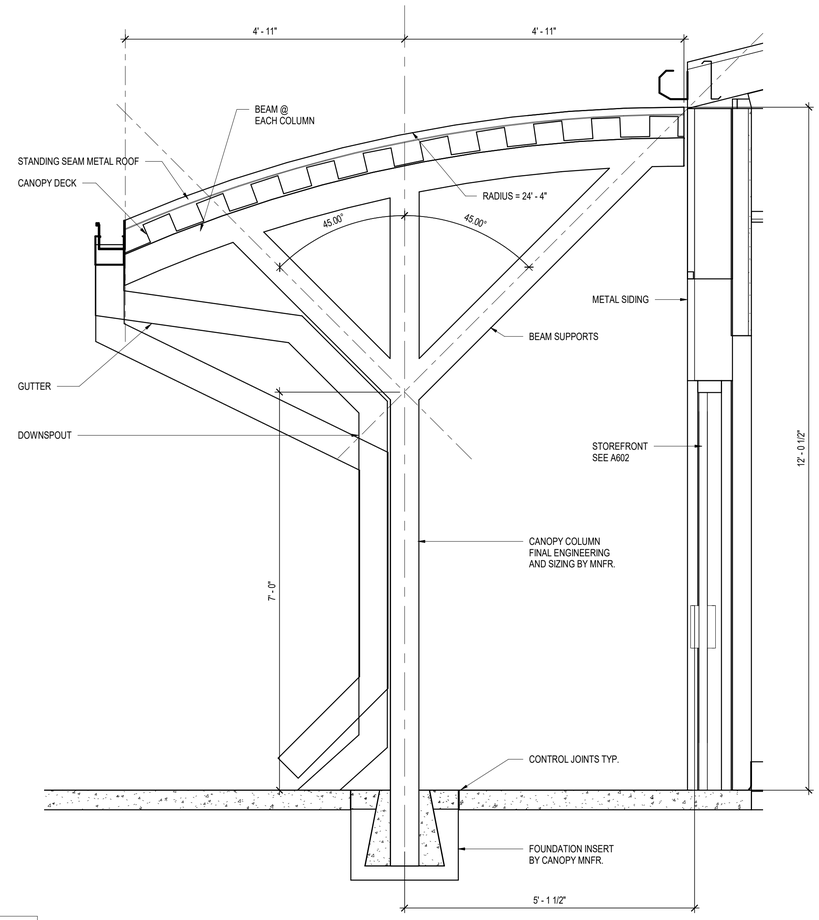


2 / A304 CURVED BUILDING CANOPY - ELEVATION

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

NOTE:

MAPES, CUSTOM ARCH, POST SUPPORTED, SUPER LUMIDECK, IS B.O.D. FOR CURVED BUILDING CANOPY



3 / A304 CURVED BUILDING CANOPY - SECTION

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

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EXTERIOR SECTIONS & DETAILS

SHEET NUMBER

A304

BID DOCUMENTS

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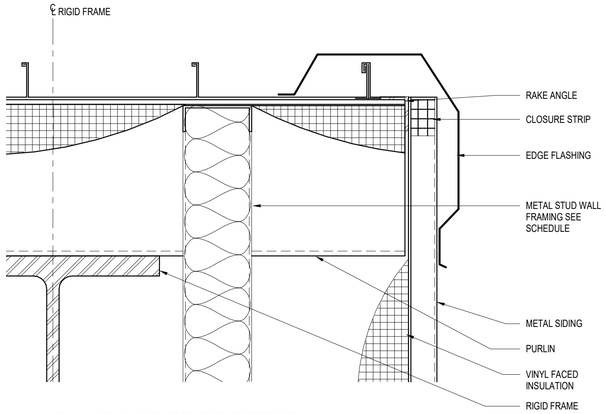
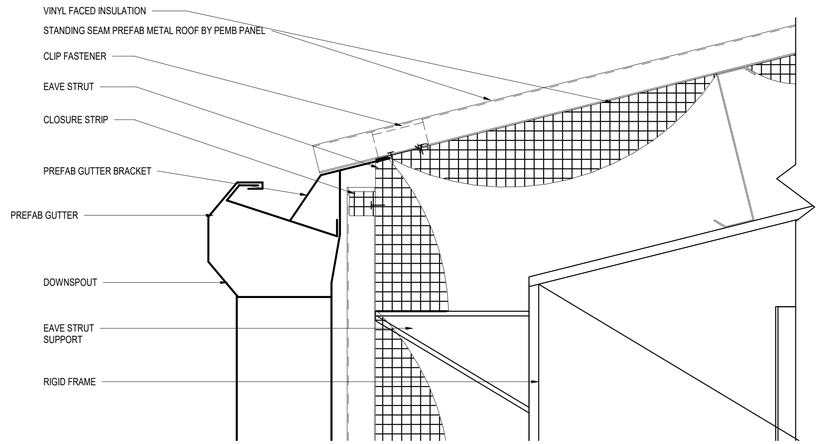
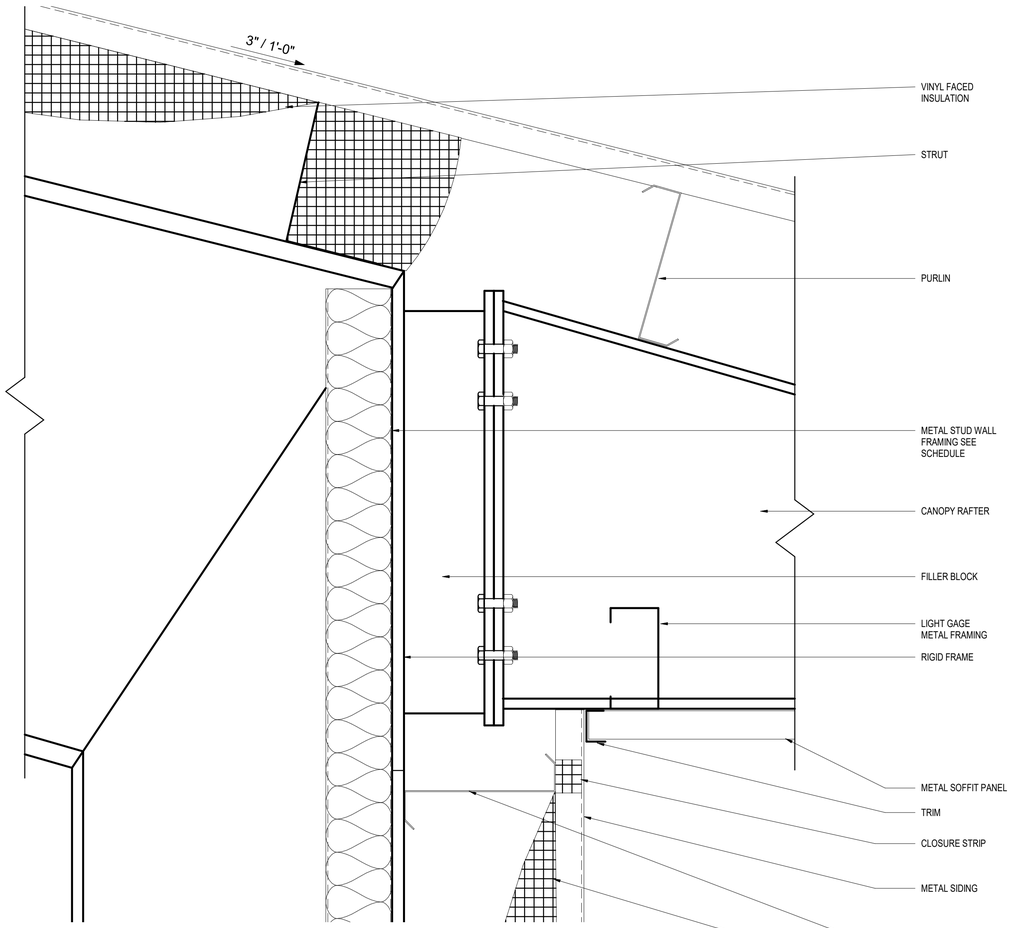


1 A305 ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



2 A305 ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



3 A305 ROOF DETAIL
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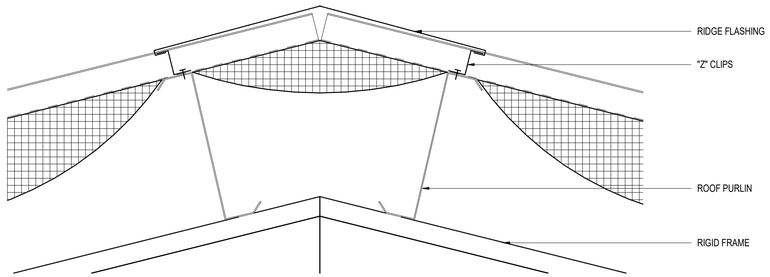
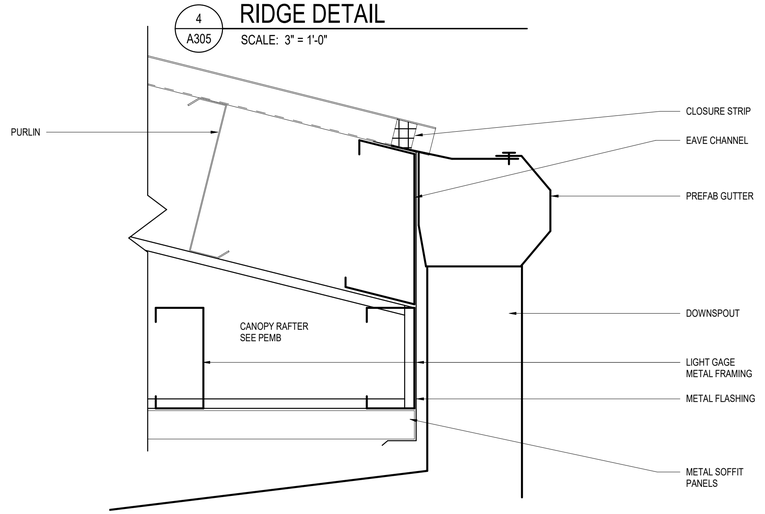


4 A305 RIDGE DETAIL
SCALE: 3" = 1'-0"



5 A305 ROOF EDGE DETAIL @ PORCH
SCALE: 3" = 1'-0"

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EXTERIOR DETAILS

SHEET NUMBER

A305

BID DOCUMENTS

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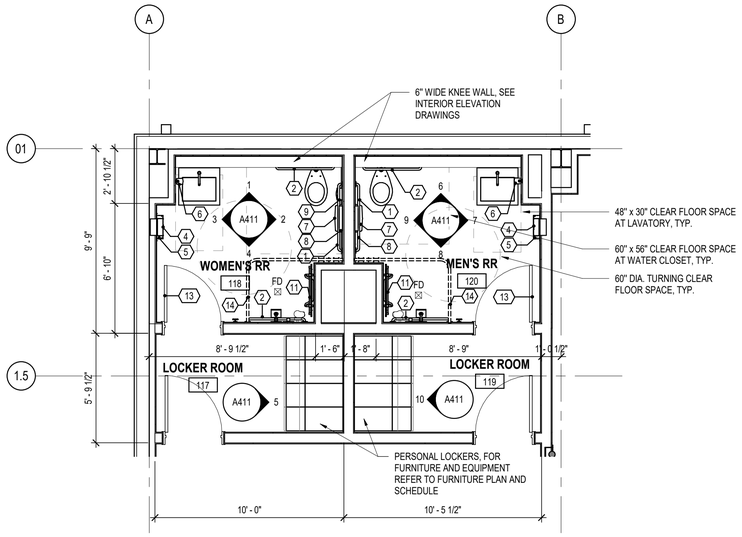
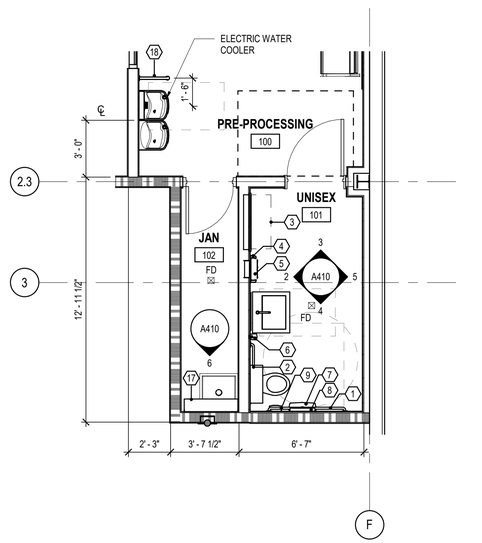


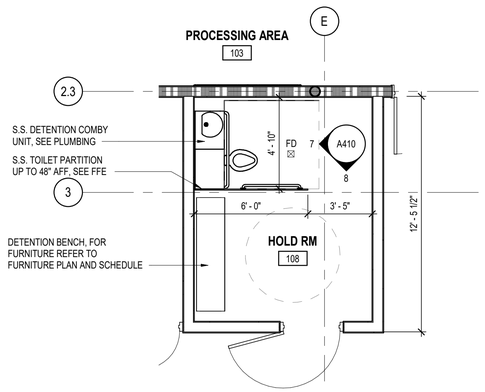
1 / A401 RESTROOM 118,120 & LOCKER ROOM 117,119

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



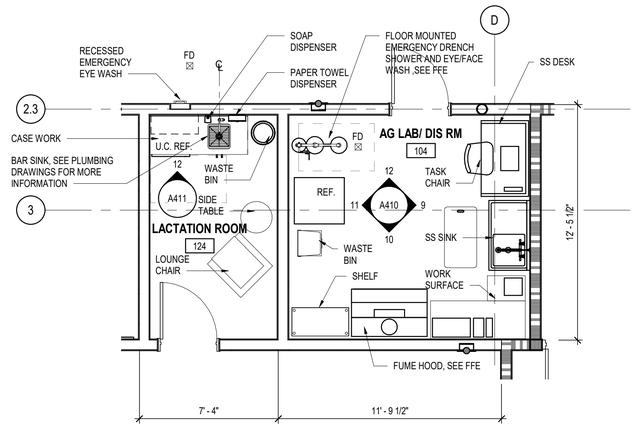
2 / A401 RESTROOM 101 & JANITOR 102

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



3 / A401 HOLD ROOM 108

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



4 / A401 LACTATION ROOM 124 & AG LAB/ DIS ROOM 104

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

NOTE: FOR FFE SEE SHEET A801

PN TN

4 0 4 8

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

TOILET ACCESSORY SCHEDULE

LABEL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARK
1	GRAB BAR, 42" L.	MOEN	90 DEGREE	CHROME
2	GRAB BAR, 36" L.	MOEN	90 DEGREE	CHROME
3	BABY CHANGING STATION	BOBRICK	KB110-SSRE	RECESSED
4	HAND TOWEL DISPENSER	GP ENMOTION	59466A	SS TOUCH-FREE, RECESSED
5	FLEX WASTE RECEPTACLE	GP PRO	59791	SS RECESSED FLEX RECEPTACLE
6	SOAP DISPENSER, SURFACE MOUNTED, TANK TYPE	GOJO	1919-04	CHROME
7	TOILET PAPER DISPENSER	KIMBERLY-CLARK	09608 09601	JRT, SURFACE MOUNTED
8	SEAT COVER DISPENSER	BOBRICK	B-221	SS, SURFACE MOUNTED, CAP:250
9	NAPKIN DISPOSAL	BOBRICK	B-270	SS, SURFACE MOUNTED
10	SS SHELF	BRADLEY	-	SS, SURFACE MOUNTED
11	SHOWER FOLD DOWN SEAT	INVISIA	SERENA SEAT WS-32-CRP	
12	MIRROR	BOBRICK	B-165 2436	
13	MIRROR	BOBRICK	B-165 2460	
14	CEILING SHOWER TRACK WITH CURTAIN	TRAX	L-SHAPED ALUMINUM	SOLID WHITE FABRIC LINER
15	12"X12" SS ACCESS PANEL	MIFAB	CAD-SS1212	CYLINDER LOCK, VANDAL RESISTANT
		MIFAB	MI-SADHSS1212	@ RM 101, 118, 120
16	COAT HOOK	MOEN	90 DEGREE	CHROME
17	MOP RACK	BRADLEY		SS, SURFACE MOUNTED
18	DRINKING FOUNTAIN GRAB BAR	BOBRICK	819298	SS, FLOOR MOUNTED

GENERAL SHEET NOTES

NOTES:
1. CONTRACTOR TO PROVIDE ALL BLOCKING AND FRAMING TO SUPPORT CEILING HUNG PARTITIONS AND SCREENS ABOVE CEILING AND IN WALLS
2. SEE SHEET A001 FOR ADA CLEARANCE AND MOUNTING HEIGHTS.
3. ALL OUTSIDE WALL CORNERES WITH TILES TO RECEIVE EDGE- PROTECTION PROFILES SCHLUTER - QUADEC AS B.O.D.
4. FOR FURNITURE AND EQUIPMENT REFER TO FFE PLAN AND SCHEDULE, SEE SHEET A801.

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SHEET TITLE

ENLARGED PLANS

SHEET NUMBER

A401

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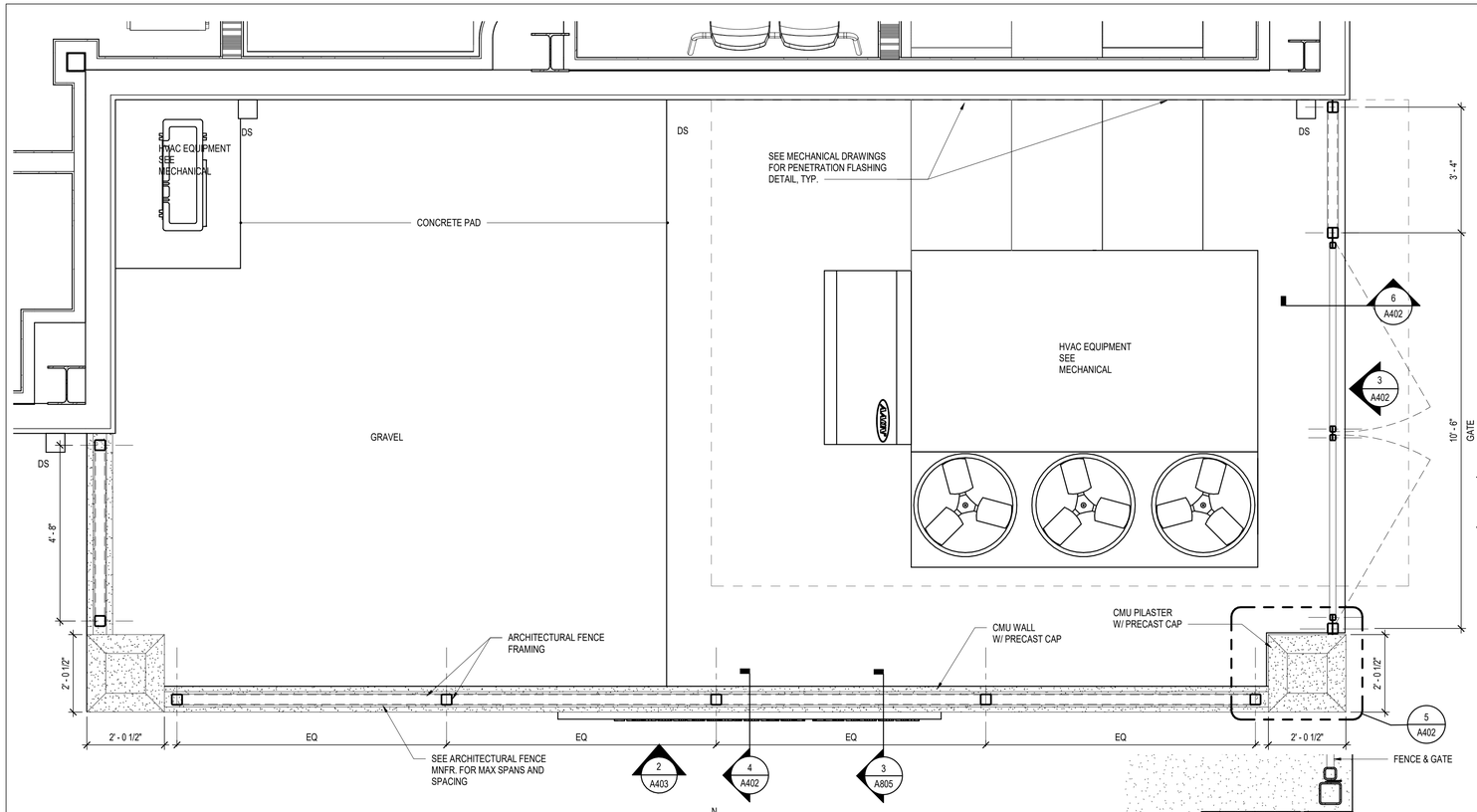
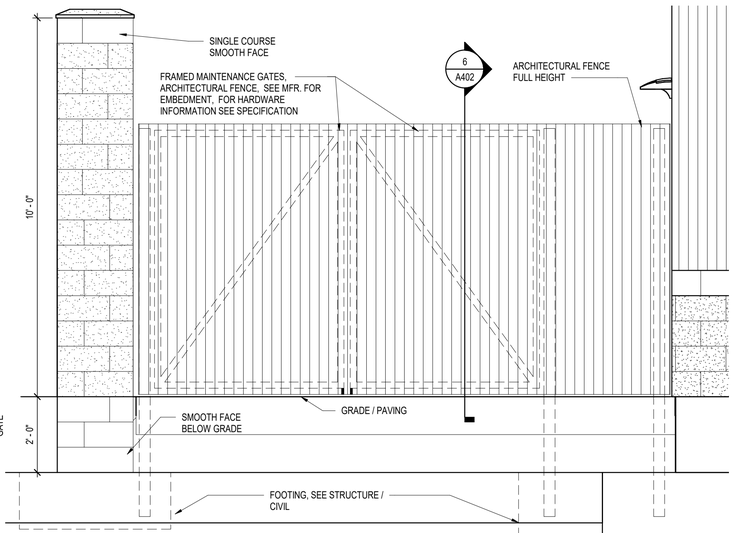


1 A402 ENLARGED HVAC SCREEN WALL PLAN

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

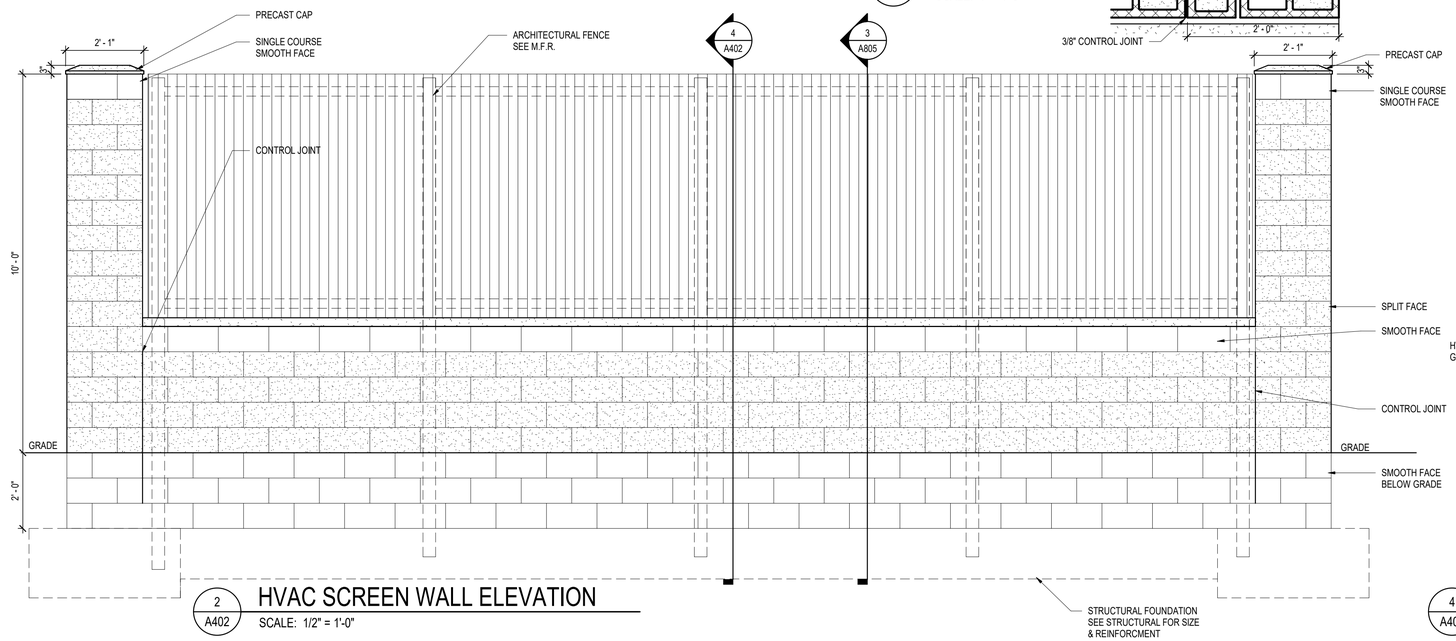


3 A402 HVAC SCREEN WALL & GATE ELEVATION

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

5 A402 PIER DETAIL

SCALE: 1" = 1'-0"

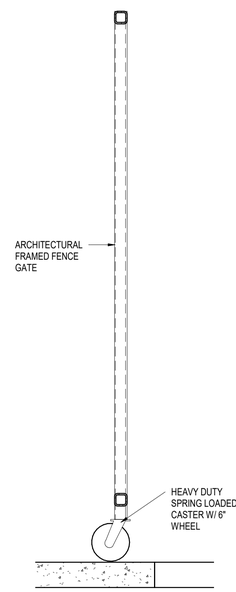


2 A402 HVAC SCREEN WALL ELEVATION

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

4 A402 SITE WALL SECTION @ HVAC YARD

SCALE: 1" = 1'-0"



6 A402 SECTION @ GATE

SCALE: 1" = 1'-0"

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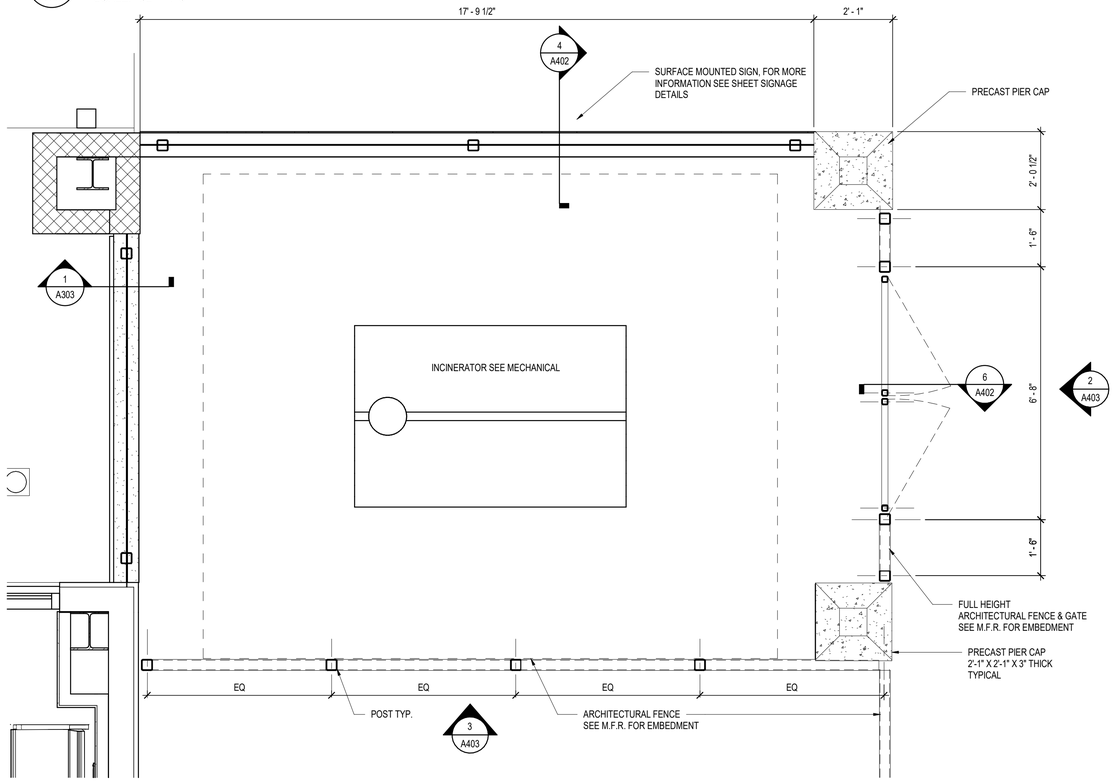
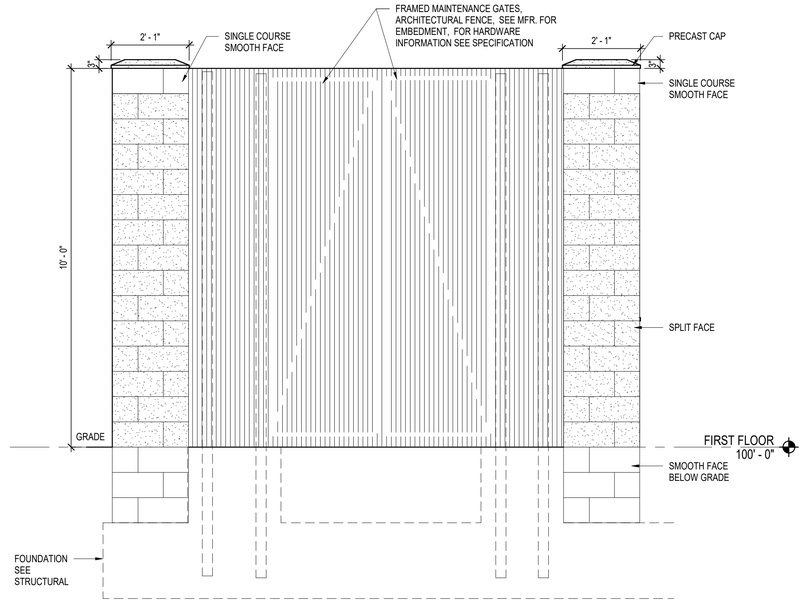
3 / A403 INCINERATOR WALL ELEVATION

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



1 / A403 ENLARGED INCINERATOR YARD PLAN

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



2 / A403 INCINERATOR GATE ELEVATION

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

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NO.	DESCRIPTION	DATE

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DRAWN BY:	Author
DESIGNED BY:	Designer

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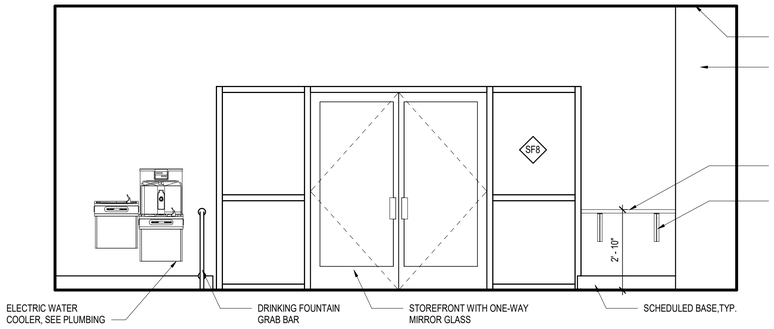
SHEET TITLE

ENLARGED INCINERATOR YARD ELEVATIONS & DETAILS

SHEET NUMBER

A403

BID DOCUMENTS



1 / A410 PRE-PROCESSING 100
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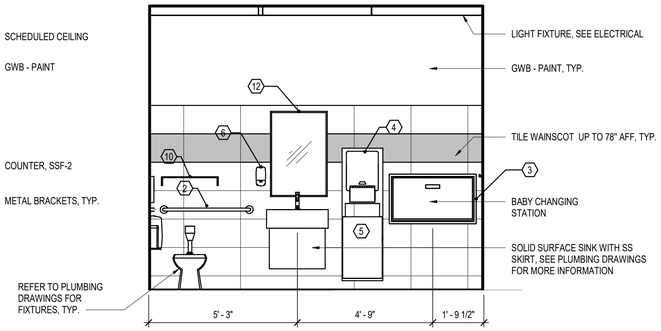

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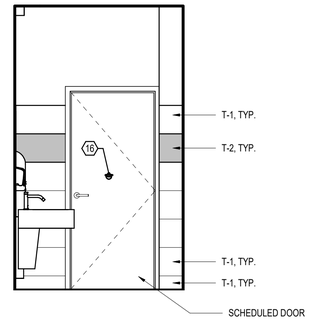

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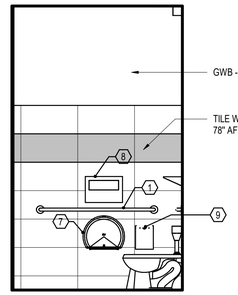

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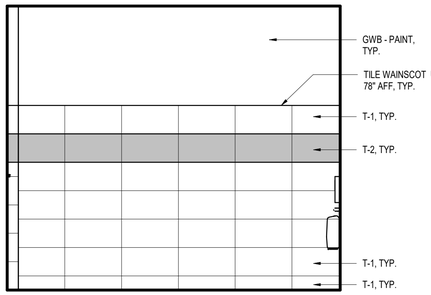

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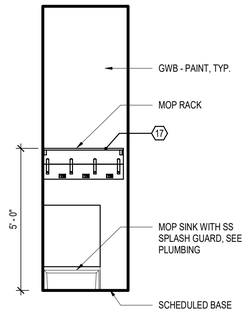

6 / A410 JANITOR 102
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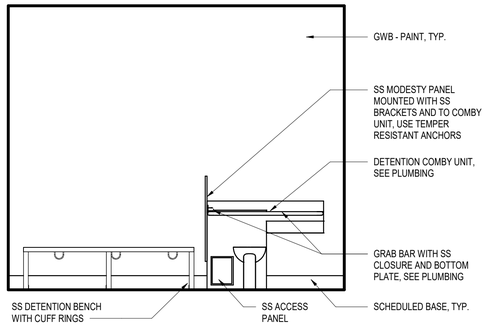

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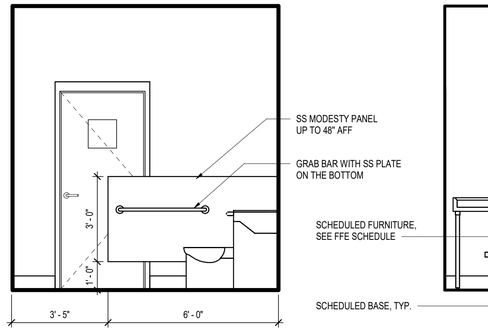
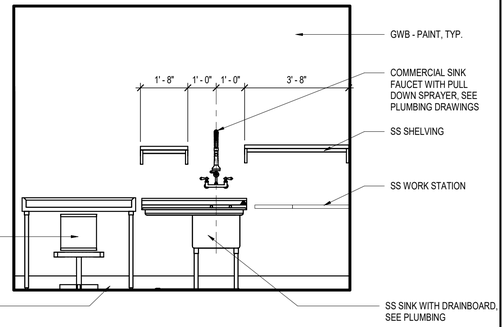


8 / A410 HOLD ROOM 108
SCALE: 3/8" = 1'-0"



9 / A410 AG LAB/ DISPOSAL ROOM
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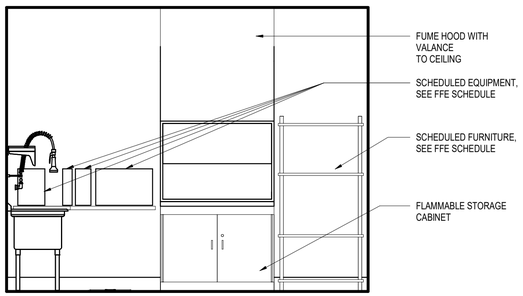

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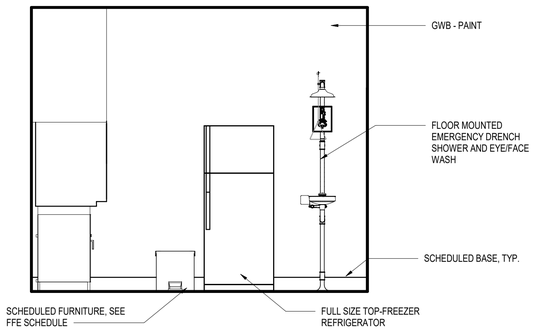
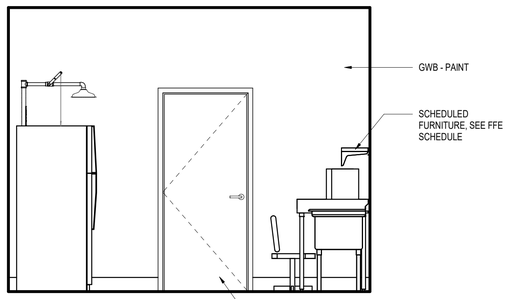


11 / A410 AG LAB/ DISPOSAL ROOM
SCALE: 3/8" = 1'-0"



12 / A410 AG LAB/ DISPOSAL ROOM
SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A001 FOR ADA CLEARANCE AND MOUNTING HEIGHTS.
2. SEE SHEET A401 FOR TOILET ACCESSORY SCHEDULE
3. SEE SHEET A801 FOR FURNITURE AND EQUIPMENT SCHEDULE.
4. ALL OUSIDE TILE CORNERS AND TOP OF TILE TO RECEIVE STAINLESS STEEL EDGE PROTECTION PROFILE - SCHLUTER, QUADEC AS B.O.D.

4 0 4 8
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DATE ISSUED:	03/03/2020
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DRAWN BY:	JKS
DESIGNED BY:	MWR

PROJECT NUMBER:
201-0052-002

SHEET TITLE

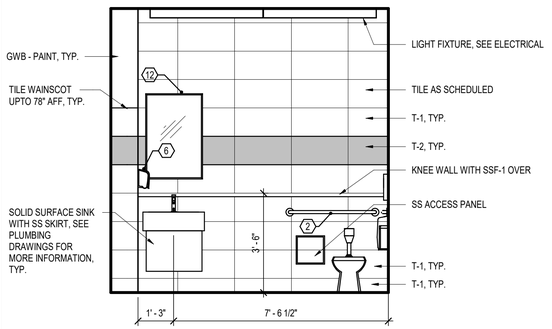
INTERIOR ELEVATIONS

SHEET NUMBER

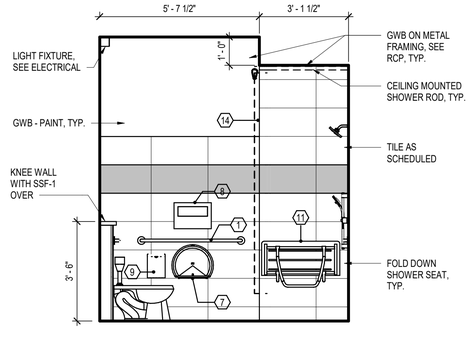
A410

BID DOCUMENTS

Sheet Size: ARCH E 22X34



1 A411 WOMEN'S 118
SCALE: 3/8" = 1'-0"



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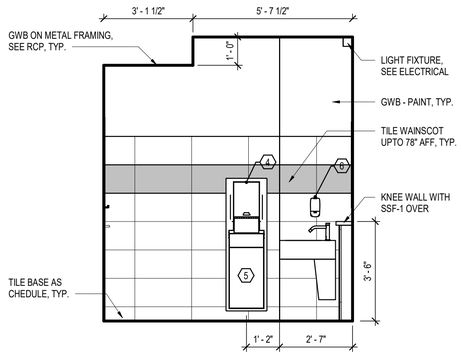

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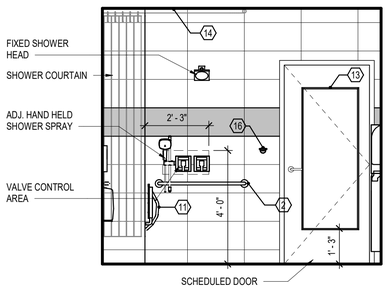

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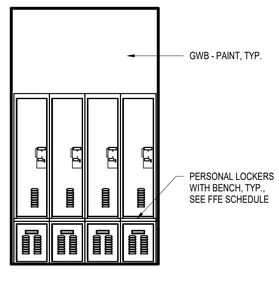

5 A411 LOCKER ROOM 117
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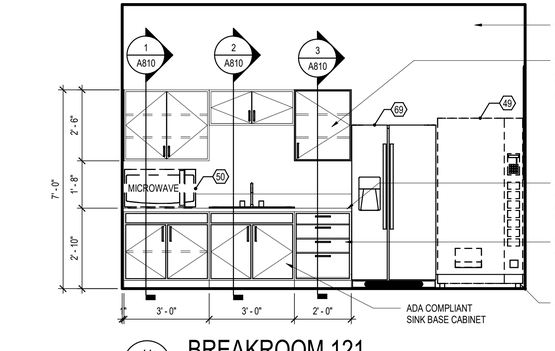

6 A411 MEN'S 120
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7 A411 MEN'S 120
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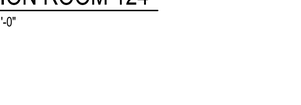

8 A411 MEN'S 120
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9 A411 MEN'S 120
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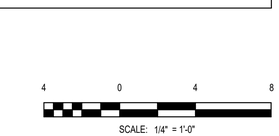

10 A411 LOCKER ROOM 119
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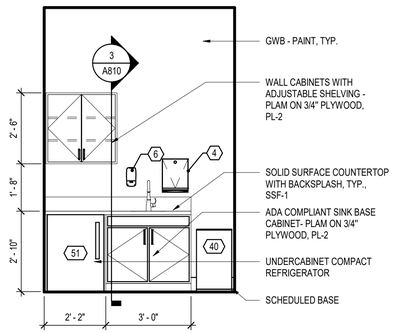
11 A411 BREAKROOM 121
SCALE: 3/8" = 1'-0"



12 A411 LACTATION ROOM 124
SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A001 FOR ADA CLEARANCE AND MOUNTING HEIGHTS.
2. SEE SHEET A401 FOR TOILET ACCESSORY SCHEDULE
3. SEE SHEET A801 FOR FURNITURE AND EQUIPMENT SCHEDULE.
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DATE ISSUED:	03/03/2020
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DRAWN BY:	JKS
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201-0052-002

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A411

BID DOCUMENTS

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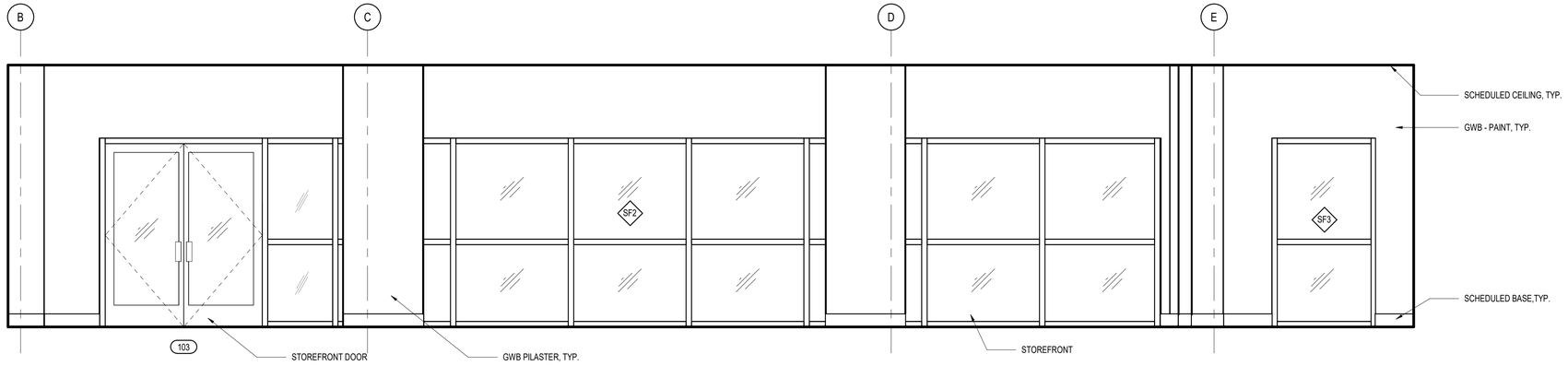
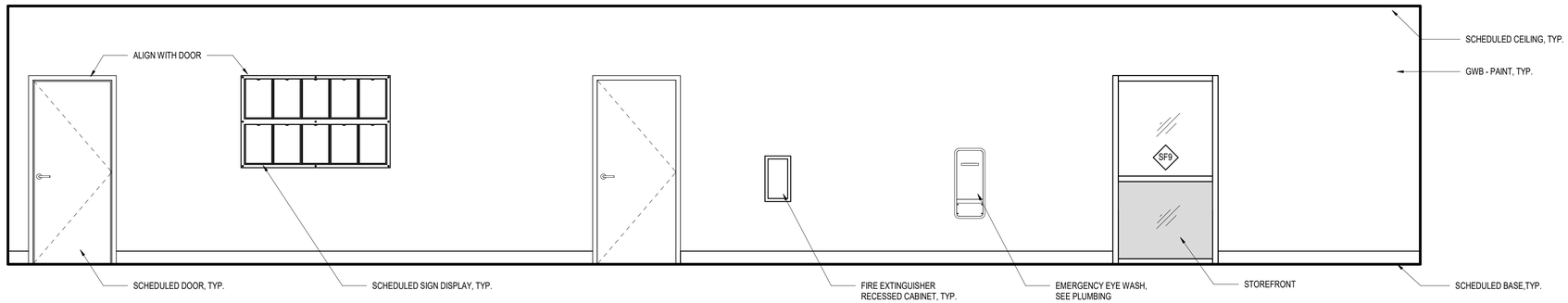


1 / A412 PROCESSING AREA 103
SCALE: 3/8" = 1'-0"



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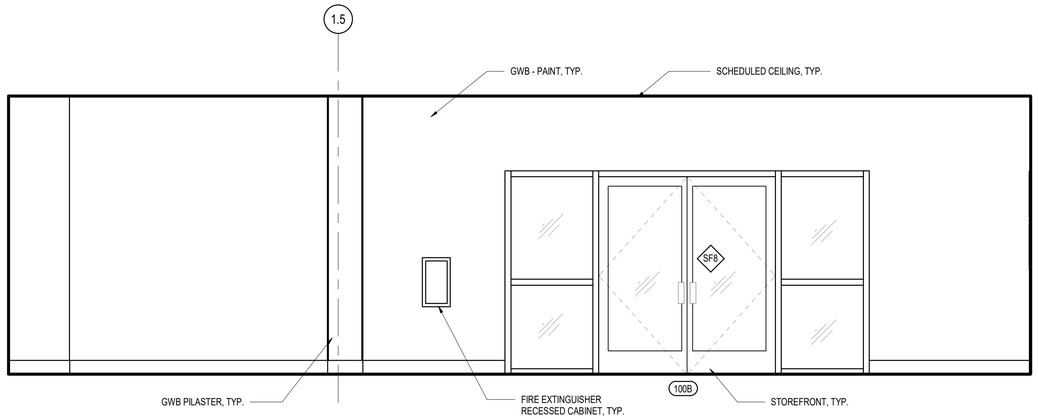

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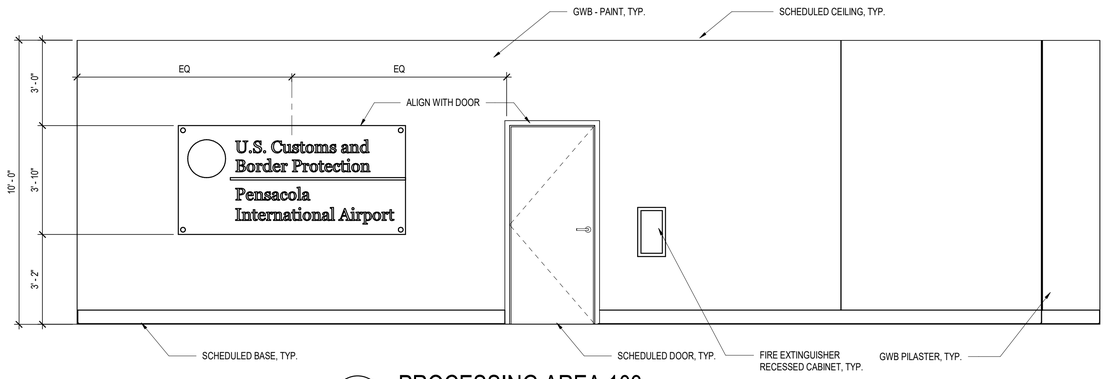

4 / A412 PROCESSING AREA 103
SCALE: 3/8" = 1'-0"

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SCALE: 3/8" = 1'-0"

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DESIGNED BY:	MWR

PROJECT NUMBER:
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SHEET NUMBER

A412

BID DOCUMENTS

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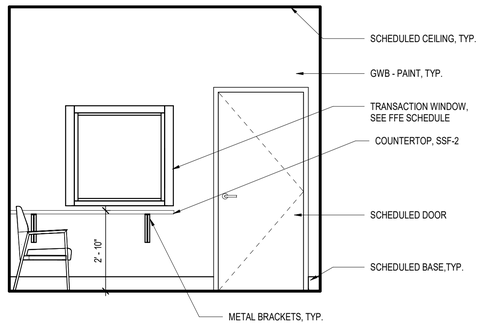

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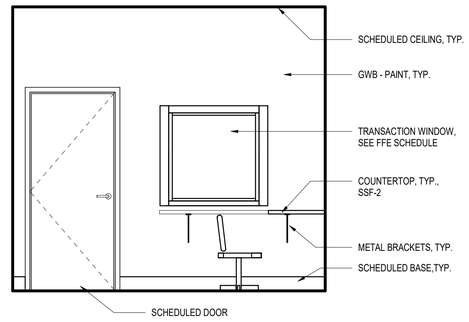

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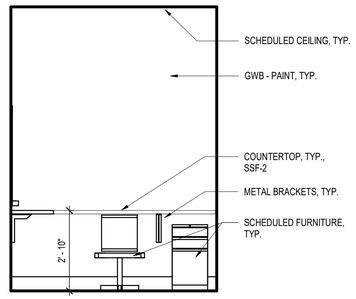

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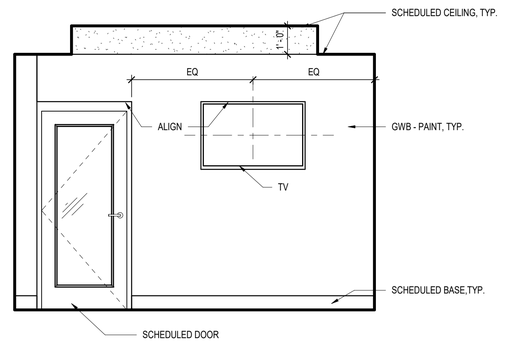

4 A413 **CONFERENCE ROOM 116**
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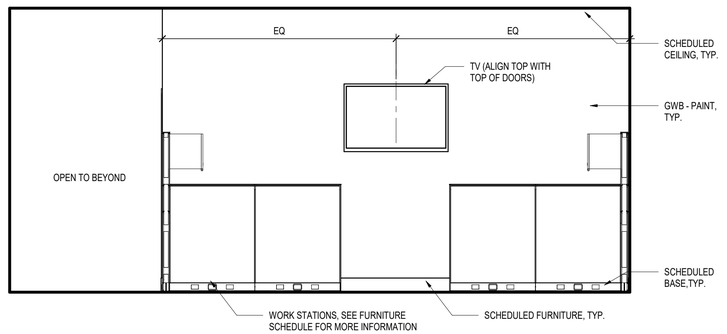

5 A413 **GENERAL OFFICE 122**
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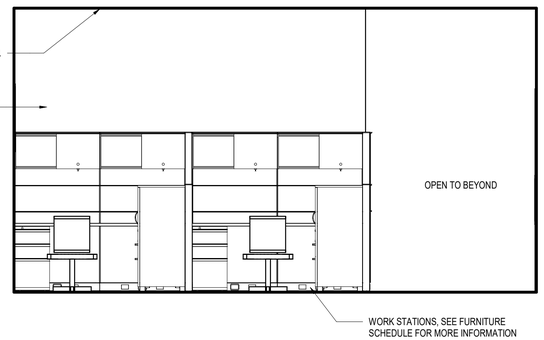

6 A413 **GENERAL OFFICE 122**
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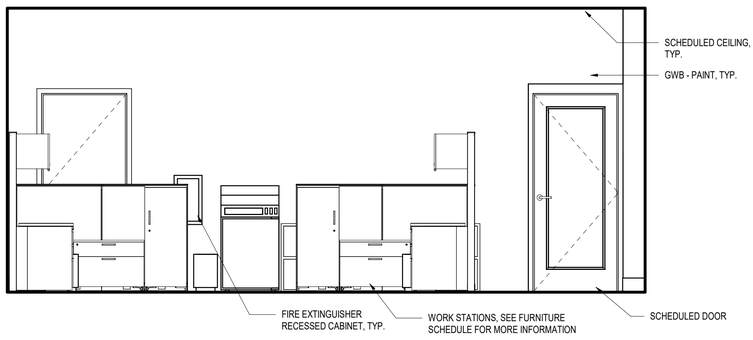

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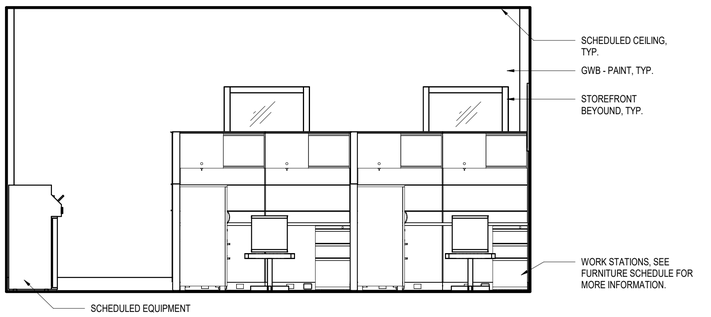

8 A413 **GENERAL OFFICE 121**
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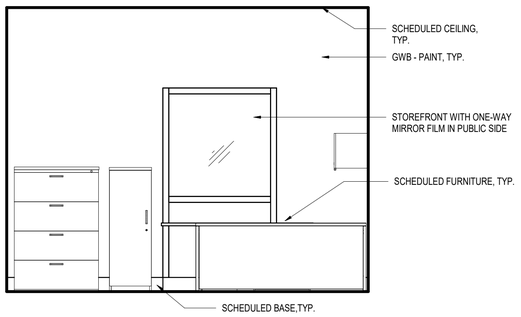

9 A413 **SUPERVISOR OFFICE 122**
SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A001 FOR ADA CLEARANCE AND MOUNTING HEIGHTS.
2. SEE SHEET A401 FOR TOILET ACCESSORY SCHEDULE
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4 0 4 8
SCALE: 1/4" = 1'-0"

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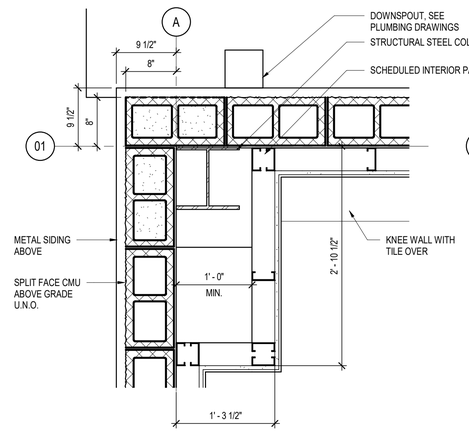

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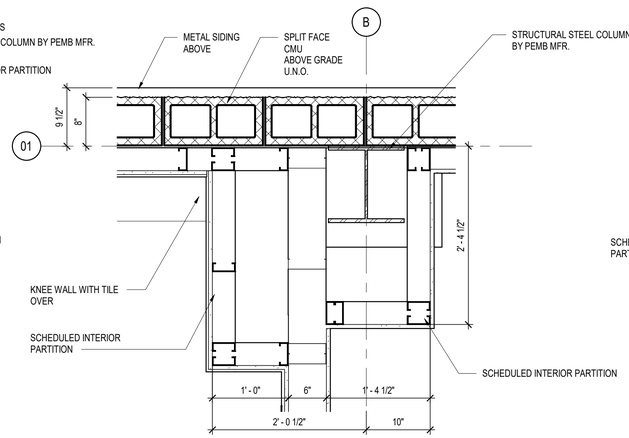

2 A501 PLAN DETAIL
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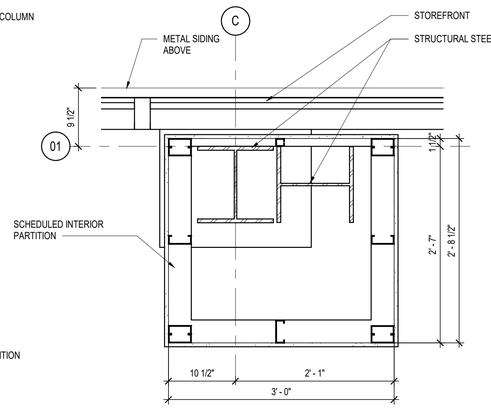

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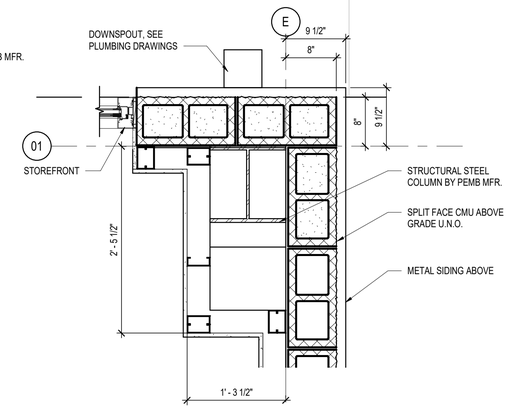

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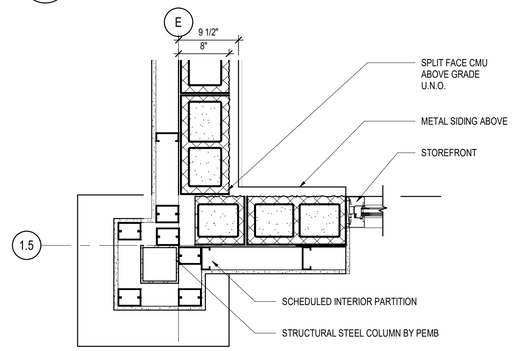

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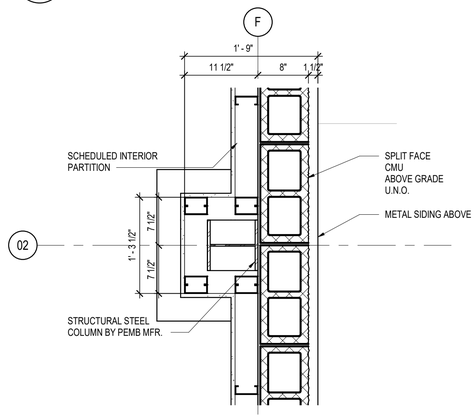

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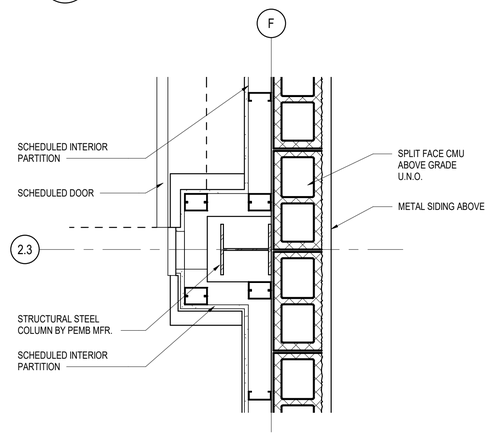

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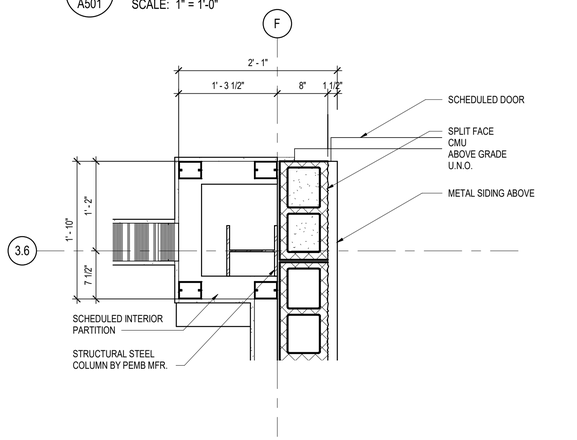

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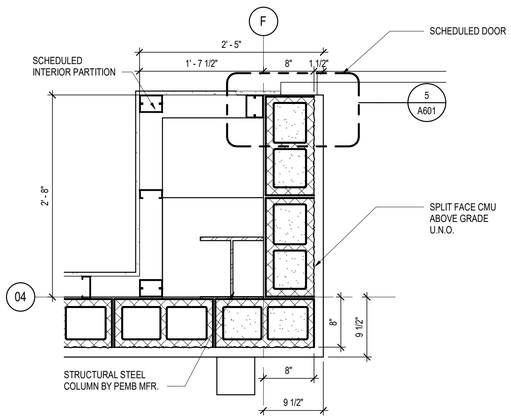

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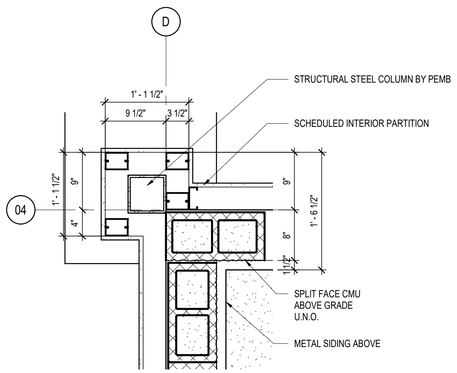
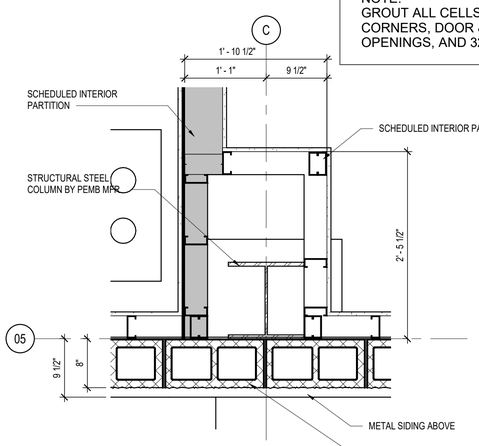


10 A501 PLAN DETAIL
SCALE: 1" = 1'-0"

NOTE:
GROUT ALL CELLS AT INSIDE/OUTSIDE CORNERS, DOOR & STOREFRONT OPENINGS, AND 32" O.C. MAX.



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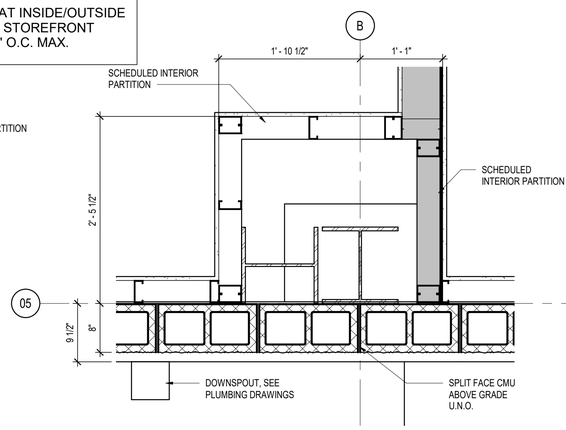

12 A501 PLAN DETAIL
SCALE: 1" = 1'-0"

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

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SG
DRAWN BY:	JKS
DESIGNED BY:	MWR

PROJECT NUMBER:
201-0052-002

SHEET TITLE

DETAILS

SHEET NUMBER

A501

BID DOCUMENTS

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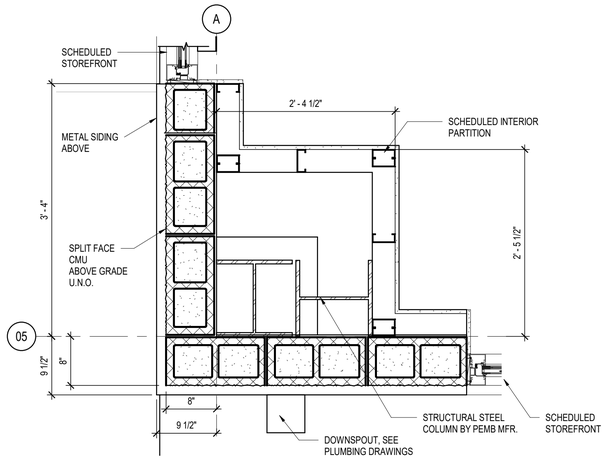

1 A502 **PLAN DETAIL**

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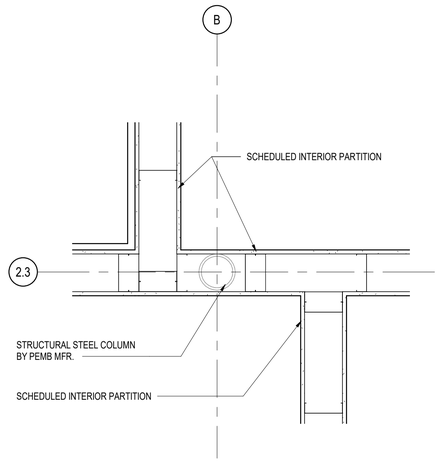

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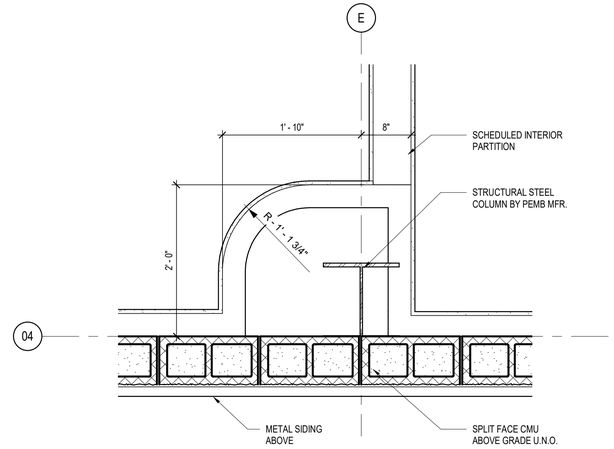

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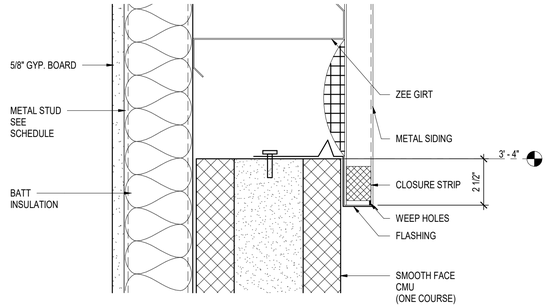

4 A502 **CMU TO METAL SIDING TRANSITION DETAIL**

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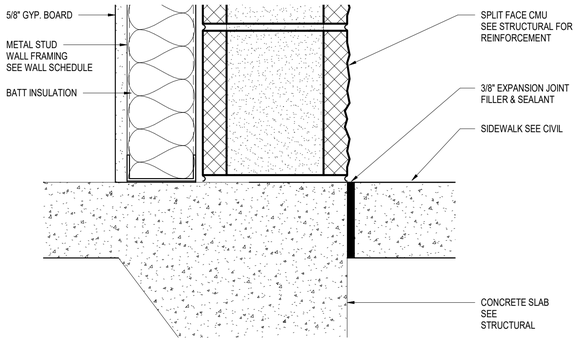

5 A502 **EXTERIOR WALL BASE DETAIL**

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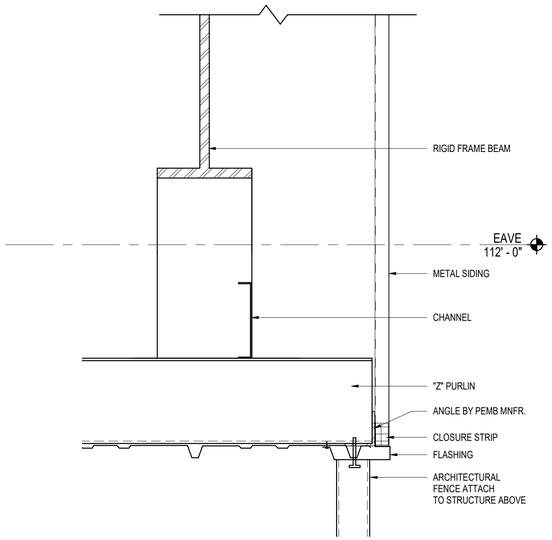

6 A502 **SOFFIT EDGE DETAIL**

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

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REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
201-0052-002

SHEET TITLE

DETAILS

SHEET NUMBER

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Sheet Size: ARCH E 22X34

DOOR SCHEDULE

DOOR NO	ROOM NAME	DOOR DIMENSIONS			DOOR TYPE	FRAME TYPE	DETAILS			FIRE RATING	COMMENTS
		WIDTH	HEIGHT	THCK.			HEAD	JAMB	SILL		
100A	PRE-PROCESSING AREA	6' - 0"	7' - 0"		GL-01	AL-1	1/A602	2&3/A602	4/A602		
100B	PRE-PROCESSING 100	6' - 2 1/2"	6' - 11 1/2"		GL-03	AL-2	1/A601	1/A601	2/A601		
101	UNISEX 101	3' - 0"	7' - 0"	0' - 1 3/4"	B-B	HM-1	3/A601	3/A601	4/A601		
102	JANITOR	2' - 6"	7' - 0"	0' - 1 3/4"	B-B	HM-1	3/A601	3/A601	4/A601		
103	PROCESSING AREA	6' - 0"	7' - 0"		GL-01	AL-1	1/A602	2&3/A602	4/A602		
104	AG LAB/ DIS ROOM 104	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
105A	CORRIDOR 105	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-3	3/A601	3/A601	4/A601	1H	
105B	CORRIDOR	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-05	HM-4	7/A601	5/A601	8/A601		
105C	CORRIDOR 105	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-3	3/A601	3/A601	4/A601	1H	
106	INTERVIEW ROOM 106	3' - 0"	7' - 0"	0' - 1 3/4"	D	HM-2	3/A601	3/A601	4/A601		TYPE D- NO VISION PANEL
107	SEARCH ROOM 107	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-03	HM-3	3/A601	3/A601	4/A601		
108	HOLD ROOM 108	3' - 0"	7' - 0"	0' - 1 3/4"	D	HM-3	3/A601	3/A601	4/A601		
109	CHASE 109	2' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
110A	CORRIDOR 110	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
110B	CORRIDOR	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-05	HM-4	7/A601	5/A601	8/A601		
111A	SECURE STORAGE 111	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	WS-1	3/A601	3/A601	4/A601		
111B	SECURE STORAGE 111	3' - 6"	10' - 0"		MSLG	-					ARCHITECTURAL METAL SLIDING GATE TO CLG.
112A	LAN/SLAN 112	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
112B	LAN/SLAN 112	3' - 6"	10' - 0"		MSLG	-					ARCHITECTURAL METAL SLIDING GATE TO CLG.
113A	ENTRANCE OFFICE 113	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-04	HM-1	3/A601	3/A601	4/A601		
113B	PUBLIC LOBBY 114	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-06	HM-1	3/A601	3/A601	4/A601		BULLET RESISTANT, DOOR TYPE LEVEL 3
114	PUBLIC LOBBY	6' - 0"	7' - 0"		GL-01	AL-1	1/A602	2&3/A602	4/A602		
115	GENERAL STORAGE 115	3' - 0"	7' - 0"	0' - 1 3/4"	A-A	HM-1	3/A601	3/A601	4/A601		
116	CONFERENCE ROOM 116	3' - 0"	7' - 0"	0' - 1 3/4"	A-A	HM-1	3/A601	3/A601	4/A601		
117	LOCKER ROOM 117	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
118	WOMEN'S RR 118	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
119	LOCKER ROOM 119	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
120	MEN'S RR 120	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
121	BREAK ROOM 121	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
123	SUPERVISOR OFFICE 123	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-01	HM-1	3/A601	3/A601	4/A601		
124	LACTATION ROOM 124	3' - 0"	7' - 0"	0' - 1 3/4"	A-A	HM-1	3/A601	3/A601	4/A601		
125	ELECTRICAL	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-05	HM-4	7/A601	5/A601	8/A601		
126	MECHANICAL	3' - 0"	7' - 0"	0' - 1 3/4"	B-B-05	HM-4	7/A601	5/A601	8/A601		

DOOR FRAME TYPES

HM-1	INTERIOR, 12-GAUGE HOLLOW METAL, FULLY WELDED.
HM-2	INTERIOR, 12-GAUGE HOLLOW METAL, FULLY WELDED, WITH SIDELIGHT.
HM-3	DETENTION, 12-GAUGE, FULLY WELDED, GROUTED INTO CONCRETE MASONRY UNIT (CMU).
HM-3A	DETENTION, 3/32", FULLY WELDED, GROUTED INTO CMU.
HM-4	EXTERIOR, 12-GAUGE HOLLOW METAL, FULLY WELDED, GALVANIZED.
HM-5	HOLLOW METAL AS INCLUDED WITH PRE-FABRICATED BUILDING.
AL-1	EXTERIOR ALUMINUM STOREFRONT SYSTEM.
AL-2	INTERIOR ALUMINUM STOREFRONT SYSTEM.
SS-1	EXTERIOR, 12-GAUGE STAINLESS STEEL, FULLY WELDED.
W-1	WOOD FRAME.
WS-1	FORMED, REINFORCED AND WELDED STEEL.

NOTES

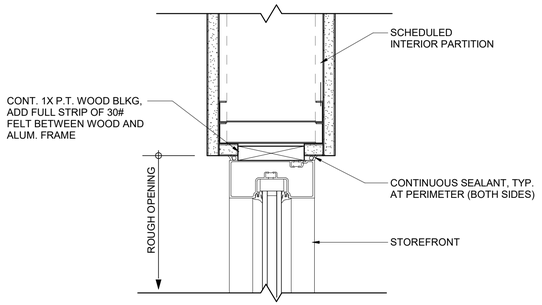
1. HOLLOW METAL FRAMES (HM-1, HM-2, HM-4, AND HM-5) SHALL COMPLY WITH ANSI A250.8/SDI 100. FRAMES SHALL BE LEVEL 2, 16-GAUGE, WITH CONTINUOUSLY WELDED CORNERS AND SEAMLESS FACE JOINTS, FACTORY PRIMED.
2. STEEL FRAMES FOR DETENTION SUITE ROOMS (HM-3) SHALL BE 12-GAUGE STEEL AND GROUTED INTO THE SURROUNDING WALL/FRAMING.

GENERAL SHEET NOTES

1. SEE ROOM DATA SHEETS IN APPENDIX A IN SPECIFICATION.
2. DOOR IN STC RATED WALLS SHALL MATCH THE WALL STC RATING.
3. ALL DOORS TO RECEIVE DOOR STOPS.
4. FOR DOOR HARDAWARE INFORMATION SEE SPECIFICATION.
5. FOR ACCESS CONTROL INFORMATION AND LOCATION REFER TO SPECIFICATION.
6. PROVIDE CAULK / SEALANT ON BOTH SIDES OF FRAMES, TYPICAL.
7. FIELD VERIFY ALL CONDITIONS PRIOR TO ORDERING DOORS, HARDWARE, OR ACCESS CONTROLS, TYPICAL.
8. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DOOR SCHEDULE AND PLAN
9. SET ALL THRESHOLDS IN EXTERIOR DOORS IN FULL BED OF SEALANT.
10. ALL EXTERIOR DOORS TO MEET WATER TIGHT CONDITION INCLUDING ALL WATERPROOF THRESHOLDS. BUMPER SEALS REQUIRED AT ALL EXTERIOR DOORS U.O.N.
11. COORDINATE ALL DOOR HARDWARE WITH ACCESS CONTROL AND FIRE ALARM SYSTEM AS REQUIRED.
12. INSTALL TILE THRESHOLD AT DOORS WHERE TILE IS THE FINISHED FLOOR SURFACE. SEE FINISH SCHEDULE.

DOOR TYPES

A-A	WOOD, FULL FLUSH, SOLID CORE, FIVE LAYERS, 7' X 36" X 1¾" TYPICAL, NATURAL STAIN FINISH
B-B-01	HOLLOW METAL, FULL FLUSH, SEAMLESS, 7' X 36" X 1¾,"TYPICAL, 12 GA, PAINTED FINISH, LEVEL A, EXTRA HEAVY-DUTY.
B-B-02	HOLLOW METAL, FULL FLUSH, SEAMLESS, OVERSIZED, 80" X 42" X 1¾," 12 GA, PAINTED FINISH, LEVEL A, EXTRA HEAVY-DUTY.
B-B-03	HOLLOW METAL, FULL FLUSH, SEAMLESS, ACOUSTIC-RATED, 7' X 36" X 1¾" TYPICAL.
B-B-04	HOLLOW METAL, VISION LIGHT UNIT, SEAMLESS, ACOUSTIC-RATED, 7' X 36" X 1¾"
B-B-05	HOLLOW METAL, FULL FLUSH, SEAMLESS,THERMAL INSULATION U-FACTOR 0.41, 7' X 36" X 1¾"
B-B-06	HOLLOW METAL, FULL FLUSH, SEAMLESS, BULLET RESISTANT DOOR, DOOR TYPE LEVEL, 37' X 36" X 1¾"
D	DETENTION GRADE, 12-GAUGE HM, 2", FLUSH, SEAMLESS, 12" SQ. VISION PANEL, 180° OUTSWINGS, 7' X 36" X 2", VISION PANEL OF POLYCARBONATE LAMINATE, GLASS-CLAD POLYCARBONATE OR GLASS LAMINATE WITH A SLIDING COVER OVER VISION PANEL ON INGRESS SIDE.
D-03	DETENTION GRADE, 12-GAUGE HM, 1½", HALF-GLASS, SEAMLESS, 180° OUTSWINGS, 7' X 36" X 2", VISION PANEL OF POLYCARBONATE LAMINATE, GLASS-CLAD POLYCARBONATE OR GLASS LAMINATE.
GL-01	ALUMINUM STOREFRONT, FRAMED FULL HEIGHT LOW-E INSULATED GLASS, 36" MINIMUM WIDTH.
GL-02	ALUMINUM STOREFRONT, FRAMED PARTIAL HEIGHT, LOW-E INSULATED GLASS, 36" MINIMUM WIDTH.
GL-03	ALUMINUM STOREFRONT, FRAMELESS FULL HEIGHT GLASS, 36" MINIMUM WIDTH.
MSLG	METAL SLIDING GATE FOR MESH PARTITION, 42" MINIMUM WIDTH.
SL-01	SLIDING (INTEGRAL WITH INSPECTION BOOTH).
SS-01	STAINLESS STEEL, FULL FLUSH, SEAMLESS WITH 4" X 25" POLYCARBONATE VISION PANEL, 7' X 36" X 1¾" WITH 4" X 25" POLYCARBONATE VISION PANEL.
OH-1	COMMERCIAL GRADE OVERHEAD, 12' - 16' W X 16'H
V-1	VAULT: 12-GAUGE, HOLLOW METAL, FULL FLUSH, SEAMLESS, 7' X 36" X 1¾" TYPICAL.
FE-1	SD-STD-01.01, REVISION G (AMENDED) (OPAQUE) 5 MIN FE.



1 A601 HEAD/JAMB DETAIL @ INT. STOREFRONT
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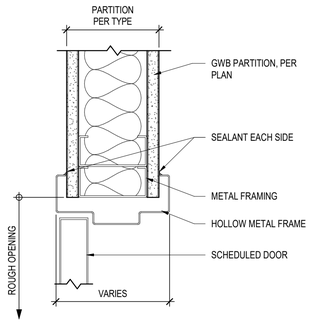

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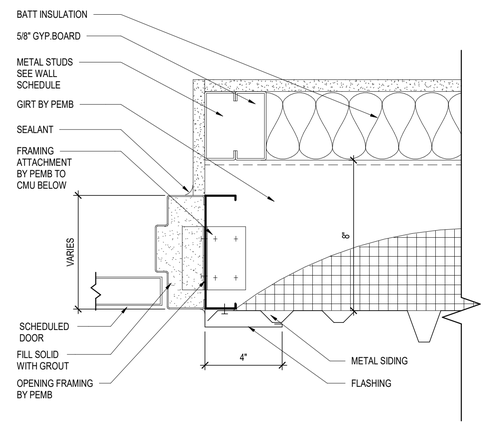

5 A601 HIGH JAMB DETAIL @ EXT. DOOR
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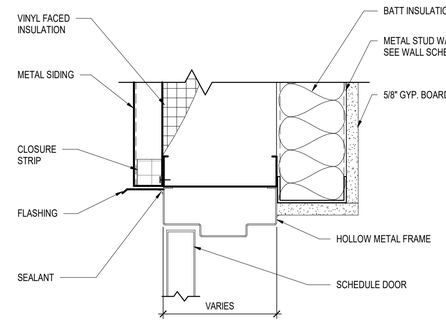

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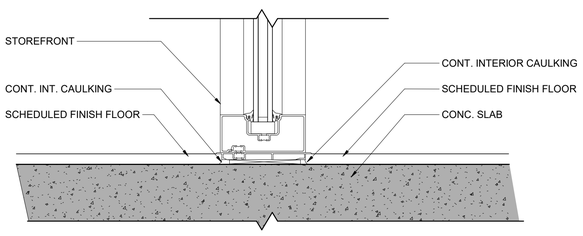

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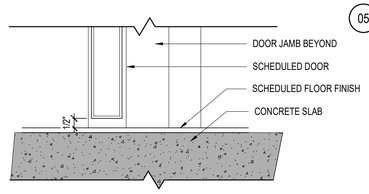

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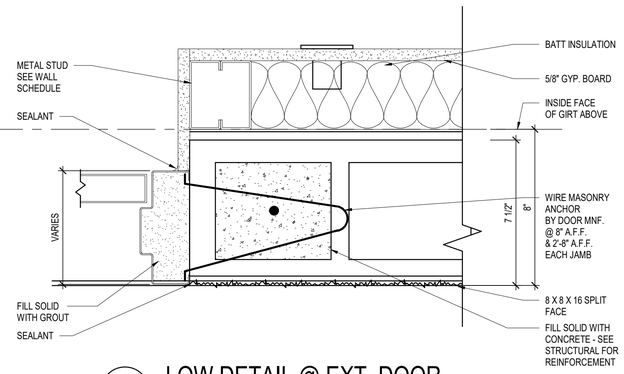

6 A601 LOW DETAIL @ EXT. DOOR
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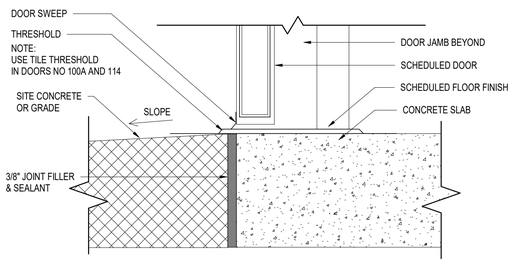

8 A601 SILL DETAIL @ EXT. DOOR
SCALE: 3" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY:	MWR

PROJECT NUMBER:
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DOOR SCHEDULE, DOOR TYPES & NOTES

SHEET NUMBER

A601

BID DOCUMENTS

3/4/2020 9:41:39 AM BIM 360://PNS GAF/2010052001_PNS GAF_A_INT_R19.rvt

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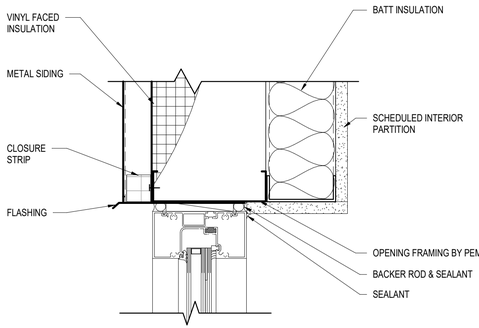

01 A602 STOREFRONT HEAD DETAIL
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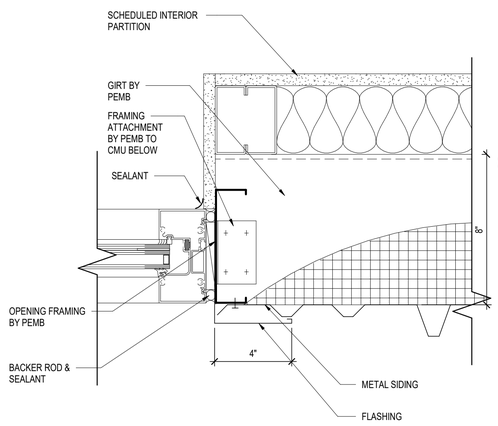

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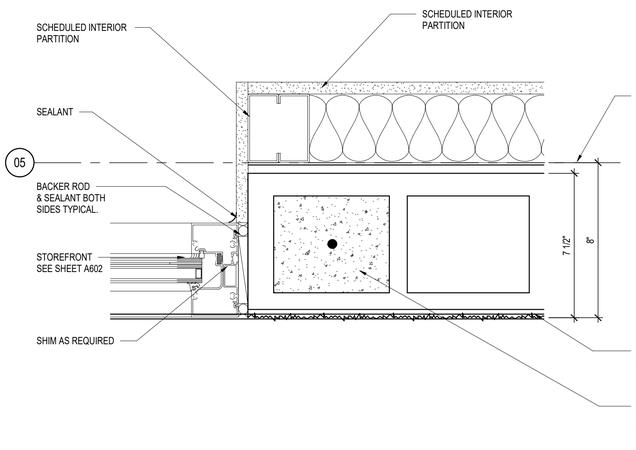

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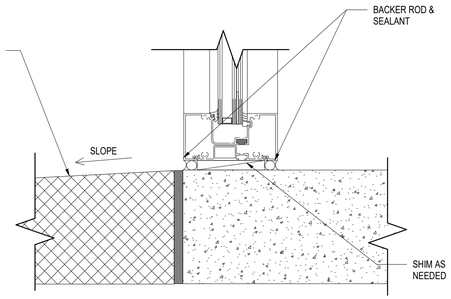

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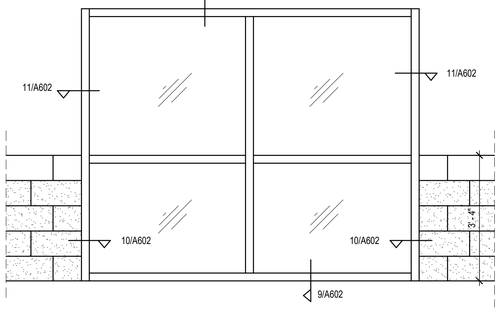

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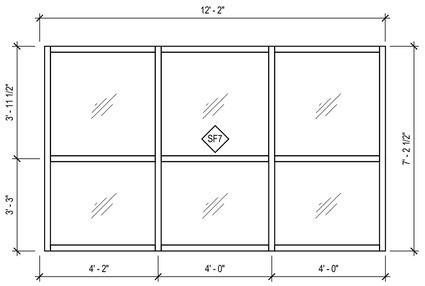

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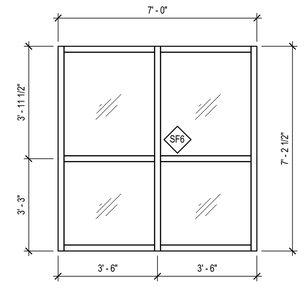
NOTE: SEE NOTE #3



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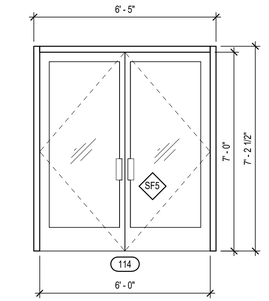

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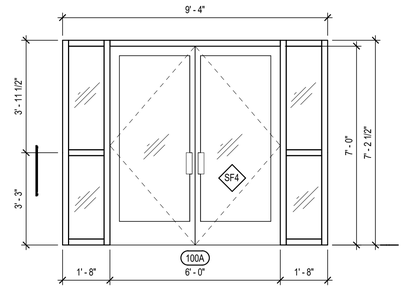

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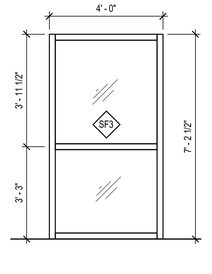

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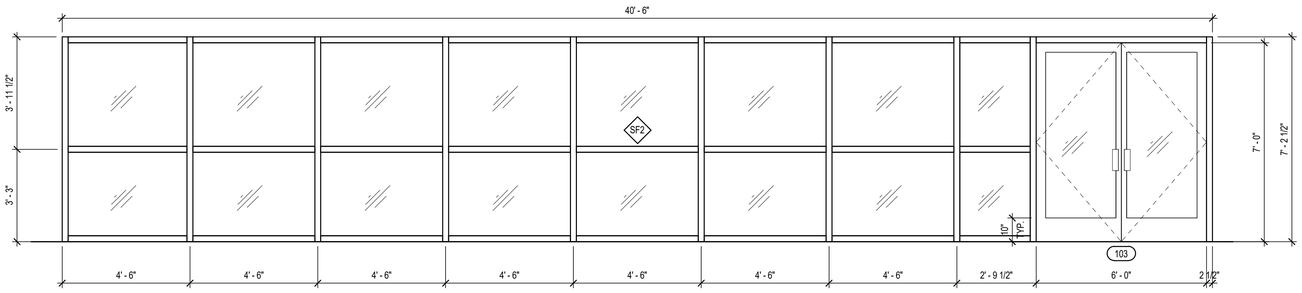

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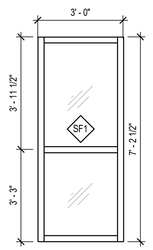

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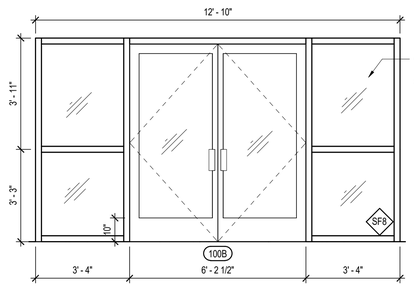
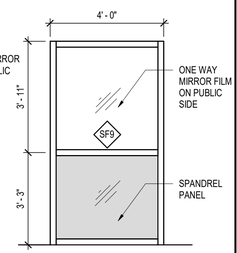


NOTE: ONE WAY MIRROR FILM IN PUBLIC SIDE

13 A602 STOREFRONT SF8
SCALE: 3/8" = 1'-0"



14 A602 STOREFRONT SF9
SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. ALL EXTERIOR ALUMINUM STOREFRONT TO HAVE MINIMUM 2 1/2" X 5" MULLIONS. ALL GLAZING 1 5/16" W/ 1/4" TEMPERED/TINTED OUTSIDE LIGHT & 9/16" IMPACT RESISTANT LITE. LOW E COATING ON #2 SURFACE.
2. DOOR GLAZING 9/16" IMPACT RESISTANT LITE (TINTED)
3. ROLLER WINDOW SHADES BLINDS TO BE INSTALL IN CONFERENCE ROOM 116 ON STOREFRONT SF-7 AND SF6.

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NO.	DESCRIPTION	DATE

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SHEET TITLE

STOREFRONT ELEVATIONS AND DETAILS

SHEET NUMBER

A602

BID DOCUMENTS

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WALL TYPES

W-01	GYPSUM BOARD ON WOOD STUD, SOUND INSULATION.
W-02	GYPSUM BOARD ON METAL STUD, SOUND INSULATION.
W-03	GYPSUM BOARD ON #9 (10 GA) EXPANDED METAL MESH ON STUD, SOUND INSULATION.
W-04	GYPSUM BOARD ON METAL STUD, UNINSULATED.
W-05	GYPSUM BOARD 2X PANELS WITH #9 (10 GA) EXPANDED METAL MESH ON METAL STUD, SOUND INSULATION
W-06	FIBER REINFORCED BACKER BOARD ON METAL STUD, UNINSULATED.
W-07	CMU-4" MIN, FULLY GROUTED, LEVEL 3 BULLET-RESISTANT.
W-08	CMU-8"
W-09	CMU-8" - SECURE - VERTICAL REBAR AT 16" OC (EVERY BLOCK), FULLY GROUTED.
W-10	CMU-8" - TIED INTO MEDIUM SECURITY CEILING, PER SPPH.
W-11	GLAZED MASONRY UNITS.
W-12	[RESERVED].
W-13	INSULATED METAL PANELS WITH STEEL ROLL FRAMES, LEVEL 3 BULLET-RESISTANT.
W-14	CORRUGATED METAL WALLS ON METAL STUDS WITH INSULATION.
W-15	PRE-ENGINEERED, INSULATED METAL PANELS, PAINTED.
W-16	HOT DIPPED (HD) GALVANIZED CHAIN LINK 14' HIGH.
W-17	HD GALVANIZED CHAIN LINK 12' HIGH.
W-18	MATCH ADJACENT SPACE.
W-19	3/4" FIRE RESISTANT PAINTED PLYWOOD OVER #9 (10GA) EXPANDED METAL MESH ON METAL STUDS
W-20*	EXTERIOR WALL - 8" CMU WAINSCOT UP TO 40" HIGH WITH METAL WALL PANELS SUPPORTED BY WALL GIRTS WITH METAL STUD WITH GWB
W-21*	GYPSUM BOARD WITH LEVEL 3 BULLET RESISTANT PANEL ON METAL STUD; UL 752 B.O.D.
SOUND ISOLATION RATINGS - SEE ROOM DATA SHEETS FOR STC REQ.	
NIC 40:	MINIMUM SOUND ISOLATION FOR PRIVATE OFFICES.
NIC 46:	MODERATE SOUND ISOLATION FOR PRIVATE OFFICES WITH CONFERENCE AREA.
NIC 50:	EXCELLENT SOUND ISOLATION FOR ALL CONFERENCE, TRAINING, AND MEETING SPACES.
NIC 54:	SUPERIOR SOUND ISOLATION.
STC 45:	MINIMUM SOUND ISOLATION.
STC 50:	MODERATE SOUND ISOLATION. VERY LOUD SOUNDS CAN BE FAINTLY HEARD.
STC 55:	EXCELLENT SOUND ISOLATION.
STC 60:	SUPERIOR, MOST SOUNDS INAUDIBLE.

* PROJECT SPECIFIC WALL TYPE

WALL FINISH TYPES

WF-01	GYPSUM BOARD, ⅝" REGULAR, PAINTED.
WF-02	GYPSUM BOARD, ⅝" HIGH IMPACT, PAINTED.
WF-03	GYPSUM BOARD, ⅝" TYPE X, PAINTED.
WF-04	GYPSUM BOARD, ⅝" MOISTURE RESISTANT, PAINTED.
WF-05	GYPSUM BOARD, ⅝" REGULAR ON FURRING CHANNELS, PAINTED, FOR CMU SUBSTRATES.
WF-06	GYPSUM BOARD, ⅝" REGULAR ON RESILIENT CHANNELS, PAINTED, FOR SOUND ISOLATION ASSEMBLIES ON STUD WALLS.
WF-07	CERAMIC TILE, FULL HEIGHT, INSTALL OVER FIBERGLASS MAT GYPSUM PANELS.
WF-08	CERAMIC TILE, PARTIAL HEIGHT. INSTALL OVER FIBERGLASS MAT GYPSUM PANELS.
WF-09	FIBER REINFORCED PLASTIC/POLYMER (FRP), FULL HEIGHT, INSTALL OVER GYPSUM BOARD.
WF-10	GLAZED MASONRY UNITS.
WF-11	PREFINISHED METAL PANELS.
WF-12	PAINT, FLAT.
WF-13	PAINT, SEMI-GLOSS.
WF-14	PAINT, GLOSS.
WF-15	PAINT, EPOXY, SEMI-GLOSS.
WF-16	FRT ¾" PLYWOOD ON FURRING CHANNELS, PAINTED.
WF-17	MATCH ADJACENT SPACE.

NOTE: CONTRACTOR TO INCLUDE THREE COLORS OF PAINT FOR WALLS COORDINATE LOCATIONS WITH ARCHITECT

CEILING FINISH TYPES

CF-01	GYPSUM BOARD, 5/8" REGULAR, PAINTED.
CF-02	GYPSUM BOARD, 5/8" REGULAR, OVER #9 (10 GA) EXPANDED METAL MESH, PAINTED.
CF-03	ACOUSTIC CEILING TILE, SUSPENDED. STANDARD T-BAR SYSTEM.
CF-04	EXPOSED STRUCTURE, NO CEILING.
CF-05	EXPOSED STRUCTURE, SUSPENDED CEILING NOT PERMITTED.
CF-06	GYPSUM BOARD, 5/8" MOISTURE RESISTANT, OVER #9 (10 GA) EXPANDED METAL MESH, PAINTED.
CF-07	GYPSUM BOARD, 5/8" MOISTURE RESISTANT, PAINTED.
CF-08	8" CONCRETE WITH 5/8" REBAR AT 6" O.C, EACH WAY.
CF-09	EXPOSED STRUCTURE, EPOXY PAINT ON METAL DECK.
CF-10	PRE-ENGINEERED, EXPOSED STRUCTURE, PAINTED.
CF-11	PREFINISHED METAL PANELS.
CF-12	CEL-LINE / 24" WIDE PANELS / WHITE / CONCEALED FASTENERS
CF-13	HD GALVANIZED CHAIN LINK ROOF.
CF-14	MATCH ADJACENT SPACE.
CF-15	5/8" GYPSUM BOARD, OVER #9 (10 GA) EXPANDED METAL MESH, ADHERED ACOUSTIC TILE.
CF-16	5/8" GYPSUM BOARD; ACOUSTICAL TILE NOT PERMITTED
CF-17	SECURE, 1 H FIRE RATED ACOUSTICAL CEILING ASSEMBLY: 3 5/8" METAL STUDS WITH SOUND ATTENUATION BATTS WITH 5/8" TYPE X GWB OVER 1/4" GWB ON BOTH SIDES. 10 GA METAL MESH ON METAL STUD ON ROOM SIDE ONLY. STC -55, GA NO. WP 1015

ROOM FINISH SCHEDULE

ROOM NO.	GAFDS ROOM NO.	ROOM NAME	BASE FINISH	FLOOR FINISH	WALL FINISH	STC WALL	WALL FINISH N WALL	WALL FINISH E WALL	WALL FINISH S WALL	WALL FINISH W WALL	CEILING HEIGHT	CEILING FINISH	STC CEILING	REMARKS
100	GAF-01-01	PRE-PROCESSING	BF-02	FF-08	WF-02		P3	P3	P1	P3	10' - 0"	CF-03		
101	GAF-01-04	UNISEX	BF-02	FF-08	WF-08/WF-07	STC45	P3	P3	P3	P3	10' - 0"	CF-02/P2	STC45	
102	N/A	JAN	BF-01	FF-04	WF-02		P3	P3	P3	P3	10' - 0"	CF-07/P2		
103	GAF-01-02	PROCESSING AREA	BF-01	FF-17	WF-01		P3	P3	P3	P3	10' - 0"	CF-03		
104	GAF-03-01	AG LAB/ DIS RM	BF-04	FF-10	WF-04	STC45	P3	P3	P3	P1	10' - 0"	CF-07/P2	STC45	
105	GAF-04-03	SECURE CORRIDOR	BF-04	FF-10	WF-02	STC55	P3	P3	P3	P3	10' - 0"	CF-17	STC55	
106	GAF-02-01	INTERVIEW ROOM	BF-04	FF-09	WF-15	STC55	P3	P3	P3	P3	10' - 0"	CF-17	STC55	INSTALLATION OF WIRE MESH MUST BE INSPECTED BY CBP PRIOR TO COVERING
107	GAF-02-02	SEARCH ROOM	BF-04	FF-10	WF-15	STC55	P3	P3	P3	P3	10' - 0"	CF-17	STC55	
108	GAF-02-03	HOLD RM	BF-04	FF-10	WF-15	STC55	P3	P3	P3	P1	10' - 0"	CF-17	STC55	INSTALLATION OF WIRE MESH MUST BE INSPECTED BY CBP PRIOR TO COVERING
109	N/A	CHASE	BF-04	FF-03	WF-15		P3	P3	P3	P3	10' - 0"	CF-17	STC55	
110	N/A	CORRIDOR	BF-04	FF-09	WF-01		P3	P3	P3	P3	10' - 0"	CF-03		
111	GAF-04-03	SECURE STORAGE	BF-04	FF-03	WF-13		P3	P3	P3	P3	10' - 0"	CF-02/P2		INSTALLATION OF WIRE MESH MUST BE INSPECTED BY CBP PRIOR TO COVERING
112	GAF-04-04/05	LAN/SLAN	BF-04	FF-17	WF-16	STC45	P3	P3	P3	P3	10' - 0"	CF-02/P2	STC45	
113	N/A	ENTRANCE OFFICE	BF-04	FF-09	WF-01		P1	P3	P1	P3	10' - 0"	CF-03		
114		PUBLIC LOBBY	BF-02	FF-08	WF-02		P1	P3	P1	P3	10' - 0"	CF-03		
115	GAF-04-06	GENERAL STORAGE/ FILE ROOM	BF-01	FF-09	WF-01		P3	P3	P3	P3	10' - 0"	CF-03		
116	N/A	CONFERENCE RM	BF-01	FF-09	WF-01		P1	P3	P3	P3	9' - 0"	CF-03		CEILING HEIGHT VARYS, SEE REFLECTED CEILING PLAN
117	GAF-04-10	LOCKER ROOM	BF-02	FF-08	WF-04		P3	P3	P3	P3	10' - 0"	CF-07/P2		
118	GAF-04-08	WOMENS RR	BF-02	FF-08	WF-08/WF-07		P3	P3	P3	P3	9' - 0"	CF-07/P2		CEILING HEIGHT VARYS, SEE REFLECTED CEILING PLAN
119	GAF-04-09	LOCKER ROOM	BF-02	FF-08	WF-04		P3	P3	P3	P3	10' - 0"	CF-07/P2		
120	GAF-04-08	MENS RR	BF-02	FF-08	WF-08/WF-07		P3	P3	P3	P3	9' - 0"	CF-07/P2		CEILING HEIGHT VARYS, SEE REFLECTED CEILING PLAN
121	GAF-04-07	BREAK ROOM	BF-01	FF-04	WF-01	STC45	P1	P3	P3	P3	10' - 0"	CF-03	STC45	
122	GAF-04-02	GENERAL OFFICE AREA	BF-01	FF-09	WF-01	STC45	P3	P3	P3	P1	10' - 0"	CF-03	STC45	
123	GAF-04-01	SUPERVISOR'S OFFICE	BF-01	FF-09	WF-01	STC45	P3	P3	P3	P1	10' - 0"	CF-03	STC45	
124	GAF-04-11	LACTATION ROOM	BF-01	FF-04	WF-13		P3	P3	P3	P1	10' - 0"	CF-03		
125	N/A	ELECTRICAL	BF-01	FF-03	WF-04		P3	P3	P3	P3	10' - 0"	CF-09		
126	N/A	MECHANICAL ROOM	BF-01	FF-03	WF-04		P3	P3	P3	P3	10' - 0"	CF-09		

NOTE: FOR MORE INFORMATION SEE NOTE NO 23

FINISH LEGEND AND COLOR SCHEDULE

LABEL	DESCRIPTION	TYPE	MANUFACTURER	PROD. NAME/ COLOR/ FINISH/ SIZE/ INSTALL	REMARKS
FF-09	CARPET TILE	1	MILLIKEN	CONSEQUENCE 2.0, SEQUIL, SEQ48-108, SIDE	
FF-13	WALK OFF MATT	1	MILLIKEN	OBEX, CUT, FIZZ, MOCHA	
T	WALL TILE	1	CROSSVILLE	RETRO ACTIVE 2.0, EMPRESS WHITE UPS; FIELD TILE, COVE BASE	ALIGN JOINTS
		2	CROSSVILLE	RETRO ACTIVE 2.0, EMPRESS WHITE PO; FIELD TILE	ACCENT TILE, ALIGN JOINTS
FF-08	FLOOR TILE	3	CROSSVILLE	ALASKA, ICE UNPOLISHED	ALIGN JOINTS
TS	TRANSITION STRIP	1	SCHLUTER	STAINLESS STEEL, SATIN FINISH , SIZED TO FIT	CARPET TO TILE TRANSITIONS
		2	SCHLUTER	STAINLESS STEEL, SATIN FINISH , SIZED TO FIT	CARPET TO VCT TRANSITIONS
		3	SCHLUTER	STAINLESS STEEL, SATIN FINISH , SIZED TO FIT	CARPET TO EPOXY FLOOR TRANSITIONS
G	GROUT	1	CUSTOM BUILDING PRODUCTS	CEG-LITE EPOXY, 10 ANTIQUE WHITE	
FF-10	EPOXY FLOORING	1	DUR-A-FLEX, INC.	DURACHIP – OCEAN, SMALL CHIP	
FF-04	VINYL COMPOSITION TILE	1	ARMSTRONG	STANDARD EXCELON MULTI-COLOR / 52513 CIRQUE WHITE / 12"X12"	
PL	PLASTIC LAMINATE	1	WILSONART	DEC METAL L6445(408) RIBBONED SATIN BRUSHED PALADIUM	
		2	WILSONART	MUSHROOM 5013K-19	
		3	WILSONART	NIGHTFALL 5023K-19	
SSF	SOLID SURFACE	1	CORIAN	ARTIC ICE	
		2	CORIAN	EVENING PRIMA	
BF-01	VINYL WALL BASE	1	JOHNSONITE	CEMENT 121, 4" HIGH	
BF-02	TILE	3	CROSSVILLE	ALASKA, ICE UNPOLISHED	TILE COVE BASE
CMU	CONCRETE BLOCK	1	8X8X16	SPLIT FACE CMU, COLOR T.B.D.	
P	PAINT	1	SHERWIN WILLIAMS	SMOKEY BLUE SW 7604	ACCENT WALL
		2	SHERWIN WILLIAMS	EXTRA WHITE SW 7006	CEILING
		3	SHERWIN WILLIAMS	TOQUE WHITE SW 7003	WALLS, STL DR, STL DR FRM
ACT	ACOUSTIC CEILING TILE			ARTIC / SQUARE TEGULAR NARROW / 2X2 / 9/16" GRID, WHITE	
MP	METAL PANEL	1	T.B.D.	T.B.D	
GWB	GYPSUM WALL BOARD	1		1/2"	USE MOISTURE RESISTANT "MR" GWB WHEN NOTED ON FINISH SCHEDULE
		2		1/2" ON 9 GA DIAMOND MESH	USE MOISTURE RESISTANT "MR" GWB WHEN NOTED ON FINISH SCHEDULE
FF-17	RUBBER TILE	1	ROPPE	STATDEFEND, 702 ELECTRON BEIGE	ANTISTATIC RUBBER TILE
		2	ROPPE	STATPROTECT, 751 HAZE GREY	ANTISTATIC RUBBER TILE
SC	SEALED CONCRETE				

FLOOR FINISH TYPES

FF-01	CONCRETE, TROWELED, BROOM FINISH, EXPOSED EXTERIOR AND INTERIOR UTILITY SPACES.
FF-02	CONCRETE, TROWELED, UNIFORM TEXTURE AND APPEARANCE, PREPARED TO RECEIVE OTHER FINISHES.
FF-03	CONCRETE, TROWELED, UNIFORM TEXTURE AND APPEARANCE, SEALED, EXPOSED AT INTERIOR SPACES.
FF-04	VINYL COMPOSITION TILE (VCT) OR RUBBER TILE.
FF-05	VCT, DISSIPATIVE.
FF-06	ATHLETIC RESILIENT.
FF-07	CERAMIC TILE.
FF-08	PORCELAIN TILE.
FF-09	CARPET TILE.
FF-10	CONCRETE WITH SEAMLESS EPOXY-RESIN NON-SLIP FLOORING SYSTEM, SLOPE-TO-FLOOR DRAIN, INSTALLED TO COMPLY WITH MANUFACTURER'S REQUIREMENTS SPECIFICATIONS.
FF-10A	CONCRETE, W/ SEAMLESS EPOXY-RESIN NON-SLIP FLOORING SYSTEM, INSTALLED TO COMPLY WITH MANUFACTURER'S REQUIREMENTS SPECIFICATIONS.
FF-11	CONCRETE, COLORED OR STAINED WITH SEALER, TROWELED, UNIFORM TEXTURE AND APPEARANCE.
FF-12	CONCRETE, SEALED 8", WITH ¾" REINFORCING BARS 6" OC EACH WAY.
FF-13	[RESERVED].
FF-14	RUBBER MAT (ANTI-FATIGUE).
FF-15	MATCH ADJACENT SPACE (AT EXISTING CONDITIONS).
FF-16	RAISED FLOOR WITH ANTI-STATIC VCT.
FF-17	ANTI-STATIC VCT.

WALL BASE TYPES

BF-01	RUBBER BASE, 4" HIGH.
BF-02	CERAMIC TILE BASE 4" HIGH (MIN).
BF-03	WOOD BASE.
BF-04	INTEGRAL WITH SEAMLESS FLOORING, 8" HIGH.
BF-05	[RESERVED].
BF-06	[RESERVED].
BF-07	MATCH ADJACENT SPACE (AT EXISTING CONDITIONS).

NOTE:

FOR MORE INFORMATION SEE ROOM DATA SHEETS IN APPENDIX A IN SPECIFICATION.

GENERAL SHEET NOTES & SCHEDULE REMARKS

1. MANUFACTURER AND PRODUCT NAMES ARE "BASIS OF DESIGN". REFER TO SPECS FOR ADDITIONAL APPROVED MANUFACTURERS AND ALLOWABLE SUBSTITUTIONS.
2. SEE INTERIOR FINISH PLANS AND ELEVATIONS FOR CLARIFICATION ON LIMITS AND LOCATIONS OF FINISHES.
3. ALL INTERIOR FINISHES ARE TO BE IN COMPLIANCE WITH ALL CODES, NATIONAL AND LOCAL.
4. ALL FINISHES ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. ALL FLOORING FINISH CHANGES TO OCCUR AT CENTER LINE OF CLOSED DOOR UNO
6. ALL COVER PLATES FOR JUNCTION BOXES TO BE STAINLESS STEEL.
7. CONTRACTOR TO PROVIDE AND INSTALL CORNER GUARDS ON ALL OUTSIDE CORNERS. PROVIDE FULL HEIGHT SS CORNER GUARDS ON ALL EXTERIOR CORNERS IN PUBLIC AREAS.
8. FLOOR CONDITIONS ARE TO BE INSPECTED PRIOR TO ORDERING FLOOR FINISH MATERIALS, AND THEN AGAIN PRIOR TO THEIR INSTALLATION. ALL IMPERFECTIONS ARE TO BE PATCHED PRIOR TO INSTALLATION OF FLOOR FINISHES.
9. VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/2" FOR EVERY 10'-0" SHALL BE LEVELED.
10. ALL CABINET PULLS TO BE HAEFLE STAINLESS STEEL HANDLES, SIZE: 3 3/4" CATALOG NO. 117.05.600
11. ALL GROMMETS TO BE DOUG MOCKETT EDP SERIES, FINISHES TO BE SELECTED FROM SHOP DRAWINGS FOR APPROVAL
12. PROVIDE REQUIRED BRACING AND BLOCKING AT ALL WALL HUNG CABINETRY COUNTERS AND FIXTURES.
13. ALL TILE GROUT JOINTS TO BE 1/8"
14. INSTALL PREFORMED INSIDE AND OUTSIDE VINYL WALL BASE.
15. INSPECT DRYWALL AND VERIFY THAT CONDITIONS ARE SUITABLE FOR THE APPLICATION OF PAINT OR WALL COVERINGS PRIOR TO INSTALLATION.
16. TRIM PAINT TO BE SEMI-GLOSS FINISH, WALL PAINT TO BE EGGSHELL FINISH, CEILING TO BE FLAT FINISH.
17. ALL MISCELLANEOUS GRILLS, DIFFUSERS, AND FIRE EXTINGUISHER CABINETS COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF SAMPLES.
18. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED SEMIGLOSSS FINISH TO MATCH ADJACENT WALLS COLOR.
19. SCRIBE ALL COUNTERS TO WALL. CAULK TO MATCH COUNTER COLOR.
20. LEAD TIMES FOR ALL MANUFACTURERS SHOULD BE CHECKED AT RECEIPT OF CONSTRUCTION DRAWINGS SO THAT ITEMS CAN BE ORDERED IN APPROPRIATE TIME FRAME FOR SHIPPING AND RECEIVING PRIOR TO SCHEDULED INSTALL DATE.
21. ALL INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIAL SHALL COMPLY WITH NCBC SECTION 804 FOR CLASSIFICATION AND TESTING IDENTIFIED IN NFPA 253.
22. SEE ROOM FINISH SCHEDULE FOR STC RATING.
23. EXTEND ALL INTERIOR PARTITIONS 6" ABOVE SCHEDULE CEILING U.N.O.
24. EXTEND ALL PERIMETER WALLS TO ROOF DECK.

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REVISIONS
1 PROGRESS DRAWINGS

NO.	DESCRIPTION	DATE
		11/19/19

DATE ISSUED:	03/03/2020
REVIEWED BY:	SG
DRAWN BY:	JKS
DESIGNED BY:	MWR

PROJECT NUMBER:
201-0052-002

SHEET TITLE

ROOM FINISH SCHEDULE, LEGEND & NOTES

SHEET NUMBER

A701

BID DOCUMENTS

Sheet Size: ARCH E 22X34

1 A702 FLOOR FINISH PLAN
SCALE: 3/16" = 1'-0"

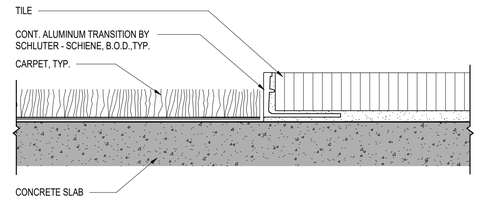
FLOOR FINISH LEGEND

FLOOR FINISH TYPES

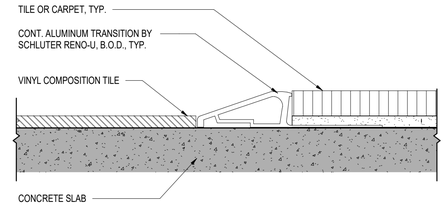
FF-01	CONCRETE	FF-10	CONCRETE WITH SEAMLESS EPOXY-RESIN NON SLIP FLOORING SYSTEM
FF-03	SEALED CONCRETE	FF-17-1	ANTI-STATIC VCT
FF-04	VCT	FF-17-2	ANTI-STATIC VCT
FF-08-3	PORCELAIN TILE	FF-13	WALK-OFF FLOOR MAT
FF-09	CARPET TILE		STARTING POINT FOR TILE FLOOR

GENERAL SHEET NOTES

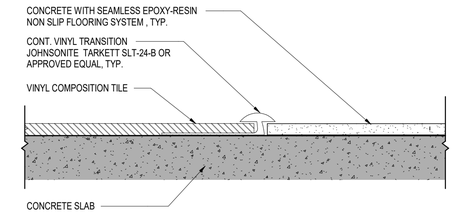
1. ....



2 A702 CARPET/TILE TRANSITION DETAIL, TYP.
SCALE: N.T.S.



4 A702 VCT/TILE OR CARPET TRANSITION DETAIL, TYP.
SCALE: N.T.S.



5 A702 VCT/EPOXY TRANSITION DETAIL, TYP.
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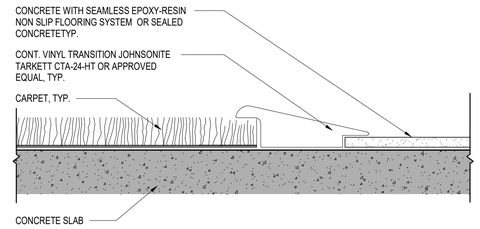

7 A702 CARPET/EPOXY TRANSITION DETAIL, TYP.
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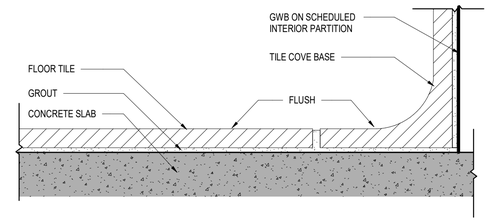

3 A702 TILE COVE BASE DETAIL DETAIL, TYP.
SCALE: N.T.S.

PN
TN

4 0 4 8 12
SCALE: 3/16" = 1'-0"

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DATE ISSUED:	03/03/2020
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DESIGNED BY:	MWR

PROJECT NUMBER:
201-0052-002

SHEET TITLE

FLOOR FINISH PLAN

SHEET NUMBER

A702

BID DOCUMENTS

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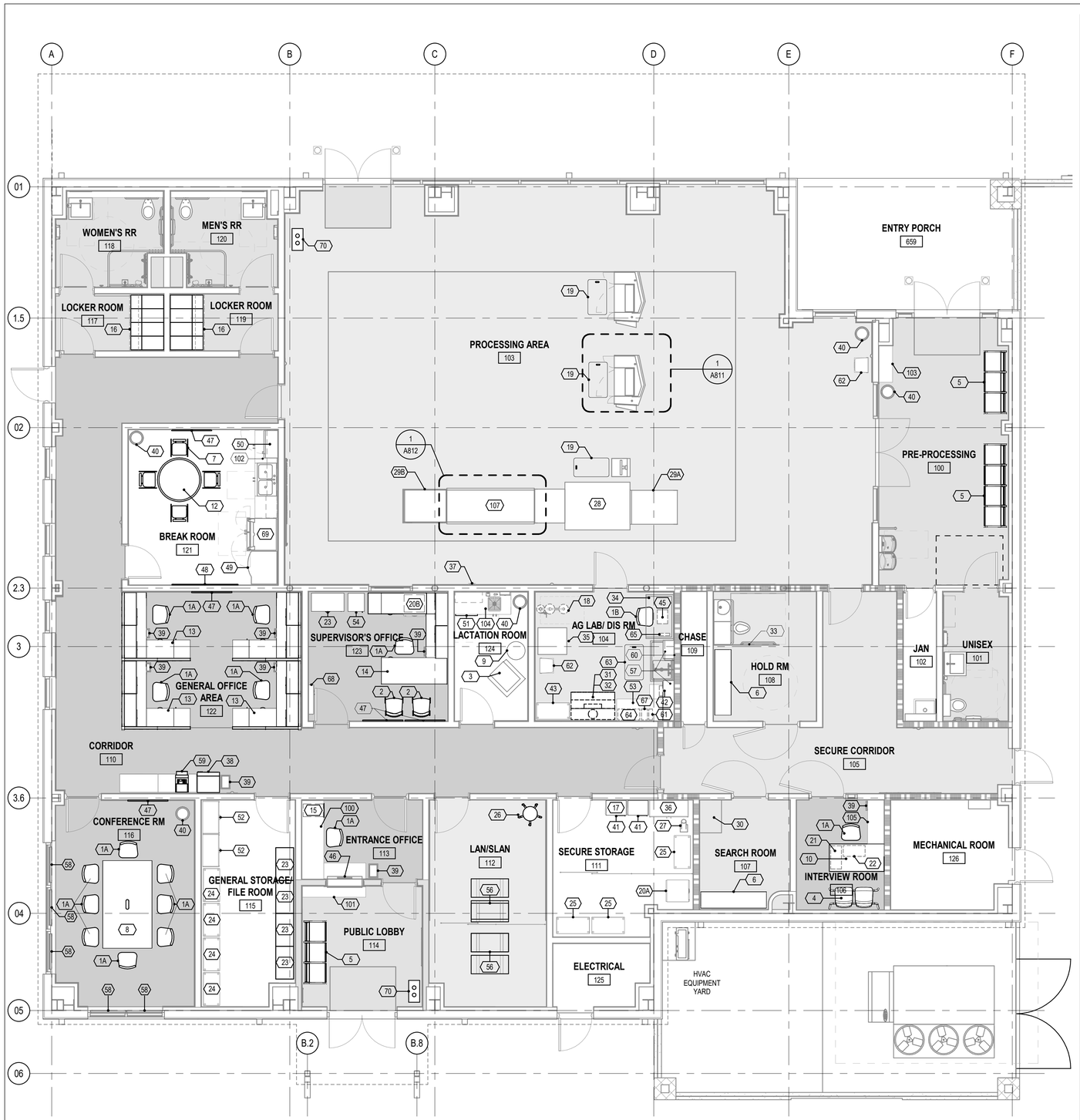

1 A801 FURNITURE, FIXTURES & EQUIPMENT PLAN

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

FURNITURE / EQUIPMENT LEGEND — SEE ROOM DATA SHEETS IN APPENDIX A OF SPECIFICATIONS

DESCRIPTION	TYPE	MANUFACTURER	PROD. NAME/ COLOR/ FINISH (BASIS OF DESIGN)	REMARKS
SEATING	1A	TASK CHAIR	ALLSEATING	79189-MF-SS-AWL-BKN-KD
	1B	TASK STOOL	BEVCO, LEXINGTON	ESD, TALL
	2	GUEST CHAIR	ALLSEATING	79454-NA-SIL-AS
	3	LOUNGE CHAIR	COMPEL ZOEY CLUB CHAIR	KEY LARGO, ULTRAMARINE VINYL, SILVER LEGS
	4	DETENTION CHAIR	CORTECH	IND. SEAT WITH CUFF AND FLOOR MNT. BRACKETS
	5	PASSENGER CHAIR	ALLSEATING, HALSA	SECURE TO FLOOR
	6	DETENTION BENCH	NORIX CUFF BENCH, 6-8 FT LONG	SECURE TO FLOOR
	7	CAFE CHAIR	KI MAESTRO NORDIC	BLUE, POLY, CHROME SLED BASE, NO ARMS
TABLES	8	CONFERENCE TABLE	HERMAN MILLER 36"X120"	EAMES TABLE WITH POWER AND DATA PORTS
	9	SM. ROUND SIDE TABLE	OFS CAROLINA BUSINESS ICE	
	10	60"L X 30"W X 30"H MAR-RESISTANT	KI, UNITE SYSTEM	SECURE TO FLOOR/WALL, WITH MODESTY PANEL
	11	NOT USED	-	-
	12	36" ROUND CAFE TABLE	KI MAESTRO PORTICO	PR3FX-74P 36"
WORKSTATIONS	13	L-SHAPED (SM)	HERMAN MILLER, CANVAS	OVERHEAD STORAGE CABINETS WITH FLIIPER DOORS, WARDROBE CABINET, LOCABLE 2-DRAWER CABINET
	14	L-SHAPED (MED)	HERMAN MILLER, CANVAS	OVERHEAD STORAGE CABINETS WITH FLIIPER DOORS, LOCABLE 2-DRAWER CABINET
	15	MOBILE PEDESTAL	-	LOCABLE
EQUIPMENT	16	LOCKER WITH BENCH	SPACESAVER	15", 72" H, SHELF, WARDROBE BAR, HOOK, DRAWER
	17	LOCKABLE GUN LOCKER	NORIX IPL-600	WAL MOUNTED HAND GUN, 6 COMPARTMENTS TOTAL
	18	EMERGENSY SHOWER/EYE WASH		SEE PLUMBING
	19	ANTI-FATIGUE MATS	ULINE	H-736BL ANTI-FATIGUE MAT - 3/8" THICK, BLACK
	20A	GSA CLASS V SAFE	NORFOLK	THREE DRAWERS
	20B	GSA CLASS V SAFE	NORFOLK	TWO DRAWER
	21	CPU HOLDER	-	SECURE TO TABLE
	22	PENCIL DRAWER	-	SECURE TO TABLE
	23	LATERAL FILE	-	
	24	18" ADJUSTABLE SHELVING	-	METAL 5SH, 86X36X18
	25	24" HEAVY DUTY ADJ. SHELVING RACK	SAFCO	5 SHELF 86"H X 36"W METAL
	26	ROLLING ADJUSTABLE STOOL	OFS CAROLINA	BLUE NAVY
	27	CLEARING BARREL	-	PROVIDE BY CBP
	28	X-RAY MACHINE	RAPISCAN 626 XRW 160KV	WITH CART, MON, SINGLE, ERGOTRON 24-189-055
	29A	INCLINE CONVEYOR ASSEMBLY	RAPISCAN	CONVEYOR SET, 72" ENTRY, 626XRW
	29B	BAGGAGE SLIDE ASSEMBLY	RAPISCAN	BAGGAGE SLIDE, 4FT, 526/626XRW
	30	STAINLESS STEEL TABLE	AERO	24"x36"x42" SECURE TO FLOOR/WALL
	31	FUME HOOD	GENIE GS-111-48	SEE MECHANICAL
	32	FLAMMABLE STORAGE CABINET		
	33	MODESTY PANEL	-	SS DET. GRADE 36"H X 48"W 12" AFF, SECURE TO WALL
	34	STAINLESS STEEL DESK	AERO	
	35	30" REF/FRZ.	GE APPLIANCES	
	36	COMBUSTIBLE MTLR. CONTAINER	-	
	37	RECESSED EYE WASH	GUARDIAN	GBF1735DP, SEE PLUMBING
	38	PAPER SHREDDER	REXEL	RSX1834
	39	WASTE CONTAINER	RUBBERMAID	PLASTIC OFFICE TRASH CAN 7 GALLONS
	40	WASTE CONTAINER	GLOBAL INDUSTRIAL	ALUMINUM, SATIN CLEAR, 20 GALLONS
	41	LOCKABLE GUN RACK	-	PROVIDE BY CBP
	42	DISINFECTING PAN	-	
	43	STAINELLS STEEL 18" ADJ. SHELVING	-	
	44	NOT USED	-	
	45	EVIDENCE PREP	-	
	46	TRANSACTION WINDOW	-	BULLET RESISTANT LEVEL 3, CLEAR ANODIZE
	47	50" TV	LG	
	48	BULLETIN BOARD	-	WITH GLASS DOORS
	49	VEND - BY OTHERS	-	
	50	MICROWAVE	-	
	51	UNDERCOUNTER REFRIGERATOR	-	
	52	NOT USED		
	53	SS CORNER WORK STATION	-	WITH BACKSPLASH
	54	WARDROBE CABINET	HERMAN MILLER	
	55	NOT USED		
	56	SERVER FRAME/RACK	QUADRARACK	
	57	SS OVER SINK SHELF	AERO	
	58	ROLLER WINDOW SHADES		DARK BLUE
	59	FAX MACHINE	BROTHER	FAX2940
	60	MEGNETIC KNIFE HOLDER	ISHETAO	MK-1258/ 18 X 1 X 2 INCHES, SECURE TO WALL
	61	MAGNIFIER GLASS	LUXO 18353LG	LED 5 DIOPTER ILLUMINATED MAGNIFIER WITH WEIGHTED BASE AND 30" ARM
	62	AMNESTY BINS	DETECTO	MODEL P-100/ WHITE/ 25 GALLON/ METAL
	63	ANTI SLIP MATS	CACTUS MAT	2200-35 VIP BLACK CLOUD BLACK GREASE-PROOF RUBBER FLOOR
	64	STERILIZER	TUTTNAUER	EZ-10 FULLY AUTOMATIC WITH PRINTER
	65	BLACKLIGHT FLASHLIGHT	ESCOLITE	UV BLACKLIGHT/ MODEL: 00F-51UV-001A
	66	NOT USED	-	-
	67	MICROSCOPE	MEIJI TECHNO	EM-32 LED BINOCULAR ENTRY-LEVEL 0.7X-4.5X INCIDENT AND TRANSMITTED ZOOM STEREO
	68	KEY BOX	TRAKA ASSA ABLOY	KEY CABINET M-SERIES TOUCH
	69	REF/FRZ. .	GE APPLIANCES	ICE MAKER AND FILTERED WATER DISPENSER
	70	INDOOR FLAG FLOOR STAND	GETTYSBURG FLAG WORKS	TWO HOLE
	71	FLAGPOLE	GETTYSBURG FLAG WORKS	ALUMINUM, 20 FEET, SEE SITE PLAN FOR LOCATION
CASEWORK	100	CASEWORK		-
	101	PUBLIC COUNTER		SECURE TO WALL WITH METAL BRACKETS
	102	CASEWORK		-
	103	FORM COUNTER		SECURE TO WALL WITH METAL BRACKETS
	104	CASEWORK		-
	105	COUNTER		SECURE TO WALL WITH METAL BRACKETS
	106	PODIUM CASEWORK		-
	107	INSPECTION/PROCESSING TABLE		-

NOTE: ALL DETENTION FURNITURE TO BE INSTALL UNDER CBP SUPERVISION.

PN TN

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

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DRAWN BY:	JKS
DESIGNED BY:	MWR

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201-0052-002

SHEET TITLE

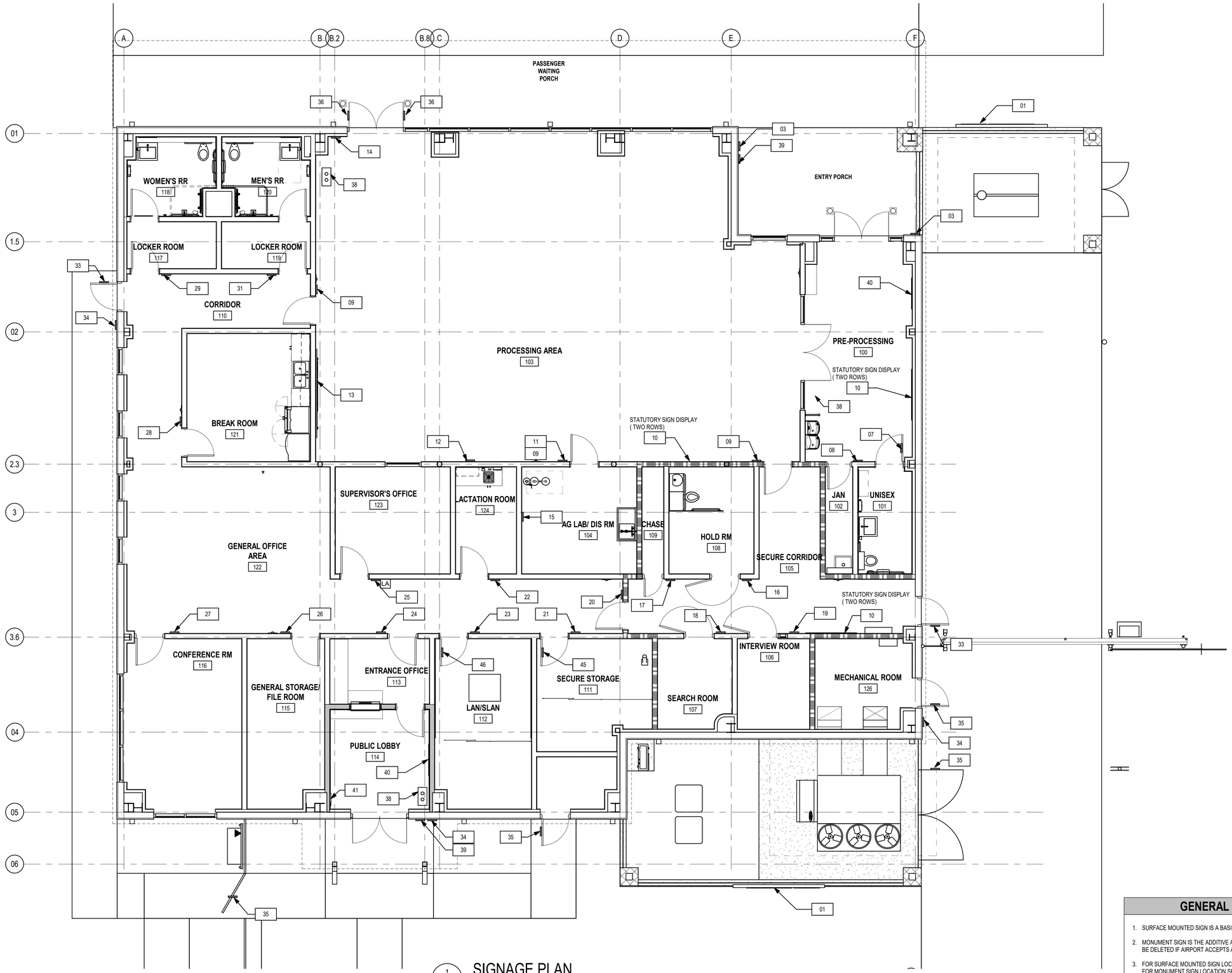
FURNITURE, FIXTURES & EQUIPMENT PLAN

SHEET NUMBER

A801

BID DOCUMENTS

Sheet Size: ARCH E 22X34



1 A802 SIGNAGE PLAN

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

GENERAL SHEET NOTES

1. SURFACE MOUNTED SIGN IS A BASIS OF DESIGN.
2. MONUMENT SIGN IS THE ADDITIVE ALTERNATE #1. SURFACE MOUNTED SIGN CAN BE DELETED IF AIRPORT ACCEPTS ADDITIVE ALTERNATE #1.
3. FOR SURFACE MOUNTED SIGN LOCATION SEE EXTERIOR ELEVATION DRAWINGS, FOR MONUMENT SIGN LOCATION SEE ARCHITECTURAL SITE PLAN.

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NO.	DESCRIPTION	DATE
1.	PROGRESS DRAWINGS	11/19/19

DATE ISSUED:	03/03/2020
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	201-0052-002

SHEET TITLE

SIGNAGE PLAN

SHEET NUMBER

A802

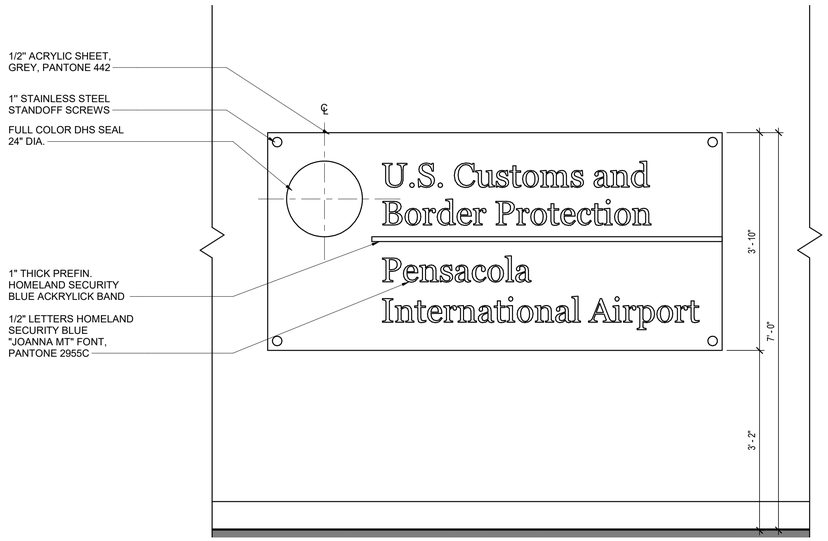
BID DOCUMENTS

3/4/2020 9:42:06 AM BIM 360://PNS GAF/20100052001_PNS GAF_A_INT_R19.rvt

SIGNAGE

ITEM	TYPE	LOCATION	QUANTITY	MESSAGE	REMARKS
01	**FI-0001**	SITE SIGNAGE (SEE ARCHITECTURAL SITE PLAN)	2	U.S. CUSTOMS AND BORDER PROTECTION, PENSACOLA, FLORIDA + SEAL	MESSAGE TO BE VERIFIED BY CBP
02	**NOT USED**				
03	**SS-160**	EXTERIOR BY THE ENTRY DOORS	2	NO SMOKING	MESSAGE TO BE VERIFIED BY CBP
04	**FI-004**	NOT USED	0	PENSACOLA, FLORIDA + CBP SEAL AND SIGNATURE	
05	**FI-002**	EXTERIOR	1	U.S. CUSTOMS AND BORDER PROTECTION, PENSACOLA, FLORIDA + SEAL	MESSAGE TO BE VERIFIED BY CBP
06	**FI-002**	NOT USED	0	U.S. CUSTOMS AND BORDER PROTECTION, PENSACOLA, FLORIDA + SEAL	MESSAGE TO BE VERIFIED BY CBP
07	**RI-006**	RESTROOM 101	1	RESTROOM + MEN AND WOMEN PICTOGRAM (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
08	**RI-002**	JANITOR 102	1	ROOM # 102 (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
09	**NS-003**	PROCESSING AREA 103	3	AUTHORIZED PERSONEL ONLY + CBP SEAL AND SIGNATURE	PROVIDED BY CBP
10	**SS DISPLAY**	PROCESSING AREA 103	1	INSERTS PROVIDED BY CBP	STATUTORY PROVIDED BY CBP, SEE DETAIL 9/A804
11	**RI-002**	AG LAB/DIS ROOM 104	1	ROOM # 104 (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
12	**OS-002**	PROCESSING AREA 103	1	EMERGENCY EYE WASH	MESSAGE TO BE VERIFIED BY CBP
13	**FI-002**	PROCESSING AREA 103	1	U.S. CUSTOMS AND BORDER PROTECTION, PENSACOLA, FLORIDA + SEAL	MESSAGE TO BE VERIFIED BY CBP, SEE DETAIL 1/A803
14	**WF-124**	PROCESSING AREA 103	1	EXIT (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
15	**OS-001**	AG LAB/DIS ROOM 104	1	EMERGENCY SHOWER	MESSAGE TO BE VERIFIED BY CBP
16	**RI-001**	HOLD ROOM 108	1	ROOM # 108 HOLD (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
17	**RI-002**	CHASE 109	1	ROOM # 109	MESSAGE TO BE VERIFIED BY CBP
18	**RI-001**	SEARCH ROOM 107	1	ROOM # 107 SEARCH (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
19	**RI-001**	INTERVIEW ROOM 106	1	ROOM # 106 INTERVIEW (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
20	**NS-005**	CORRIDOR 110	1	AUTHORIZED PERSONEL ONLY + CBP SEAL AND SIGNATURE	PROVIDED BY CBP
21	**RI-001/NS-003**	SECURE STORAGE 111	1	ROOM # 111 (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
22	**RI-001**	LACTATION ROOM 124	1	ROOM # 124 LACTATION ROOM (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
23	**RI-001/NS-003**	LAN/SLAN 112	1	ROOM # 112 (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
24	**RI-001**	ENTRANCE OFFICE	1	ROOM # 113 ENTRANCE OFFICE (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
25	**RI-001**	SUPERVISOR'S OFFICE	1	ROOM # 123 OFFICE (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
26	**RI-001**	GENERAL STORAGE/FILE ROOM	1	ROOM # 115 STORAGE (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
27	**RI-001**	CONFERENCE ROOM 116	1	ROOM #116 CONFERENCE ROOM (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
28	**RI-001**	BREAK ROOM 121	1	ROOM # 121 BREAK ROOM (BRAILLE)	MESSAGE TO BE VERIFIED BY CBP
29	**RI-009**	LOCKER ROOM 117	1	WOMEN'S LOCKER ROOM (BRAILLE) + PICTOGRAM	MESSAGE TO BE VERIFIED BY CBP
30	**RI-005**	NOT USED	0	WOMEN (BRAILLE) + PICTOGRAM	MESSAGE TO BE VERIFIED BY CBP
31	**RI-008**	LOCKER ROOM 119	1	MEN'S LOCKER ROOM (BRAILLE) + PICTOGRAM	MESSAGE TO BE VERIFIED BY CBP
32	**RI-004**	NOT USED	0	MEN (BRAILLE) + PICTOGRAM	MESSAGE TO BE VERIFIED BY CBP
33	**NS-006**	EXTERIOR DOOR	2	DO NOT ENTER AUTHORIZED PERSONEL ONLY + SYMBOL	PROVIDED BY CBP
34	**NS-011**	EXTERIOR	3	NO SMOKING WITHIN 25 FEET BUILDING ENTRANCE	MESSAGE TO BE VERIFIED BY CBP
35	**NS-003**	EXTERIOR DOOR	4	AUTHORIZED PERSONEL ONLY + CBP SEAL AND SIGNATURE	PROVIDED BY CBP
36	**NS-006**	EXTERIOR	2	DO NOT ENTER AUTHORIZED PERSONEL ONLY (SMALL SIZE)	PROVIDED BY CBP
37	**FLAG**	EXTERIOR FLAGS	3		U.S.A., DHS, CBP, SIZE TO BE VEIRY
38	**FLAG**	INTERIOR FLAGS	6		U.S.A., DHS
39		EXTERIOR ENTRY DOORS	2	NO WEAPONS	MESSAGE TO BE VERIFIED BY CBP
40	**SS DISPLAY**	PUBLIC LOBBY 114	1	INSERTS PROVIDED BY CBP	PHOTOGRAPHY PROVIDED BY CBP, SEE DETAIL 10/A804
41	**SS DISPLAY**	PUBLIC LOBBY 114	1	INSERTS PROVIDED BY CBP	STATUTORY PROVIDED BY CBP, SEE DETAIL 11/A804
42	**NOT USED**				
43	**NOT USED**				
44	**NOT USED**				
45	**NS-003**	SECURE STORAGE 111	1	AUTHORIZED PERSONEL ONLY + CBP SEAL AND SIGNATURE	MESSAGE TO BE VERIFIED BY CBP
46	**NS-003**	LAN/SLAN 112	1	AUTHORIZED PERSONEL ONLY + CBP SEAL AND SIGNATURE	MESSAGE TO BE VERIFIED BY CBP

NOTE:
1. CBP TO PROVIDE VARIOUS SIGNAGE NOT LISTED OR SHOWN ON SIGNAG PLAN. THOSE SIGNES TO BE INSTALLED BY CONTRACTOR.



1 / A803 SURFACE MOUNTED INTERIOR SIGN

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REVISIONS

NO.	DESCRIPTION	DATE
1.	PROGRESS DRAWINGS	11/19/19

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REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
201-0052-002

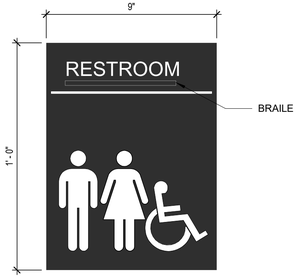
SHEET TITLE

SIGNAGE SCHEDULE

SHEET NUMBER

A803

BID DOCUMENTS



1 A804 SIGN TYPE RI-006 - RR
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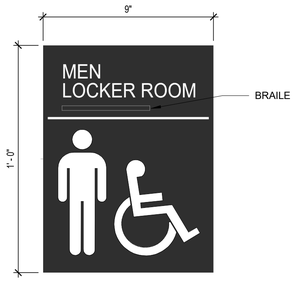

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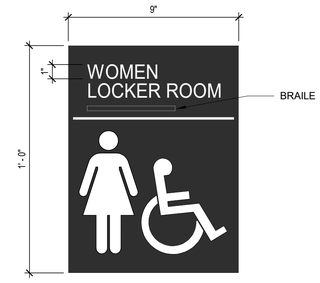

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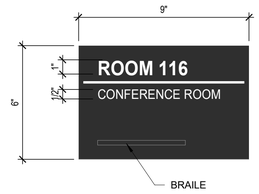

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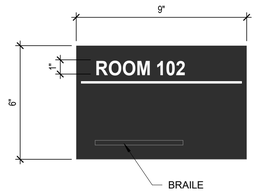

5 A804 SIGN TYPE RI-002
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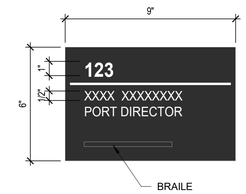

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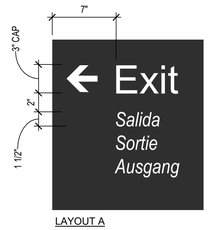

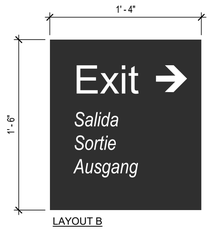

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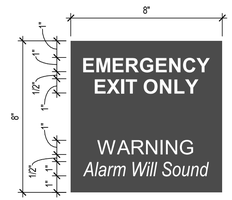

8 A804 SIGN TYPE R2
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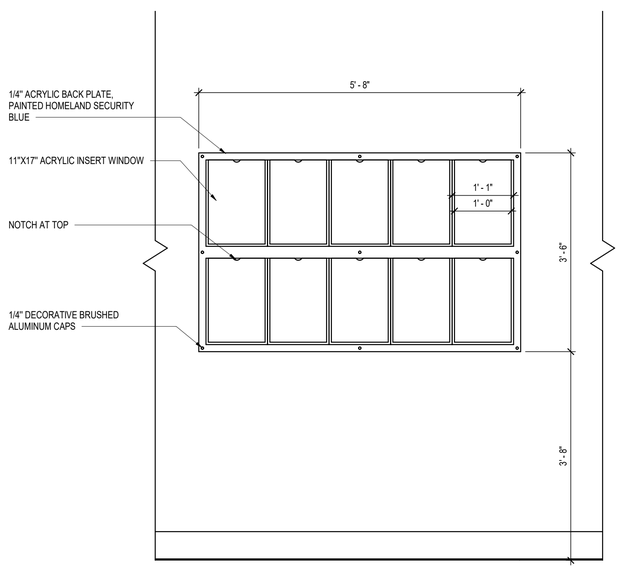
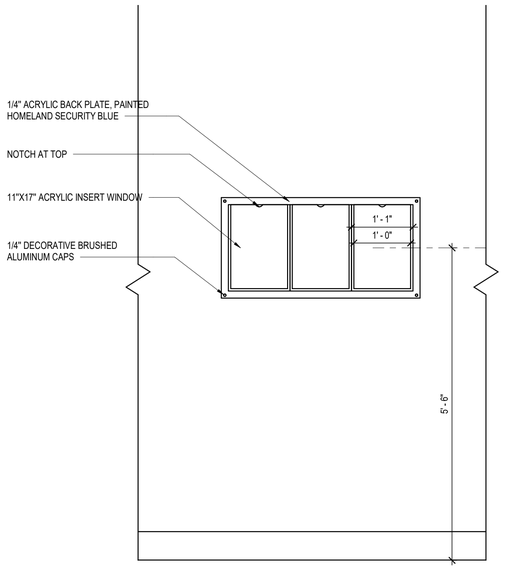


9 A804 WALL SIGN WITH WINDOW INSERTS
SCALE: 3/4" = 1'-0"



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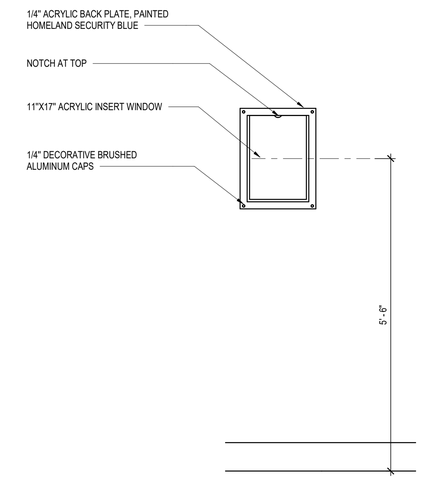
SCALE: 3/4" = 1'-0"



11 A804 WALL SIGN WITH WINDOW INSERTS
SCALE: 3/4" = 1'-0"

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201-0052-002

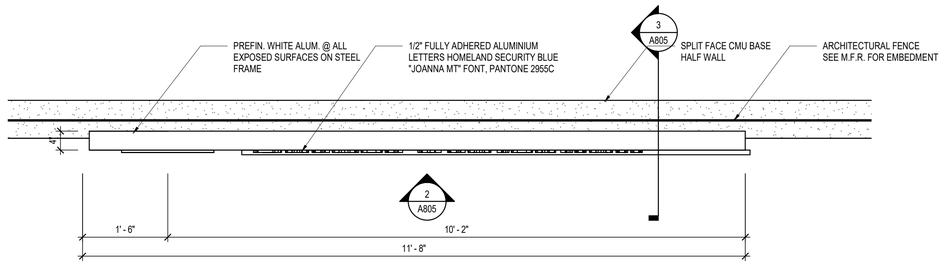
SHEET TITLE

SIGNAGE TYPES

SHEET NUMBER

A804

BID DOCUMENTS



1 A805 SURFACE MOUNTED SITE SIGN

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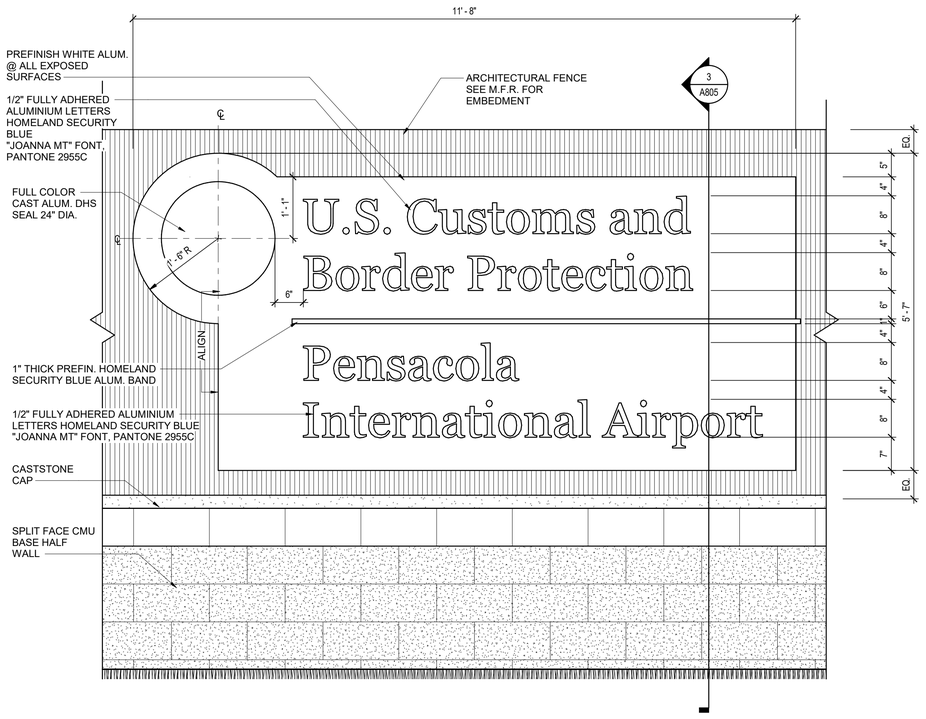

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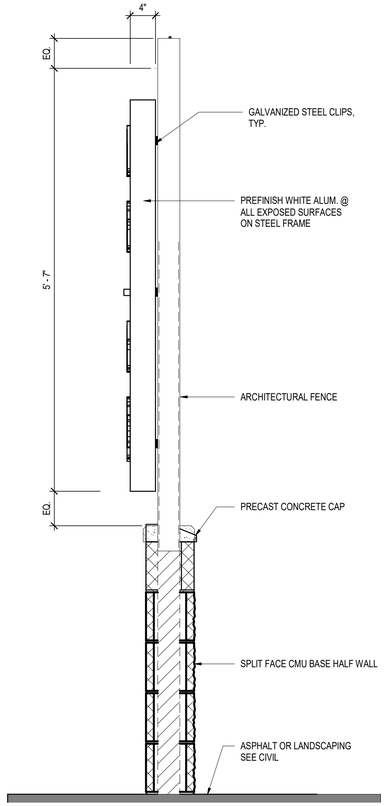

3 A805 SURFACE MOUNTED SITE SIGN

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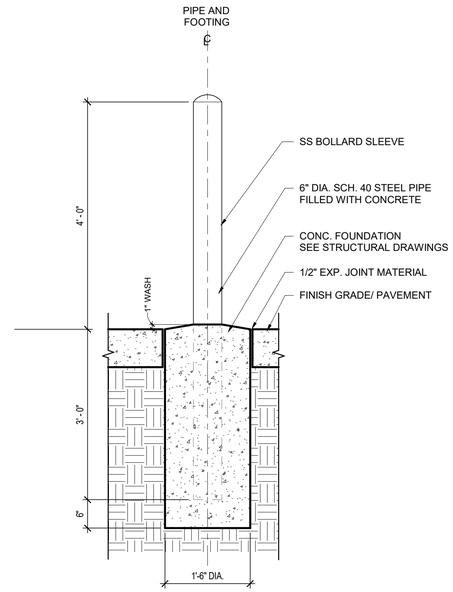

4 A805 BOLLARD, TYP.

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

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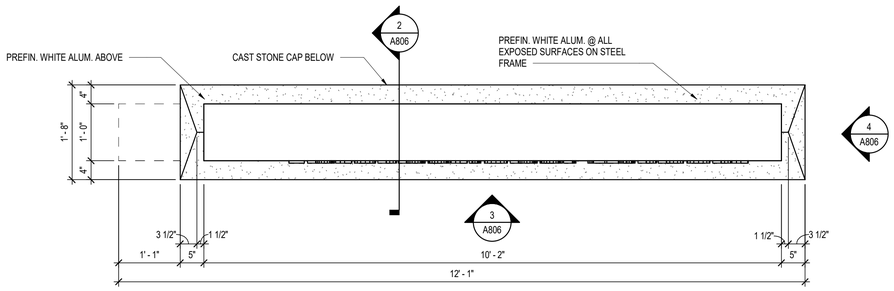
SITE DETAILS

SHEET NUMBER

A805

BID DOCUMENTS



1 A806 MONUMENT SIGN - PLAN

ADDITIVE ALTERNATE #1

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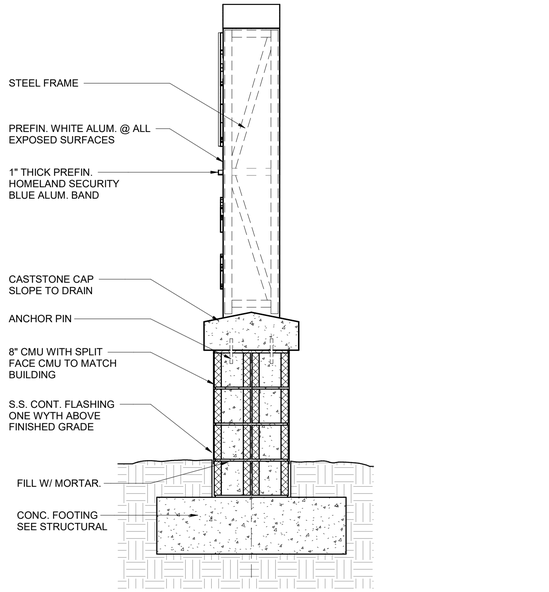

2 A806 MONUMENT SIGN - SECTION

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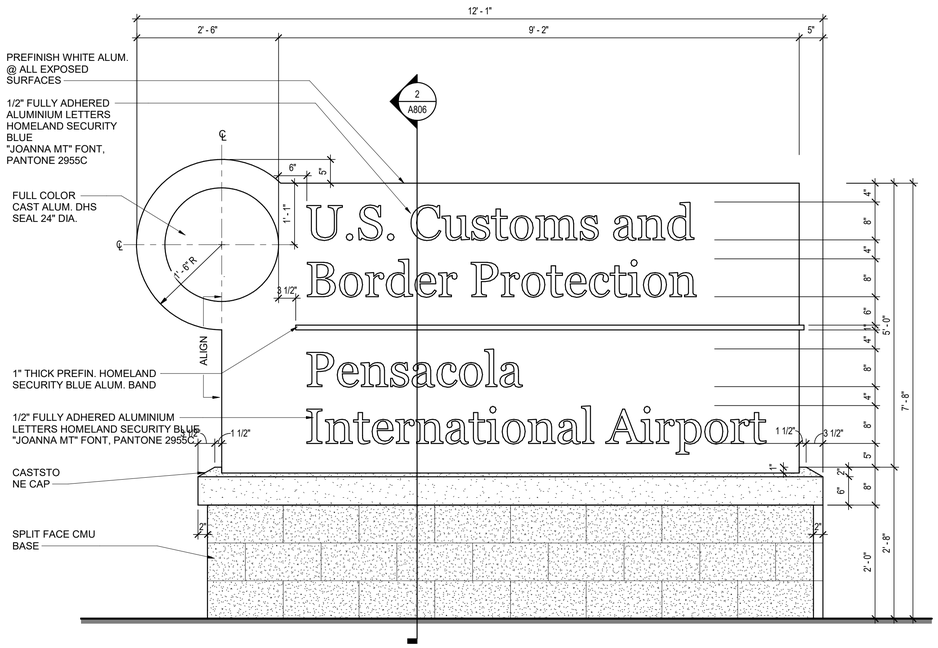

3 A806 MONUMENT SIGNE - FRONT ELEVATION

ADDITIVE ALTERNATE #1

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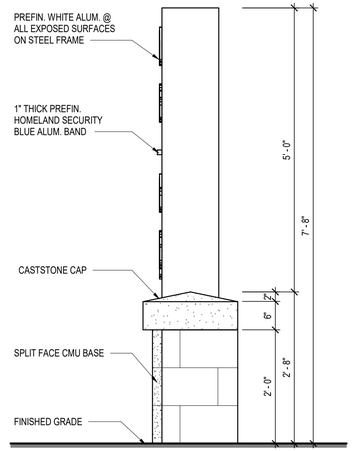

4 A806 MONUMENT SIGN - SIDE ELEVATION

ADDITIVE ALTERNATE #1

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

GENERAL SHEET NOTES

1. SURFACE MOUNTED SIGN IS A BASIS OF DESIGN.
2. MONUMENT SIGN IS THE ADDITIVE ALTERNATE #1. SURFACE MOUNTED SIGN CAN BE DELETED IF AIRPORT ACCEPTS ADDITIVE ALTERNATE #1.
3. FOR SURFACE MOUNTED SIGN LOCATION SEE EXTERIOR ELEVATION DRAWINGS, FOR MONUMENT SIGN LOCATION SEE ARCHITECTURAL SITE PLAN.

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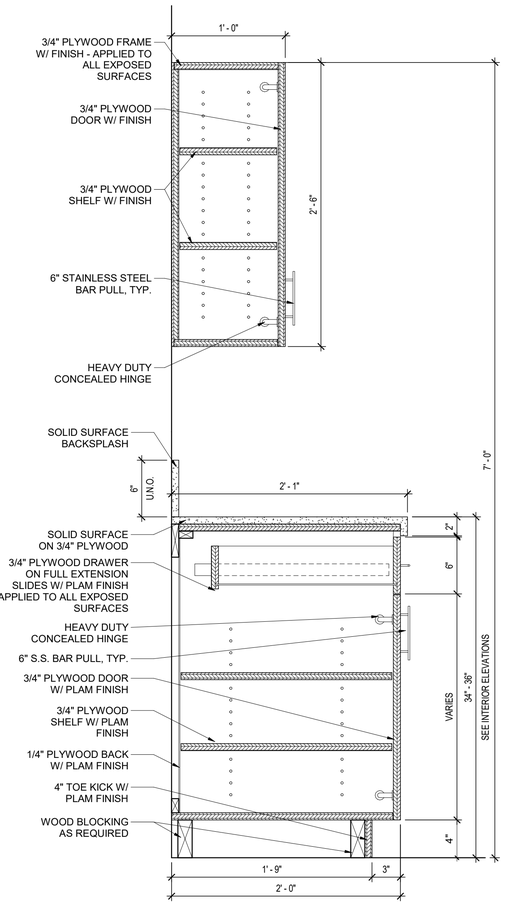
SHEET TITLE

SITE DETAILS ADDITIVE ALTERNATE #1

SHEET NUMBER

A806

BID DOCUMENTS



1 A810 **MILLWORK SECTION**
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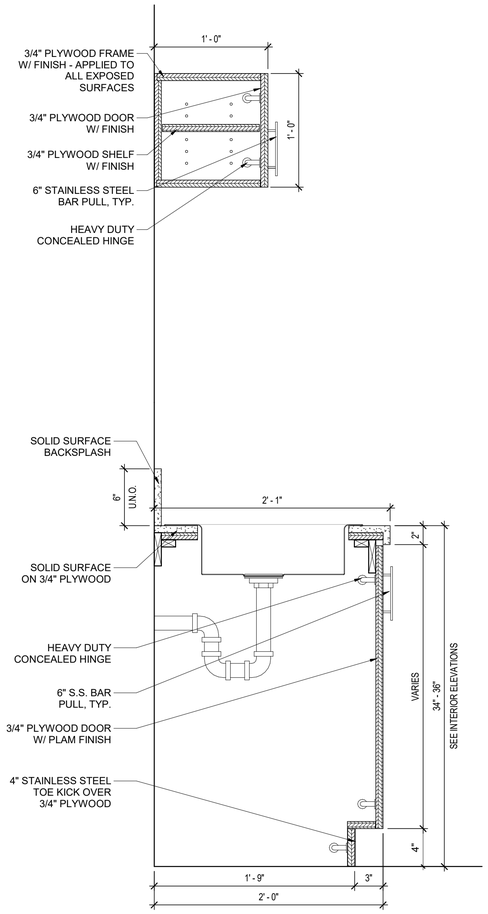

2 A810 **MILLWORK SECTION**
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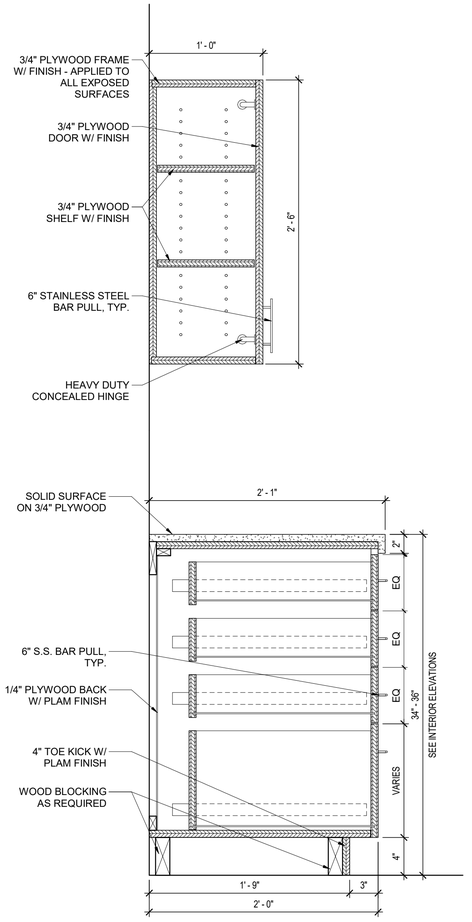

3 A810 **MILLWORK CABINET SECTION**
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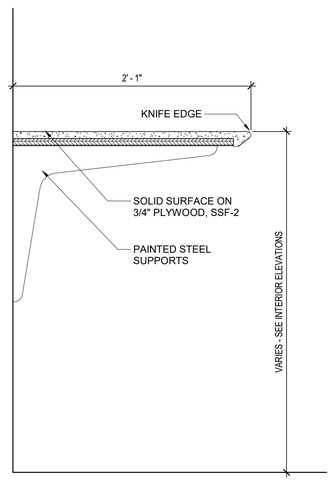

4 A810 **COUNTERTOP SECTION**
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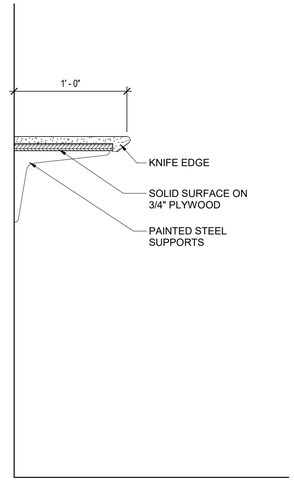

5 A810 **COUNTERTOP SECTION**
SCALE: 1 1/2" = 1'-0"

GENERAL SHEET NOTES

1. ALL CABINETS TO BE PLAM FINISH PL-2 WITH SOLID SURFACE COUNTERTOPS SSF-1 U.N.O.
2. FOR MORE INFORMATION ABOUT BAR PULLS FOR CABINETS SEE GENERAL NOTES ON SHEET A701
3. ALL PUBLIC COUNTERS TO BE SOLID SURFACE WITH KNIFE EDGE PROFILE

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MILLWORK DETAILS

SHEET NUMBER

A810

BID DOCUMENTS

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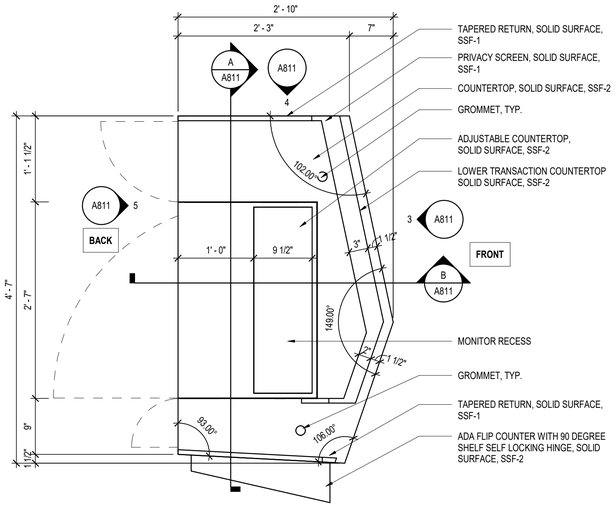

1 A811 PODIUM - PLAN DETAIL

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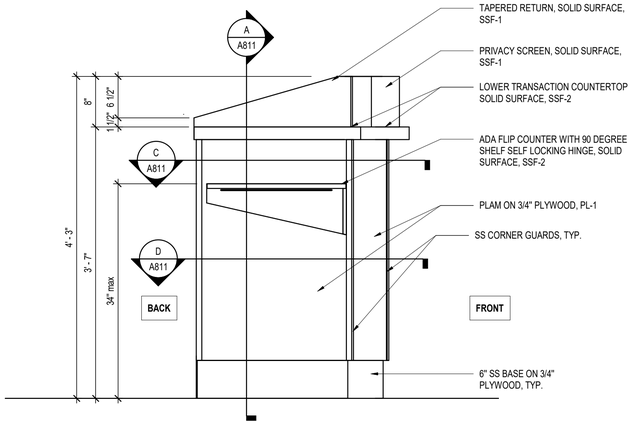

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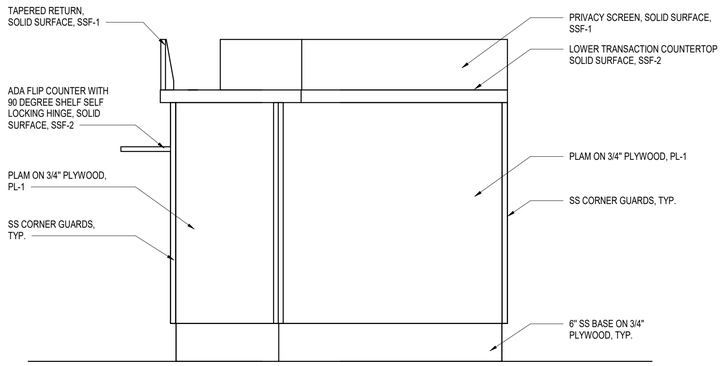

3 A811 PODIUM - FRONT ELEVATION

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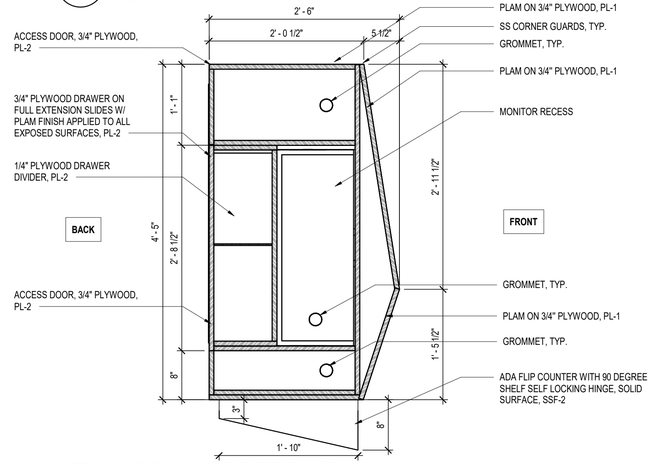

C A811 PODIUM - SECTION C

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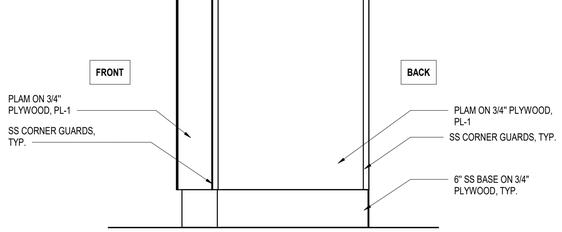

4 A811 PODIUM - SIDE ELEVATION

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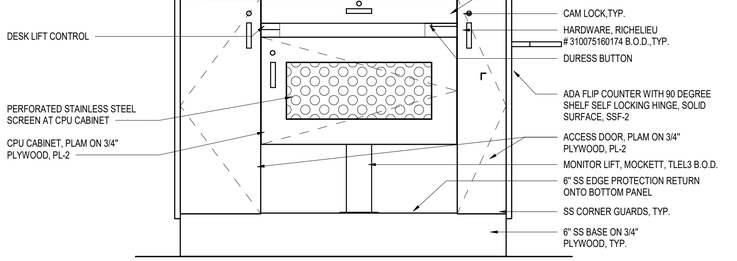

5 A811 PODIUM - BACK ELEVATION

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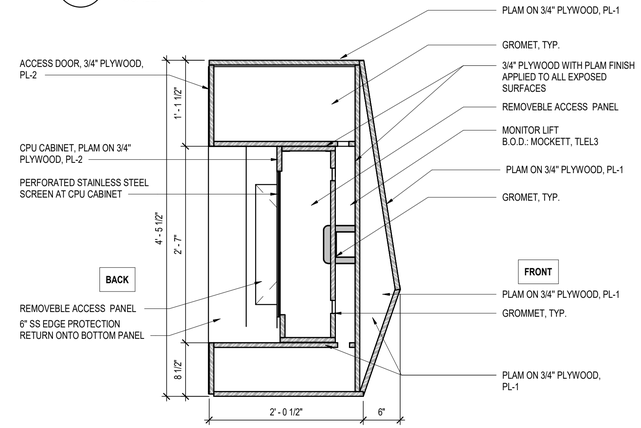

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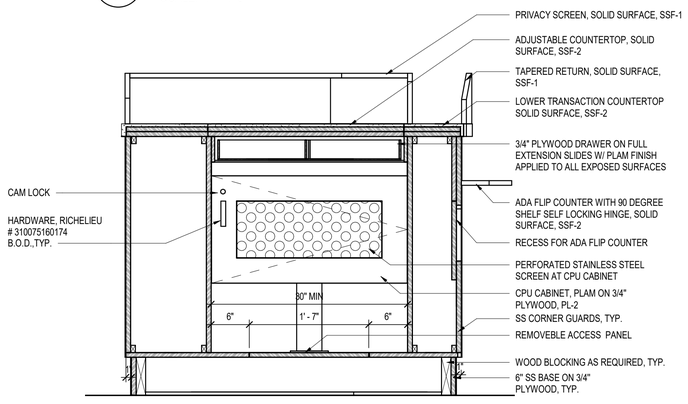

A A811 PODIUM - SECTION A

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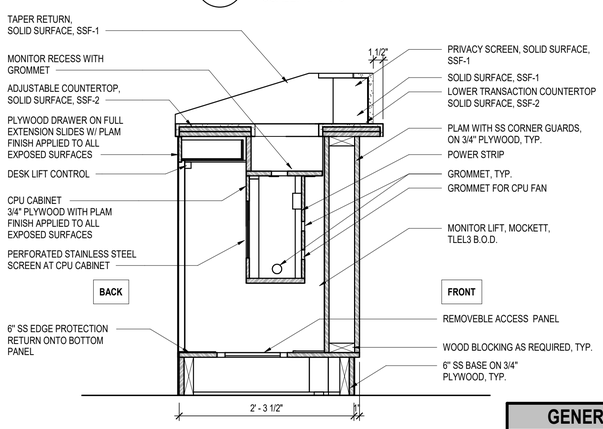

B A811 PODIUM - SECTION B

SCALE: 1" = 1'-0"

GENERAL SHEET NOTES

1. ALL PLAM OUTSIDE CORNERS AND EDGES TO RECEIVE STAINLESS STEEL CORNER GUADS .

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MILLWORK DETAILS

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A811

BID DOCUMENTS

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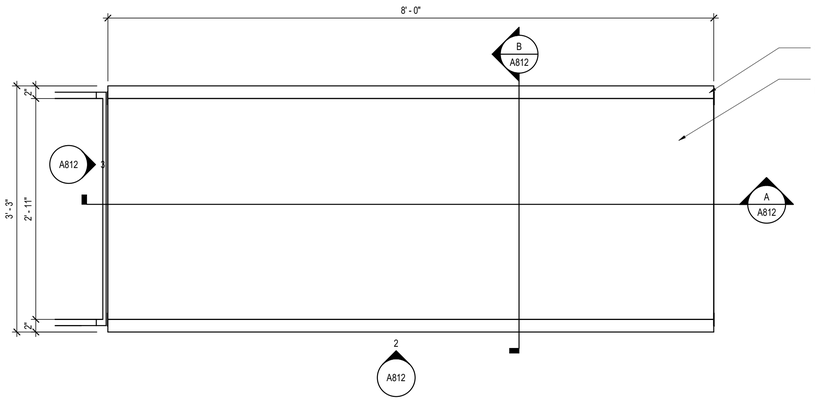

1 A812 PROCESSING TABLE - PLAN DETAIL
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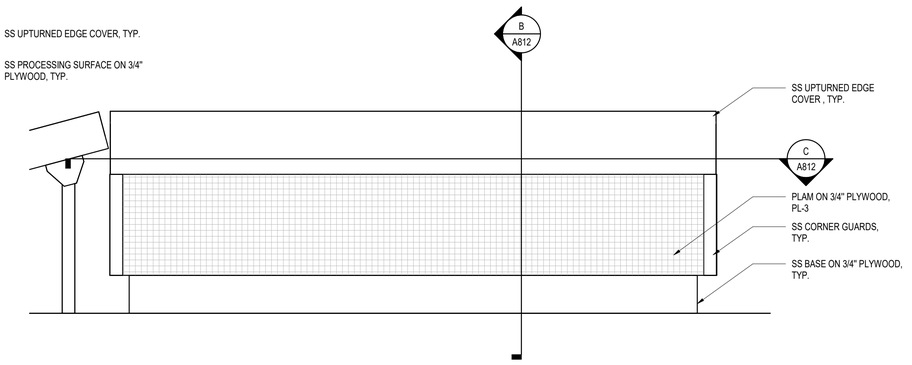

2 A812 PROCESSING TABLE - ELEVATION
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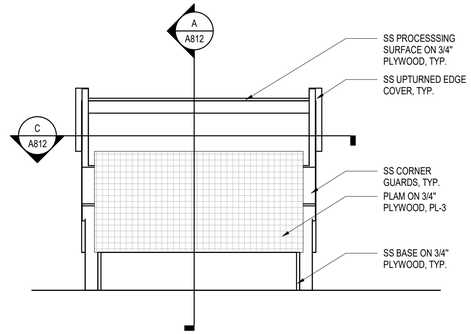

3 A812 PROCESSING TABLE - SIDE ELEVATION
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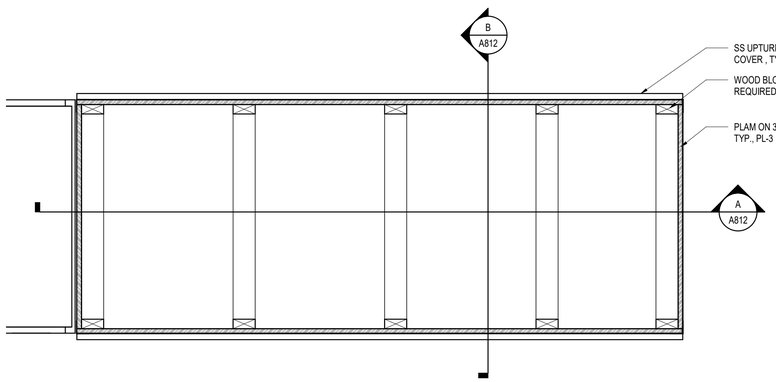

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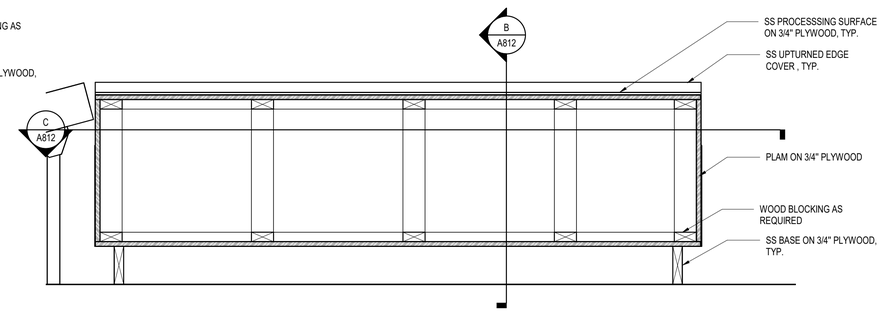

A A812 PROCESSING TABLE - SECTION A
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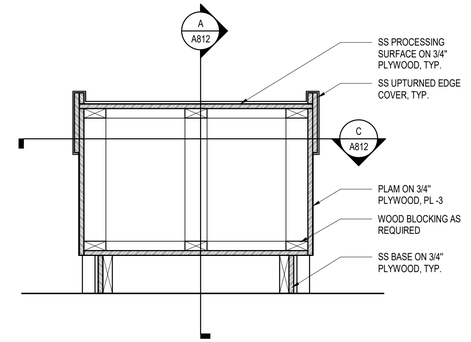

B A812 PROCESSING TABLE - SECTION B
SCALE: 1" = 1'-0"

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REVISIONS

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REVIEWED BY:	Checker
DRAWN BY:	Author
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PROJECT NUMBER:
201-0052-002

SHEET TITLE

MILLWOK DETAILS

SHEET NUMBER

A812

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1 F100 FIRE PROTECTION FLOOR PLAN

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

FIRE PROTECTION LEGEND

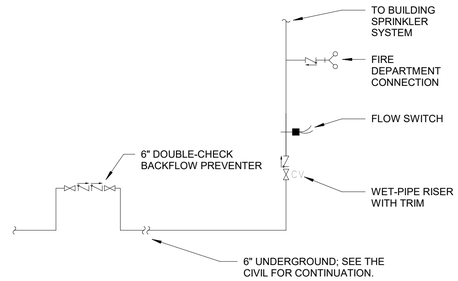
- PIPE
- CHECK VALVE
- C.V. CONTROL VALVE
- FIRE DEPARTMENT CONNECTION
- INSTITUTIONAL SPRINKLER
- UPRIGHT SPRINKLER
- CONCEALED SPRINKLER
- RISER ASSEMBLY

FLORIDA ADMISTRATIVE CODE 61G15 NOTES

1. THE POINT OF SERVICE OF THE FIRE PROTECTION SYSTEM IS THE 6" FIRE PROTECTION MAIN CONNECTION TO THE CITY WATER MAIN UPSTREAM OF THE BACKFLOW PREVENTER.
2. PROVIDE A WET-PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING FIRE CODE 2017 EDITION, FLORIDA FIRE PREVENTION CODE SIXTH EDITION (2017), NFPA 13 2013 EDITION AND LOCAL REQUIREMENTS.
3. OFFICES, CONFERENCE ROOMS, CORRIDORS, RESTROOMS, PROCESSING AREAS AND SIMILAR AREAS ARE LIGHT HAZARD. STORAGE ROOMS, EQUIPMENT ROOMS AND SIMILAR AREAS ARE ORDINARY HAZARD, GROUP 1.
4. PROVIDE 0.10 AND 0.15 GPM/SQ. FT. FOR LIGHT AND ORDINARY HAZARD GROUP 1 AREAS, RESPECTIVELY. THE DESIGN AREA IS THE MOST REMOTE 1,500 SQ. FT; REDUCTIONS MAY BE TAKEN WHERE PERMITED BY NFPA 13 2013 EDITION. PROVIDE QUICK RESPONSE ORDINARY TEMPERATURE SPRINKLERS THROUGHOUT. MAXIMUM SPACING SHALL NOT EXCEED 225 SQ FT PER SPRINKLER FOR LIGHT HAZARD AND 130 SQ FT FOR ORDINARY HAZARD GROUP 1. SPRINKLER SPACING SHALL NOT EXCEED 15 FT BETWEEN SPRINKLERS FOR BOTH LIGHT AND ORDINARY HAZARD GROUP 1.
5. THE WATER SUPPLY IS A LOOPED/GRIDDED CITY WATER MAIN.
6. A FLOW TEST WAS PERFORMED ON AUGUST 22, 2019 AT 11:05 AM. THE PRESSURE HYDRANT WAS SOUTH OF THE BUILDING SITE ON MAYGARDEN RD (FH #5906) AND THE FLOW HYDRANT WAS NORTH OF THE BUILDING SITE ON MAYGARDEN RD (FH #5907). THE STATIC PRESSURE WAS 53 PSI AND THE RESIDUAL PRESSURE WAS 43 PSI AT 950 GPM.
7. ALL FLOW AND TAMPER SWITCHES ARE TO BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
8. THERE ARE NO IDENTIFIED INSTANCES OF MICROBIAL INDUCED CORROSION.
9. THE BACKFLOW PREVENTER IS A DOUBLE DETECTOR CHECK ASSEMBLY WITH A MAXIMUM PRESSURE DROP OF 7 PSI.
10. ALL PIPING, SPRINKLERS AND COMPONENTS TO BE UL LISTED AND FM APPROVED FOR AUTOMATIC SPRINKLERS SYSTEMS.
11. BASED ON THE FLOW TEST, A FIRE PUMP IS NOT REQUIRED.
12. BASED ON THE FLOW TEST, NO FIREWATER STORAGE TANK IS REQUIRED.
13. NO HAZARDOUS STORAGE IN BUILDING. ALL STORAGE AREAS ARE GENERAL STORAGE. STORAGE DOES NOT EXCEED 8 FEET.

FIRE PROTECTION NOTES

1. PROVIDE WORKING DRAWINGS FROM THE ENGINEERED CONTRACT DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH NFPA 13 2013 EDITION. PROVIDE SPRINKLERS IN LOCATIONS INDICATED; HOWEVER, THE CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF ALL SPRINKLERS AND PIPING WITH ALL BUILDING COMPONENTS AND SYSTEMS. SUBMIT WORKING DRAWINGS TO THE FIRE MARSHALL FOR APPROVAL FOR THE AUTOMATIC SPRINKLER SYSTEM.
2. PROVIDE A WET-PIPE RISER WITH APPROPRIATE TRIM PER NFPA 13 2013 EDITION.
3. COORDINATE ROUTING OF PIPING, TEST CONNECTIONS, ETC. WITH PLUMBING AND MECHANICAL (HVAC) ROUTING. PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELS, ETC. PER NFPA 70.
4. ALL TEST/DRAIN LINES (MORE THAN 5 GALLONS) SHALL DISCHARGE DIRECTLY TO THE EXTERIOR WITH THE APPROPRIATE SPLASH PROTECTION. WORKING DRAWINGS SHALL INDICATE THE LOCATION OF ALL TEST/DRAIN VALVES AND DISCHARGE POINTS.
5. ALL PIPES SERVING A SINGLE SPRINKLER SHALL BE 1 INCH MINIMUM. PROVIDE ASTM A 53 SCHEDULE 40 STEEL PIPE FOR WELDED, THREADED, AND GROOVED FITTINGS ONLY. PROVIDE ASTM A135 OR A795 SCHEDULE 10 STEEL PIPE FOR WELDED OR ROLLED-GROOVE FITTINGS ONLY.
6. LOCATE AND PROVIDE SPRINKLERS UNDER ALL OBSTRUCTIONS LARGER THAN 48".
7. PROVIDE 1/2-INCH QUICK RESPONSE CONCEALED PENDENT (ORDINARY TEMPERATURE) IN ALL AREAS WITH FINISHED CEILINGS, AS INDICATED ON THE DRAWINGS. SPRINKLERS SHALL BE CENTERED IN CEILING TILE (BOTH DIRECTIONS). SPRINKLERS IN GYPSUM BOARD CEILINGS SHALL BE INSTALLED UNIFORMLY AND CENTERED WITH RESPECT TO LIGHTS, ETC. SPRINKLER TYPES ARE SUMMARIZED AS INDICATED.
8. PROVIDE HANGERS IN ACCORDANCE WITH NFPA 13 2013 EDITION. HANGERS SHALL BE ATTACHED TO THE TOP CORD OF BEAMS OR JOISTS.
9. PROVIDE AUTOMATIC RELEASE VALVES AND PRESSURE RELIEF VALVES ON ALL WET-PIPE SYSTEMS INSTALLED IN ACCORDANCE WITH 2013 NFPA 13 AND MANUFACTURERS RECOMMENDATIONS. THE DISCHARGE OF BOTH VALVES SHALL BE PIPED TO A SYSTEM DRAIN OR DIRECTLY TO THE EXTERIOR.



RISER SCHEMATIC

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DRAWN BY:	KMD
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FIRE PROTECTION FLOOR PLAN

SHEET NUMBER

F100

BID DOCUMENTS

Sheet Size: ARCH E 22X34

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED CONDITIONS AND UTILITIES, PIPE SIZES, LOCATIONS, MATERIALS, ETC., BEFORE BID, STARTING WORK OR ORDERING MATERIALS AND INCLUDE MINOR ADJUSTMENTS TO ADAPT DESIGN TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

2. THE CONTRACTOR SHALL COORDINATE THE PLUMBING SYSTEMS INSTALLATION WITH WORK OF STRUCTURE, HVAC, ELECTRICAL, CASEWORK, LAB SERVICE EQUIPMENT AND RELATED TRIM, ETC., TO PRECLUDE INTERFERENCE.

3. EQUIPMENT AND MATERIALS, ETC., SPECIFIED OR SCHEDULED OR NOTED ON THE DRAWINGS, METHODS DETAILED AND PIPING MATERIALS INDICATED ON THE DRAWINGS SUPERCEDE ONLY ANY CONFLICTING SPECIFICATION ARTICLES AND/OR REQUIREMENTS OF DIVISION 22 REGARDING PLUMBING MATERIALS, METHODS, ETC. THIS INCLUDES MATERIALS SPECIFIED, LEGEND ITEMS REPRESENTED SYMBOLICALLY ON THE DRAWINGS AND IDENTIFIED IN THE LEGEND DESCRIPTIONS OR ABBREVIATIONS DESCRIPTIONS.

4. ADJUST FLOW & TEMPERATURE TO SPECIFIED FLOW & TEMPERATURE FOR ALL FIXTURES PER 2017 FLORIDA BUILDING CODE - PLUMBING, SIXTH EDITION; ADJUST SENSOR / METERING FAUCET TO OPERATE FOR 15 SECONDS AND MAXIMUM MIXED WATER TEMPERATURE TO BE 110 DEGREES FAHRENHEIT AT EVERY SENSOR / MIXING FAUCET EXCEPT JANITOR AND FOOD SERVICE FAUCETS.

5. INSTALL ALL PLUMBING MATERIALS, TRIM ACCESSORIES AND RELATED ITEMS IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS AND AS SHOWN ON THE PLUMBING DRAWINGS.

6. DIRECTIONAL CHANGES IN THE HORIZONTAL PLANE OF S, W, GW, ESD AND SD (ALL DRAINAGE) PIPING SYSTEMS SHALL NOT USE QUARTER BENDS OR SHORT SWEEP QUARTER BENDS AND SHALL NOT EXCEED 45 DEGREES UNLESS AN FCO OR WCO IS PROVIDED. PIPING IS INSTALLED AND COORDINATED WITH ALL BUILDING ELEMENTS IN THE FIELD, PROVIDE FCO'S OR WCO'S FOR HORIZONTAL ROUTES OR BRANCHES OF ALL DRAINAGE PIPING SYSTEMS WITH MORE THAN ONE OFFSET OR CHANGE IN DIRECTION EVERY 40 FEET (MAXIMUM SPACING FOR MULTIPLE OFFSETS) OF DEVELOPED LENGTH OF DRAINAGE PIPING.

7. UON ON THE PLUMBING DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LAYOUTS AND EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, EMERGENCY ROOF DRAINS, DOWNSPOUT NOZZLES, AREA DRAINS, ETC. WHERE DIMENSIONS ARE NOT GIVEN CENTERLINE FIXTURE PLACEMENT, MOUNTING HEIGHTS, SPOUT HEIGHTS, ETC., SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (2017) AND FLORIDA PLUMBING CODE (2017).

8. THE CONTRACTOR SHALL PAY ALL REQUIRED WATER, GAS AND SANITARY PERMITS, TAPS (UTILITY CONNECTIONS), METERS, CROSS-CONNECTIONS (BACKFLOW PREVENTERS) PERMIT, INSPECTION AND TEST FEES AND OTHER FEES AS MAY BE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

9. PROVIDE CAST IRON DEEP SEALING TRAPS BELOW FLOOR DRAINS AND FLOOR SINKS REGARDLESS WHETHER PIPING MATERIAL IS PVC OR CAST IRON.

10. PROVIDE CAST IRON CLEANOUT TEES FOR WCO AND CAST IRON COOG AND FCO INCLUDING CLEANOUT BODY, PIPING AND FITTINGS EXTENDED TO PIPING SERVED.

11. SANITARY OR WASTE BRANCHES IN WALLS SERVING LAVATORIES, SINKS, URINALS, HANDSINKS AND SIMILAR FIXTURES SHALL BE COPPER DWV OR PVC TUBE AND FITTINGS. WYES, TEES, CROSSES AND COMBINATION WYE AND 1/8 BENDS AT SANITARY OR WASTE STACKS SHALL BE PROVIDED WITH WASTE ARM ELBOWS IN WALL, ALL OF WHICH SHALL NOT PENETRATE FACE OF WALL; PROVIDE ELBOWS IN WALL ON WASTE ARM TO ENSURE STACK FITTING CONCEALMENT.

12. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (BUILDING, PLUMBING & MECHANICAL 2017 EDITIONS) AND NFPA 101 LIFE SAFETY CODE (LATEST EDITION). ALL CENTERLINE FIXTURE PLACEMENT, MOUNTING HEIGHTS, SPOUT HEIGHTS, ETC., SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (BUILDING & PLUMBING 2017 EDITIONS).

13. ALL PLUMBING WORK SHALL BE INSTALLED IN A PROFESSIONAL, NEAT AND WORKMANLIKE MANNER FOR COMMERCIAL CONSTRUCTION.

14. ALL MODIFICATIONS TO THE PLUMBING WORK SHALL BE RECORDED IN DETAIL ON THE AS-BUILT DRAWINGS AS REQUIRED PER THE PROJECT SPECIFICATIONS IN THE PROJECT MANUAL.

15. DIELECTRIC UNIONS SHALL BE PROVIDED ON ONE SIDE OF THREADED BALL VALVES, GATE VALVES, CHECK VALVES AND CIRCUIT BALANCING VALVES. PROVIDE DIELECTRIC UNION ON THE UPSTREAM SIDE OF BRAZED OR SOLDERED VALVES. DIELECTRIC UNIONS ARE NOT BE REQUIRED ON THREE PIECE, UNION, FULL PORT, BALL VALVES.

18. ALL PIPING BELOW FLOOR AND BELOW GRADE SHALL BE INSTALLED WITH 4.5 MIL FOIL DETECTABLE UNDERGROUND WARNING AND IDENTIFICATION TAPE INSTALLED A MAXIMUM OF 8" ABOVE TOP OF PIPING. FOR PIPING DEEPER THAN 32" BELOW FLOOR / GRADE PROVIDE ADDITIONAL WARNING AND IDENTIFICATION TAPE(S) AT 24" DEPTH INTERVALS ALONG ENTIRE LENGTH OF PIPING. WHERE PIPING RISES TO ABOVE GRADE OR FLOOR SECURELY TERMINATE TAPE AND PROVIDE ENGRAVED PHENOLIC NAMEPLATES PERMANENTLY SECURED ADJACENT TO PENETRATION. NAMEPLATE TEXT SHALL IDENTIFY PIPING SERVICE, MATERIAL AND WHERE PIPING EXTENDS TO.

19. INSTALL CAST IRON SANITARY AND VENT PIPING AND COPPER WATER PIPING IN RETURN AIR PLENUMS. PLASTIC OR PVC PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS.

20. WHERE VALVES ARE INSTALLED ABOVE CEILING, PROVIDE VISUAL IDENTIFICATION AT CEILING GRID ACCESS OR AT ACCESS PANELS. IDENTIFICATION SHALL BE VISIBLE FROM BELOW CEILING. THIS IS IN ADDITION TO MECHANICAL IDENTIFICATION REQUIREMENTS SPECIFIED IN THE PROJECT MANUAL. PROVIDE AP AT HARD (GYPSUM BOARD OR PLASTER) CEILINGS TO ACCESS AND MAINTAIN VALVES.

21. ALL EQUIPMENT AND MATERIALS NEED TO COMPLY TO BAA - BUY AMERICAN ACT.

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AAV	AIR ADMITTANCE VALVE, INSTALLED ACCESSIBLE WITH FRESH AIR LOUVER
AC	ABOVE CEILING (GENERALLY INDICATES NOTED PIPING INSTALLED ABOVE CEILING
ACT	REMOVABLE LAY-IN ACOUSTICAL CEILING TILE ASSEMBLY
AF	ABOVE FLOOR - REFERENCE TO TOP OF FINISHED FLOOR ELEVATION (UON)
BF	BELOW FLOOR (GENERALLY INDICATES NOTED PIPING INSTALLED BELOW FLOOR)
BG	BELOW GRADE (GENERALLY INDICATES NOTED PIPING INSTALLED BELOW GRADE, APRON AND / OR lst FLOOR)
BTSP	SINGLE FLOOR DRAIN BATTERY OPERATED TRAP SEAL PRIMER
CI	CAST IRON PIPING, FITTINGS AND COUPLINGS, ETC., (CAST IRON MATERIAL)
CP	CHROME PLATED FINISH ON SPECIFIED PIPING, MATERIAL OR EQUIPMENT
CU	COPPER PIPING, MATERIAL OR EQUIPMENT; TYPE OF COPPER INDICATED
CWV	COMBINATION WASTE AND VENT; ENGINEERED PIPING SYSTEM
DI	DUCTILE IRON PIPING, FITTINGS AND COUPLINGS, ETC., (DUCTILE IRON MATERIAL)
ETSP	MULTIPLE ELECTRONIC FLOOR DRAIN TRAP SEAL PRIMER
GPM	GALLONS PER MINUTE (UNITED STATES)
IE	PIPING INVERT ELEVATION - REFERENCE TO FINISHED GROUND LEVEL FLOOR SLAB ELEVATION 0.00', UON
PVC	POLYVINYL CHLORIDE PIPING, FITTINGS AND COUPLINGS, ETC., (POLYVINYL CHLORIDE MATERIAL)
SF	SQUARE FEET OF HORIZONTALLY PROJECTED ROOF SURFACE AREA INCLUDING VERTICAL WALLS
SS	STAINLESS STEEL PIPING, FITTINGS AND COUPLINGS, ETC., (STAINLESS STEEL MATERIAL)
TPRV	ASME APPROVED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE
TSP	SINGLE FLOOR DRAIN TRAP SEAL PRIMER (ADDED SUFFIX LETTERS INDICATE MULTIPLE DRAINS)
TYP	TYPICAL AND TYPICAL AS SHOWN
UON	UNLESS OTHERWISE NOTED
VTR	VENT-THRU-ROOF; VANDAL-PROOF, WITH SKIRT, BOOT, FLASHING AND HOOD
X OR XW	"EXISTING" OR "EXISTING WATER CLOSET" (OR OTHER) PREFIX STANDARD. PIPING ABBREV. WITH "X" FOR EXISTING PIPING

PLUMBING LEGEND

ABBREVIATION	DESCRIPTION
S	SANITARY DRAINAGE PIPING (HUMAN WASTE)
W	WASTE DRAINAGE PIPING (NON-HUMAN WASTE)
V	SANITARY OR WASTE DRAINAGE VENT PIPING
SD	STORM DRAINAGE PIPING (PRIMARY)
ESD	EMERGENCY STORM DRAINAGE PIPING (SECONDARY)
CW	DOMESTIC COLD WATER PIPING
HW	DOMESTIC HOT WATER PIPING (110 DEGREES F)
HWR	DOMESTIC HOT WATER RECIRCULATION PIPING (110 DEGREES F)
G	NATURAL GAS PIPING
BV	BALL VALVE; THREE PIECE, FULL PORT, SS BALL AND STEM; MSS-SP-10, ASTM B62 BRONZE, THREADED WITH UNION
	VALVE (BV, UON) LOCATED IN VERTICAL RISER; PROVIDE GATE VALVE AND SPECIFIED TRIM AT MAIN RISER.
CBV	CAST BRONZE THREADED CIRCUIT BALANCING VALVE (WITH MEMORY STOP & CHECK VALVE): 0.66 - 12 GPM
CV	HORIZONTAL SWING CHECK VALVE WITH THREADED ENDS; MSS-SP-80, ARROW INDICATES DIRECTION OF FLOW
UN	DIELECTRIC UNION
WA	WATER HAMMER ARRESTER (LETTER INDICATES PDI RATING)
	ELBOW, PLAN VIEW
	ELBOW, PLAN VIEW (45 DEGREES)
	ELBOW, TURNING DOWNWARD
	ELBOW, TURNING UPWARD
	BRANCH TEE OUT OF TOP OF PIPING
	BRANCH TEE OUT OF BOTTOM OF PIPING
	BRANCH TEE OUT OF SIDE OF PIPING
	DRAINAGE WYE, PLAN VIEW
	DRAINAGE COMBINATION WYE AND ONE-EIGHTH BEND, PLAN VIEW
FCO	CAST IRON FLOOR CLEANOUT, BRONZE PLUG, SQUARE STAINLESS STEEL TOP TO MATCH FLOOR FINISHES
WCO OR WCO	CAST IRON WALL CLEANOUT TEE, BRONZE PLUG, WITH CHROME PLATED BRONZE FRAME & ACCESS COVER
COOG	CAST IRON CLEANOUT ON GRADE IN 12"x12"x4" CONCRETE PAD, TRACTOR COVER AND BRONZE PLUG
VTR	VENT THRU ROOF, STONEMAN VANDAL PROOF VENT FLASHING ASSEMBLY WITH SKIRT
FD1 FD2 FD3 FD4	FLOOR DRAINS WITH CAST IRON DEEP SEALING TRAP & PRIMER TAP (NUMBER INDICATES TYPE)
	FLOOR DRAIN, FLOOR SINK OR HUB DRAIN DRAINED THROUGH RUNNING TRAP PROVIDED WITH FCO
	HUB DRAIN (HD) OR EQUIPMENT DRAIN (ED) WITH DEEP SEALING TRAP & PRIMER TAP
TP	TRAP PRIMER PIPING - TYPE L SOFT COPPER TUBING - NO FITTINGS BELOW FIRST FLOOR
AP OR AP	ACCESS PANEL, RECESSED, FLUSH ENAMELED STEEL, LOCKING, FIRE RATED IN RATED CONSTRUCTION
PG	PRESSURE GAUGE AND SNUBBER; LARGE DIAL; METRIC (kPa) AND ENGLISH (PSIG) UNITS
GC	GAUGE COCK; IN PRESSURE SENSING TUBING TO GAUGE(S)
T	THERMOMETER AND THERMOMETER WELL; 9" TALL MINIMUM; ADJUSTABLE; METRIC (kPa) AND ENGLISH (PSIG) UNITS
SWR1	PLAN / SECTION LETTER OR DETAIL NUMBER / RISER DIAGRAM IDENTIFICATION
P201	SHEET NUMBER WHERE PLAN, SECTION, DETAIL OR RISER DIAGRAM IS DRAWN

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PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

P001

BID DOCUMENTS

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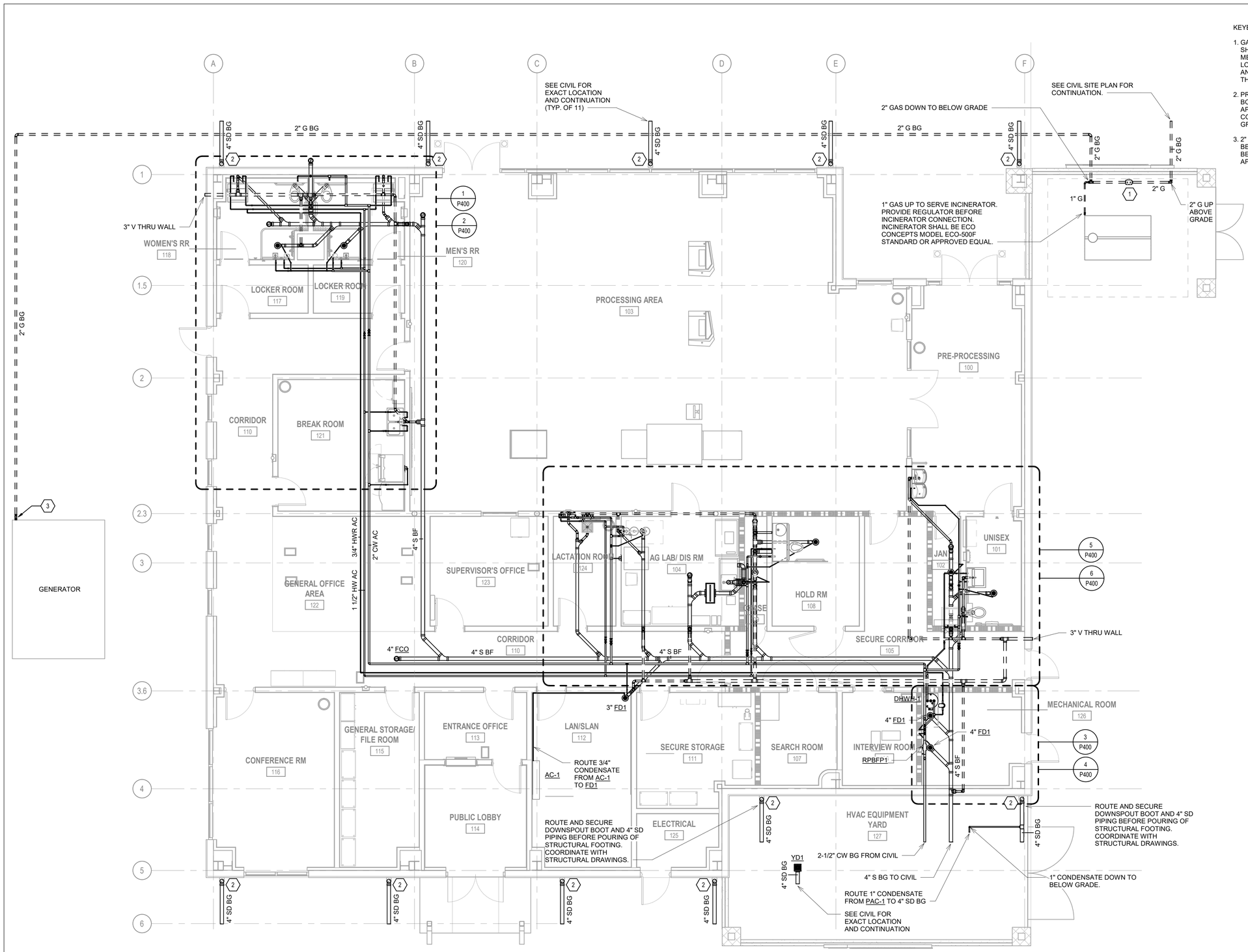

KEYED NOTES: 0

1. GAS METER AND REGULATOR LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING GAS METER AVAILABLE PRESSURE AND GAS LINE WITH LOCAL GAS UTILITY. LOCAL GAS UTILITY TO INSTALL AND MAINTAIN ALL PIPE UP TO THE METER INCLUDING THE MAINTENANCE OF THE METER.
2. PROVIDE J.R. HOE AND SONS 6" x 6" OFFSET DOWNSPOUT BOOT WITH RUBBER ADAPTER CONNECTION, OR APPROVED EQUAL. 24" LENGTH AND 5.875" OUTLET, CONTINUE 4" STORM PIPING AFTER THE BOOT TO BELOW GRADE.
3. 2" GAS UP TO SERVE GENERATOR. PROVIDE REGULATOR BEFORE GENERATOR CONNECTION. GENERATOR SHALL BE CAT DG250 GC SPARK-IGNITED GENERATOR SET OR APPROVED EQUAL.

1 P100 OVERALL PLUMBING FLOOR PLAN
SCALE: 3/16" = 1'-0"

PN
TN
4 0 4 8 12
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OVERALL PLUMBING FLOOR PLAN

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P100

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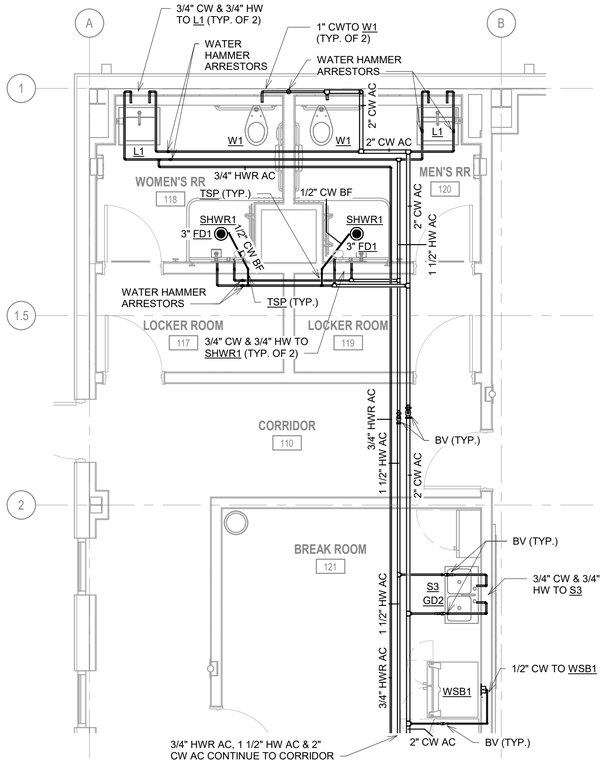
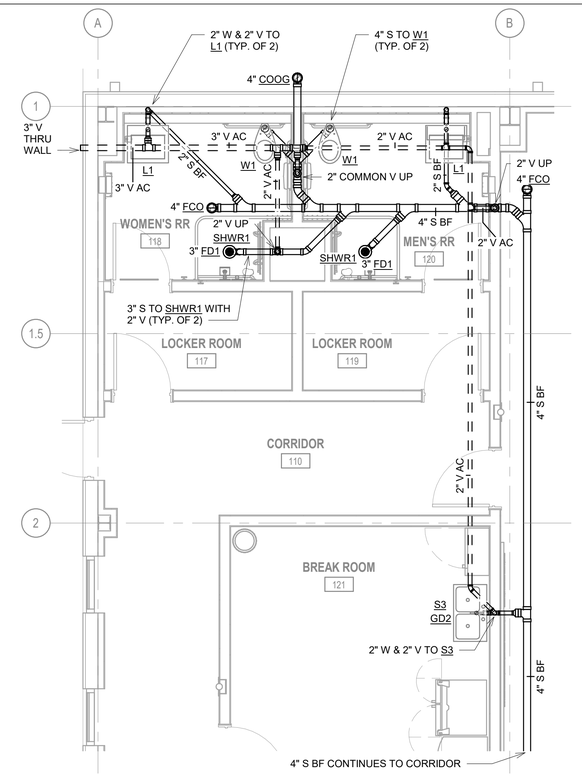


1 P400 **RESTROOMS ENLARGED PLAN - WATER**

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



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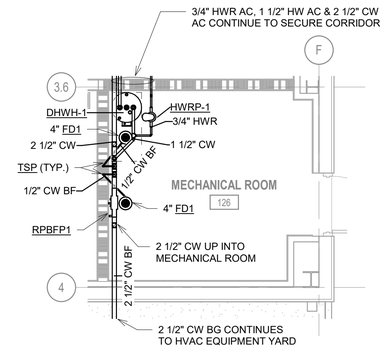
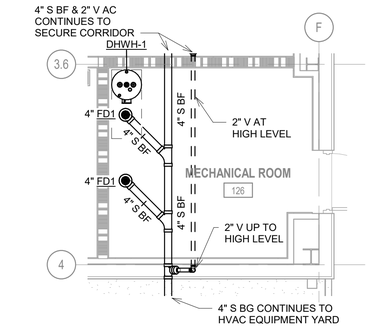


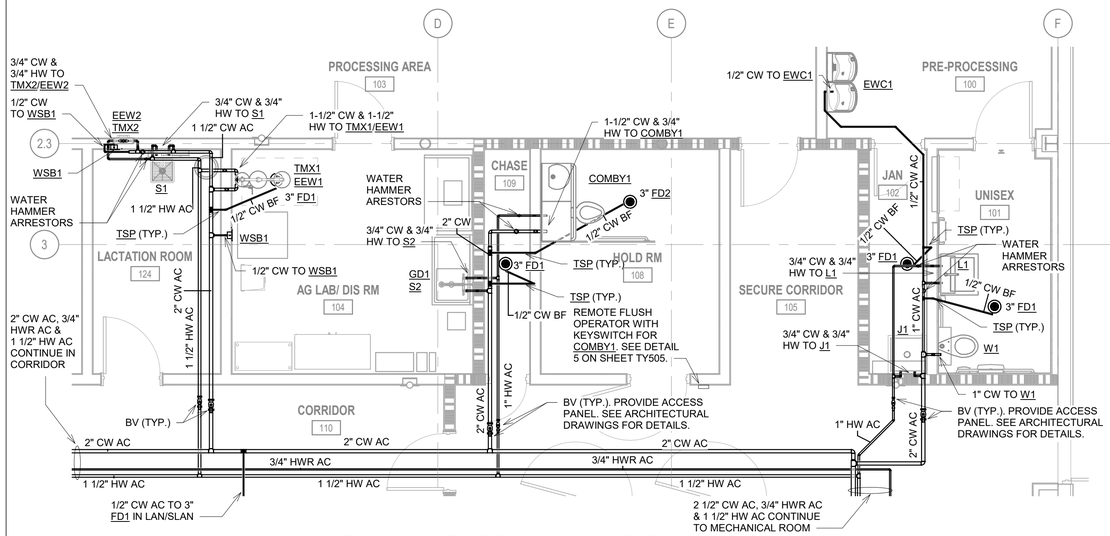
3 P400 **MECHANICAL ROOM ENLARGED PLAN - WATER**

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



4 P400 **MECHANICAL ROOM ENLARGED PLAN - DWV**

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



5 P400 **ENLARGED PLAN - WATER**

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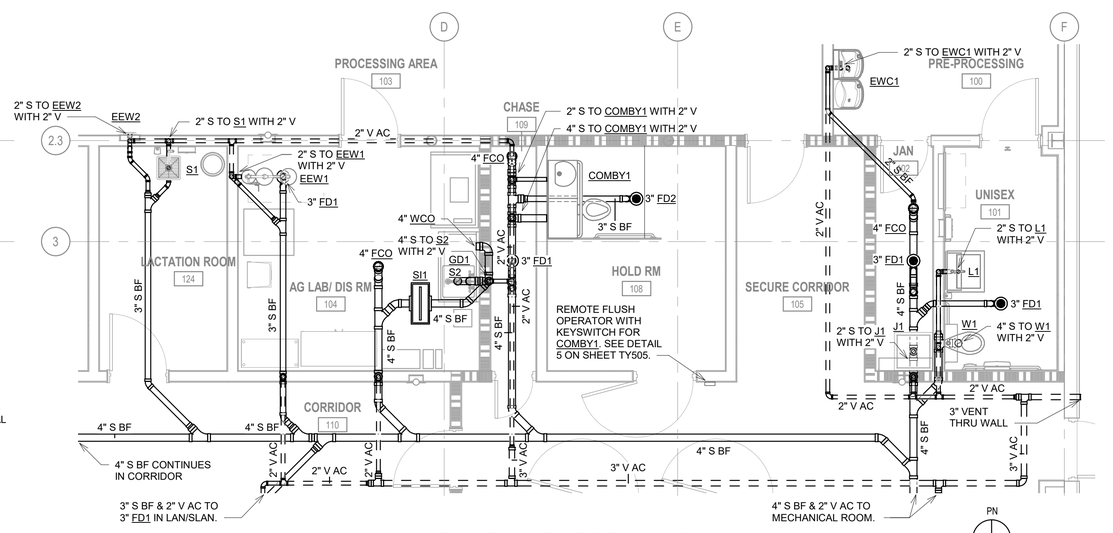

6 P400 **ENLARGED PLAN - DWV**

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

3/2/2020 2:59:06 PM BIM 360://PNS GAF/2010052001_PNS GAF_P_R19.rvt

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	JB
DRAWN BY:	KMD
DESIGNED BY:	JB/KMD
PROJECT NUMBER:	201-0052-002

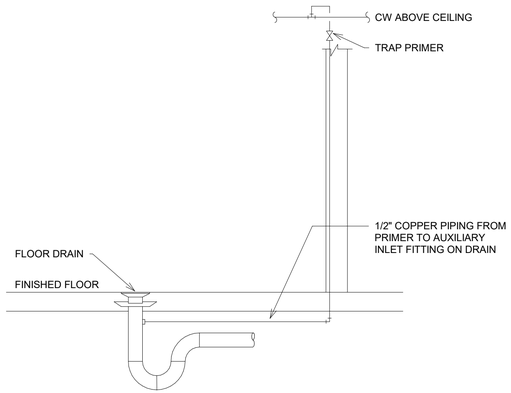
SHEET TITLE

PLUMBING ENLARGED PLANS

SHEET NUMBER

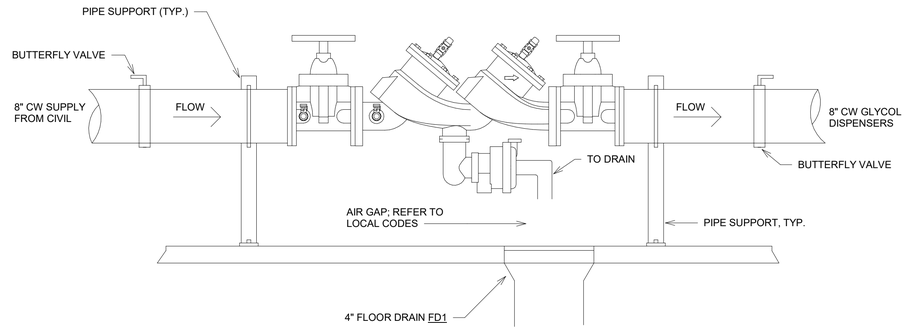
P400

BID DOCUMENTS

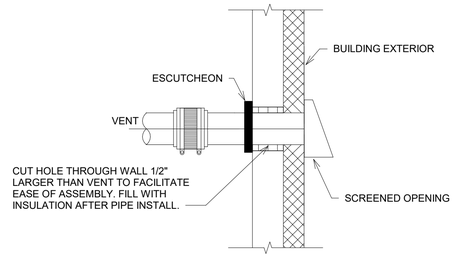


NOTE: ALL TSP IN ACCESSIBLE LOCATION. FOR CONCELAED CEILING SPACES, PROVIDE ACCESS PANEL

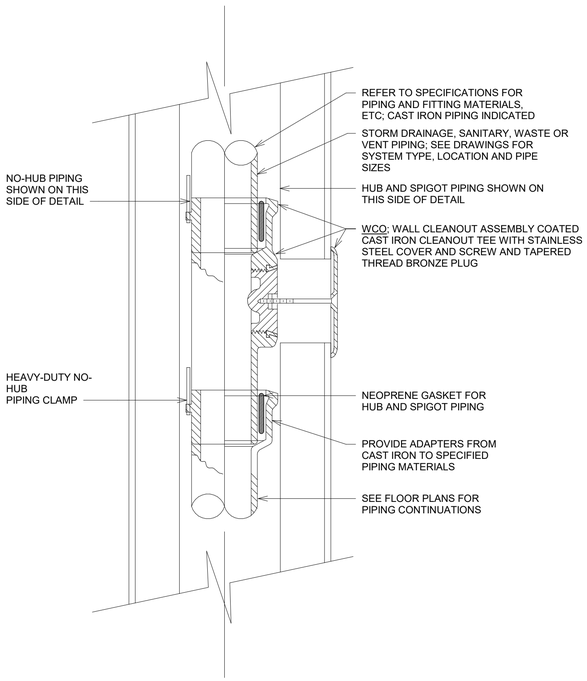
1 P500 TRAP PRIMER DETAIL
SCALE: NONE



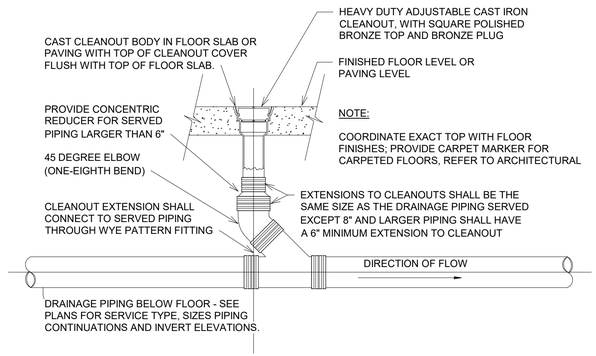
2 P500 BACKFLOW PREVENTER DETAIL
SCALE: NONE



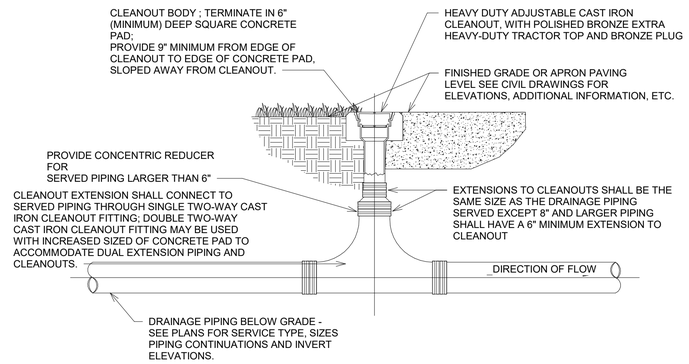
3 P500 VENT THRU WALL
SCALE: NONE



4 P500 WALL CLEANOUT (WCO) ASSEMBLY
SCALE: NONE



5 S P500 FLOOR CLEANOUT (FCO) DETAIL
SCALE: NONE



6 S P500 CLEANOUT ON GRADE (COOG) DETAIL
SCALE: NONE

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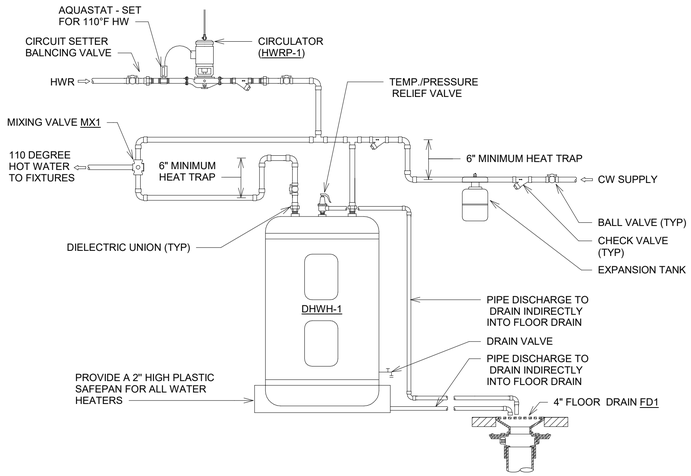
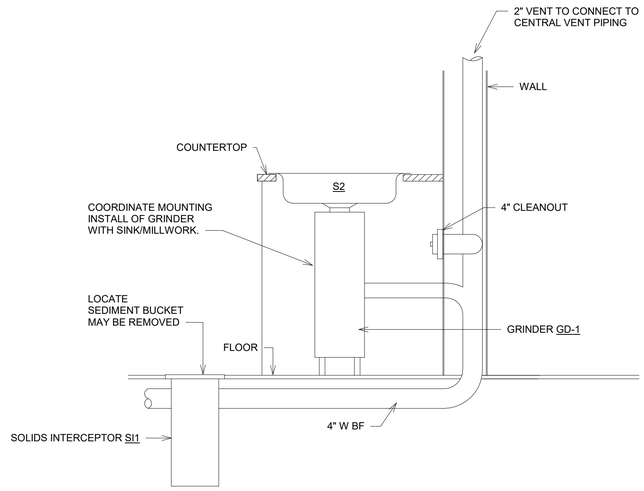
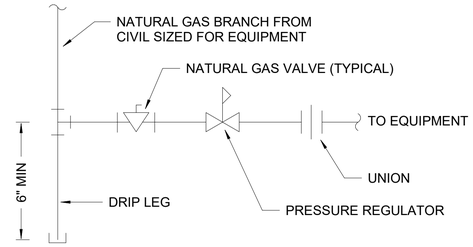


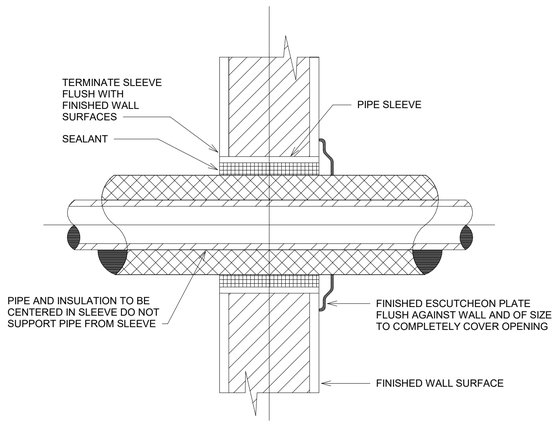
1/P501 WATER HEATER PIPING DIAGRAM
SCALE: NONE



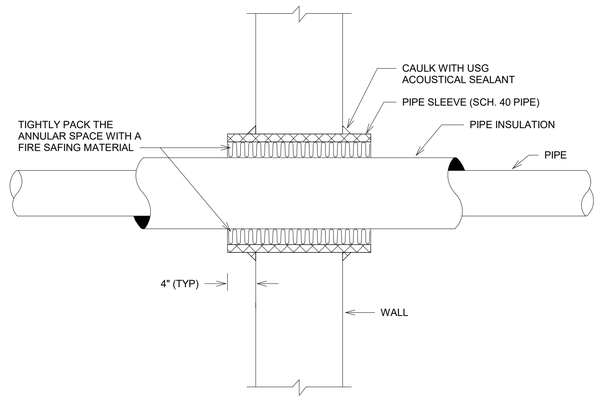
2/P501 SOLIDS INTERCEPTOR DETAIL
SCALE: NONE



3/P501 NATURAL GAS CONNECTION DETAIL
SCALE: NONE



4/P501 PIPE SLEEVE THRU WALL
SCALE: NONE



NOTE:
PIPE INSULATION THROUGH CORRIDOR WALLS, SMOKE PARTITIONS, OR FIRE RATED WALLS SHALL BE NONCOMBUSTIBLE OR SHALL BE FIRE STOPPED.

5/P501 PIPE SLEEVE THRU FIRE RATED WALL
SCALE: NONE

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PLUMBING DETAILS

SHEET NUMBER

P501

BID DOCUMENTS

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

W1: KOHLER K-96057-0, ELONGATED, VITREOUS FLOOR MOUNTED WATER CLOSET WITH EXPOSED 1-1/2" REAR SPUD; CHURCH 295SSCT SOLID PLASTIC OPEN FRONT SEAT WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE; SLOAN ROYAL OPTIMA MODEL 110/111 ES-S SENSOR OPERATED 1.6 GPF WC FLUSH VALVE WITH 1-1/2" TOP SPUD COUPLING AND TWO WALL BUMPERS, SOLID RING PIPE SUPPORT IN CHASE. TOP OF BOWL IS 17" AFF. COLOR: WHITE.

L1: LOVAIR LS MAXI SLAB SERIES 24"x24"x5" SOLID TROUGH SINK, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. PROVIDE SLOAN OPTIMA PLUS EBF85-4 BATTERY POWERED WITH PLUG IN TRANSFORMER ADA ELECTRONIC SENSOR MIXING FAUCET 0.5 GPM, BOBRICK B-824 LIQUID SOAP DISPENSER WITH POWERS LM495-1 LAVATORY THERMOSTATIC MIXING VALVE, 2.2 GPM AERATOR, SLOAN ETF-460A 1-1/2" CHROME PLATED BRASS GRID STRAINER WITH OFFSET TAILPIECE; PROVIDE McGUIRE P/V 2125 SEAMLESS PRE-WRAPPED DRAIN ASSEMBLY WITH 1-1/2"x8-1/2" WALL BEND, CHROME PLATED CAST BRASS 1-1/2" TRAP WITH CLEANOUT AND (2) SUPPLY COVERS AND (2) H2165LK-F-N3-HC1-R20 HEAVY DUTY, POLISHED CHROME PLATED SUPPLY VALVES (2) WITH LOOSE KEY OPERATOR, HEAVY CAP, 3" CAST BRASS NIPPLE, HEAVY BRASS FLANGE WITH SET SCREW AND 20" LONG CHROME PLATED ANNEALED TUBE OFFSET RISERS (CUT TO LENGTH BY CONTRACTOR PER MANUFACTURERS PUBLISHED DATA). ADJUST FAUCET TO OPERATE FOR 15 SECONDS UPON ACTIVATION. INSTALL FAUCET WITHOUT TRIM PLATE FOR SINGLE HOLE INSTALLATION. PROVIDE ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT A MAX 105° F.

J1: FIAT TSB-3000, 24"x24"x12" DEEP PRECAST TERRAZO MOP SERVICE BASIN WITH SS STRAINER DRAIN, SS CAPS ON ALL CURBS, MSG-2424 SS WALL GUARD ON WALLS IN CONTACT WITH BASIN; T&S BRASS B-0665-BSTR ROUGH CHROME PLATED SERVICE FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACE, PAIL HOOK AND 3/4" HOSE THREADS ON OUTLET WITH HOSE AND HOSE BRACKET; SILICONE SEALANT; SS STRAINER; ALUMINUM BUMPERGUARD PLATE WITH VINYL INSERT; 24"x3" SS 3-STATION MOP HANGER; PROVIDE WITH SMITH 7230S 3" CAST IRON DEEP SEAL TRAP & QUICK DRAIN CONNECTOR FOR SERVICE WEIGHT CAST IRON.

EWC1: ELKAY EZSTL8WSLK WITH EZH20 BOTTLE FILLER STATION WITH FILTERED BI-LEVEL LZ COOLER; ADA COMPLIANT, CERTIFIED TO ANSI./NSF SECTION 9, BARRIER FREE, LEAD FREE, CFC FREE, WALL MOUNTED ELECTRIC WATER COOLER WITH WATERSENTRY VII WATER & LEAD FILTER SYSTEM. PROVIDE WITH McGUIRE H2165LK-F-N3-HC1-R20 HEAVY DUTY, POLISHED CHROME PLATED SUPPLY VALVE WITH LOOSE KEY OPERATOR, HEAVY CAP, 3" CAST BRASS NIPPLE, HEAVY BRASS FLANGE WITH SET SCREW AND 20" LONG CHROME PLATED ANNEALED TUBE OFFSET RISER (CUT TO LENGTH BY CONTRACTOR PER MANUFACTURERS PUBLISHED DATA) AND (2) 11/4" CAST BRASS TRAP WITH CLEANOUT ADN SEMI-CAST TAILPIECE. PROVIDE WITH WATER AND LEAD FILTERS; MINIMUM CAPACITY OF 8.0 GPH OF 50° F WATER WITH A 70° F AMBIENT TEMPERATURE.

S1: KOHLER K-5287 COUNTERTOP UNDERMOUNT BAR SINK WITH K-8801 SINK STRAINER. PROVIDE WITH K-22034 SIMPLICE BAR SINK FAUCET SWING SPOUT. PROVIDE ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT A MAX 105° F.

S2: AERO MF1L SERIES MODEL NUMBER MF1-2020-20L, ONE COMPARMENT WITH LEFT DRAINBOARD. PROVIDE T&S BRASS AND BRONZE WORKS FAUCET MODEL NUMBER B-0133-CR-B8SWX; PRE-RINSE UNIT: EASY INSTALL 8" WALL MOUNT MIXING FAUCET, 32" FLEXIBLE STAINLESS STEEL HOSE, 4" DRAIN OUTLET. PROVIDE ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT A MAX 105° F.

S3: KOHLER VERSE K-5267-3 DOUBLE BOWL STAINLESS STEEL SINK. PROVIDE AMERICAN STANDARD MONTERREY TWO-HANDLE TOP-MOUNT KITCHEN FAUCET WITH RIGID/SWIVEL GOOSENECK SPOUT WITH 8" REACH (MODEL NUMBER 6409.170). PROVIDE ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT A MAX 105° F.

GD1: INSINKERATOR SS-300 LARGE CAPACITY FOOD WASTE DISPOSER WITH #5 SINK FLANGE KIT, 3HP, 480V, 3 PHASE. PROVIDE EMERGENCY STOP FOR DISPOSER WITHIN CLOSE PROXIMITY.

GD2: INSINKERATOR EVOLUTION SERIES FOOD WASTE DISPOSER, 3/4 HP, 120V, 1 PHASE. PROVIDE EMERGENCY STOP FOR DISPOSER WITHIN CLOSE PROXIMITY.

SHWR1: MOEN POSI-TEMP SHOWER SYSTEM INCLUDING THE FOLLOWING MOEN SHOWER PRODUCTS: S3879EP HAND SHOWER WITH SLIDE BAR, TS2712 SHOWER HEAD WITH PRESSURE BALANCED VALVE TRIM, TS4172 DIVERTER VALVE TRIM, A721 WALL SUPPLY ELBOW, 2570 PRESSURE BALANCED ROUGH-IN VALVE, AND 3372 DIVERTER VALVE. RATED FOR 2.5 GPM. SHALL FEATURE A WALL SUPPLY WITH 3/4" NPT FEMALE INLETS AND 3/4" NPSM MALE OUTLET. USE 3" FD1 FOR SHOWER DRAIN.

COMBY1: WILLOUGHBY 3696 SERIES ADA COMPLIANT COMBINATION UNIT INCLUDING THE FOLLOWING OPTIONS: ECW WALL OUTLET, OFFSET LEFT,1.6 GPF, PZPB LIGATURE-RESISTANT PIEZO ELECTRONIC PUSH BUTTON, PT INTEGRAL "P-TRAP (1-1/2" PLAIN END), TWE TOILET WASTE EXTENSION, GB4296 42" ADA GRAB BAR: ASGB AND LVCP AND EFVP ELECTRONIC FLUSH VALVE WITH (PZPB) (PICK CONTROL) OPTION. REAR ACCESS WITH REMOTE MANUAL PIEZO ELECTRIC TYPE FLUSH VALVE CONTROL TO BE INSTALLED OUTSIDE OF THE ROOM IN SECURE CORRIDOR ADJACENT TO HOLD ROOM DOOR.

FD1: STANDARD FLOOR DRAIN, SMITH 2005YB-G-L-B-P050-U-SS FLOOR DRAIN WITH 5" SQUARE STAINLESS STEEL ADJUSTABLE STRAINER HEAD SECTION; GALVANIZED GRAY IRON BODY WITH FLASHING COLLAR, SERVICE WEIGHT GASKET (UNDERGROUND CONNECTION) OR NO-HUB OUTLET (ABOVEGROUND CONNECTION), SEDIMENT BUCKET, VANDAL PROOF SCREWS AND 1/2" TRAP PRIMER TAP. WITH 3" OR 4" OUTLET (OUTLET PIPE SIZE INDICATED FOR EACH DRAIN ON THE DRAWINGS). PROVIDE WITH SMITH 7222S-03(4)-BP-ARI 3" OR 4" DIAMETER CAST IRON TRAP WITH ACID RESISTANT COATING INSIDE, BRONZE CLEANOUT PLUG AND 5" DEEP WATER SEAL.

FD2: SMITH 2410-U TRAFFIC FLOOR DRAIN WITH SQUARE TOP AND FREE STANDING SEDIMENT BUCKET. VANDAL PROOF GRATE.

COOG: WADE 800-12 ADJUSTABLE FLOOR & GRADE CLEANOUT WITH 4" OUTLET.

EEW1: GUARDIAN GBF1994 OR APPROVED EQUAL. ALL STAINLESS STEEL BARRIER-FREE SAFETY STATION WITH WIDE AREA EYE/FACE WASH. ADA COMPLIANT. 10" DIAMETER STAINLESS STEEL SHOWER HEAD. PROVIDE ANSI-COMPLIANT IDENTIFICATION SIGN. PROVIDE THERMOSTATIC MIXING VAVLE TMX1. SET WATER TEMPERATURE TO 90 DEGREES F (TEPID) TO SATISFY ANSI/ISEA Z358.1 TEPID WATER REQUIREMENTS.

EEW2: GUARDIAN GBF1735DP SWING-DOWN EYE/FACE WASH WITH DRAIN PAN, RECESSED MOUNTED. PROVIDE THERMOSTATIC MIXING VAVLE TMX2. SET WATER TEMPERATURE TO 90 DEGREES F (TEPID) TO SATISFY ANSI/ISEA Z358.1 TEPID WATER REQUIREMENTS.

TMX1: GUARDIAN G3800 LF THERMOSTATIC MIXING VAVLE.

TMX2: GUARDIAN G3600 LF THERMOSTATIC MIXING VAVLE.

RPBFP1: FEBCO LEAD FREE SERIES LF860 2-1/2" REDUCED PRESSURE BACKFLOW PREVENTER.

WSB1: GUY GRAY #BIM875AB OR APPROVED EQUAL (LEAD-FREE VALVE) GALVANIZED STEEL WALL BOX WITH ANGLE VALVE FOR REFRIGERATOR SUPPLY. MOUNT IN CONCEALED ACCESSIBLE LOCATION (1/2" CW INLET, 3/8" COMPRESSION FITTING OUTLET).

FCO: ZURN NO. ZN-1400-X OR APPROVED EQUAL CAST IRON CLEANOUT WITH ROUND NICKEL BRONZE TOP WITH TILE RECESS VERIFY TOP FINISHES WITH AN ARCHITECT.

WCO: ZURN Z1446 DURA-COATED CAST IRON BODY WITH COUNTER-SUNK PLUG. PROVIDE STAINLESS STEEL ACCESS COVER.

SI1: MIFAB MODEL MI-SOLID-TA-8-SS SOLID INTERCEPTOR, 18 GAUGE TYPE 304 STAINLESS STEEL BODY, INTERNAL PERFORATED SEDIMENT BUCKET ANDE GASKETED TOP ACCES LID.

YD1: NDS 900MTLKIT 9" x 9" CATCH BASIN KIT WITH GALVANIZED STEEL GRATE, 4" OUTLET.

MX1: THERMOSTATIC MIXING VALVE ASSEMBLY CAPABLE OF 25 GPM RECIRCULATION AT 10 PSI PRESSURE DROP. VALVE SUPPLIED PRE-PIPED WITH HOT INLET, COLD INLET, MIXED WATER OUTLET, SIGHT FLOW INDICATOR AND OUTLET THRMOMETER.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE AND ROUGH-IN SCHEDULE

MARK	TYPE OF PLUMBING FIXTURE	ROUGH-IN SIZES IN INCHES (1)				DESCRIPTION OF FIXTURE AND ACCESSORIES (2)
		CW	HW	V	S	
W1	WATER CLOSET	1	-	2	4	WALL MOUNT, ELONGATED, FLUSH VALVE
COMBY1	WATER CLOSET/LAV	1-1/2	3/4	2	4	COMBINATION TOILET/LAVATORY W/ REMOTE FLUSHING
L1	LAV, SENSOR FAUCET / SOAP DISPENSER COMBO	3/4	3/4	2	2	SOLID POLYMER ADA COMPLIANT LAV WITH SPLASHGUARD
J1	TERRAZO MOP SERVICE BASIN	3/4	3/4	2	2	SS STRAINER DRAIN AND SS CAPS ON ALL CURBS, SS WALL GUARD
EWC-1	WALL MOUNTED ELECTRIC WATER COOLER	1/2	-	2	2	ADA COMPLIANT
S1	BAR SINK	3/4	3/4	2	2	ADA COMPLIANT, SINGLE COMPARTMENT
S2	316 STAINLESS STEEL 18 GA. SINK	3/4	3/4	4	2	ADA COMPLIANT, DOUBLE COMPARTMENT, WITH DRAINBOARDS
S3	316 STAINLESS STEEL 18 GA. SINK	3/4	3/4	2	2	ADA COMPLIANT, DOUBLE COMPARTMENT
EEW1	EMERGENCY EYEWASH AND SHOWER	1-1/2"	1"	-	-	EYEWASH AND SHOWER
EEW2	EMERGENCY EYEWASH	3/4	3/4	-	-	EYEWASH
SHWR1	SHOWER	3/4	3/4	2	3	SHOWER VALVE SYSTEM WITH HAND HELD ADA COMPLIANT SHOWER HEAD

NOTES

1. SIZE GIVEN IS MINIMUM - UNLESS OTHERWISE NOTED OR SHOWN ELSEWHERE.
2. REFER TO P001 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND MODEL NUMBERS AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.

WATER HAMMER ARRESTER SCHEDULE

MARK	P.D.I. RATING	FIXTURE UNITS CAPACITY	MINIMUM PIPE SIZE	PCN/FIG. NO.	NOTES
WA	A	1 - 11	3/4"	5005	1,2,3
WB	B	12 - 32	1"	5010	1,2,3
WC	C	33 - 60	1"	5020	1,2,3
WD	D	61 - 113	1"	5030	1,2,3
WE	E	114 - 154	1"	5040	1,2,3
WF	F	155 - 330	1"	5050	1,2,3

NOTES:

1. PROVIDE ARRESTERS ETC., AS NOTED HEREIN AND PER STANDARD PDI WH201 AT EACH FIXTURE GROUP AND INDIVIDUAL FIXTURE. ARRESTERS SHALL BE AS MANUFACTURED BY JAY R. SMITH, OR APPROVED EQUAL. INSTALL ARRESTERS WHERE SHOWN, IF INDICATED. ARRESTERS MAY NOT BE GRAPHICALLY INDICATED. INSTALL ARRESTERS, ETC., CONCEALED BEHIND WALLS UNLESS OTHERWISE NOTED. INTALL WATER HAMMER ARRESTOR AT LOCATION PER MANUFACTURER STANDARD.
2. ARRESTERS SHALL BE STAINLESS STEEL BELLOWS TYPE CERTIFIED UNDER STANDARDS PDI-WH201 & ASSE-1010, SUPERSEDING SPECIFICATIONS; PISTON TYPE ARRESTERS ARE UNACCEPTABLE. ARRESTERS SHALL BE CONSTRUCTED ENTIRELY OF STAINLESS STEEL AND BE PRECHARGED AND PERMANENTLY SEALED AT THE FACTORY.
3. PROVIDE BALL VALVE (BV) BETWEEN SUPPLY PIPE & ARRESTER. ARRESTERS AND BV SHALL BE ACCESSIBLE. PROVIDE AP WHERE REQUIRED TO ACHIEVE ACCESS. ACCESS PANELS SHALL BE AS MANUFACTURED BY MIFAB OR APPROVED EQUAL, SERIES CAD-DW, CAD-PL OR MPFR FOR WALLS OR CEILINGS.

TRAP SEAL PRIMER AND DISTRIBUTION UNIT SCHEDULE

MARK	DRAINS	MIFAB MODEL NUMBER	INLET NPT	OUTLET NPT	NOTES
TSP	1	M2-500-RFS	1/2	1/2	1,2,3,4
TSPDU3	3	M2-500-RFS AND MI-DU	1/2	1/2	1,2,3,4
TSPDU6	6	MR-500-RFS AND (2) MI-DU	1/2	1/2	1,2,3,4

NOTES:

1. ALL FLOOR DRAINS (EXCEPT MOP BASINS AND FLOOR SINKS) SHALL BE PRIMED. INSTALL ALL COMPONENTS OF PRIMING SYSTEM IN STRICT ACCORDANCE WITH THE FLRODA BUILDING CODE 2017- SIXTH EDITION. DRAINS IN TOILET ROOMS SHALL BE PRIMED VIA FLUSH VALVE TYPE PRIMER (UON) LOCATED IN SAME SPACE AS DRAIN. OTHER DRAINS SHALL BE PRIMED VIA PRIMING VALVES AND DISTRIBUTION UNITS (UON), AS INDICATED OR AS REQUIRED WHERE NOT SHOWN. UON PRIMERS SHALL BE ACTIVATED BY A PRESSURE DROP OF 3 PSI MINIMUM. PRIMERS SHALL BE TESTED AND CERTIFIED TO ASSE STANDARD 1018 AND LISTED WITH IAPMO. DISTRIBUTION UNITS SHALL BE LISTED WITH IAPMO. INSTALL IN STRICT COMPLIANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. INSTALL PRIMERS IN EASILY ACCESSIBLE LOCATIONS. PRIMERS SHALL NOT REQUIRE ANY FIELD ADJUSTMENTS.
2. UNITS SHALL BE CAPABLE OF PROPER FUNCTION WHEN INSTALLED OUT OF PLUMB OR LEVEL. A METERED AMOUNT OF WATER SHALL BE DISTRIBUTED TO SINGLE AND MULTIPLE DRAINS EQUALLY AND UNIFORMLY. PROVIDE WITH REMOVABLE FILTER SCREEN. OPERATING RANGE 20 PSI TO 80 PSI.
3. PRIMER OPERATION SHALL BE VERIFIABLE VIA INSPECTION THROUGH PORTS AT THE DISCHARGE SECTION WHICH PASS THROUGH THE ENTIRE DEVICE TO ALLOW LIGHT TO PASS THROUGH TO EASE VERIFICATION OF OPERATION. SECURE AND PROTECT PIPING FROM DAMAGE AND THE ENTRANCE OF DEBRIS DURING CONSTRUCTION. THOROUGHLY FLUSH ALL PIPING AND PRE-CYCLE PRIMERS AT LEAST SIX TIMES AND VERIFY PROPER OPERATION.
3. ALL FLOOR DRAINS SHALL BE PRIMED UNLESS OTHERWISE NOTED. TRAP SEAL PRIMERS AND DISTRIBUTION UNITS SHALL BE AS MANUFACTURED BY MIFAB OR APPROVED EQUAL MEETING ALL THE REQUIREMENTS HEREIN. EXPOSED PIPING BELOW LAVATORIES AND IN FINISHED SPACES SHALL BE CHROMIUM PLATED OR STAINLESS STEEL TUBING.

ELECTRIC WATER HEATER SCHEDULE

MARK	SHEET #	ROOM #	STORAGE CAP GALLONS	RECOVERY GPH/ 1st HOUR	EWT °F	LWT °F	TEMP. RISE	# OF ELEMENTS	TOTAL KW	INLET SIZE	OUTLET SIZE	ELECT. V/PH/HZ	SEE NOTES
DHWH-1	P100	126/MECH.	120	68	66° F	140° F	74° F	2	12	3/4"	3/4"	480/3/60	1

NOTES:

1. BASIS OF DESIGN AO SMITH DEN-120, 12 kW TOTAL SIMULTANEOUS OPERATION 120 GALLON COMMERCIAL ELECTRIC WATER HEATER, ELEMENT WATTAGE (UPPER/LOWER): 6000/6000. GLASSLINED TANK RATED AT 150 PSI WORKING PRESSURE; SURFACE MOUNTED THERMOSTAT, TWO ANODE RODS FOR MAXIMUM CORROSION PROTECTION; BRASS DRAIN VALVE; SINGLE PANEL CONTROL BOX; FOAM INSULATION; 3 YEAR LIMITED TANK/1 YEAR LIMITED PARTS WARRANTY.
2. PROVIDE DRAIN PAN WITH FLOAT SWITCH THAT SENDS ALARM TO BAS TO SHUT DOWN THE WATER HEATER.

PLUMBING RECIRC PUMP SCHEDULE

MARK	SERVICE	CONTROL ON	CONTROL OFF	GPM	TDH (FT)	RATED OPERATION PRESSURE	HP	VOLTAGE	PHASE	CYCLES	NOTES
HWRP-1	RECIRC.	AQUASTAT (110° F)	AQUASTAT (120° F)	5	32	145	1/6	115	1	60	1

NOTES

1. ALL BRONZE CONSTRUCTION. BASIS OF DESIGN: GRUNFOS #UP26-99BF. REFER TO SPECIFICATIONS.

ACCEPTABLE MANUFACTURERS OF EQUIVALENT PRODUCTS

THIS SCHEDULE TAKES PRECEDENCE WHEN CONFLICTING WITH SPECIFICATIONS

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SUBMITTAL DATA FOR APPROVAL OF EQUIVALENT PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS FOR EACH ITEM GROUP LISTED:
VITREOUS CHINA AND ENAMELED CAST IRON PLUMBING FIXTURES: KOHLER
SOLID POLYMER LAVATORY AND COUNTERTOP: CORIAN
FLUSH VALVES: SLOAN ROYAL.
LAVATORY FAUCETS: SLOAN.
SINK FAUCETS AND DRAIN TRIM: KOHLER
MOP BASIN FAUCET, MOP HANGER, HOSE & CLAMP: FIAT.
TERRAZO JANITOR'S MOP BASINS: FIAT.
ADA, 18 GAUGE TYPE 316 STAINLESS STEEL SINKS: JUST TYPE 316 STAINLESS STEEL WITH OVERFLOW
ELECTRIC WATER COOLERS: HALSEY TAYLOR
FIXTURE SUPPLY VALVES, AND CAST BRASS TRAPS: McGUIRE
FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, CLEANOUTS, CAST IRON TRAPS AND DRAINAGE SPECIALTIES: SMITH, JOSAM
WATER HAMMER ARRESTERS: SMITH, JOSAM, WADE
VALVES: CRANE VALVE CO., MILWAUKEE, STOCKHAM, HONEYWELL
FIXTURE CARRIERS AND SUPPORTS: SMITH, JOSAM, WADE
PRE-WRAPPED HANDICAPPED LAVATORY AND SINK DRAIN AND SUPPLY INSULATION KITS: McGUIRE.
ADA VINYL SHIELDS FOR WALL MOUNT LAVATORIES & SINK WHEELCHAIR SAFETY PROTECTION ASSEMBLIES: SLOAN.
WATER HEATERS: PVI, AO SMITH (SEE SCHEDULE RQMTS.), BRADFORD WHITE (SEE SCHEDULE RQMTS.)
DIGITAL ELECTRONIC MIXING VALVE ASSEMBLIES WITH INTEGRAL RECIRCULATION PUMP: ARMSTRONG.
ELECTRIC HEATING CABLES, TRIM AND ACCESSORIES: RAYCHEM, THERMON.
UTILITY HYDRANTS, WALL HYDRANTS AND YARD HYDRANTS: SMITH, JOSAM, WOODFORD
BELOW COUNTER THERMOSTATIC MIXING VALVES: POWERS, LEONARD
VENT THRU ROOF AND FLASHING ASSEMBLIES: STONEMAN
FIRESTOPPING SYSTEMS: RECTORSEAL, METACAULK FIRESTOPPING PRODUCTS, OR APPROVED EQUAL.
PIPING HANGERS AND SUPPORT SYSTEMS: B-LINE OR APPROVED EQUAL.
ACCESS PANELS (AP): MIFAB CAD-DW, CAD-PL, MPFR SERIES, OR APPROVED EQUAL.
VALVE BOXES (VB): MIFAB MI-VB-SM-SS.
PRE-INSULATED, PRE-FABRICATED UNDERGROUND COPPER PIPING; BRAZED WITH PVC JACKETING: THERMACOR PROCESS INC.

RS&H
10748 Deerwood Park Blvd. South
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PENSACOLA INTERNATIONAL AIRPORT

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PROFESSIONAL SEAL

NOT FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	JB
DRAWN BY:	KMD
DESIGNED BY:	JB/KMD

PROJECT NUMBER:
201-0052-002

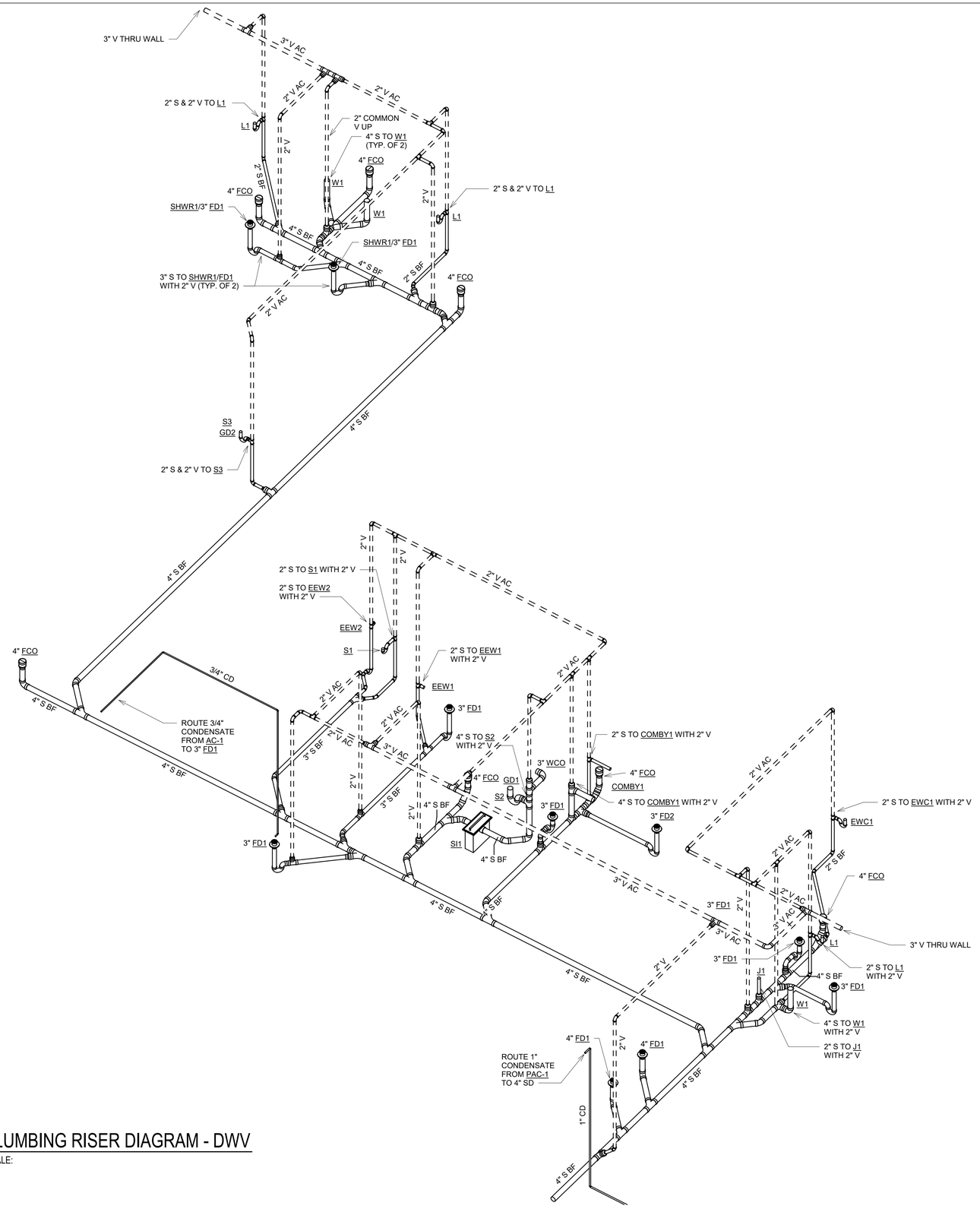
SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER

P600

BID DOCUMENTS



1 P800 PLUMBING RISER DIAGRAM - DWV

SCALE:

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DATE ISSUED:	03/03/2020
REVIEWED BY:	JB
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SHEET TITLE

PLUMBING RISER DIAGRAM - DWV

SHEET NUMBER

P800

BID DOCUMENTS

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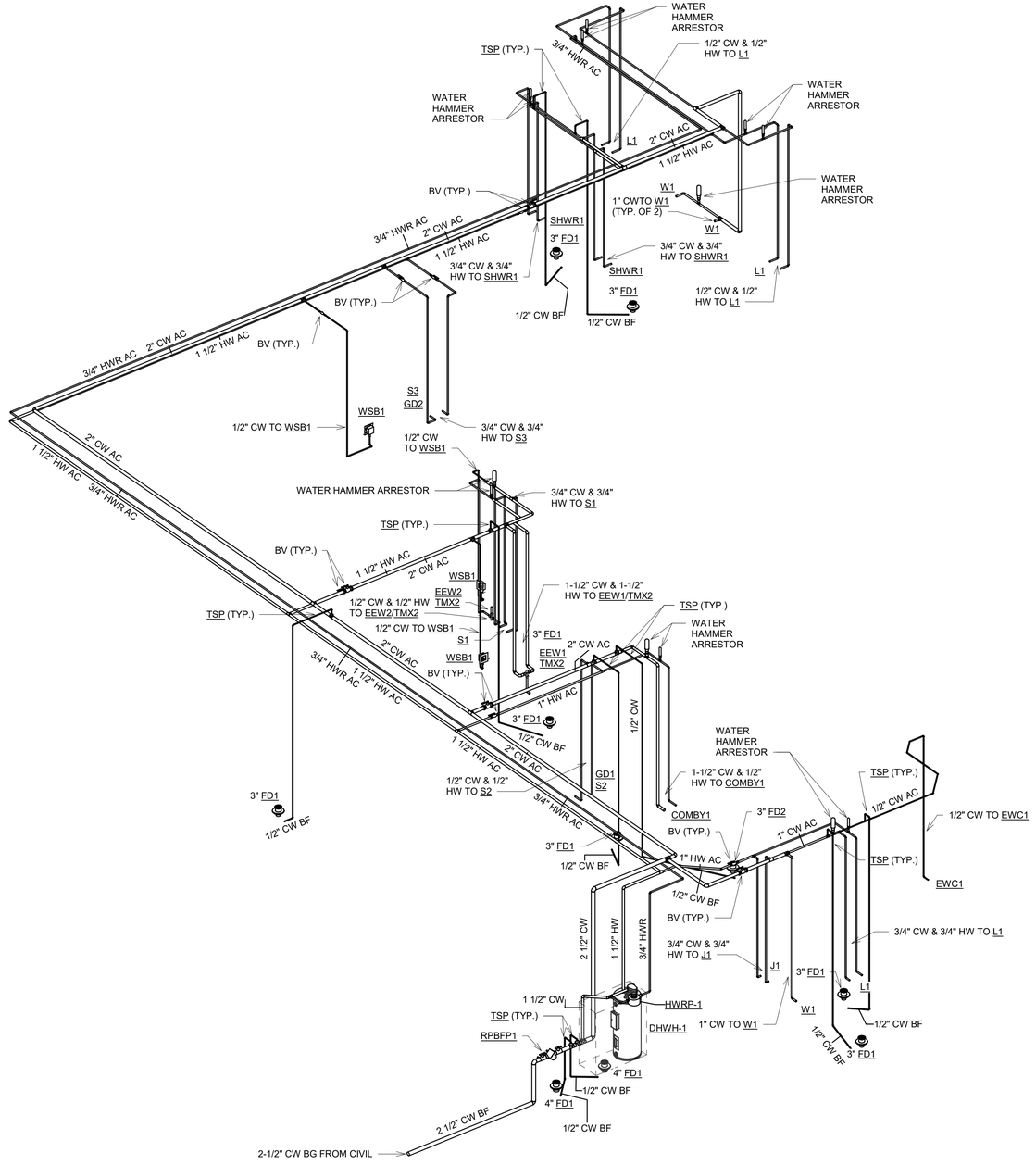

1 P801 PLUMBING RISER DIAGRAM - WATER

SCALE:

RS&H

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SHEET TITLE

PLUMBING RISER DIAGRAM - WATER

SHEET NUMBER

P801

BID DOCUMENTS

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MECHANICAL SYMBOLS

SYMBOL SINGLE	SYMBOL DOUBLE	ABBREV.	DESCRIPTION
			SUPPLY DIFFUSER
			RETURN GRILLE
			EXHAUST GRILLE
		S/A , O/A	DUCT SECTION, SUPPLY AIR OR OUTSIDE AIR
		R/A , -	DUCT SECTION, RETURN AIR OR RELIEF AIR
		E/A	DUCT SECTION, EXHAUST AIR
12ø	12ø		ROUND DUCT SIZE
24x12	24x12		RECTANGULAR DUCT SIZE, FIRST DIMENSION IS SIDE SHOWN. SIZES INDICATE FREE AREA DIMENSIONS.
			DUCT WITH LINER
			INSULATED FLEXIBLE ROUND DUCT, SAME SIZE AS DIFFUSER INLET UNLESS OTHERWISE NOTED
	(e) N		NEW DUCT CONNECTED TO EXISTING DUCT
			EXISTING DUCTWORK & EQUIPMENT TO BE DEMOLISHED
			EXISTING DUCTWORK & EQUIPMENT TO REMAIN
			ELBOW UP, ROUND DUCT
			ELBOW DOWN, ROUND DUCT
			ELBOW UP, RECTANGULAR SUPPLY OR OUTSIDE AIR DUCT
			ELBOW DOWN, RECTANGULAR SUPPLY OR OUTSIDE AIR DUCT
			ELBOW UP, RECTANGULAR RELIEF OR RETURN AIR DUCT
			ELBOW DOWN, RECTANGULAR RELIEF OR RETURN AIR DUCT
			ELBOW UP, RECTANGULAR EXHAUST AIR DUCT
			ELBOW DOWN, RECTANGULAR EXHAUST AIR DUCT
			TRANSITION, CONCENTRIC RECTANGULAR OR ROUND
			TRANSITION, ECCENTRIC RECTANGULAR OR ROUND
			TRANSITION CONCENTRIC, RECTANGULAR TO ROUND OR OVAL
			FLEXIBLE DUCT CONNECTION
UP	UP		RECTANGULAR DUCT OFFSET IN DIRECTION OF AIR FLOW UP "UP" OR "DN"
DN	DN		ROUND DUCT OFFSET IN DIRECTION OF AIR FLOW DOWN "DN" OR "UP"
			ELBOW, 90° RECTANGULAR WITH TURNING VANES
			ELBOW, 90° RECTANGULAR WITHOUT TURNING VANES
			ELBOW, 45° WITH SINGLE THICKNESS TYPE TURNING VANES
			ELBOW, STANDARD RADIUS
			ELBOW, SHORT RADIUS

SYMBOL SINGLE	SYMBOL DOUBLE	ABBREV.	DESCRIPTION
			TEE WITH SINGLE THICKNESS AIRFOIL TYPE TURNING VANES
			TEE, BRANCH TAKE-OFF (RECTANGULAR TO RECTANGULAR) (RETURN & EXHAUST ONLY)
			SIDEWALL SUPPLY REGISTER WITH EXTRACTOR
		MVD	DAMPER, MANUAL VOLUME DAMPER
M	M	MD	DAMPER, MOTORIZED
FSD SD FD	FSD SD FD	FSD , SD	FSD - COMBINATION FIRE & SMOKE DAMPER, SD - SMOKE DAMPER, NO LABEL - FIRE DAMPER WITH ACCESS PANEL
		AD	ACCESS DOOR, DUCT
			SPIN IN BELLMOUTH TAP WITH VOLUME DAMPER RECTANGULAR MAIN, ROUND OR FLAT OVAL BRANCH.
			SPIN IN, STRAIGHT TAP WITH VOLUME DAMPER RECTANGULAR MAIN, ROUND OR FLAT OVAL BRANCH.
			TAKE OFF RECTANGULAR MAIN & BRANCH DUCT CONNECTION WITH VOLUME DAMPER.
			BRANCH, 45° RECTANGULAR TAKE-OFF TO DIFFUSER (DIFFUSER TAP OUT OF BOTTOM OF BRANCH DUCT)
			BRANCH, 45° RECTANGULAR TAKE-OFF TO DIFFUSER (NECK SIZE OF DIFFUSER DETERMINES SIZE OF BRANCH, UNLESS NOTED OTHERWISE).
			BRANCH, SPIN-IN ROUND TAKE-OFF TO DIFFUSER (NECK SIZE OF DIFFUSER DETERMINES SIZE OF BRANCH, UNLESS NOTED OTHERWISE).
			BRANCH, SPIN-IN ROUND TAKE-OFF TO DIFFUSER (NECK SIZE OF DIFFUSER DETERMINES SIZE OF BRANCH, UNLESS NOTED OTHERWISE).

DESIGN CONDITIONS & SETPOINTS:

COOLING SEASON (SUMMER CONDITIONS):

OUTSIDE AIR DB / WB (°F): 94 / 77 (AT 0.4%)
INDOOR SETPOINT (°F): 75

HEATING SEASON (WINTER CONDITIONS):

OUTSIDE AIR DB (°F): 29 (AT 99.6%)
INDOOR SETPOINT (°F): 70

OUTSIDE CONDITIONS FROM ASHRAE FUNDAMENTALS 2013 CLIMATE DATA

ABBREVIATIONS:

ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACS	AIR CONDITIONING SYSTEM
ACU	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AF	AIRFOIL
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AS	AIR SEPARATOR
BAS	BUILDING AUTOMATION SYSTEM
BD	BELT DRIVE
BI	BACKWARD INCLINED
BLDG	BUILDING
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONDENSATE
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CONDENSATE DRAIN
CDL	CONDENSATE DRAIN LINE
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CS	CURRENT SENSOR
CT	CONTROL TRANSFORMER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER
CWR	CONDENSOR WATER RETURN
CWS	CONDENSOR WATER SUPPLY
DB	DRYBULB
DD	DIRECT DRIVE
DIFF	DIFFUSER
DL	DOOR LOUVER
DMPR	DAMPER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DTS	DUCT TEMPERATURE SENSOR
DWDI	DOUBLE WIDTH, DOUBLE INLET
DWG	DRAWING
DX	DIRECT EXPANSION
(e)	EXISTING
EF	EXHAUST FAN
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENT	ENTERING
EQ	EQUAL
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FC	FORWARD CURVED
FD	FIRE DAMPER
FF	FINAL FILTER
FLR	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONNECTION
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GH	GRAVITY HOOD
GPM	GALLONS PER MINUTE
GUV	GRAVITY UNIT VENTILATOR
H	HUMIDIFIER
HC	HEATING COIL
HP	HORSEPOWER
HRC	HEAT RECOVERY UNIT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HVU	HEATING AND VENTILATING UNIT
HWC	HOT WATER COIL
IN WC	INCH OF WATER COLUMN
IN WG	INCH OF WATER GAUGE
ISOTR	ISOLATION TRANSFORMER
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMP
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MZ	MULTI-ZONE
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE (NFPA-70)
No	NUMBER
OA	OUTSIDE AIR
OPNG	OPENING
P	PUMP
PD	PRESSURE DROP
PF	PRE-FILTER
PH	PREHEAT COIL
PHWP	PRIMARY HOT WATER PUMP
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RAF	RETURN AIR FAN
RELA	RELIEF AIR
REQD	REQUIRED
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SENSOR
RTS	ROOM TEMPERATURE SENSOR
RTU	ROOF TOP UNIT
SA	SOUND ATTENUATOR
SF	SUPPLY FAN
SG	SECURITY GRILLE
SHWP	SECONDARY HOT WATER PUMP
S	SMOKE DETECTOR
SF	SQUARE FEET
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
ST	STRAINER
STR	STARTER
SW	SWITCH
T	TEMPERATURE SENSOR
TA	TRANSFER AIR
TAO	TRANSFER AIR OPENING
TG	TRANSFER GRILLE
TEFC	TOTALLY ENCLOSED FAN COOLED
TELE	TELEPHONE
TEMP	TEMPERATURE
TOAC	TRANSFER OPENING ABOVE CEILING
TSTAT	THERMOSTAT
TUX	TERMINAL UNIT CONTROLLER
TYP	TYPICAL
UC	UNDERCUT DOOR
UH	UNIT HEATER
UTR	UP THROUGH ROOF
VAV	VARIABLE AIR VOLUME
VAF	VENTILATION AIR FAN
VAFC	VENTILATION AIR FAN CONTROLLOR
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
V-PH-HZ	VOLTS-PHASE-HERTZ
VTR	VENT THRU ROOF
W	WATTS
WB	WET BULB
WP	WEATHER PROOF
WWF	WOVEN WIRE FABRIC

SEISMIC & WIND LOAD REQUIREMENTS:

ALL SUSPENDED HVAC PIPING, DUCTWORK AND EQUIPMENT SHALL BE PROVIDED WITH SEISMIC SWAY (RESTRAINT) BRACING IN ACCORDANCE WITH THE BELOW GUIDELINES AND STANDARDS. THE SEISMIC SYSTEM SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE SERVICES ARE BEING PERFORMED, AND HAVING 5 YEARS OF SUCCESSFUL DESIGN EXPERIENCE ON SIMILAR TYPE PROJECTS.

SUBMIT QUALIFICATIONS TO A/E FOR APPROVAL PRIOR TO PERFORMING ANY OF THE SUBJECT WORK. SUBMIT SHOP DRAWINGS THAT INCLUDE FLOOR PLANS AND REFERENCED ALL RESTRAINT POINT LOCATIONS TO THE CALCULATIONS AND INSTALLATION DETAILS.

PROVIDE SHOP DRAWINGS, CALCULATIONS, DETAILS, MATERIALS (GALVANIZED STEEL ROOF SUPPORT FRAMES) AND LABOR TO SECURE THE ROOF MOUNTED PIPING, DUCTWORK AND EQUIPMENT TO WITHSTAND THE SPECIFIED WIND SPEEDS.

1. STANDARD FOR DESIGN: ASCE 7-10
2. SEISMIC DESIGN CATEGORY: B
3. RISK CATEGORY: II
4. ULTIMATE WIND SPEED: 150 MPH (3 SECOND GUST)
5. REFER TO STRUCTURAL DRAWING S001 FOR ADDITIONAL INFORMATION REQUIREMENTS.

TEST & BALANCE NOTES:

1. THE CONTRACTOR HAS 30 DAYS AFTER AWARD OF THE CONTRACT TO SUBMIT THE NAME AND QUALIFICATIONS OF THE ORGANIZATION HE PROPOSES TO EMPLOY FOR THIS PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN T&B FIRM BEING ASSIGNED TO THE CONTRACTOR.
2. REFER TO SPECIFICATION SECTION 230593 WITH REGARDS TO WORK ASSOCIATED WITH LUBRICATION OF MOTOR AND FAN BEARINGS, AND COORDINATING THE LOCATION OF AIR FLOW MEASURING STATIONS AND WATER FLOW MEASURING/BALANCING VALVES.
3. COORDINATE WITH THE GENERAL CONTRACTOR AND SCHEDULE THE PRE-BALANCE CONFERENCE PER SPECIFICATION SECTION 230593.
4. FOR ADDITIONAL T&B WORK REQUIREMENTS NOT ADDRESSED BY THESE NOTES, REFER TO THE CONTRACT DRAWINGS AND SPECIFICATIONS.
5. REFER TO THE EQUIPMENT SCHEDULES, FLOOR PLANS AND SPECIFICATION SECTION 230593 FOR ADDITIONAL DESCRIPTION OF T&B WORK.
6. REPAIR DUCT AND PIPE INSULATION THAT WAS DAMAGED WHILE PERFORMING T&B WORK. THE REPAIRED INSULATION SHALL BE NEW AND BE OF SAME MATERIALS TYPE, THICKNESS AND JACKET AS ADJACENT INSULATION.

GENERAL NOTES:

1. PROVIDE COMPLETE PRODUCT DATA (SIZE, WEIGHT, OPERATING CHARACTERISTICS, WIRING DIAGRAMS, ETC.) FOR ALL EQUIPMENT AND DEVICES SPECIFIED ON THE DRAWINGS.
2. SMOKE DETECTORS ARE FURNISHED BY DIVISION 26 AND INSTALLED IN DUCTWORK AND AHU's BY DIVISION 23.
3. PROVIDE OFFSETS IN NEW DUCT AND PIPING SYSTEMS AS REQUIRED TO FACILITATE INSTALLATION OF NEW WORK AT NO ADDITIONAL COST TO THE CONTRACT.
4. PROVIDE 45 DEGREE ENTRANCE AND EXIT TAPS AT DUCT BRANCH CONNECTIONS.
5. ALL NON-GALVANIZED SUPPORTS AND HANGERS FOR DUCTWORK, PIPING, AND EQUIPMENT SHALL BE CLEANED OF DEBRIS AND RUST, PROPERLY PREPPED, PRIMED, AND PAINTED. REFER TO DIVISION 9 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. THE INSIDE OF DUCTWORK THAT IS VISIBLE THROUGH A DIFFUSER, REGISTER OR GRILLE, SHALL BE PAINTED FLAT BLACK.
7. PROVIDE SECURE, LOCKABLE, FIRE-RATED CEILING ACCESS PANEL IN HARD/SECURE CEILING TO ACCESS ALL MECHANICAL EQUIPMENT. SEE SHEET A121 REFLECTED CEILING PLAN FOR LOCATIONS.
8. IN ADDITION TO THE SPECIFICATION REQUIREMENTS AND PRIOR TO ORDERING EQUIPMENT AND INSTALLATION OF NEW WORK, SUBMIT A COMPOSITE SHOP DRAWING (1/4" MIN. SCALE PLAN AND SECTIONS) SHOWING DUCTWORK, PIPING AND EQUIPMENT LAYOUT OF EQUIPMENT ROOMS.
9. CONCRETE PADS FOR MECHANICAL EQUIPMENT SHALL BE SIZED, LOCATED AND PROVIDED BY DIVISION 23. PROVIDE 4" HIGH x UNIT LENGTH PLUS 4" ON EACH SIDE x UNIT WIDTH PLUS 4" ON EACH SIDE CONCRETE PADS FOR ALL HVAC EQUIPMENT.
10. MANUAL VOLUME DAMPERS SHALL HAVE OPPOSED BLADE TYPE DAMPERS WITH LOCKABLE QUADRANT TYPE STAND-OFF HANDLES. LOCATE DAMPER AT EACH BRANCH DUCT TAKE-OFF FROM MAIN OR SUBMAIN DUCT, AND AT EACH BRANCH DUCT RUNOUT TO AN AIR DEVICE.
11. WALL LOUVERS ARE INDICATED FOR INFORMATION ONLY. FOR ADDITIONAL INFORMATION REGARDING LOUVER SIZE, REFER TO SPECIFICATION SECTION 10 AND THE ARCHITECTURAL DRAWINGS.
12. VERIFY ALL EQUIPMENT WITH MANUFACTURERS' CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
13. ALL DIFFUSER, GRILLE, AND REGISTER LOCATIONS IN SUSPENDED CEILINGS SHALL BE COORDINATED WITH REFLECTED CEILING PLANS, SPRINKLER PLANS, AND ELECTRICAL PLANS BEFORE INSTALLATION.
14. ALL DUCTWORK SHALL BE INSTALLED IN A CONCEALED MANNER AS CLOSE AS POSSIBLE TO WALLS AND UNDERSIDE OF BEAMS UNLESS OTHERWISE NOTED.
15. PROVIDE ACCESS PANELS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL FANS, VALVES, FIRE DAMPERS, CONTROL DAMPERS, SMOKE DETECTORS, AND AIRFLOW MEASURING STATIONS.
16. FLEXIBLE DUCT CONNECTING MAIN DUCT TO SUPPLY DIFFUSER SHALL NOT EXCEED 8 FEET IN LENGTH. IF THIS DISTANCE EXCEEDS THIS LIMIT, AN INSULATED METAL DUCT OF REQUIRED LENGTH AND EQUAL DIAMETER SHALL BE INSTALLED WITH DAMPER AT MAIN DUCT TO REDUCE FLEXIBLE DUCT TO MAXIMUM LENGTH OF 8 FEET.
17. ALL DUCT SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER BRAIDED GROUNDING STRAP. PROVIDE FLEXIBLE DUCT CONNECTOR AT ALL DUCT CONNECTIONS TO SUPPLY FAN, AIR HANDLING UNIT, OR EXHAUST FAN.
18. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
19. UNLESS OTHERWISE INDICATED ALL CONDENSATE DRAIN LINES FROM EACH AHU SHALL BE PIPED FULL SIZE OF DRAIN OUTLET, WITH P-TRAP TO FLOOR DRAIN OR JANITOR SINK.
20. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND SPECIFIED. ADDITIONAL SUPPORTS SHALL BE PROVIDED AS REQUIRED TO PROPERLY SUPPORT ALL HVAC SYSTEM COMPONENTS.
21. MANUFACTURERS LISTED IN SCHEDULES WERE USED AS A BASIS FOR DESIGN. REFER TO THE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.
22. ALL FLEXIBLE DUCTWORK SHALL BE SAME NOMINAL SIZE AS THE NECK OF THE AIR DEVICE (DIFFUSERS, GRILLES, REGISTERS, AND LINEARS) IT SERVES.
23. PROVIDE SINGLE THICKNESS, TRAILING EDGE TURNING VANES INSIDE ALL 90 AND 45 DEGREE SHEET METAL ELBOWS EXCEPT THOSE USED IN TRANSFER AIR DUCTS AND NON-DUCTED ELBOWS ON RETURN AIR GRILLES AND REGISTERS.
24. CAPPED DUCTS SHALL BE BLANKED OFF WITH 18 GAUGE GALVANIZED SHEET METAL, CAULKED TO PROVIDE AN AIR TIGHT SEAL, AND EXTERNALLY INSULATED.
25. VFDs IF REQUIRED ARE INDICATED ON THE HVAC EQUIPMENT SCHEDULES AND ARE PROVIDED BY DIVISION 23. UNLESS OTHERWISE NOTED, FIELD LOCATE EACH VFD IN THE SAME ROOM THAT THE EQUIPMENT IT SERVES IS LOCATED. VFDs SHALL BE LOCATED SO THEY CAN EASILY BE ACCESSED, HAVE PROPER MAINTENANCE SPACE, AND COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS. GROUND VFDs IN ACCORDANCE WITH NEC. VFDs SHALL NOT BE MOUNTED ON HVAC EQUIPMENT UNLESS FACTORY MOUNTED.
26. COORDINATE ROUTING OF DUCTWORK WITH THE REFLECTED CEILING PLANS, LIGHT FIXTURES, HVAC PIPING, PLUMBING PIPING, AND SPRINKLER PIPING. WHEREVER POSSIBLE PROVIDE OFFSETS AND TRANSITIONS TO ROUTE DUCTWORK BETWEEN CEILING MOUNTED LIGHT FIXTURES IN LIEU OF ABOVE THEM.
27. LOUVERS ARE PROVIDED BY GENERAL CONTRACTOR. APPROXIMATE LOUVER PLENUM SIZES ARE INDICATED ON THE DRAWINGS. FIELD VERIFY THE ACTUAL PHYSICAL DIMENSIONS PRIOR TO FABRICATION OF PLENUMS AND CONNECTING DUCTWORK.
28. ALL HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS SHOWN ON THE CONTRACT DRAWINGS SHALL BE NEW UNLESS OTHERWISE INDICATED.
29. SUBMIT COMPLETE SHOP DRAWINGS AND PRODUCT DATA FOR ALL EQUIPMENT AND DEVICES SPECIFIED ON THE HVAC DRAWINGS.
30. CONSTRUCT LOUVER PLENUMS OF 16 GAUGE GALVANIZED STEEL WITH BOTTOM AT 15 DEGREE SLOPE TOWARD LOUVER. PROVIDE 12"x12" INSULATED ACCESS DOOR. INSULATE PLENUM WITH 2" THICK, 3 POUND DENSITY, RIGID BOARD INSULATION AND SEAL ALL JOINTS AND SEAMS WITH 4" WIDE GLASS FABRIC BETWEEN TWO LAYERS OF MASTIC. REFER TO SPECIFICATIONS, FLOOR PLANS, AND DETAILS FOR ADDITIONAL REQUIREMENTS.
31. DISCREPANCIES AND CONFLICTS BETWEEN MECHANICAL SYSTEMS AND OTHER DISCIPLINE (ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION) DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO CONSTRUCTION OF SUBJECT SYSTEMS. FAILURE TO NOTIFY A/E OF THE SUBJECT PROBLEMS SHALL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS AND ANY CORRECTIVE WORK REQUIRED, AS DIRECTED BY A/E. THE SUBJECT CORRECTIVE WORK SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
32. ALL FURNISHED EQUIPMENT MUST FIT THE ALLOCATED SPACE. PROVIDE ALL MODIFICATIONS TO THE OPENINGS, IN ROOF OR SLAB, STEEL SUPPORTS, ELECTRICAL REQUIREMENTS, AND ANY OTHER BUILDING COMPONENTS REQUIRED TO FACILITATE THE INSTALLATION OF SUBJECT EQUIPMENT.
33. PRIOR TO FINAL INSPECTION OF EQUIPMENT BY A/E, EACH PIECE OF MECHANICAL EQUIPMENT SHALL BE CLEANED AND ALL FOREIGN MATERIALS REMOVED. ALL PENETRATIONS THROUGH UNIT CASINGS SHALL BE PROPERLY SEALED AND ALL CONTROL DEVICES SHALL BE OPERATIONAL AND CALIBRATED.
34. COORDINATE LOCATION OF HVAC EQUIPMENT AND SYSTEM ROUTINGS SO THAT HVAC EQUIPMENT, PIPING, AND DUCTWORK ARE NOT LOCATED ABOVE ELECTRICAL EQUIPMENT OR PANELS.
35. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED OFF WITH 20 GAUGE GALVANIZED STEEL. DUCTWORK SHALL BE CAPPED OR BLANKED OFF WITH ONE SIZE GREATER THAN THE DUCT IT SERVES. ALL BLANK-OFFS AND CAPS SHALL BE CAULKED TO PROVIDE AN AIR AND WATER TIGHT SEAL. LOUVER BLANK-OFFS SHALL BE INSULATED WITH RIGID BOARD INSULATION, WELD PENS, GLASS CLOTH, AND MASTIC AS SPECIFIED FOR DUCTWORK INSIDE EQUIPMENT ROOMS. DUCTWORK BLANK-OFFS SHALL BE INSULATED TO MATCH ADJACENT INSULATION OF THE SUBJECT DUCT.
36. REFER TO CONTROL DRAWINGS FOR BOTH DUCT AND EQUIPMENT DAMPERS (CONTROL, MANUAL BALANCING, BACKDRAFT, AND ADJUSTABLE WEIGHTED) THAT MAY NOT BE SHOWN ON THE FLOOR PLANS BUT ARE REQUIRED.
37. FOR ALL THREE-PHASE MOTORS POWERING MECHANICAL EQUIPMENT IN CONSTANT SPEED APPLICATIONS: PROVIDE FULL VOLTAGE, COMBINATION MAGNETIC TYPE, THREE-PHASE POWER MOTOR STARTER/CONTROLLERS WITH UNDER VOLTAGE RELEASE, MOTOR CIRCUIT PROTECTOR TYPE DISCONNECT WITH SHORT-CIRCUIT PROTECTION, OVERLOAD RELAY IN EACH PHASE, 120 VAC CONTROL POWER VOLTAGE WITH CONTROL POWER TRANSFORMER, AND HANDS-OFF-AUTOMATIC SWITCH AND GREEN PILOT LIGHT IN CONTROL PANEL COVER. PROVIDE THE APPROPRIATE NUMBER OF NORMALLY OPEN (N.O.) AND NORMALLY CLOSED (N.C.) CONTACTS REQUIRED TO OPERATE AND CONTROL THE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCES OF OPERATION AS SPECIFIED. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
38. FOR ALL SINGLE-PHASE MOTORS POWERING MECHANICAL EQUIPMENT: PROVIDE ELECTRICAL DISCONNECT AND THE APPROPRIATE NUMBER OF NORMALLY OPEN (N.O.) AND NORMALLY CLOSED (N.C.) CONTACTS REQUIRED TO OPERATE AND CONTROL THE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCES OF OPERATION AS SPECIFIED. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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SHEET TITLE

MECHANICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

M001

BID DOCUMENTS

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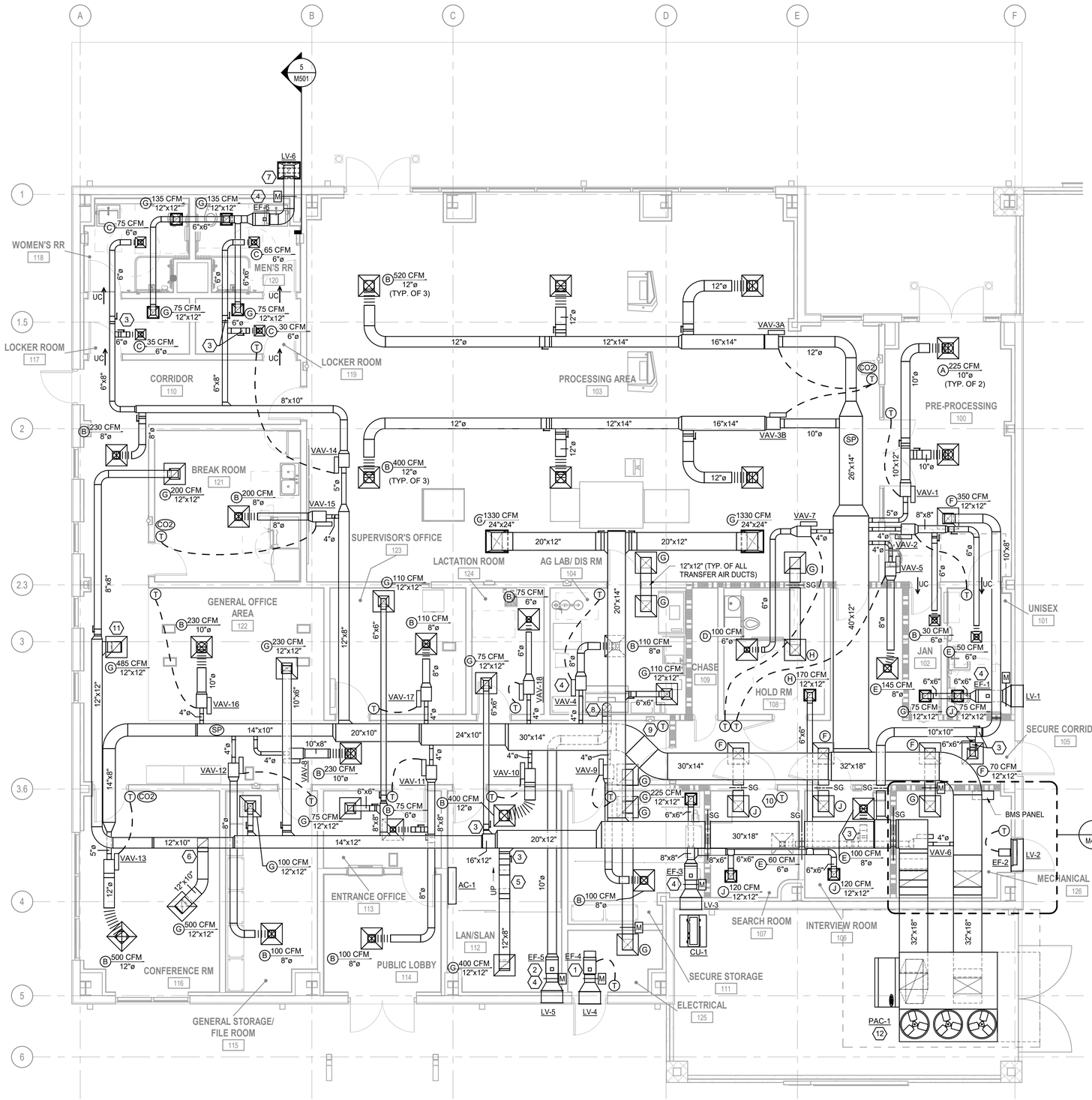

1 M101 MECHANICAL FLOOR PLAN

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

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

KEY NOTES:

1. INTERLOCK EXHAUST FAN WITH MOTORIZED DAMER IN TRANSFER AIR DUCT.
2. INTERLOCK EXHAUST FAN WITH SWITCH TO BE PROVIDED ON FUME HOOD.
3. PROVIDE REMOTE DAMPER CABLE CONTROL SYSTEM. SEE SHEET M504 FOR DETAIL.
4. PROVIDE HARD CEILING ACCESS PANEL.
5. TRANSITION 12"x8" RETURN DUCT FROM B.O.D. 14' 2" AFF TO B.O.D. 11' 10" AFF TO AVOID STRUCTURE.
6. TAP OFF 12"x10" RETURN DUCT FROM BOTTOM OF MAIN. TRANSITION DUCT TO B.O.D. 11' 9" AFF. PROVIDE MANUAL BALANCING DAMPER IN VERTICAL TAKEOFF.
7. LV-6 TO BE LOCATED IN SOFFIT. SEE SHEET M501 FOR DUCT ROUTING DETAIL.
8. CONNECT TO FUME HOOD. SEE ARCHITECTURAL DRAWINGS FOR FUME HOOD INFORMATION.
9. THERMOSTAT TO BE WIRED TO VAV-8.
10. THERMOSTAT TO BE WIRED TO VAV-6.
11. PROVIDE MANUAL BALANCING DAMPER IN VERTICAL DUCT.
12. PROVIDE UNIT WITH 32" HIGH STAINLESS STEEL PLENUM CURB WITH HURRICANE TIE-DOWN. CURB BY MGM PRODUCTS, INC OR APPROVED EQUAL.

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MECHANICAL FLOOR PLAN

SHEET NUMBER

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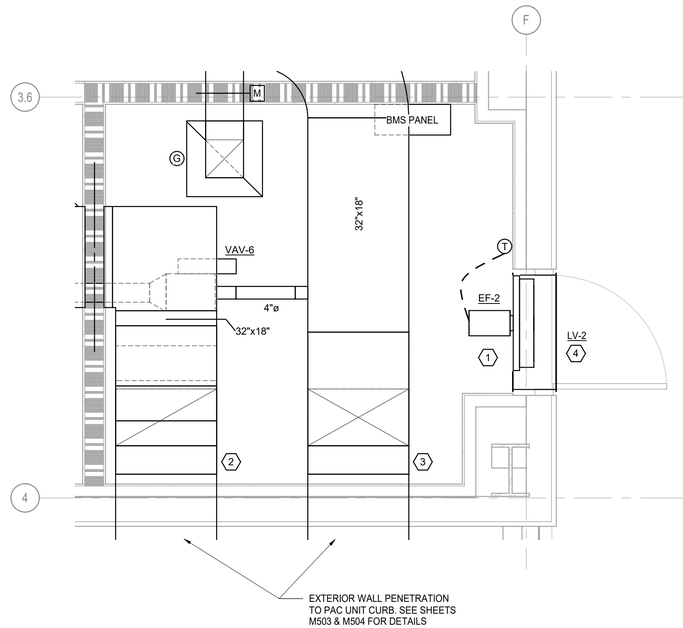

1 / M401 MECHANICAL ROOM ENLARGED PLAN

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

KEY NOTES:

1. INTERLOCK EXHAUST FAN WITH MOTORIZED DAMER IN TRANSFER AIR DUCT.
2. PROVIDE FITTINGS AS NEEDED TO TRANSITION 32"x18" RETURN MAIN DUCT FROM VERTICAL RISER TO HORIZONTAL RUN WITH B.O.D. 13' 9" AFF.
3. PROVIDE FITTINGS AS NEEDED TO TRANSITION 32"x18" SUPPLY MAIN DUCT FROM VERTICAL RISER TO HORIZONTAL RUN WITH B.O.D. 12' 3" AFF.
4. LV-2 TO BE PROVIDED WITH BACKDRAFT DAMPER.

8 0 8 16

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

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MECHANICAL ENLARGED PLANS

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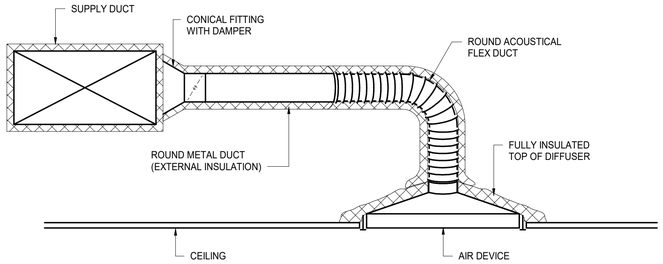
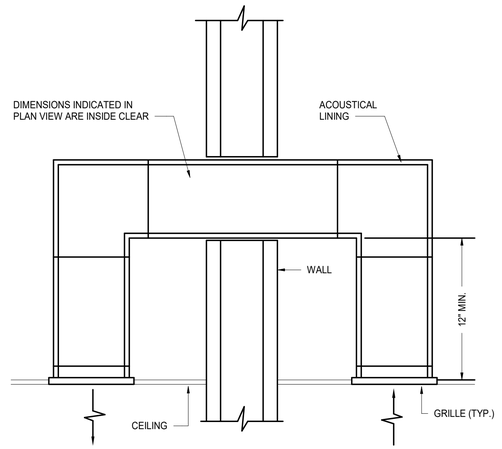


NOTES:

1. SUPPORT DIFFUSERS OR GRILLES FROM STRUCTURE, NOT CEILING GRID SYSTEM.
2. INSTALLATION SIMILAR FOR SLOT DIFFUSERS.
3. 3'-0" MAXIMUM SPACING FOR HANGERS ON FLEX DUCT.
4. PROVIDE VOLUME DAMPER AT TAKEOFF FROM MAIN DUCT. VOLUME DAMPERS ARE NOT PERMITTED AT THE AIR DEVICE.

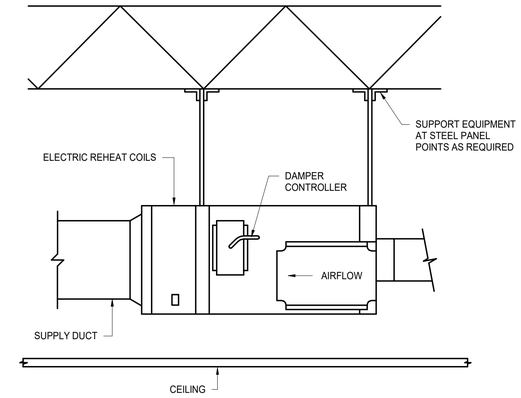
1 M501 TYP. CEILING DIFFUSER RUNOUT

N. T. S.



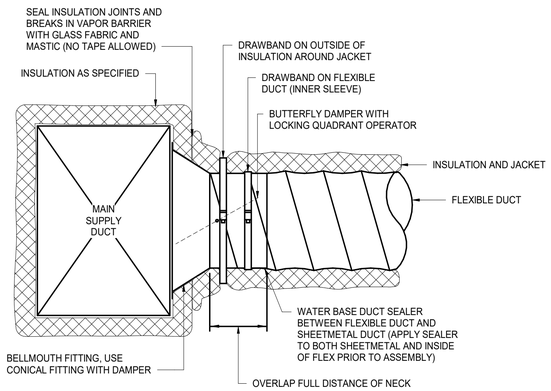
2 M501 TRANSFER DUCT

N. T. S.



3 M501 VARIABLE AIR VOLUME BOX

N. T. S.

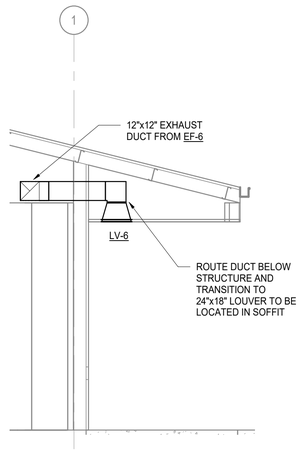


NOTES:

1. TYPICAL FOR: LOW PRESSURE AND HIGH PRESSURE CONNECTION TO MAIN DUCT, FAN TERMINAL UNITS, VARIABLE AIR VOLUME UNITS, AND DIFFUSERS.
2. DRAWBANDS SHALL BE EQUIVALENT TO PANDUIT PLT-H.

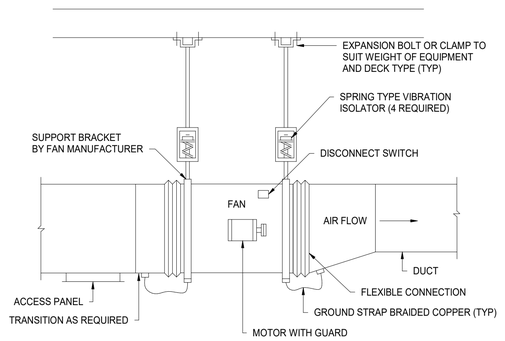
4 M501 FLEX DUCT CONNECTION

N. T. S.



5 M501 LOUVER SOFFIT DETAIL

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



6 M501 INLINE FAN DETAIL

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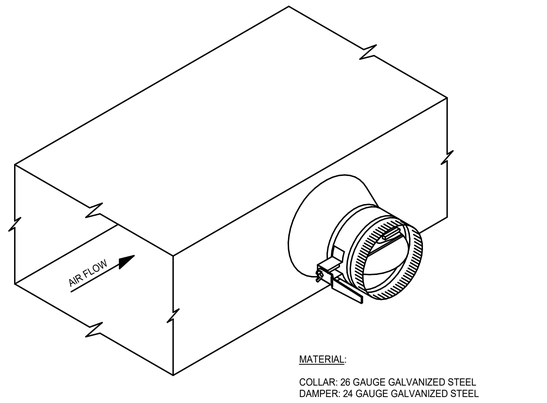

1 M502 CONICAL SPIN-IN CONNECTION

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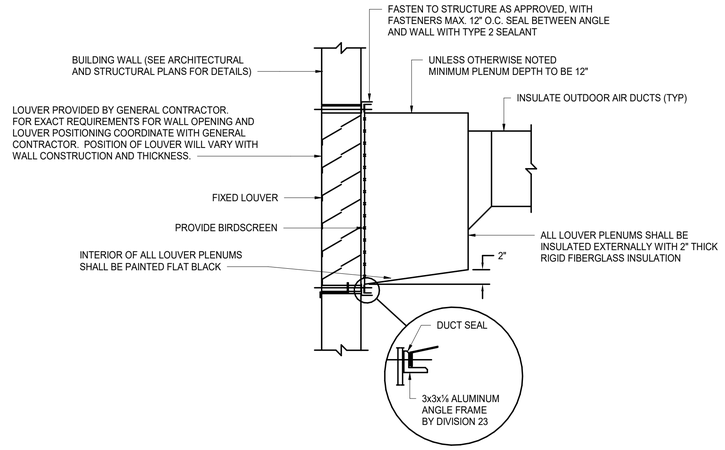
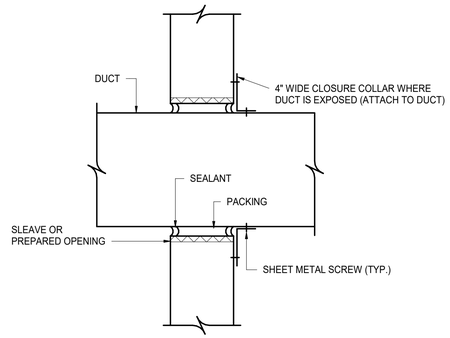


NOTE:

1. REFER TO ARCHITECTURAL DRAWING FOR ADDITIONAL INSTALLATION REQUIREMENTS.

2 M502 DUCT CONNECTION TO LOUVER

N. T. S.



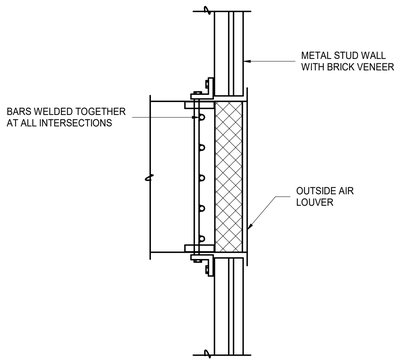
NOTES:

A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.

B. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR.

3 M502 DUCT PENETRATION THROUGH WALL

N. T. S.

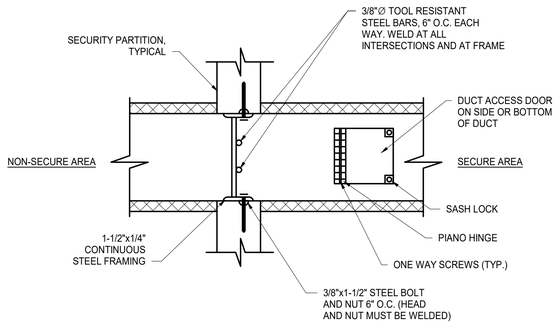


1/2" STEEL BARS @ 6" C/C WELDED TO A 3/8"x4" STEEL PLATE FRAME TO FIT INSIDE DUCT. PROVIDE A 3/8"x4" STEEL PLATE TO FIT OUTSIDE DUCT. FASTEN FRAMES AND 3/8"x4"x6" ANGLE TOGETHER WITH 3.8" CARRIAGE BOLTS 16" C/C BOLT FROM INSIDE DUCT AND BOLT TO INSIDE OF EXTERIOR WALL USING 3/8" BOLTS. BURGLAR BARS SHALL RUN IN BOTH DIRECTIONS.

ONLY REQUIRED FOR OPENINGS 12"x12" AND LARGER

4 M502 EXTERIOR WALL LOUVER SECURITY BAR DETAIL

N. T. S.

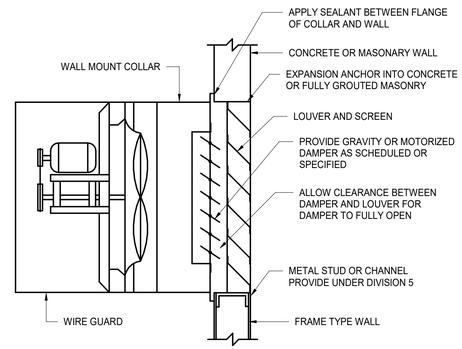


NOTE:

1. SECURITY BARRIER CONFIGURATION SHALL MATCH THE WALL CONFIGURATION AT THE WALL PENETRATION.

5 M502 SECURITY GRILLE

N. T. S.



NOTE:

IF LOUVER OPENING IS LARGER THAN FAN HOUSING PROVIDE STEEL ANGLE BOLTED THROUGH TO STEEL STUD OR CHANNEL WITH 1/2" BOLTS @ 2'-0" O.C. MAX

6 M502 PROPELLER FAN AT LOUVER

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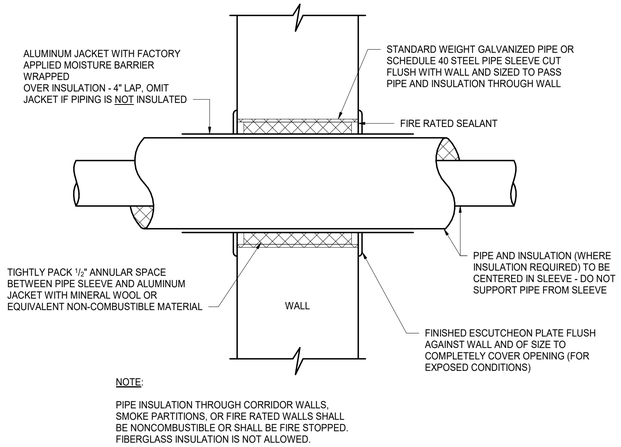
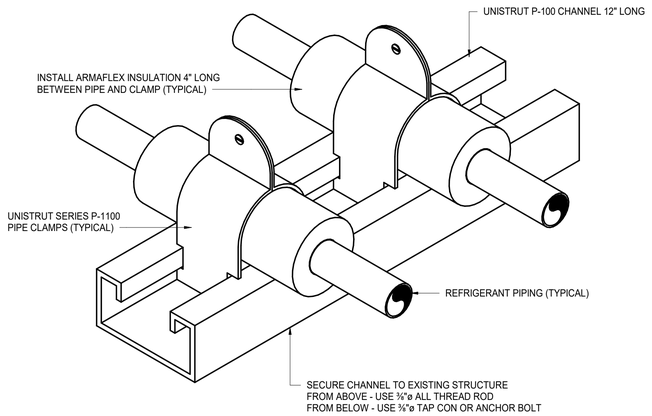


NOTE:

PIPE INSULATION THROUGH CORRIDOR WALLS, SMOKE PARTITIONS, OR FIRE RATED WALLS SHALL BE NONCOMBUSTIBLE OR SHALL BE FIRE STOPPED. FIBERGLASS INSULATION IS NOT ALLOWED.

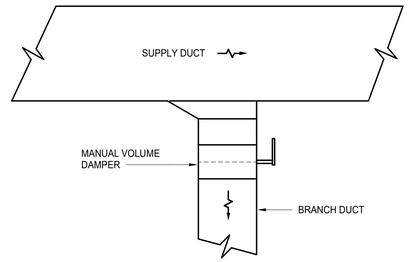
1 M503 PIPE PENETRATION THROUGH WALL

N. T. S.



2 M503 REFRIGERANT PIPE SUPPORT

N. T. S.

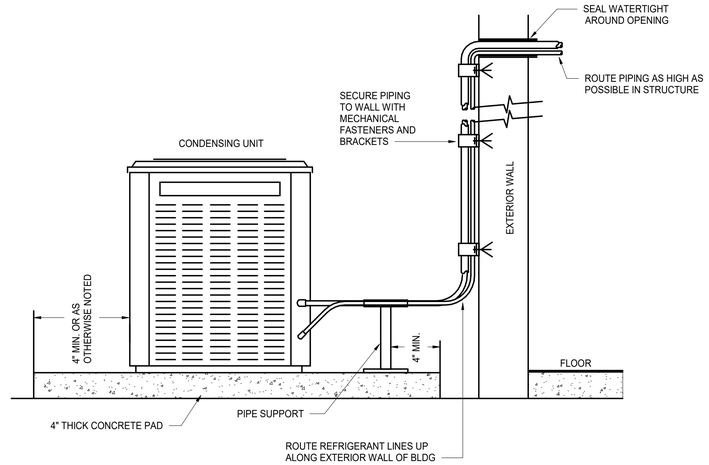


NOTES:

1. BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS.

3 M503 SUPPLY BRANCH DUCT TAKE-OFF

N. T. S.



4 M503 CONDENSING UNIT

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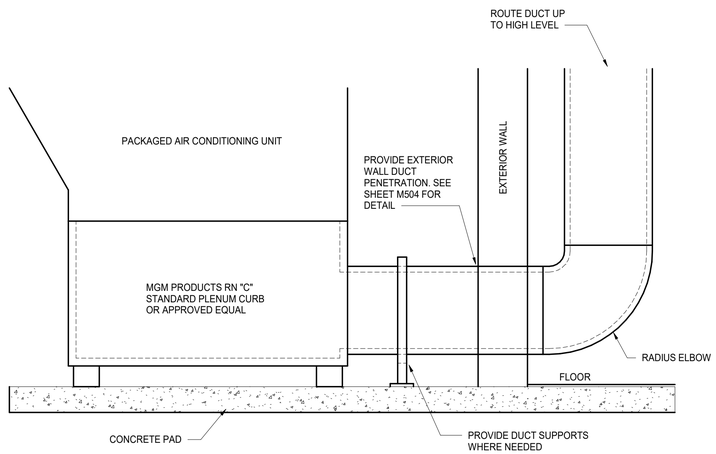

5 M503 PAC UNIT CURB

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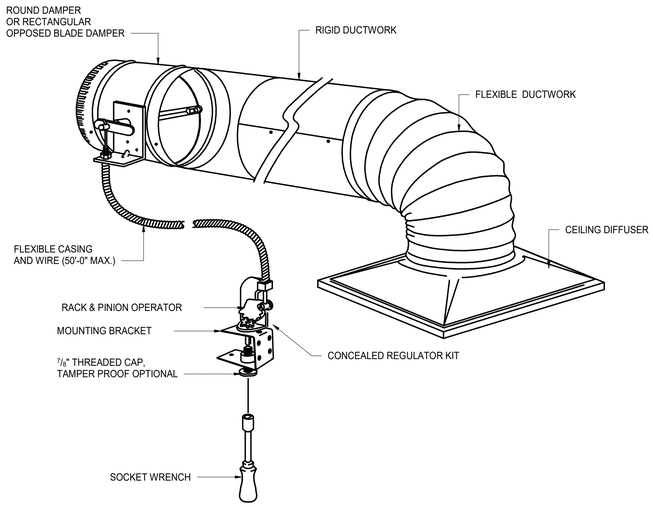
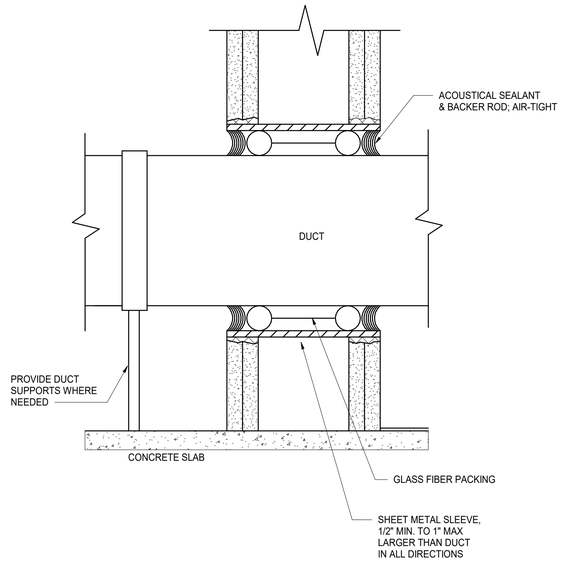


NOTES:

1. COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
2. THE CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE.
3. CABLE SHALL CONSIST OF BOWDEN CABLE .054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 7/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
4. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
5. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4"Ø WITH 265° ROTATION PROVIDING 1 1/2" LINEAR TRAVEL CAPABILITY.

1 M504 REMOTE DAMPER CABLE CONTROL

N. T. S.



2 M504 DUCT WALL PENETRATION DETAIL

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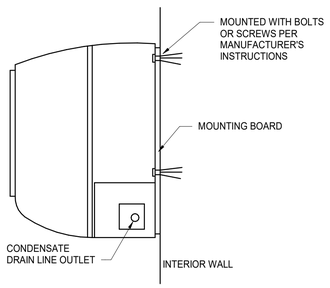

NOTE:

PROVIDE MANUFACTURER RECOMMENDED
MINIMUM CLEARANCES AROUND UNIT.

3 M504 SPLIT SYSTEM INDOOR UNIT MOUNTING DETAIL

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Sheet Size: ARCH E 22X34

EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6
FAN TYPE	INLINE	SIDEWALL PROPELLER	INLINE	INLINE	INLINE	INLINE
AREA SERVED	UNISEX & JAN	MECHANICAL	DETENTION SUITE	ELECTRICAL	FUME HOOD	RESTROOM BANK
DESIGN FLOWRATE (CFM)	150	135	515	75	760	420
AIR TEMPERATURE (°F)	70	70	70	70	70	70
DESIGN PRESSURE DROP (in. w.g.)	0.2	0.2	0.25	0.2	0.22	0.35
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
HORSEPOWER	1/50	1/50	1/10	1/80	1/3	1/10
RPM	1300	1350	1550	1300	1770	1550
VOLTAGE	115	115	115	115	460	115
PHASE	1	1	1	1	3	1
FREQUENCY	60	60	60	60	60	60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	SQ-70-G	SE1-8-440-G	SQ-90-D	SQ-60-G	AX-36-160-0406-A3	SQ-90-D
NOTES	1, 2, 3, 4, 5	1, 2, 3, 4, 6, 8	1, 2, 3, 4, 5	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 7	1, 2, 3, 4, 5

NOTES

1. PROVIDE FACTORY MOUNTED NEC COMPLIANT DISCONNECT.
2. INTERLOCK WITH PAC-1.
3. THERMAL OVERLOAD MOTOR.
4. PROVIDE VIBRATION ISOLATORS.
5. INTERLOCK WITH CORRESPONDING MOTORIZED DAMPER IN EXHAUST AIR DUCT.
6. INTERLOCK WITH MOTORIZED DAMPER IN TRANSFER AIR DUCT.
7. TO BE ACTIVATED BY MANUAL POWER SWITCH LOCATED AT FUME HOOD.
8. PROVIDE WITH BACKDRAFT DAMPER TO BE LOCATED AT CORRESPONDING LOUVER.

SECURITY GRILLE SCHEDULE

MARK	SG
DESCRIPTION	DUCT BARRIER GRILLE
SIZE, W x L (in.)	TO MATCH DUCT - SEE PLANS
MANUFACTURER	PRICE
MODEL	MSBG
NOTES	1

NOTES

1. PROVIDE WITH EITHER 3/8" STEEL BARS WELDED VERTICALLY AND HORIZONTALLY ON 6" CENTERS OR 9-GAUGE WIRE MESH.

AIR DEVICE SCHEDULE

MARK	A	B	C	D	E	F	G	H	J
DESCRIPTION	PERFORATED PLATE DIFFUSER	SQUARE CEILING DIFFUSER	SUPPLY GRILLE	SECURITY GRILLE	SECURITY DIFFUSER	PERFORATED RETURN GRILLE	RETURN GRILLE	SECURITY RETURN GRILLE	SECURITY EXHAUST GRILLE
FACE SIZE, W x L (in.)	24" x 24"	SEE PLANS	SEE PLANS	24" x 24"	SEE PLANS	24" x 24"	SEE PLANS	SEE PLANS	SEE PLANS
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL	PDF	SCD	520	MSPG	MSD	PDDR	510Z	MSPG	MSL
NOTES	1, 2, 5	1, 5	1, 5	1, 4, 5	1, 3, 5	1, 2, 5	1, 5	1, 4, 5	1, 3, 5

NOTES

1. PROVIDE BORDER TYPE SUITABLE FOR INDIVIDUAL LOCATIONS.
2. PROVIDE WITH PERFORATED FACE WITH 3/16" DIAMETER HOLES ON 1/4" STAGGERED CENTERS.
3. PROVIDE WITH 12-GAUGE STEEL LATTICE FACE WITH 13/16" SQUARE HOLES ON 1" CENTERS.
4. PROVIDE WITH 3/16" THICK STEEL FACE WITH 5/16" DIAMETER HOLES ON 7/16" STAGGERED CENTERS.
5. SELECT AND INSTALL ACCORDING TO SPECIFICATION SECTION 233713.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

MARK	VAV-1	VAV-2	VAV-3A	VAV-3B	VAV-4	VAV-5	VAV-6	VAV-7	VAV-8	VAV-9	VAV-10	VAV-11	VAV-12	VAV-13	VAV-14	VAV-15	VAV-16	VAV-17	VAV-18
INLET SIZE (in.)	5	4	12	10	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4
DESIGN COOLING AIRFLOW (CFM)	450	80	1560	1200	110	145	160	100	280	100	400	175	100	500	485	200	230	110	75
MINIMUM AIRFLOW (CFM)	140	35	470	360	35	45	50	35	85	35	120	55	35	150	150	60	70	35	35
ELECTRIC COIL CAPACITY (kW)	1.0	0.5	2	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.5	0.5
VOLTAGE	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277
PHASE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FREQUENCY	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
MAX STATIC PRESSURE DROP (in. w.g.)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MAXIMUM NC VALUE	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL	SDV 5	SDV 4	SDV 12	SDV 10	SDV 4	SDV 4	SDV 4	SDV 4	SDV 4	SDV 4	SDV 4	SDV 4	SDV 4	SDV 5	SDV 5	SDV 4	SDV 4	SDV 4	SDV 4
NOTES	1, 2, 4	1, 2, 3	1, 2, 5	1, 2, 5	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 4	1, 2, 4	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3

NOTES

1. PROVIDE FULL INSTALLATION COMPLETE WITH FIELD FURNISHED/FACTORY INSTALLED WIRELESS DDC CONTROLS, DUCTWORK, POWER, AND SUPPORTS.
2. PROVIDE EACH UNIT WITH SINGLE POINT CONNECTION, STEP DOWN TRANSFORMER FOR CONTROL VOLTAGE POWER REQUIREMENTS, AND INTEGRAL POWER DISCONNECT SWITCH.
3. PROVIDE 1 STAGE ELECTRIC REHEAT COIL.
4. PROVIDE 2 STAGE ELECTRIC REHEAT COIL.
5. PROVIDE 3 STAGE ELECTRIC REHEAT COIL.

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MECHANICAL SCHEDULES

SHEET NUMBER

M601

BID DOCUMENTS

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LOUVER SCHEDULE

MARK	LV-1	LV-2	LV-3	LV-4	LV-5	LV-6
TYPE	DRAINABLE STATIONARY	DRAINABLE STATIONARY	DRAINABLE STATIONARY	DRAINABLE STATIONARY	DRAINABLE STATIONARY	DRAINABLE STATIONARY
LOCATION	UNISEX	MECHANICAL ROOM	SECURE STORAGE	ELECTRICAL ROOM	LAN/SLAN	MEN'S RESTROOM
WIDTH (in.)	24	36	24	24	24	24
HEIGHT (in.)	12	12	18	12	24	18
FREE AREA (sqft)	0.67	1.04	1.28	0.67	1.89	1.28
FACE VELOCITY (ft/min)	225	130	400	110	400	330
PRESSURE DROP (in. w.g.)	0.01	0.01	0.03	0.01	0.03	0.02
MANUFACTURER	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN
MODEL	ELF6375DXD	ELF6375DXD	ELF6375DXD	ELF6375DXD	ELF6375DXD	ELF6375DXD
NOTES	1, 2, 3	1, 2, 3, 4	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3

NOTES

1. DRAINABLE STATIONARY LOUVER WITH 5/8"x0.40" ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.
2. MAX FACE VELOCITY OF 500 FEET PER MINUTE.
3. PROVIDE WITH SECURITY GRILLE AT LOUVER. SEE SHEET M502 DETAIL 4.
4. PROVIDE WITH BACKDRAFT DAMPER.

DX SPLIT SYSTEM UNIT SCHEDULE

INDOOR UNIT	
MARK	AC-1
AREA SERVED	LAN / SLAN
UNIT TYPE	WALL MOUNTED
TOTAL COOLING CAPACITY (MBH)	36000
COOLING DESIGN AIRFLOW (CFM)	705 - 810 - 920
SUPPLY FAN MOTOR POWER (W)	56
MCA	1
LENGTH x WIDTH x HEIGHT (in.)	46 x 12 x 14
OUTDOOR UNIT	
MARK	CU-1
CONDENSER FAN POWER (W)	74 (x2)
CONDENSER AIRFLOW (CFM)	3880
COMPRESSOR TYPE	INVERTER-DRIVEN TWIN ROTARY
MCA	25
MOCP	31
LENGTH x WIDTH x HEIGHT (in.)	41 x 16 x 53
GENERAL DATA	
VOLTAGE	208 / 230
PHASE	1
FREQUENCY	60
SEER	18.8
EER	10.8
REFRIGERANT TYPE	R-410A
MANUFACTURER	MITSUBISHI
MODEL (INDOOR/OUTDOOR)	PKA-A36KA7 / PUY-A36NKA7
NOTES	1 - 8

NOTES

1. PROVIDE SINGLE POINT POWER CONNECTION. IF ELECTRICAL DATA VARIES, PROVIDE ELECTRICAL SHOP DRAWING WITH HVAC SHOP DRAWING INDICATING CHANGES TO CIRCUIT, OVERCURRENT PROTECTION, PANEL, AND FEEDER.
2. PROVIDE INDOOR UNIT WITH MUTIPLE SPEED MOTOR AND DIRECT DRIVE FAN.
3. REFRIGERATION PIPING BETWEEN INDOOR AND OUTDOOR UNITS SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE CONDENSATE DRAIN FROM INDOOR UNIT TO NEAREST FLOOR DRAIN. PIPE SHALL BE FULL SIZE OF THE DRAIN CONNECTION OR 3/4", WHICHEVER IS LARGER.
5. PROVIDE COMPRESSOR SHORT CYCLE PROTECTION TO PREVENT COMPRESSOR RESTART FOR AT LEAST 5 MINUTES AFTER SHUT DOWN.
6. PROVIDE INDOOR UNIT WITH THERMAL EXPANSION VALVES.
7. PROVIDE OUTDOOR UNIT WITH REFRIGERANT SIGHT GLASS AND REFRIGERANT FILTER DRIER.
8. PROVIDE A REMOTE CONTROLLER WITH THE UNIT THAT INCLUDES ALL CONTROLS FOR COOLING MODES WITH BACNET INTERFACE CAPABILITY.

PACKAGED AIR CONDITIONING UNIT SCHEDULE

MARK	PAC-1
AREA SERVED	ENTIRE BUILDING
TOTAL COOLING CAPACITY (MBH)	262.29
COOLING DESIGN AIRFLOW (CFM)	6500
MINIMUM OUTSIDE AIRFLOW (CFM)	1720
SUMMER DESIGN OUTSIDE AIR TEMPERATURE (°F DB/WB)	94 / 77
WINTER DESIGN OUTSIDE AIR TEMPERATURE (°F DB)	29
HEAT PUMP CAPACITY (MBH)	225.3
AUXILIARY HEAT CAPACITY (kW)	20
HOT GAS REHEAT CAPACITY (MBH)	120
HOT GAS REHEAT LAT (°F DB/WB)	70 / 59
COOLING EAT (°F DB/WB)	80 / 67
COOLING LAT (°F DB/WB)	55 / 53
SUPPLY FAN MOTOR HORSEPOWER (HP)	7.5
SUPPLY FAN EXTERNAL STATIC PRESSURE (in. w.g.)	2.25
TOTAL STATIC PRESSURE (in. w.g.)	3.63
EXHAUST FAN HORSEPOWER (HP)	5
EXHAUST FAN EXTERNAL STATIC PRESSURE (in. w.g.)	0.75
VOLTAGE	460
PHASE	3
FREQUENCY	60
MCA	66
MOCP	80
EER	8.7
FLA	61
LENGTH x WIDTH x HEIGHT (in.)	138 x 101 x 59
OPERATING WEIGHT (LBS)	3079
REFRIGERANT TYPE	R-410A
MANUFACTURER	AAON
MODEL	RN-025-3-0-E609-122
NOTES	1 - 20

NOTES

1. UNIT TO BE A HEAT PUMP WITH AUXILIARY HEAT.
2. PROVIDE RACKS FOR 2" THICK (30% EFFICIENCY) PRE-FILTER AND 4" THICK (85% EFFICIENCY, MERV 13) FINAL FILTER.
3. UNIT SHALL BE DOUBLE WALL CONSTRUCTION DESIGNED AND BUILT FOR OUTDOOR INSTALLATION.
4. UNIT SHALL HAVE MOTORIZED OUTSIDE AIR DAMPER.
5. PROVIDE UNIT WITH VARIABLE FREQUENCY DRIVE CONTROL ON SUPPLY AND EXHAUST FANS.
6. PROVIDE BACNET COMPATIBLE BAS INTERFACE AND PAC CONTROLLER.
7. PROVIDE UNIT MOUNTED DISCONNECTS.
8. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT.
9. PROVIDE UNIT WITH 32" HIGH STAINLESS STEEL PLENUM CURB WITH HURRICANE TIE-DOWN. CURB BY MGM PRODUCTS, INC OR APPROVED EQUAL.
12. PROVIDE UNIT WITH A SMOKE DETECTOR IN SUPPLY AND RETURN AIR PATHS.
13. PROVIDE UNIT WITH TEMPERATURE SENSOR, HUMIDISTAT, AND CO2 SENSORS MOUNTED IN THE RETURN AIR PATH.
15. PROVIDE UNIT WITH AIR FLOW MONITORING STATION INTEGRAL TO UNIT AND CONTROLLED BY CO2 SENSOR.
16. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
17. ESP ONLY INCLUDES LOSSES EXTERNAL TO THE UNIT.
18. ROUTE 1" CONDENSATE DRAIN LINE TO YARD DRAIN. SEE PLUMBING DRAWINGS FOR DETAILS.
19. PROVIDE UNIT WITH 115V 1-PHASE CONVENIENCE OUTLET.
20. PROVIDE UNIT WITH 100% OUTSIDE AIR ECONOMIZER AND MODULATING POWERED EXHAUST COMBINATION PACKAGE COMPLETE WITH ACTUATOR, CONTROLS, AND ALL NECESSARY PANELS AND HARDWARE.

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M602

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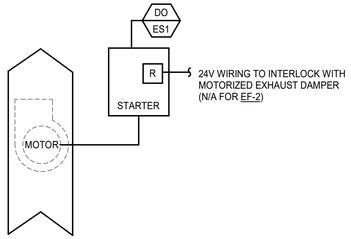


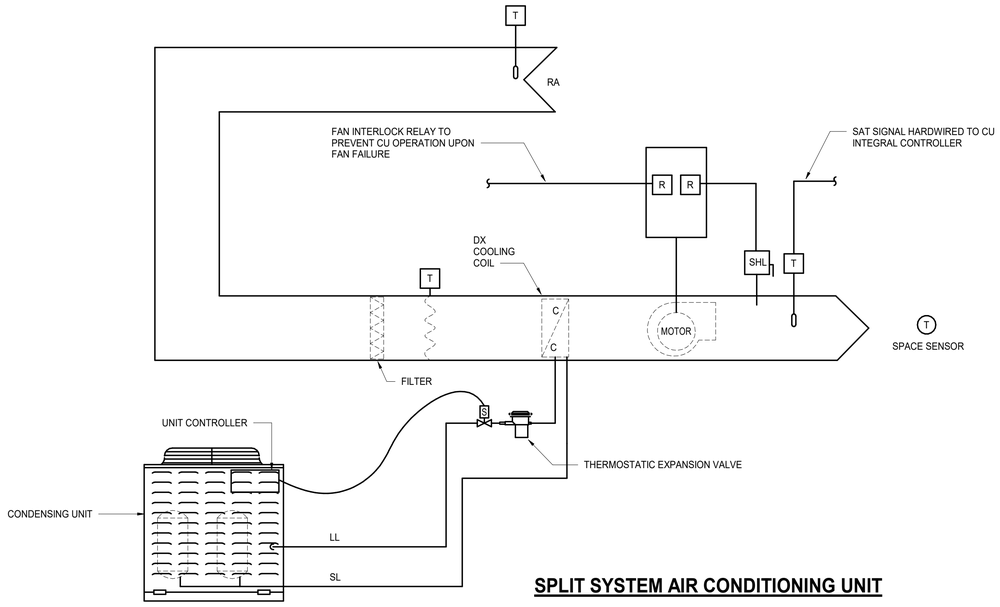
CONTROL POINT LIST: EF-1 - EF-4, EF-6		
POINT DESIGNATION	DESCRIPTION	CONTROLLED BY
ES1	EXHAUST FAN STARTER - START/STOP	BAS
ES2	EXHAUST FAN CURRENT TRANSDUCER	

CONTROL POINT LIST: EF-5		
POINT DESIGNATION	DESCRIPTION	CONTROLLED BY
ES1	EXHAUST FAN STARTER - START/STOP	SWITCH
ES2	EXHAUST FAN CURRENT TRANSDUCER	

EXHAUST FAN

FAN SEQUENCE:

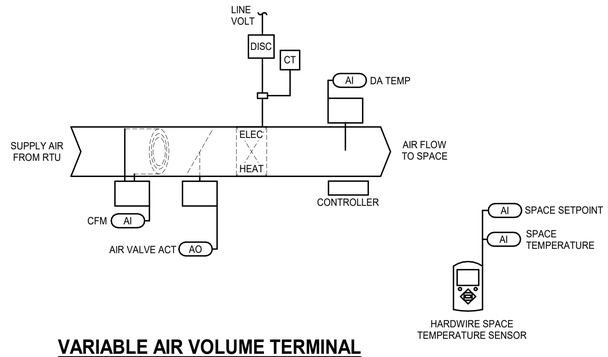
EXHAUST FANS EF-1 THROUGH EF-4 & EF-6 SHALL BE ACTIVATED BY BAS SYSTEM. EXHAUST FAN EF-5 SHALL BE ACTIVATED BY MANUAL SWITCH TO BE PROVIDED AT THE FUME HOOD. EF-1, EF-3, EF-4, EF-5, & EF-6 SHALL BE INTERLOCKED WITH CORRESPONDING MOTORIZED DAMPER IN EXHAUST AIR DUCT. IN ADDITION, EF-2 & EF-4 SHALL BE INTERLOCKED WITH MOTORIZED DAMPER IN TRANSFER AIR DUCT. WHEN THE EXHAUST FAN IS ACTIVATED, THE MOTORIZED DAMPER(S) SHALL OPEN. MOTORIZED DAMPER(S) SHALL CLOSE WHEN THE EXHAUST FAN IS DE-ACTIVATED. ALL EXHAUST FANS SHALL BE INTERLOCKED WITH PAC-1. WHENEVER THE EXHAUST FAN IS RUNNING, THE PAC UNIT SHALL BE ACTIVATED.



SPLIT SYSTEM AIR CONDITIONING UNIT

NOTES:

1. SEE SPECIFICATION SECTION 230993 FOR SEQUENCE OF OPERATIONS.



VARIABLE AIR VOLUME TERMINAL

VAV TERMINAL WITH SENSOR SEQUENCE OF OPERATIONS:

SYSTEM CONTROLLER INTERFACE: THE BACNET COMPLIANT SYSTEM CONTROLLER (SC) SHALL SEND THE VAV CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND. THE SC MAY ALSO SEND TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT TO THE VAV CONTROLLER. IF SPACE COMMUNICATION IS LOST WITH THE SC THE VAV CONTROLLER SHALL OPERATE USING ITS LOCAL OR DEFAULT SETPOINTS.

OCCUPANCY MODE: THE OCCUPANCY MODE SHALL BE HARDWIRED TO THE VAV VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE VAV SHALL BE:

OCCUPIED: NORMAL OPERATING MODES FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE VAV UNIT IS IN THE OCCUPIED MODE, THE SPACE TEMPERATURE WILL BE MAINTAINED AT THE SENSOR'S OCCUPIED COOLING SETPOINT OF 75°F (ADJ.). ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE OCCUPIED SPACE TEMPERATURE SETPOINT (ADJ.), THE VAV CONTROLLERS WILL MODULATE THE VAV DAMPER BETWEEN THE MINIMUM AND MAXIMUM POSITION TO MAINTAIN THE OCCUPIED SETPOINT. IF COMMUNICATION TO THE SC IS LOST, THE SPACE TEMPERATURE SHALL BE CONTROLLED TO THE LOCAL SPACE SENSOR'S DEFAULT SETPOINT AS PROGRAMMED DURING COMMISSIONING.

ON A DECREASE IN ZONE SPACE TEMPERATURE BELOW THE SENSOR'S OCCUPIED SPACE TEMPERATURE SETPOINT (ADJ.), THE CONTROLLER SHALL MODULATE THE VAV DAMPER TOWARD THE MINIMUM POSITION TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT.

HEATING CONTROL: DURING ALL OCCUPIED MODES, AS THE SPACE TEMPERATURE FALLS BELOW THE SENSOR'S HEATING SETPOINT, THE VAV DAMPER SHALL MODULATE TO ITS MINIMUM HEATING AIRFLOW POSITION. UPON A CONTINUED DROP IN TEMPERATURE AND/OR UNIT AIRFLOW, THE ELECTRIC DUCT REHEAT SHALL BE CYCLED TO MAINTAIN THE SENSOR'S HEATING SETPOINT. THE VAV TERMINAL'S ELECTRIC DUCT REHEAT SHALL BE ENERGIZED BASED ON THE LENGTH OF TIME HEAT HAS BEEN REQUESTED AND TEMPERATURE DEVIATION FROM THE SETPOINT.

ON AN INCREASE IN SPACE TEMPERATURE THE REVERSE SHALL OCCUR.

APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

UNOCCUPIED: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE VAV UNIT IS IN THE UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED TEMPERATURE SETPOINTS. WHEN THE SPACE TEMPERATURES FALL BELOW THE UNOCCUPIED HEATING SETPOINT OF 60°F (ADJ.), THE PAC UNIT SUPPLY FAN SHALL START AT THE MINIMUM CFM SETTING AND THE VAV UNIT SHALL MODULATE THE DAMPER TO ITS MINIMUM POSITION. THE VAV SHALL CYCLE ITS ELECTRIC DUCT HEAT STAGES TO MAINTAIN THE NIGHT SETBACK SPACE TEMPERATURE SETPOINT OF 60°F (ADJ.).

WHEN THE SPACE TEMPERATURES RISES ABOVE THE UNOCCUPIED HEATING SETPOINT 60°F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL 2°F (ADJ.), THE PAC UNIT'S SUPPLY FAN WILL STOP, THE VAV UNIT'S ELECTRIC DUCT REHEAT SHALL BE DISABLED AND THE VAV UNIT WILL RETURN TO THE UNOCCUPIED MODE.

WHEN THE SPACE TEMPERATURES RISE ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85°F (ADJ.), THE PAC UNIT'S SUPPLY FAN WILL START, THE VAV UNIT SHALL OPEN THE DAMPER TO ITS MAXIMUM POSITION AND THE PAC UNIT'S STAGES OF DX COOLING WILL CYCLE TO MAINTAIN THE OCCUPIED DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.). WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85°F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL 2°F (ADJ.), THE PAC UNIT'S SUPPLY FAN WILL STOP, THE DX COOLING STAGES WILL BE DE-ENERGIZED AND THE VAV UNIT SHALL RETURN TO THE UNOCCUPIED MODE.

SPACE SENSOR FAILURE: IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR, AN ALARM SHALL BE ANNUNCIATED AT THE LOCAL CONTROLLED PANEL. SPACE SENSOR FAILURE SHALL CAUSE THE VAV UNIT TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV UNIT IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED AND DISABLE THE ELECTRIC REHEAT IF THE VAV UNIT IS IN THE UNOCCUPIED MODE.

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MECHANICAL CONTROLS SCHEMATICS

SHEET NUMBER

M801

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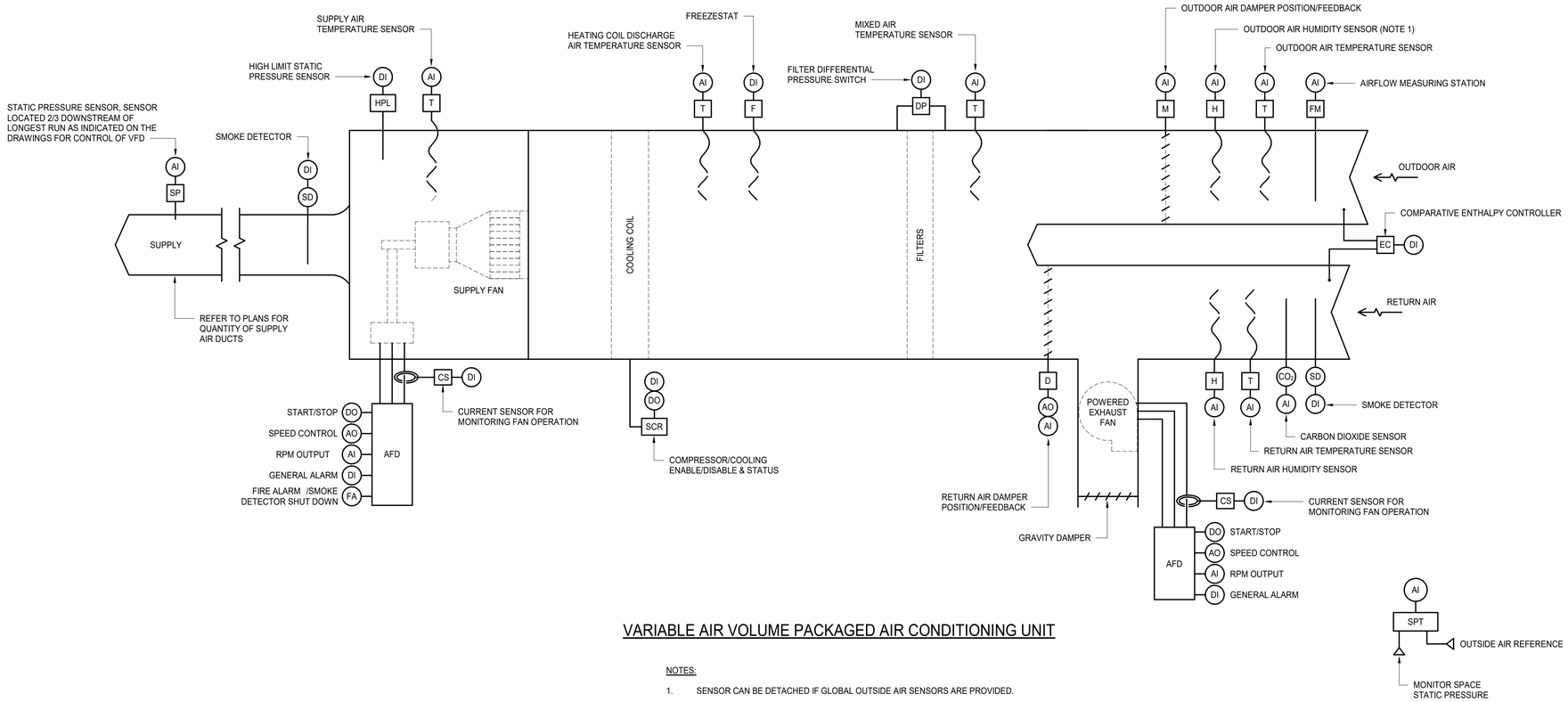

VARIABLE AIR VOLUME PACKAGED AIR CONDITIONING UNIT

NOTES:

1. SENSOR CAN BE DETACHED IF GLOBAL OUTSIDE AIR SENSORS ARE PROVIDED.
2. SEE SPECIFICATION SECTION 230993 FOR SEQUENCE OF OPERATIONS.

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MECHANICAL CONTROLS SCHEMATICS

SHEET NUMBER

M802

BID DOCUMENTS

Sheet Size: ARCH E 22X34

ABBREVIATIONS:

ACP	ACCESS CONTROL PANEL
AF	AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFL	COMPACT FLUORESCENT
CGB	COMMUNICATION GROUND BAR
CH	COUNTER HEIGHT
DDC/BAS	DIRECT DIGITAL CONTROL PANEL (HVAC)
DHZ	DAYLIGHT HARVESTING ZONE (SEE LIGHTING PLANS AND LIGHTING CONTROL NARRATIVE)
EPO	EMERGENCY POWER OFF
EX	EXISTING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FPC	FUEL PUMP CONTROLLER
FRAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL
GB	GROUND BAR
GCTC	GATE CONTROL TERMINATION CABINET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GND	GROUND
INT	INTERCOM
JB	JUNCTION BOX
LT	LIGHT
KVA	KILOVOLT AMPERE
MB	MAIN BREAKER
MDF	MAIN DISTRIBUTION FRAME
MNS	MASS NOTIFICATION SYSTEM
MLO	MAIN LUGS ONLY
MNT	MOUNTED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OH	OVERHEAD
OC	AT COUNTER
OS	OCCUPANCY SENSOR
PA	PUBLIC ADDRESS
PNL	PANEL
PROJ SCRN	PROJECTION SCREEN
REF	REFRIGERATOR
RECEPT	RECEPTACLE
SEGB	SERVICE ENTRANCE GROUND BAR
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
TYP	TYPICAL
UDS	UTILITY DISTRIBUTION SYSTEM
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
Z	IMPEDENCE

LIGHTING SYSTEM

LED 2' x 2' EMERGENCY LUMINAIRE. SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

LED 2' x 2' LUMINAIRE. SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

LED SUSPENDED 1' x 4' LUMINAIRE.
SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

LED WALL MOUNTED 1' x 4' LUMINAIRE.
SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION

RECESSED DOWN LIGHT, SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

EXTERIOR WALL MOUNTED LUMINAIRE. HALF SHADED CENTER INDICATES EMERGENCY BALLAST/DRIVER. MOUNTED AT 9'-0" ABOVE GRADE, UNO.

WALL MOUNTED AND CEILING MOUNTED LED EXIT SIGN. SHADED AREA INDICATES DIRECTION OF FACE. ARROW POINTS IN DIRECTION OF CHEVRON.

$ 4'-0" TO ℄ — SWITCH, SINGLE POLE. AMP 120/277 VOLT.
(E) INDICATES EXISTING TO REMAIN (TYP.)

$2 4'-0" TO ℄ — SWITCH, TWO POLE. 20 AMP 120/277 VOLT.

$3 4'-0" TO ℄ — SWITCH, THREE POLE. 20 AMP 120/277 VOLT.

$4 4'-0" TO ℄ — SWITCH, FOUR POLE. 20 AMP 120/277 VOLT.

$LV 4'-0" TO ℄ — LOW VOLTAGE SWITCH, CONNECTED TO OCCUPENCY SENSOR

$OS 4'-0" TO ℄ — SWITCH, OCCUPANCY SENSOR, 1000 SQ. FT. AND 180 DEGREE COVERAGE, ULTRASONIC AND INFRARED, MANUAL ON.

$D 4'-0" TO ℄ — SWITCH, DIMMER.

$M 4'-0" TO ℄ — MOTOR RATED SWITCH. (MANUAL MOTOR STARTER).
COORDINATE POLE AND AMPACITY OF MOTOR BEING CONTROLLED.

$OSD 4'-0" TO ℄ — SWITCH, OCCUPANCY SENSOR/DIMMER, WALL MOUNTED, ULTRASONIC AND INFRARED, 1000 SF AND 180 DEGREE COVERAGE, AUTOMATIC TO 50% LIGHT LEVEL WHEN OCCUPANCY IS SENSED, SWITCH MANUAL ON FROM SWITCH TO 100%. SWITCH MANUAL OFF, INCLUDES MANUAL ADJUSTMENT OF LIGHT LEVEL ONE STEP BETWEEN 50% AND 70% OF FULL LEVEL, AUTOMATICALLY TURN OFF 15 MINUTES AFTER NO ACTIVITY IS DETECTED, UTILIZES 0-10 V FOR DIMMING CONTROL.

$3OSD 4'-0" TO ℄ — 3-WAY SWITCH, OCCUPANCY SENSOR/DIMMER, THREE POLE. 20 AMP 120/277 VOLT.
AND 180 DEGREE COVERAGE, AUTOMATIC TO 50% LIGHT LEVEL WHEN OCCUPANCY IS SENSED, SWITCH MANUAL ON FROM SWITCH TO 100%. SWITCH MANUAL OFF, INCLUDES MANUAL ADJUSTMENT OF LIGHT LEVEL ONE STEP BETWEEN 50% AND 70% OF FULL LEVEL, AUTOMATICALLY TURN OFF 15 MINUTES AFTER NO ACTIVITY IS DETECTED, UTILIZES 0-10 V FOR DIMMING CONTROL.

$VS 4'-0" TO ℄ — SWITCH, VACANCY SENSOR, WALL MOUNTED, ULTRASONIC AND INFRARED, 1000 SF AND 180 DEGREE COVERAGE, AUTOMATIC TO 50% LIGHT LEVEL WHEN OCCUPANCY IS SENSED, SWITCH MANUAL ON FROM SWITCH TO 100%. SWITCH MANUAL OFF, AUTOMATICALLY TURN OFF 15 MINUTES AFTER NO ACTIVITY IS DETECTED, UTILIZES 0-10 V FOR DIMMING CONTROL.

$VSD 4'-0" TO ℄ — SWITCH, VACANCY SENSOR/DIMMER, WALL MOUNTED, ULTRASONIC AND INFRARED, 1000 SF AND 180 DEGREE COVERAGE, AUTOMATIC TO 50% LIGHT LEVEL WHEN OCCUPANCY IS SENSED, SWITCH MANUAL ON FROM SWITCH TO 100%. SWITCH MANUAL OFF, INCLUDES MANUAL ADJUSTMENT OF LIGHT LEVEL ONE STEP BETWEEN 50% TO 70% OF FULL LEVEL, AUTOMATICALLY TURN OFF 15 MINUTES AFTER NO ACTIVITY IS DETECTED, UTILIZES 0-10 V FOR DIMMING CONTROL.

(OS) — OCCUPANCY SENSOR, CEILING MOUNTED, ULTRASONIC AND INFRARED, 2000 SF COVERAGE, QUICK TO INSTALL CONNECTOR

TC — ELECTRONIC TIME CLOCK

(D) — PHOTOCELL, DAYLIGHTING SENSOR

POWER

RECEPTACLE, DUPLEX, NEMA 5-20R. 18" UNO TO CENTERLINE.

FLOOR MOUNTED RECEPTACLE, QUADRUPLEX, NEMA 5-20R.

1'-6" TO ℄ — RECEPTACLE, QUADRUPLEX, NEMA 5-20R.

RECEPTACLE, SIMPLEX, NEMA 5-20R. 8'-0" TO CENTERLINE, UNO.

SPECIAL PURPOSE RECEPTACLE. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT.

(E) — ELECTRICAL CONNECTION POINT

(J) — JUNCTION BOX, 4" SQUARE MINIMUM, SEE PLANS FOR ADDITIONAL SIZES

(J) — JUNCTION BOX, 4" SQUARE MINIMUM, WALL MOUNTED.

PANELBOARD, MOUNTED 6'-6" TO TOP OF OPERATING HANDLE, VOLTAGE AS INDICATED ON PANEL SCHEDULE, DASHED LINE ASSOCIATED TO PANELBOARD INDICATES 3' WORKING CLEARANCE

3 30/20 — DISCONNECT SWITCH, MOUNTED 6'-6" TO TOP OF OPERATING HANDLE, SIZE AS INDICATED ON PLANS. 3 POLE, 30A RATED, 20A FUSED SHOWN, 30 A NF NEMA 1 UNO.

VFD 4'-0" TO ℄ — VARIABLE FREQUENCY DRIVE

4'-0" TO ℄ — MOTOR STARTER, COMBINATION DISCONNECT. PROVIDE MOTOR OVERLOADS SIZED AS REQUIRED FOR THE MOTOR BEING SERVED, STARTER SHALL BE NEMA 1 UNO.

T — DRY TYPE TRANSFORMER IN NEMA 1 ENCLOSURE, UNO.

EDB — ELECTRICAL DUCT BANK (EDB)

GENERATOR EMERGENCY SHUT OFF BUTTON. PROVIDE "BREAK GLASS" EMERGENCY POWER OFF BUTTON IN RED NEMA 3R ENCLOSURE WITH HAMMER. MOUNT BUTTON NO HIGHER THAN 78" ABOVE GROUND. PROVIDE PLACARD PER SPECIFICATIONS STATING "EMERGENCY POWER OFF".

FIRE ALARM SYSTEM

FACP — FIRE ALARM CONTROL PANEL.

FAAP — FIRE ALARM ANNUNCIATOR PANEL.

FS — FLOW SWITCH

PS — HIGH/LOW PRESSURE SWITCH (PRE-ACTION SYSTEM)

TS — TAMPER SWITCH

M — FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION, 48 INCH MOUNTING HEIGHT

15 — SEMI-FLUSH MOUNTED FIRE ALARM HORN STROBE DEVICE, MOUNT 80-96 INCH FROM FLOOR TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LESS. 15 INDICATES CANDELA RATING. DEVICES NOT LABELED SHALL BE 75 CANDELAS

WP — HORN, WEATHERPROOF, 90" MOUNTING HEIGHT

XX — SEMI-FLUSH FIRE ALARM VISUAL STROBE DEVICE, WALL MOUNT, 80-96 INCH FROM FLOOR BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LESS. XX INDICATES CANDELA RATING. DEVICES NOT LABELED SHALL BE 75 CANDELAS.

C 15 — CEILING MOUNTED FIRE ALARM HORN STROBE DEVICE. 15 INDICATES CANDELA RATING. DEVICES NOT LABELED SHALL BE 75 CANDELAS

C 15 — CEILING MOUNTED FIRE ALARM VISUAL STROBE DEVICE. 15 INDICATES CANDELA RATING. DEVICES NOT LABELED SHALL BE 75 CANDELAS.

FLUSH WALL MOUNTED DOOR HOLDING DEVICE - MOUNT 70 INCH AFF.

(S) — ADDRESSABLE CEILING MOUNTED SMOKE DETECTOR. FSD: FIRE SMOKE DAMPER, SD: SMOKE DAMPER

D (S) — ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR, MOUNTED IN A/C DUCT

(H) — ADDRESSABLE CEILING MOUNTED HEAT DETECTOR, COMBINATION FIXED TEMPERATURE/RATE OF RISE.

(H) AFT — ADDRESSABLE CEILING MOUNTED HEAT DETECTOR, COMBINATION FIXED TEMPERATURE/RATE OF RISE. PROGRAM FOR FIXED TEMPERATURE ONLY COVERAGE.

(H) FT — NON-ADDRESSABLE CEILING MOUNTED HEAT DETECTOR, FIXED TEMPERATURE TYPE, RATED FOR 200 DEGREES

(H) X — NON-ADDRESSABLE CEILING MOUNTED HEAT DETECTOR, EXPLOSION PROOF.

R — EXHAUST FAN SHUT DOWN RELAY.

G — GAS VALVE RESET SWITCH.

GV — GAS SOLENOID VALVE, NORMALLY-CLOSED, 24VDC

SPD — SURGE PROTECTION

SINGLE LINE DIAGRAM SYMBOLS

(PT) POTENTIAL TRANSFORMER

GFI — GROUND FAULT TRIPPING MECHANISM WITH SENSING COIL

LA — SURGE ARRESTER

DISCONNECT SWITCH

FUSE

FUSED CUTOUT OR LOADBREAK FUSED SWITCH

DRAWOUT DEVICE

CIRCUIT BREAKER OR MOTOR CICUIT PROTECTOR

POWER OR DISTRIBUTION TRANSFORMER

TRANSFER SWITCH

25 — MOTOR (NUMBER DENOTES HP)

PANEL — SINGLE SECTION PANELBOARD (ADDITIONAL SECTIONS SHOWN, IF REQUIRED)

LOAD BANK TAP BOX

SPD — SURGE PROTECTION DEVICE

WYE CONNECTION

EMERGENCY GENERATOR

HORIZONTAL BUSDUCT (BUSWAY)

PM — POWER METER

LIGHTNING PROTECTION LEGEND

AIR TERMINAL ON ROOF

GROUD ROD

ROOF/DOWN CONDUCTOR

BARE COPPER COUNTERPOISE

EXOTHERMIC BOND

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ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

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E001

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LUMINAIRE SCHEDULE

Type Mark	Description	Manufacturer	Model	Voltage	Lamp	Initial Color Temperature	Wattage	Lumens
B1	144 LEDS (2 BOARDS) 2x2'RECESSED TROFFER LUMINAIRE WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN 0-10 DRIVER	WILLIAMS	50G-S22-L26-940-SAF12125-xxx-xxx OR APPROVED EQUAL	277 V	LED	4000 K	21 W	2602 lm
B1E	GENERAL PURPOSE LED TROFFER 2'X2' WITH 2600 NOMINAL LUMENS #A12 ACRYLIC LENS WITH BATTERY BACKUP	WILLIAMS	50G-S-22-L26/940-EM/10W OR APPROVED EQUAL	277 V	LED	4000 K	21 W	2602 lm
B2	144 LEDS (2 BOARDS) 2x2'RECESSED TROFFER LUMINAIRE WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN 0-10V DRIVER	WILLIAMS	50G-S22-L43-940-SAF12125-xxx-xxx OR APPROVED EQUAL	277 V	LED	4000 K	21 W	4300 lm
B2E	GENERAL PURPOSE LED TROFFER 2'X2' WITH 2600 NOMINAL LUMENS #A12 ACRYLIC LENS WITH A BATTERY BACKUP	WILLIAMS	50G-S-22-L43/940-EM/10W OR APPROVED EQUAL	277 V	LED	4000 K	21 W	4300 lm
B3	2x2 F017T8 STEEL DOOR PATTERN-12	WILLIAMS	50G-S22-217-SA12125 OR APPROVED EQUAL	277 V	LED	4000 K	21 W	2800 lm
B3E	GENERAL PURPOSE LED TROFFER 2'X2' WITH 2600 NOMINAL LUMENS #A12 ACRYLIC LENS WITH BATTERY BACKUP	WILLIAMS	50G-S-22-L26/940-EM/10W OR APPROVED EQUAL	277 V	LED	4000 K	21 W	2800 lm
C1	RECESSED 6" ROUND DOWN LIGHT, CANOPY/WET LOCATION	WILLIAMS	6DR-TL-L10-840-DIM-UNV-OW-OF-CS-WET-CC	277 V	LED	4000 K	9 W	1000 lm
C1E	RECESSED 6" ROUND DOWN LIGHT, CANOPY/WET LOCATION, BATTERY BACKUP	WILLIAMS	6DR-TL-L10-840-DIM-UNV-OW-OF-CS-WET-CC	277 V	LED	4000 K	9 W	1000 lm
D1	RECESSED 6" ROUND DOWN LIGHT	WILLIAMS	6DR-TL-L10-840-DIM-UNV-OW-OF-CS	277 V	LED	4000 K	9 W	1000 lm
D1E	RECESSED 6" ROUND DOWN LIGHT, BATTERY BACKUP	WILLIAMS	6DR-TL-L10-840-DIM-UNV-OW-OF-CS	277 V	LED	4000 K	9 W	1000 lm
G1	4' ENCOLSED & GASKETED LED LUMINAIRE WITH SHALLOW ACRYLIC LINEAL RIBBED FROSTED LENS	WILLIAMS	96-4-L62/940-DCL OR APPROVED EQUAL	277 V	LED	4000 K	69 W	6200 lm
G1E	4' ENCLOSED & GASKETED LED LUMINAIRE WITH SHALLOW ACRYLIC LINEAL RIBBED FROSTED LENS WITH BATTERY BACKUP	WILLIAMS	96-4-L62/940-DCL-EM/10W OR APPROVED EQUAL	277 V	LED	4000 K	69 W	6200 lm
G2	4' ENCOLSED & GASKETED LED LUMINAIRE WITH SHALLOW ACRYLIC LINEAL RIBBED FROSTED LENS	WILLIAMS	96-4-L40-940-DCL OR APPROVED EQUAL	277 V	LED	4000 K	38 W	4000 lm
G2E	4' ENCOLSED & GASKETED LED LUMINAIRE WITH SHALLOW ACRYLIC LINEAL RIBBED FROSTED LENS WITH BATTERY BACKUP	WILLIAMS	96-4-L40/940-DCL OR APPROVED EQUAL	277 V	LED	4000 K	38 W	4000 lm
K	VSX-1 LED WITH 1 LIGHT ENGINE 32 LEDS 530mA DRIVER 4000K LED TYPE 4	VISIONAIRE	VSX-1-T4-32LC-5-4K-UNV-AM OR APPROVED EQUAL	277 V	LED	4000 K	52 W	6228 lm
S1	WITH WHITE INTERIOR AND WHITE LENS OVER PERFORATIONS	WILLIAMS INDOOR.	AI3P33F-4-332 OR APPROVED EQUAL	277 V	LED	4000 K	20 W	3000 lm
S2	LINEAR SURFACE MOUNT	FINELITE, INC.	HP-4-WM-WL-D-4ft-B-840-F OR APPROVED EQUAL	277 V	LED	4000 K	39 W	3500 lm
V1	2X2 RECESSED MOUNTED, DETENTION GRADE, TAMPER PROOF	CERTOLUX	VRUI-2X2-LED840K035LUNV-P82P08 OR APPROVED EQUAL	277 V	LED	4000 K	24 W	5500 lm
V1E	2X2 RECESSED MOUNTED, DETENTION GRADE, TAMPER PROOF, BATTERY BACKUP	CERTOLUX	VRU12X2A/PLED840K055LUNV-P48/P08-B39 OR APPROVED EQUAL	277 V	LED	4000 K	24 W	5500 lm
V2	RECESSED VANDAL RESISTANT DOWNLIGHT	KIRLIN	LRV-07469-1500L-WFL OR APPROVED EQUAL	277 V	LED	4100 K	20 W	1500 lm
V2E	RECESSED VANDAL RESISTANT DOWNLIGHT, BATTERY BACKUP	KIRLIN	LRV-07469-1500L-ERH OR APPROVED EQUAL	277 V	LED	4100 K	20 W	1500 lm
X1	LED EXIT LIGHTING, BATTERY BACKUP	BEGHELLI	ATX-HT-LR-1 OR APPROVED EQUAL	277 V	LED	0 K	2 W	
X2	LED EXIT LIGHTING, BATTERY BACKUP	BEGHELLI	ATX-HT-LR-2 OR APPROVED EQUAL	277 V	LED	0 K	2 W	
P1	PARKING LOT LIGHTING	SIGNIFY	ECF-L-80L-900MA-NW-G2-AR-4-UNV	277V	LED	3000 K	225 W	27138 lm

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LUMINAIRE SCHEDULE

SHEET NUMBER

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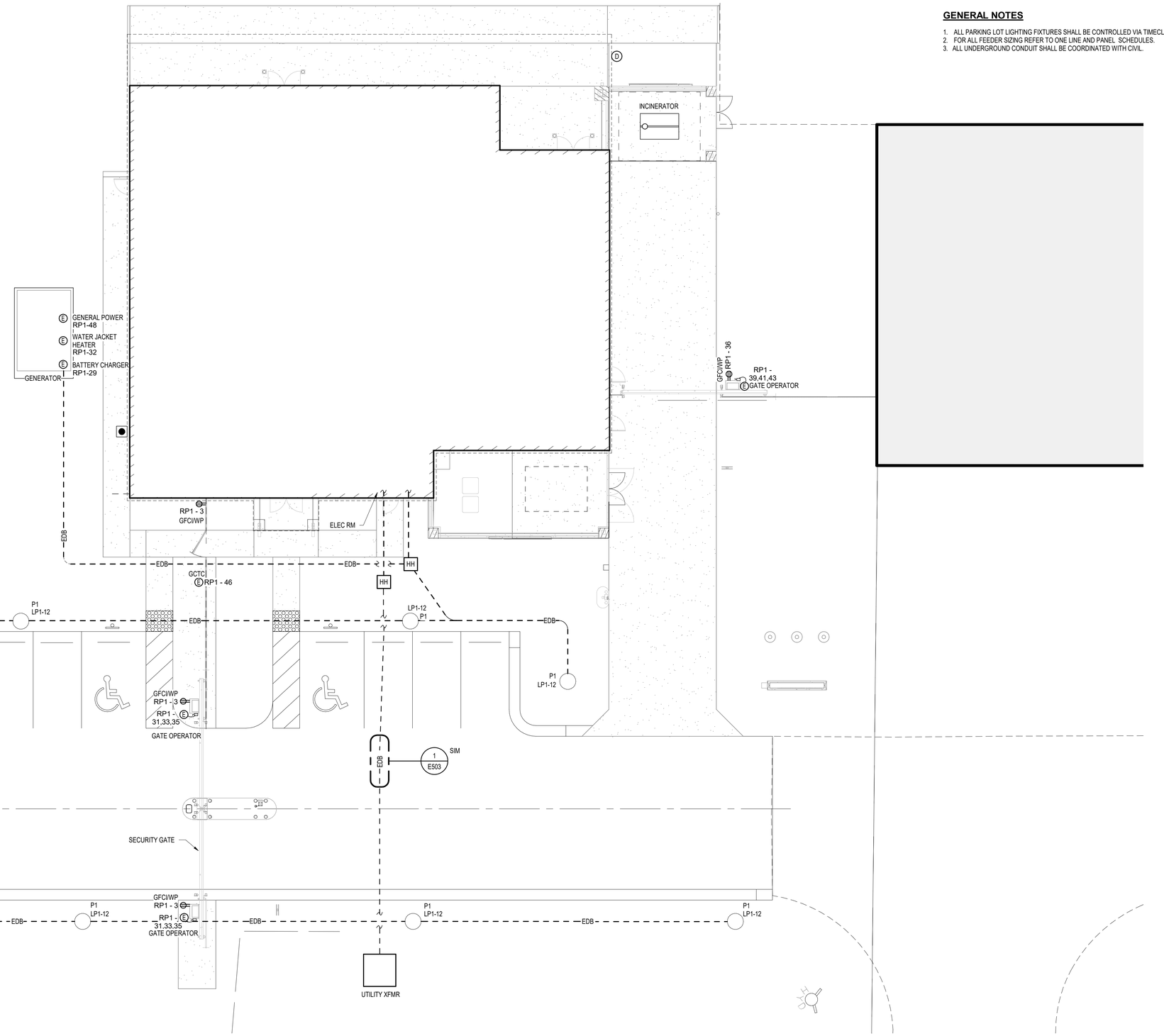
GENERAL NOTES

1. ALL PARKING LOT LIGHTING FIXTURES SHALL BE CONTROLLED VIA TIMECLOCK / PHOTOCELL.
2. FOR ALL FEEDER SIZING REFER TO ONE LINE AND PANEL SCHEDULES.
3. ALL UNDERGROUND CONDUIT SHALL BE COORDINATED WITH CIVIL.



1 ES101 SITE PLAN - ELECTRICAL
SCALE: 1" = 10'-0"

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SITE PLAN - ELECTRICAL

SHEET NUMBER

ES101

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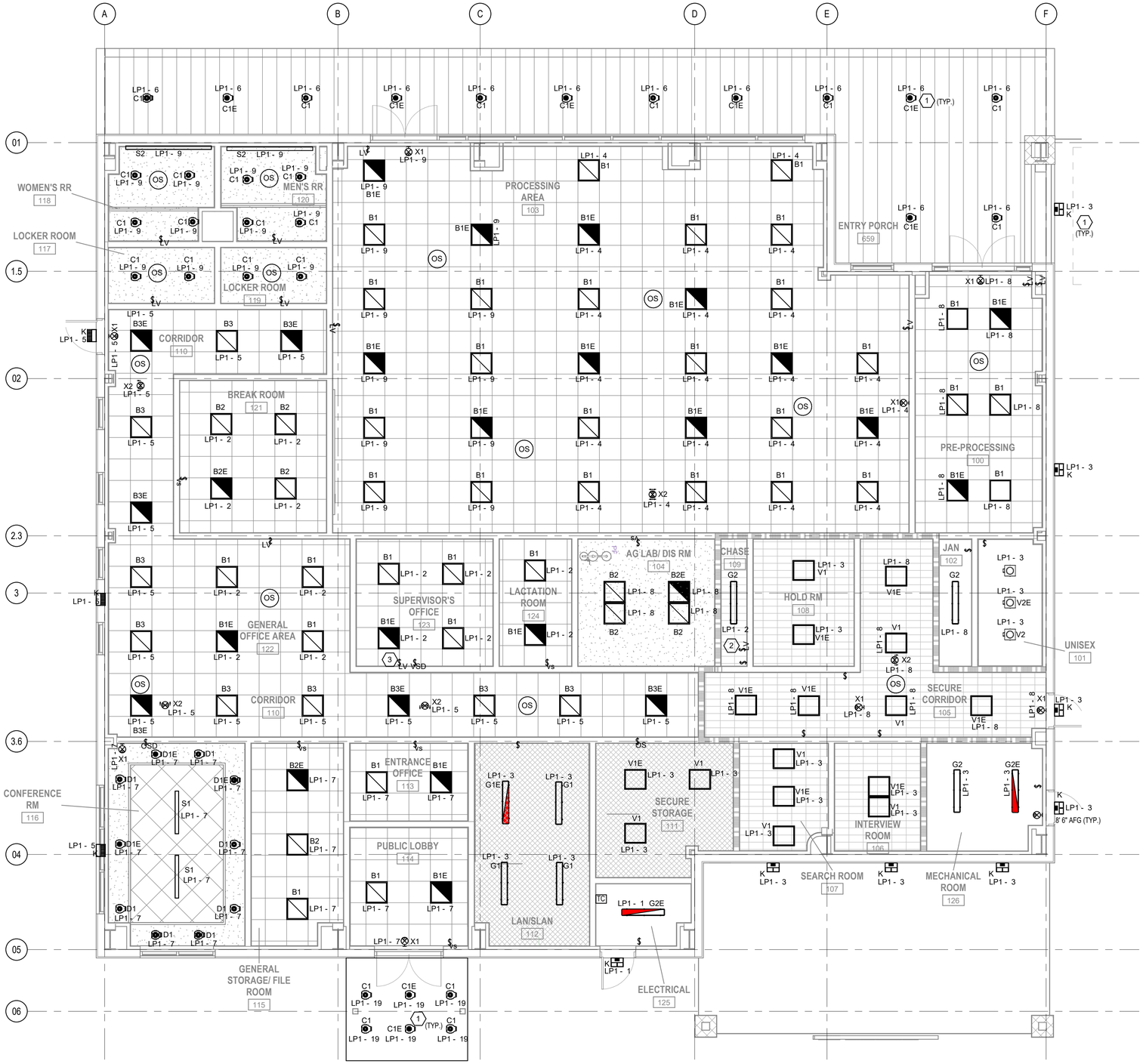

KEY NOTES

1. LIGHTING FIXTURES SHALL BE CONTROLLED VIA TIMECLOCK / PHOTOCELL.
2. LIGHT SWITCH CONTROLS SECURE CORRIDOR 105.
3. LIGHT SWITCH CONTROLS CORRIDOR 110.

1 EL101

FIRST FLOOR - LIGHTING PLAN

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

PN TN

4 0 4 8 12

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

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FIRST FLOOR - LIGHTING PLAN

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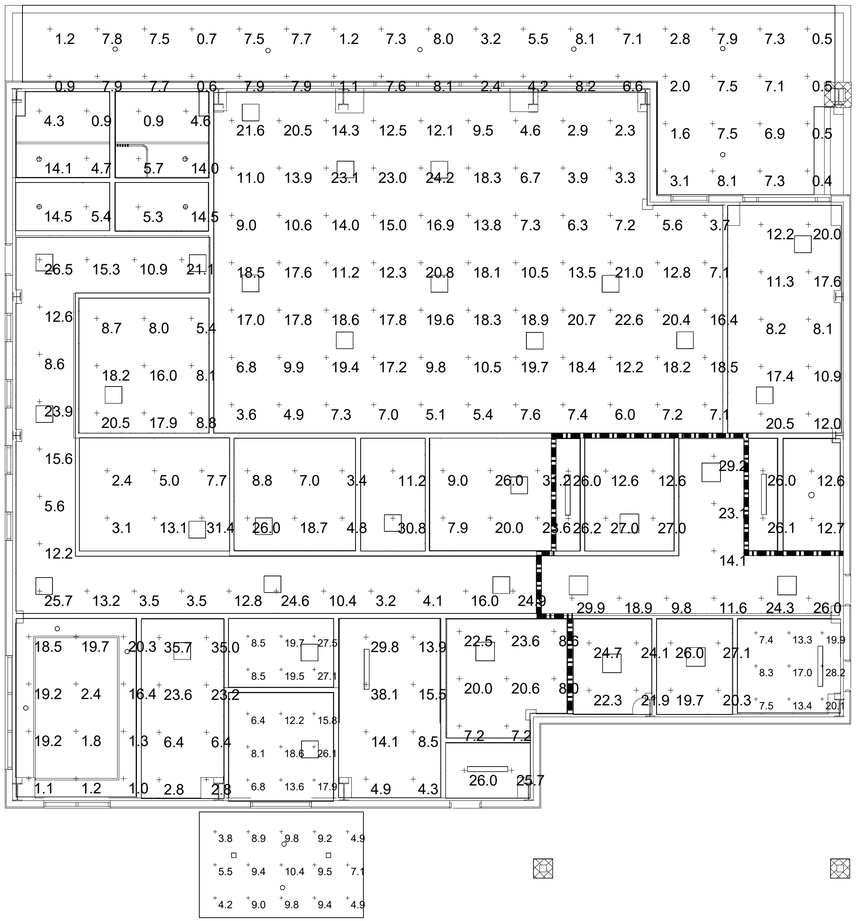
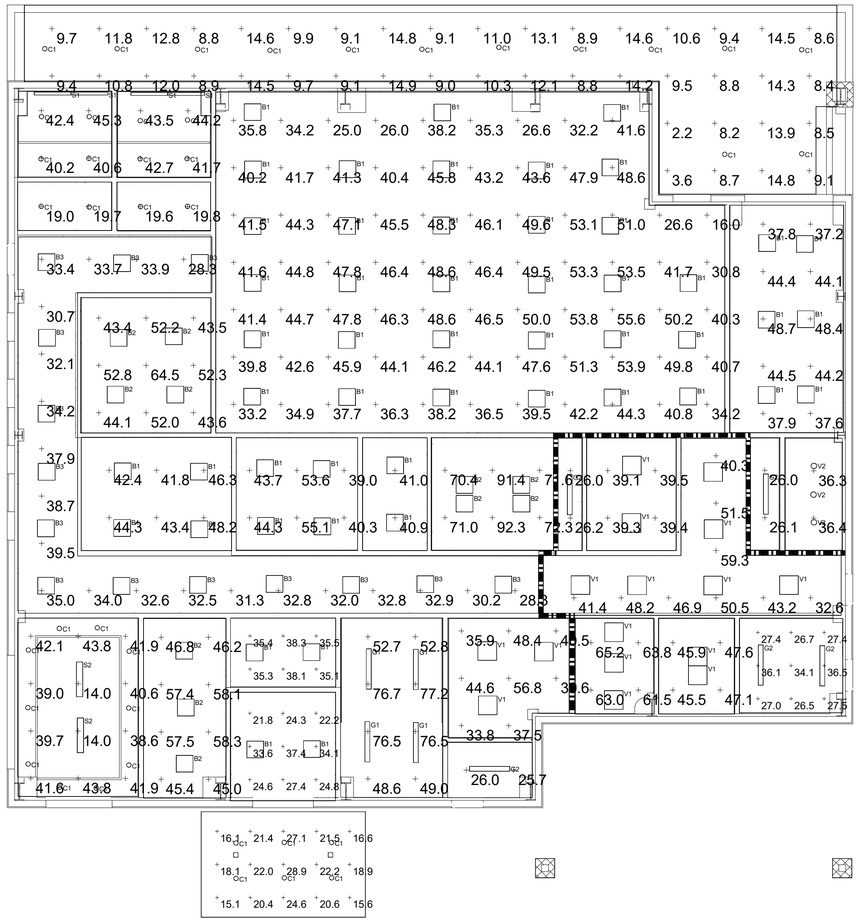


1 EL102 EMERGENCY STATISTICS DRAWING
SCALE: 1 1/2" = 1'-0"



2 EL102 STATISTICS DRAWING
SCALE: 1 1/2" = 1'-0"

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TN

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LIGHTING CALCULATIONS

SHEET NUMBER

EL102

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EMERGENCY LIGHTING STATISTICS

DESCRIPTION	AVG	LEVEL
000 CANOPY	7.7 fc	FLOOR LEVEL
100 PRE-PROCESSING	13.8 fc	WORK SURFACE
101 UNISEX	12.7 fc	TASK HEIGHT
102 JANITOR	26.1 fc	TASK HEIGHT
103 PROCESSING AREA	12.8 fc	TASK HEIGHT
104 AG LAB / DIS. ROOM	19.6 fc	WORK SURFACE
105 CORRIDOR	20.8 fc	TASK HEIGHT
106 MECHANICAL ROOM	15.0 fc	TASK HEIGHT
107 INTERVIEW ROOM	23.3 fc	36" AFF
108 HOLD ROOM	19.8 fc	36" AFF
109/110 CORRIDOR	14.0 fc	TASK HEIGHT
111 SECURE STORAGE	14.7 fc	COUNTER LEVEL
112 ENTRANCE OFFICE	18.5 fc	TASK HEIGHT
113 PUBLIC LOBBY	13.9 fc	TASK HEIGHT
114 GEN. STORAGE / FILE RM	17.0 fc	TASK HEIGHT
115 CONF. ROOM	10.2 fc	WORK SURFACE
116 WOMEN'S LOCKEROOM	10.0 fc	TASK HEIGHT
117 WOMEN'S RESTROOM	6.0 fc	TASK HEIGHT
118 MEN'S LOCKEROOM	9.9 fc	TASK HEIGHT
119 MEN'S RESTROOM	6.3 fc	TASK HEIGHT
120 BREAK ROOM	12.4 fc	FLOOR LEVEL
121 GENERAL OFFICE AREA	10.4 fc	WORK SURFACE
122 SUPERVISOR OFFICE	11.5 fc	WORK SURFACE
123 LACTATION ROOM	21.0 fc	TASK HEIGHT
124 CHASE	26.1 fc	TASK HEIGHT
125 LAN / SLAN	16.1 fc	FLOOR LEVEL
126 ELECTRICAL ROOM	25.9 fc	TASK HEIGHT
127 SEARCH ROOM	23.3 fc	36" AFF
659 ENTRY PORCH	5.1 fc	FLOOR LEVEL

NOTE:

NORMAL LIGHTING STATISTICS

DESCRIPTION	AVG	REQUIRED	LEVEL
000 CANOPY	20.6 fc	20 fc	FLOOR LEVEL
100 PRE-PROCESSING	42.5 fc	45 fc*	WORK SURFACE
101 UNISEX	36.4 fc	30 fc	TASK HEIGHT
102 JANITOR	26.1 fc	30 fc	TASK HEIGHT
103 PROCESSING AREA	42.6 fc	50 fc	TASK HEIGHT
104 AG LAB / DIS. ROOM	78.2 fc	70 fc*	WORK SURFACE
105 CORRIDOR	46.0 fc	20 fc	TASK HEIGHT
106 MECHANICAL ROOM	29.9 fc	25 fc	TASK HEIGHT
107 INTERVIEW ROOM	46.5 fc	30 fc*	36" AFF
108 HOLD ROOM	39.3 fc	30 fc*	36" AFF
109/110 CORRIDOR	33.2 fc	20 fc	TASK HEIGHT
111 SECURE STORAGE	42.1 fc	40 fc*	COUNTER LEVEL
112 ENTRANCE OFFICE	36.3 fc	35 fc	TASK HEIGHT
113 PUBLIC LOBBY	27.8 fc	20 fc	TASK HEIGHT
114 GEN. STORAGE / FILE RM	51.8 fc	35 fc	TASK HEIGHT
115 CONF. ROOM	36.7 fc	30 fc*	WORK SURFACE
116 WOMEN'S LOCKEROOM	19.4 fc	20 fc	TASK HEIGHT
117 WOMEN'S RESTROOM	42.1 fc	20 fc	TASK HEIGHT
118 MEN'S LOCKEROOM	19.7 fc	20 fc	TASK HEIGHT
119 MEN'S RESTROOM	43.0 fc	20 fc	TASK HEIGHT
120 BREAK ROOM	49.8 fc	30 fc*	FLOOR LEVEL
121 GENERAL OFFICE AREA	44.4 fc	40 fc*	WORK SURFACE
122 SUPERVISOR OFFICE	46.0 fc	40 fc*	WORK SURFACE
123 LACTATION ROOM	41.0 fc	30 fc	TASK HEIGHT
124 CHASE	26.1 fc	15 fc	TASK HEIGHT
125 LAN / SLAN	63.7 fc	30 fc*	FLOOR LEVEL
126 ELECTRICAL ROOM	25.9 fc	25 fc	TASK HEIGHT
127 SEARCH ROOM	63.4 fc	50 fc*	36" AFF
659 ENTRY PORCH	10.6 fc	20 fc	FLOOR LEVEL

NOTE:
* REQUIRED FOOTCANDLES BY U.S. CUSTOMS AND BORDER PROTECTION.

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201-0052-002

SHEET TITLE

LIGHTING STATISTICS

SHEET NUMBER

EL103

BID DOCUMENTS

3/2/2020 5:59:10 PM BIM 360://PNS GAF/2010052001_PNS_GAF_E_R19.rvt

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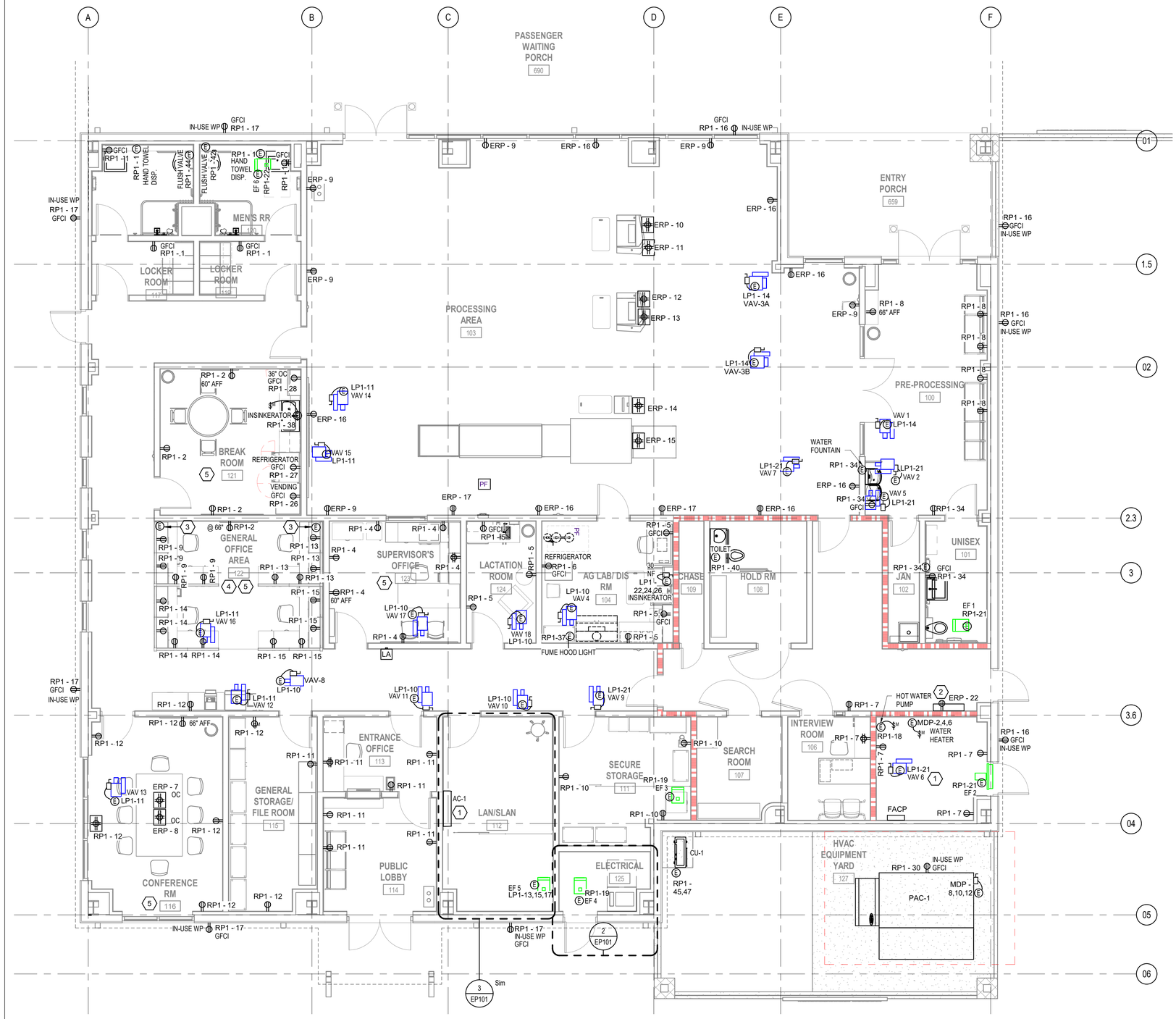
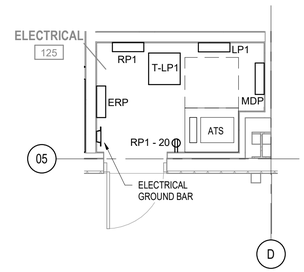


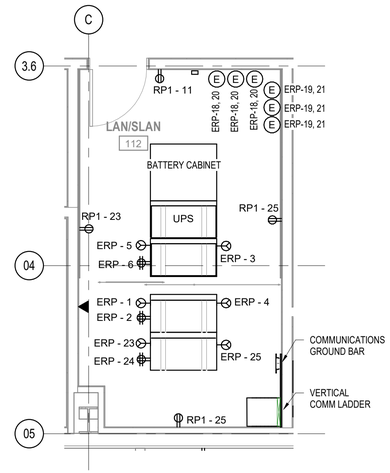
1 EP101 — FIRST FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"

KEY NOTES

1. PROVIDE CONNECTION TO INDOOR UNIT PER MANUFACTURER REQUIREMENTS.
2. PROVIDE RECEPTACLE FOR VIDEO MONITOR INSIDE DETENTION GRADE HOUSING.
3. PROVIDE IN-WALL RACEWAY FOR CONNECTION TO FURNITURE-RECEPTACLES COORDINATE WITH FURNITURE SUPPLIER.
4. 25% OF FURNITURE-SYSTEM-RECEPTACLES SHALL BE AUTOMATICALLY TURNED OFF BY OCCUPANCY SENSOR WITHIN 20 MINUTES OF ALL OCCUPANCTS LEAVING THE SPACE, OR BY TIME SCHEDULE. (ASHRAE 90.1 8.4.2)
5. 50% OF ALL RECEPTACLES SHALL BE AUTOMATICALLY TURNED OFF BY OCCUPANCY/VACANCY SENSOR WITHIN 20 MINUTES OF ALL OCCUPANCTS LEAVING THE SPACE, OR BY TIME SCHEDULE. (ASHRAE 90.1 8.4.2)



2 EP101 — ENLARGED ELECTRIC ROOM
SCALE: 1/4" = 1'-0"



3 EP101 — ENLARGED LAN / SLAN ROOM
SCALE: 1/4" = 1'-0"

PN TN

4 0 4 8 12
SCALE: 3/16" = 1'-0"

4 0 4 8
SCALE: 1/4" = 1'-0"

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SHEET TITLE

FIRST FLOOR PLAN - POWER

SHEET NUMBER

EP101

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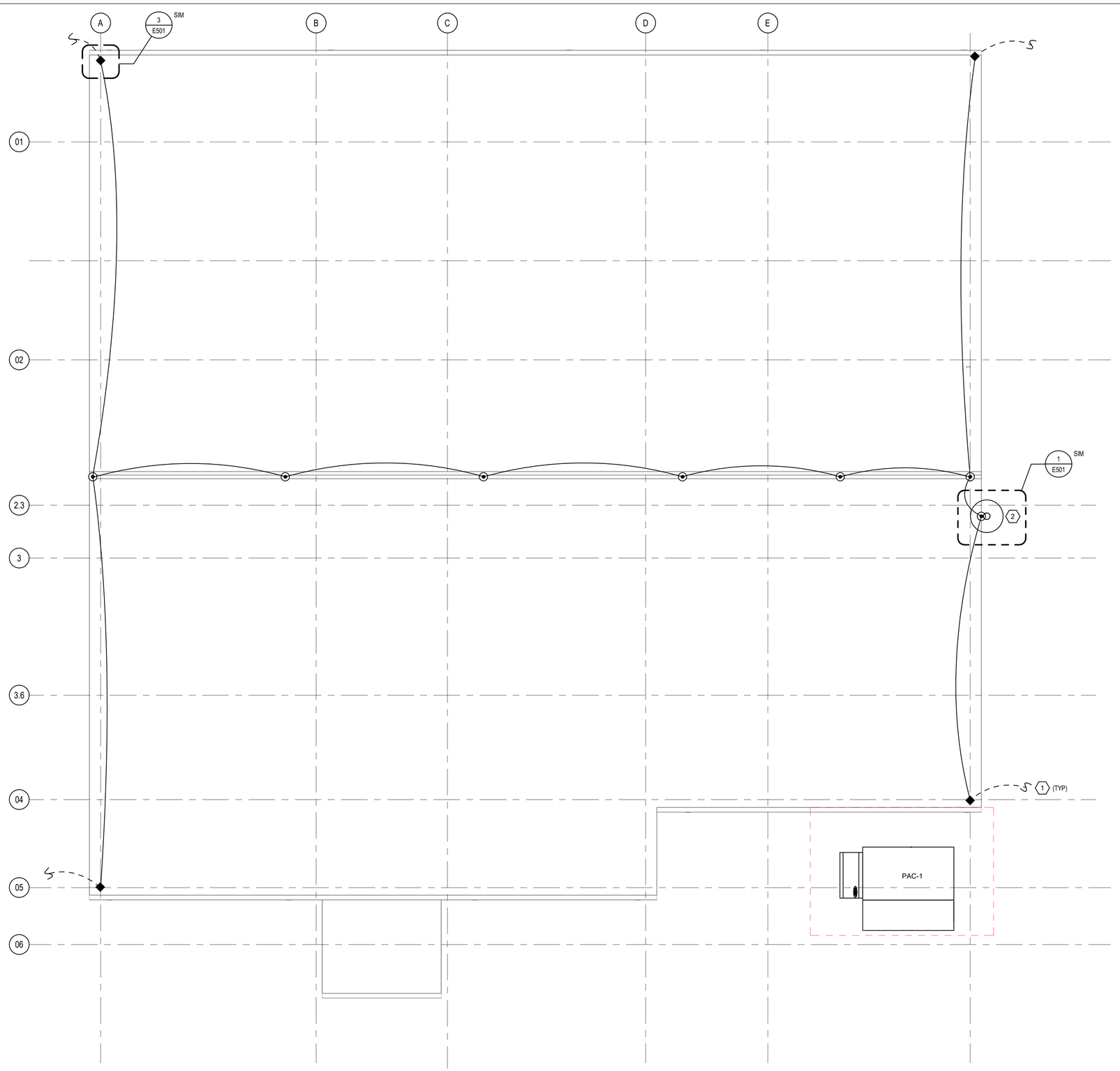

1 ELP101 ROOF PARTIAL POWER PLAN - AREA "A"

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

GENERAL NOTES

1. METALLIC BODIES OF INDUCTANCE AND CONDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, ROOF HATCHES, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED 6'-0" FROM A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
2. LIGHTNING PROTECTION SYSTEM SHALL FOLLOW THE FOLLOWING STANDARDS:
   A. UL96A
   B. LPI OF STANDARDS 175
   C. NFPA 780 CURRENT EDITION
3. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY AT 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
4. BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD. GROUND ROD OR GROUND LOOP.
5. REFER TO SHEET E07.03 GROUNDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.

KEY NOTES

1 SEE SHEET ELP102 FOR CONTINUATION OF LIGHTNING PROTECTION SYSTEM.

2. CBP ANTENAE LOCATION, TIE INTO LIGHTNING PROTECTION SYSTEM. SEE SHEET T403 FOR DETAILS.

PN
TN

8 0 8 16

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

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SHEET TITLE

LIGHTNING PROTECTION

SHEET NUMBER

ELP101

BID DOCUMENTS

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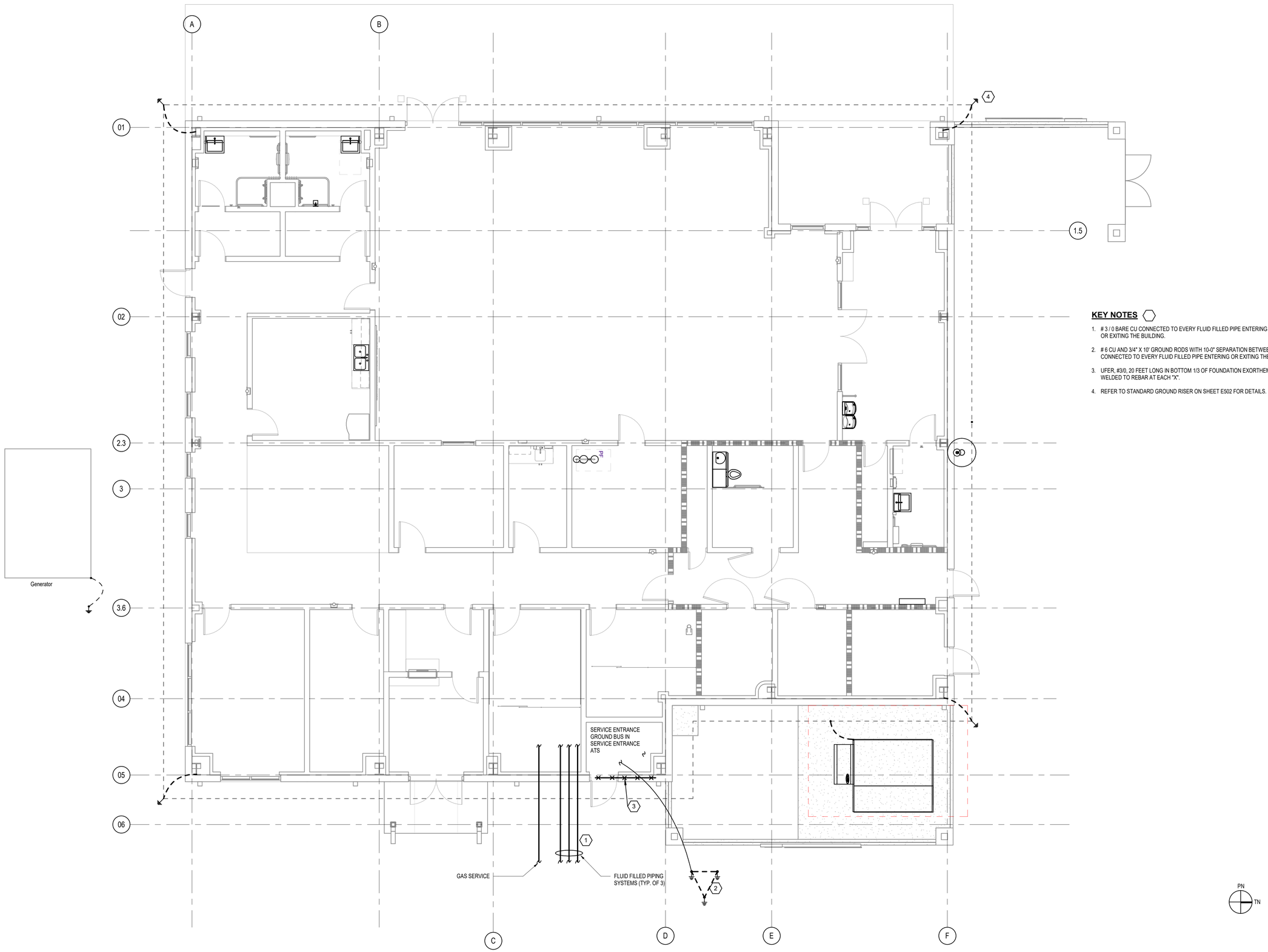

KEY NOTES

1. # 3 / 0 BARE CU CONNECTED TO EVERY FLUID FILLED PIPE ENTERING OR EXITING THE BUILDING.
2. # 6 CU AND 3/4" X 10' GROUND RODS WITH 10-0" SEPARATION BETWEEN EACH CONNECTED TO EVERY FLUID FILLED PIPE ENTERING OR EXITING THE BUILDING.
3. UFER, #3/0, 20 FEET LONG IN BOTTOM 1/3 OF FOUNDATION EXORTHEMRICALLY WELDED TO REBAR AT EACH "X".
4. REFER TO STANDARD GROUND RISER ON SHEET E502 FOR DETAILS.

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SHEET TITLE

GROUNDING PLAN

SHEET NUMBER

ELP102

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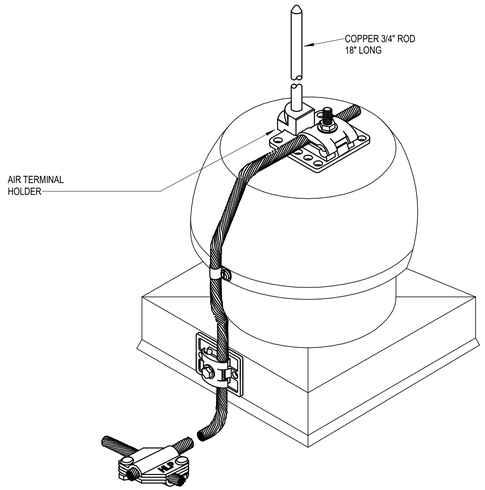
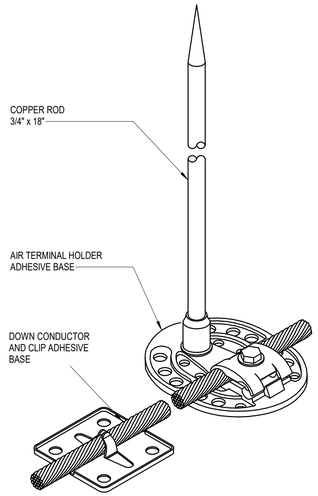
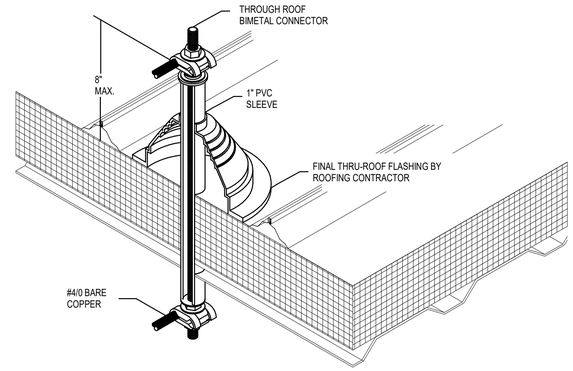


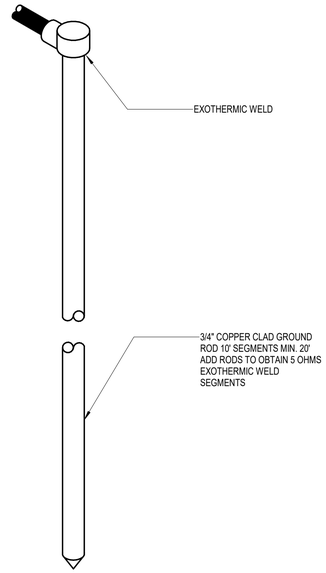
1 E501 **AIR TERMINAL EQUIPMENT MOUNT DETAIL**
SCALE: 1" = 1'-0"



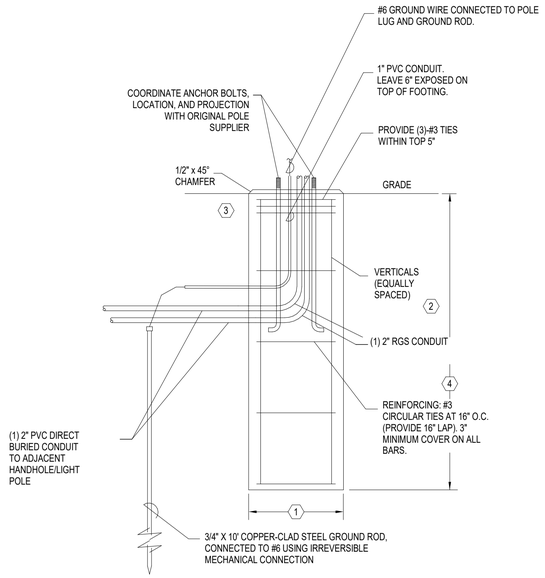
2 E501 **ADHESIVE BASE MOUNT DETAIL**
SCALE: 1" = 1'-0"



3 E501 **DOWN THROUGH THE ROOF DETAIL**
SCALE: 1" = 1'-0"



4 E501 **GROUND ROD DETAIL**
SCALE: 3" = 1'-0"

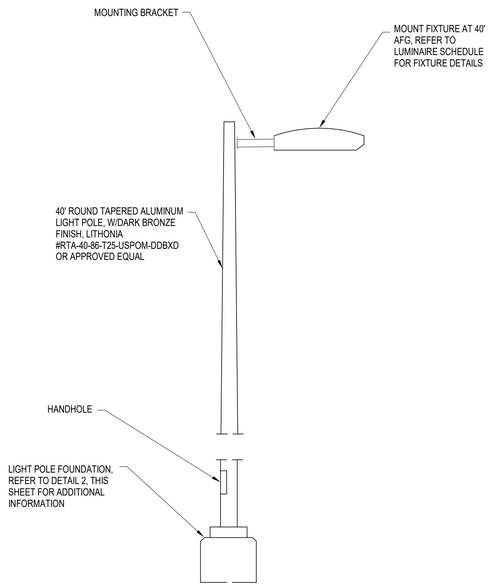


KEY NOTES	1	2	3	4
39' POLES	24" DIA	(6)#8'S	TURF	10'-0"

NOTES:

1. ALL CONCRETE SHALL BE 4000 PSI (f'c) AT 28 DAYS WITH A SLUMP OF 4"±1"
2. ALL REINFORCING SHALL BE ASTM A615 GR. 60
3. CONSTRUCTION OF LIGHT POLE FOUNDATION MAY REQUIRE DEWATERING. ANY DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE LIGHT POLE FOUNDATION CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DEWATERING.

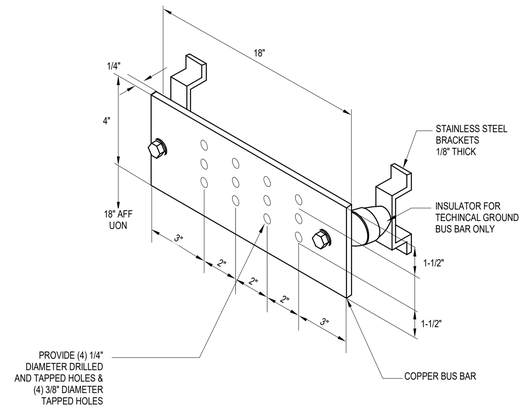
5 E501 **LIGHT POLE FOUNDATION DETAIL**
SCALE: 12" = 1'-0"



6 E501 **LIGHT POLE DETAIL**
SCALE: 12" = 1'-0"

NOTES:

1. GULF POWER INC. SHALL MAKE ALL CONNECTIONS AT PADMOUNT AND METER SOCKET
2. METER SOCKET/CABINET AND PEDESTAL FURNISHED BY GPS AND INSTALLED BY THE CONTRACTOR
3. C.T.'S ON SECONDARY SPADES METER CONTROL CABLE FURNISHED AND INSTALLED BY GPS.
4. SEE SINGLE LINE DIAGRAM FOR FEEDER QUANTITIES AND AMPACITIES
5. REFER TO CIVIL DRAWING C17.02.01 FOR TRANSFORMER PAD DETAILS
6. INSTALLATION SHALL COMPLY WITH GPS REQUIREMENTS
7. FOR CONDUIT INSTALLED IN GREENFIELD/TURF AREAS. CONDUITS SHALL NOT REQUIRE CONCRETE ENCASEMENT, BUT SHALL MAINTAIN SPACING AS SHOWN ON DETAIL 3, SHEET E05.02.
8. COORDINATE TRANSFORMER INSTALLATION WITH GULF POWER INC.



7 E501 **GROUND BAR DETAIL**
SCALE: 12" = 1'-0"

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ELECTRICAL DETAILS

SHEET NUMBER

E501

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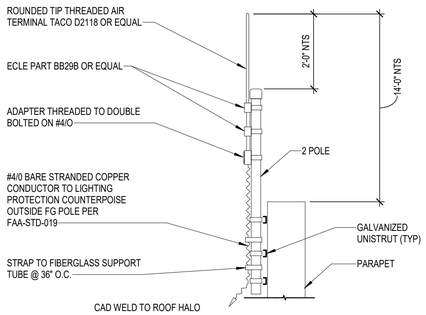
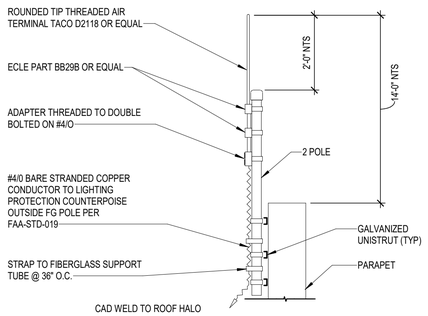


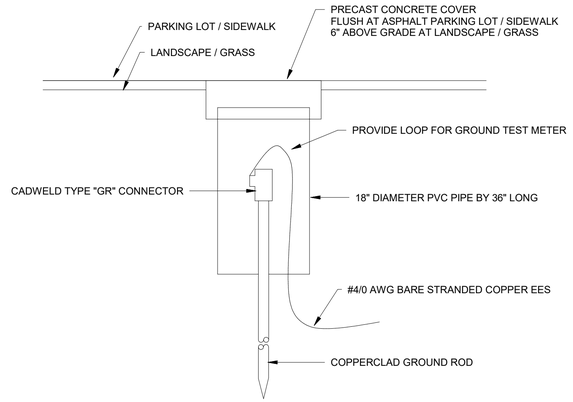
1 E502 AIR TERMINAL DETAIL

SCALE: 6" = 1'-0"



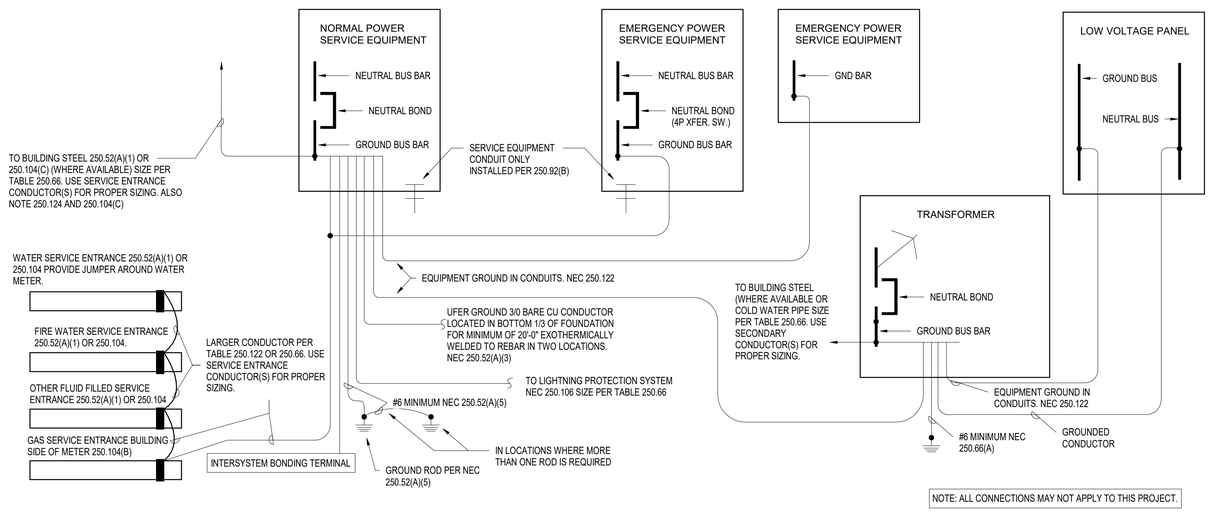
2 E502 AIR TERMINAL PARAPET MOUNT DETAIL

SCALE: 6" = 1'-0"



3 E502 GROUND TEST WELL DETAIL

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



4 E502 GROUNDING RISER DETAIL

SCALE: 12" = 1'-0"

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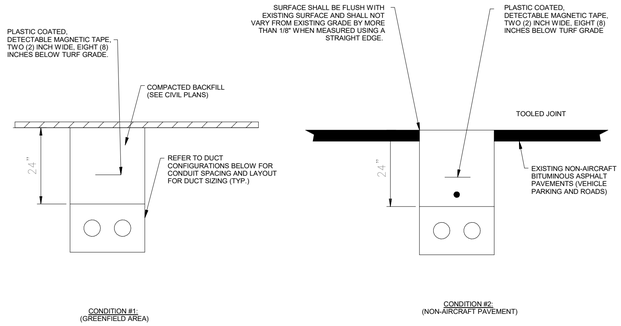
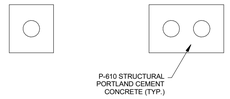
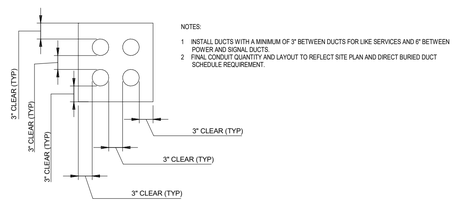


CONDITION #1:
(GREENFIELD AREA)

CONDITION #2:
(NON-AIRCRAFT PAVEMENT)





CONDUIT SPACING AND ARRANGEMENT REQUIREMENTS (TYP)

NOTES:
1 INSTALL DUCTS WITH A MINIMUM OF 3" BETWEEN DUCTS FOR LIKE SERVICES AND 6" BETWEEN POWER AND SIGNAL DUCTS.
2 FINAL CONDUIT QUANTITY AND LAYOUT TO REFLECT SITE PLAN AND DIRECT BURIED DUCT SCHEDULE REQUIREMENT.

NOTES:
REFER TO CIVIL DRAWINGS FOR COODINATION.

1
E503

TRENCH AND CONDUIT

SCALE: 1" = 1'-0"

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ELECTRICAL DETAILS

SHEET NUMBER

E503

BID DOCUMENTS

Sheet Size: ARCH E 22X34

PANEL: LP1

Location: ELEC ROOM 126 | **Supply From:** MDP | **Mounting:** Surface
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MLO | **Mains Rating:** 250 A

CKT	Poles	Trip	Circuit Description	A		B		C		Circuit Description	Trip	Poles	CKT
1	1	20 A	(L) RM'S 126 - 127	0.1 kVA	0.5 kVA					(L) RM'S 120 - 124	20 A	1	2
3	1	20 A	(L) RM'S 106-108, 111, 125			0.4 kVA	0.6 kVA			(L) RM 103	20 A	1	4
5	1	20 A	(L) RM 109					0.5 kVA	0.6 kVA	(L) RM 659	20 A	1	6
7	1	20 A	(L) RM'S 110 - 115	0.8 kVA	0.4 kVA					(L) RM'S 100 - 105	20 A	1	8
9	1	20 A	(L) RM'S 103, 116 - 119			0.9 kVA	3.5 kVA			(E) VAV 4, 8, 10, 11, 17, 18	20 A	1	10
11	1	20 A	(E) VAV 12 - 16					4 kVA	0.2 kVA	(L) PARKING LOT LIGHTING	20 A	1	12
13				0.3 kVA	8 kVA					(E) VAV 1, 3	20 A	1	14
15	3	20 A	(E) EF 5			0.3 kVA	18.5 kVA						16
17								0.3 kVA	18.5 kVA	T-LP1 (NOTE 2)	100 A	3	18
19	1	20 A	(L) CANOPY ENTRANCE	0.3 kVA	17.9 kVA								20
21	1	20 A	(E) VAV 2, 5 - 7, 9			2.5 kVA	1.4 kVA						22
23									1.4 kVA	(E) INSINKERATOR - RM 104	20 A	3	24
25					1.4 kVA								26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	29.6 kVA		28.1 kVA		25.5 kVA					
			Total Amps:	108 A		103 A		92 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand...
Equipment	61140 VA	100.00%	61140 VA
Lighting	4768 VA	125.00%	5960 VA
Other	244 VA	100.00%	244 VA
Receptacle	17100 VA	79.24%	13550 VA

Panel Totals	
Total Conn. Load:	83.3 kVA
Total Conn. Current:	100 A
Total Est. Demand Load:	80.9 kVA
Total Est. Demand Current:	97 A

Notes:
1. ALL BRANCH CIRCUIT SIZES SHALL BE 2#12, 1#12 GND - 3/4"C UNO.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER SIZE.

PANEL: MDP

Location: ELEC ROOM 126 | **Supply From:** | **Mounting:** Surface
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 65000 | **Mains Type:** MCB | **Mains Rating:** 400 A

CKT	Poles	Trip	Circuit Description	A		B		C		Circuit Description	Trip	Poles	CKT
1				29.6 kVA	5 kVA								2
3	3	250 A	LP1 (NOTE 1)			28.1 kVA	5 kVA			(E) WATER HEATER (NOTE 2)	25 A	3	4
5								25.5 kVA	5 kVA				6
7				6.5 kVA	16.7 kVA								8
9	3	60 A	UPS (NOTE 1)			6.4 kVA	16.7 kVA			(E) PAC - 1 (NOTE 3)	80 A	3	10
11								6.6 kVA	16.7 kVA				12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	57.8 kVA		56.2 kVA		53.8 kVA					
			Total Amps:	210 A		204 A		194 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand...
Equipment	126500 VA	100.00%	126500 VA
Lighting	4768 VA	125.00%	5960 VA
Other	244 VA	100.00%	244 VA
Receptacle	33300 VA	65.02%	21650 VA

Panel Totals	
Total Conn. Load:	164.8 kVA
Total Conn. Current:	198 A
Total Est. Demand Load:	154.4 kVA
Total Est. Demand Current:	186 A

Notes:
1. REFER TO THE SINGLE LINE DIAGRAM FOR FEEDER SIZE.
2. BRANCH CIRCUIT SIZE SHALL BE 3#8, 1#12 GND - 3/4"C.
3. BRANCH CIRCUIT SIZE SHALL BE 3#4, 1#8 GND - 1"C

PANEL: RP1

Location: ELECTRICAL 125 | **Supply From:** T-LP1 | **Mounting:** Surface
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MCB | **Mains Rating:** 225 A

CKT	Poles	Trip	Circuit Description	A		B		C		Circuit Description	Trip	Poles	CKT
1	1	20 A	(R) LOCKEROOM / RR - RM 117-120	1.72 kVA	0.72...					(R) BREAKROOM - RM 121	20 A	1	2
3	1	20 A	(R) EXTERIOR GATE			0.54 kVA	1.26 kVA			(R) SUPERVISOR OFFICE - RM 123	20 A	1	4
5	1	20 A	(R) ROOMS 104, 124					1.08...	0.18 kVA	(R) FRIDGE - AG LAB/ DIS RM 104	20 A	1	6
7	1	20 A	(R) ROOMS - 106, 107	1.08 kVA	0.90...					(R) ROOMS - 100, 101	20 A	1	8
9	1	30 A	(R) GENERAL OFFICE AREA 122			0.72 kVA	0.54 kVA			(R) SECURE STORAGE - RM 111	20 A	1	10
11	1	20 A	(R) ROOMS - 113, 114					1.62...	1.62 kVA	(R) ROOMS 115, 116	20 A	1	12
13	1	20 A	(R) GENERAL OFFICE AREA 122	0.72 kVA	0.72...					(R) GENERAL OFFICE AREA 122	20 A	1	14
15	1	20 A	(R) GENERAL OFFICE AREA 122			0.72 kVA	0.72 kVA			(R) EXTERIOR GFCI	20 A	1	16
17	1	20 A	(R) EXTERIOR GFCI					0.90...	0.85 kVA	(E) HOT WATER PUMP	20 A	1	18
19	1	20 A	(E) EF 3,4	1.70 kVA	0.18...					(R) ELECTRIC - RM 125	20 A	1	20
21	1	20 A	(E) EF 1,2			1.70 kVA	0.85 kVA			(E) EF 6	20 A	1	22
23	1	20 A	(R) SLAN - RM 112					0.18...	0.18 kVA	(R) SLAN - RM 112	20 A	1	24
25	1	20 A	(R) SLAN - RM 112	0.36 kVA	0.18...					(R) BREAK RM - VENDING- RM 121	20 A	1	26
27	1	20 A	(R) BREAK RM - FRIDGE- RM 121			0.18 kVA	0.18 kVA			(R) BREAK RM - MICROWAVE - RM 121	20 A	1	28
29	1	20 A	(E) GENERATOR BATTERY CHARGER					1.20...	0.18 kVA	(R) PAC MAINT RECEPTACLE	20 A	1	30
31,33,35				4.20 kVA	1.20...					(E) WATER JACKET HEATER (GENERATOR)	20 A	1	32
	3	20 A	(E) GATE OPERATOR - CBP PARKING			4.20 kVA	1.54 kVA			(R) EWC - RM 100	20 A	1	34
								4.20...	0.18 kVA	(E) GENERATOR BATTERY CHARGER	20 A	1	36
37	1	20 A	(E) FUME HOOD LIGHT - RM 104	0.50 kVA	1.70...					(E) INSINKERATOR - RM 121	20 A	1	38
39,41,43						2.10 kVA	0.50 kVA			(R) TOILET - HOLD RM 108	20 A	1	40
	3	20 A	(E) GATE OPERATOR					2.10...	0.50 kVA	(E) FLUSH VALVE MENS RR RM 120	20 A	1	42
				2.10 kVA	0.50...					(E) FLUSH VALVE WOMENS RR RM 120	20 A	1	44
45,47						2.60 kVA	0.10 kVA			(E) GCTC	20 A	1	46
	2	30 A	(E) CU-1 / AC - 1 (NOTE 2)					2.60...	0.30 kVA	(E) GENERAL POWER FOR GENERATOR	20 A	1	48
49													50
51													52
53													54
55													56
57													58
59													60
			Total Load:	18.5 kVA		18.5 kVA		17.9 kVA					
			Total Amps:	155 A		154 A		149 A					

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand...
Equipment	37700 VA	100.00%	37700 VA
Receptacle	17100 VA	79.24%	13550 VA

Panel Totals	
Total Conn. Load:	54.8 kVA
Total Conn. Current:	152 A
Total Est. Demand Load:	51.3 kVA
Total Est. Demand Current:	142 A

Notes:

1. ALL BRANCH CIRCUIT SHALL BE 2#12 GND - 3/4"C UNO.
2. 2 #10, 1 #10 GND - 3/4"C.

Branch Panel: ERP

Location: ELEC ROOM 126125 | **Supply From:** UPS | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MCB | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	(R) LAN/SLAN 112	20 A	1	1200...	1200...					1	20 A	(R) LAN/SLAN 112	2
3	(R) LAN/SLAN 112	20 A	1			1200...	1200...			1	20 A	(R) LAN/SLAN 112	4
5	(R) LAN/SLAN 112	20 A	1					1200...	1200...	1	20 A	(R) LAN/SLAN 112	6
7	(R) CONF. RM 116	20 A	1	360 VA	360 VA					1	20 A	(R) CONF. RM 116	8
9	(R) PROCESSING AREA - RM 103	20 A	1			1080...	360 VA			1	20 A	(R) PROCESSING AREA - RM 103	10
11	(E) XRAY - RM 103	20 A	1					360 VA	360 VA	1	20 A	(R) PROCESSING AREA - RM 103	12
13	(R) PROCESSING AREA - RM 103	20 A	1	360 VA	360 VA					1	20 A	(R) PROCESSING AREA - RM 103	14
15	(R) PROCESSING AREA - RM 103	20 A	1			360 VA	1260...			1	20 A	(R) PRE PROCESSING AREA - RM 103	16
17	(R) PROCESSING AREA - RM 103	20 A	1					360 VA	750 VA	2	20 A	(E) POWER SUPPLY - RM 112	18
19	(E) POWER SUPPLY - RM 112	20 A	2	750 VA	750 VA								20
21						750 VA	180 VA			1	20 A	(R) VIDEO MONITOR - DETENTION CORRIDOR	22
23	(R) LAN/SLAN 112	20 A	1					1200...	1200...	1	20 A	(R) LAN/SLAN 112	24
25	(R) LAN/SLAN 112	20 A	1	1200...									26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	6540 VA		6390 VA		6630 VA					
			Total Amps:	55 A		53 A		55 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand
Equipment	360 VA	100.00%	360 VA
Receptacle	16200 VA	80.86%	13100 VA

Panel Totals	
Total Conn. Load:	16560 VA
Total Est. Demand:	13460 VA
Total Conn.:	46 A
Total Est. Demand:	37 A

Notes:

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/03/2020
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DRAWN BY: WM/RB
DESIGNED BY: WM/RB
PROJECT NUMBER: 201-0052-002

SHEET TITLE

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER

E601

BID DOCUMENTS

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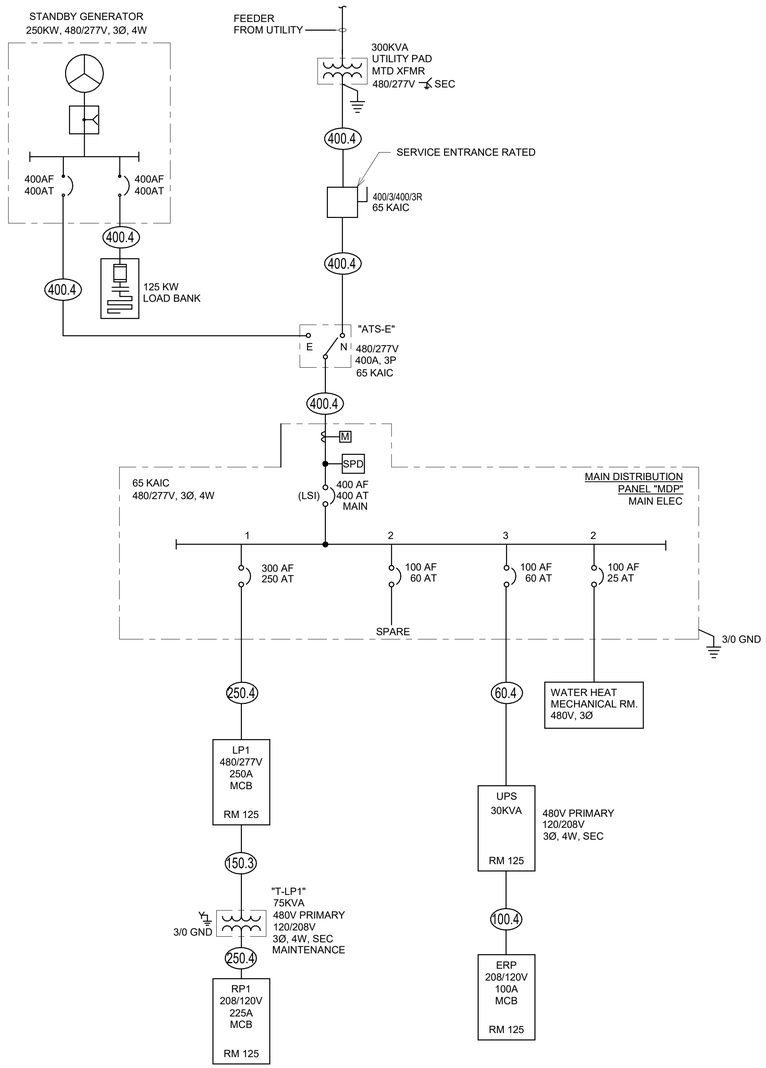

1 E701 PNS GAF - SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

ELECTRICAL CONDUCTOR SCHEDULE

MARK	CAPACITY	SETS	PHASE/WIRE	WIRE	EQUIP GND	CONDUIT
30.3	30 AMP	1	3/3	(3) #10 CU	#10 CU	3/4"
30.4	30 AMP	1	3/4	(4) #10 CU	#10 CU	3/4"
40.3	40 AMP	1	3/3	(3) #6 CU	#10 CU	1"
40.4	40 AMP	1	3/4	(4) #6 CU	#10 CU	1"
50.3	50 AMP	1	3/3	(3) #6 CU	#10 CU	1"
50.4	50 AMP	1	3/4	(4) #6 CU	#10 CU	1"
60.3	60 AMP	1	3/3	(3) #4 CU	#10 CU	1-1/2"
60.4	60 AMP	1	3/4	(4) #4 CU	#10 CU	1-1/2"
70.3	70 AMP	1	3/3	(3) #4 CU	#8 CU	1-1/2"
70.4	70 AMP	1	3/4	(4) #4 CU	#8 CU	1-1/2"
80.3	80 AMP	1	3/3	(3) #2 CU	#8 CU	1-1/2"
80.4	80 AMP	1	3/4	(4) #2 CU	#8 CU	1-1/2"
100.3	100 AMP	1	3/3	(3) #1 CU	#8 CU	2"
100.4	100 AMP	1	3/4	(4) #1 CU	#8 CU	2"
100.S	100 AMP	1	3/4	(4) #1 CU	-	2"
150.3	150 AMP	1	3/3	(3) #2/0 CU	#6 CU	2"
150.4	150 AMP	1	3/4	(4) #2/0 CU	#6 CU	2"
150.S	150 AMP	1	3/4	(4) #2/0 CU	-	2"
225.3	225 AMP	1	3/3	(3) #4/0 CU	#6 CU	3"
225.4	225 AMP	1	3/4	(4) #4/0 CU	#6 CU	3"
225.S	225 AMP	1	3/4	(4) #4/0 CU	-	3"
250.3	250 AMP	1	3/3	(3) #250KCMIL CU	#6 CU	3"
250.4	250 AMP	1	3/4	(4) #250KCMIL CU	#6 CU	3"
250.S	250 AMP	1	3/4	(4) #250KCMIL CU	-	3"
300.3	300 AMP	1	3/3	(3) #350KCMIL CU	#4 CU	3"
300.4	300 AMP	1	3/4	(4) #350KCMIL CU	#4 CU	3"
300.S	300 AMP	1	3/4	(4) #350KCMIL CU	-	3"
400.3	400 AMP	2	3/3	(3) #4/0 CU X 2	#4 CU X 2	3"X 2
400.4	400 AMP	2	3/4	(4) #4/0 CU X 2	#4 CU X 2	3"X 2
400.S	400 AMP	2	3/4	(4) #4/0 CU X 2	-	3"X 2
500.3	500 AMP	2	3/3	(3) #250KCMIL CU X 2	#2 CU X 2	3"X 2
500.4	500 AMP	2	3/4	(4) #250KCMIL CU X 2	#2 CU X 2	3"X 2
500.S	500 AMP	2	3/4	(4) #250KCMIL CU X 2	-	3"X 2
600.3	600 AMP	2	3/3	(3) #350KCMIL CU X 2	#1 CU X 2	3"X 2
600.4	600 AMP	2	3/4	(4) #350KCMIL CU X 2	#1 CU X 2	3"X 2
600.S	600 AMP	2	3/4	(4) #350KCMIL CU X 2	-	3"X 2
800.3	800 AMP	2	3/3	(3) #600KCMIL CU X 2	#1/0 CU X 2	3"X 2
800.4	800 AMP	2	3/4	(4) #600KCMIL CU X 2	#1/0 CU X 2	3"X 2
800.S	800 AMP	2	3/4	(4) #600KCMIL CU X 2	-	3"X 2
1000.3	1000 AMP	3	3/3	(3) #600KCMIL CU x 3	#2/0 CU X 3	4"X 3
1000.4	1000 AMP	3	3/4	(4) #600KCMIL CU x 3	#2/0 CU X 3	4"X 3
1000.S	1000 AMP	3	3/4	(4) #600KCMIL CU x 3	-	4"X 3
1200.3	1200 AMP	3	3/3	(3) #600KCMIL CU x 3	#3/0 CU X 3	4"X 3
1200.4	1200 AMP	3	3/4	(4) #600KCMIL CU x 3	#3/0 CU X 3	4"X 3
1200.S	1200 AMP	3	3/4	(4) #600KCMIL CU x 3	-	4"X 3
1600.3	1600 AMP	4	3/3	(3) #600KCMIL CU x 4	#4/0 CU X 4	4"X 4
1600.4	1600 AMP	4	3/4	(4) #600KCMIL CU x 4	#4/0 CU X 4	4"X 4
1600.S	1600 AMP	4	3/4	(4) #600KCMIL CU x 4	-	4"X 4

NOTE: SCHEDULE IS A MASTER SCHEDULE. NOT ALL CONDUCTOR SIZES ARE USED IN THE SINGLE LINE DIAGRAM.

SERVICE GROUNDING ELECTRODE CONDUCTORS (GEC)

AMPS	GEC SIZE
100	#6 CU
150	#6 CU
200	#2 CU
250	#2 CU
400	#1/0 CU
500	#1/0 CU
600	#3/0 CU
800	#3/0 CU
1000	#3/0 CU
1200	#3/0 CU
1600	#3/0 CU
2000	#3/0 CU
3000	#3/0 CU
4000	#3/0 CU
5000	#3/0 CU

NOTE: SCHEDULE IS A MASTER SCHEDULE. NOT ALL CONDUCTOR SIZES ARE USED IN THE SINGLE LINE DIAGRAM.

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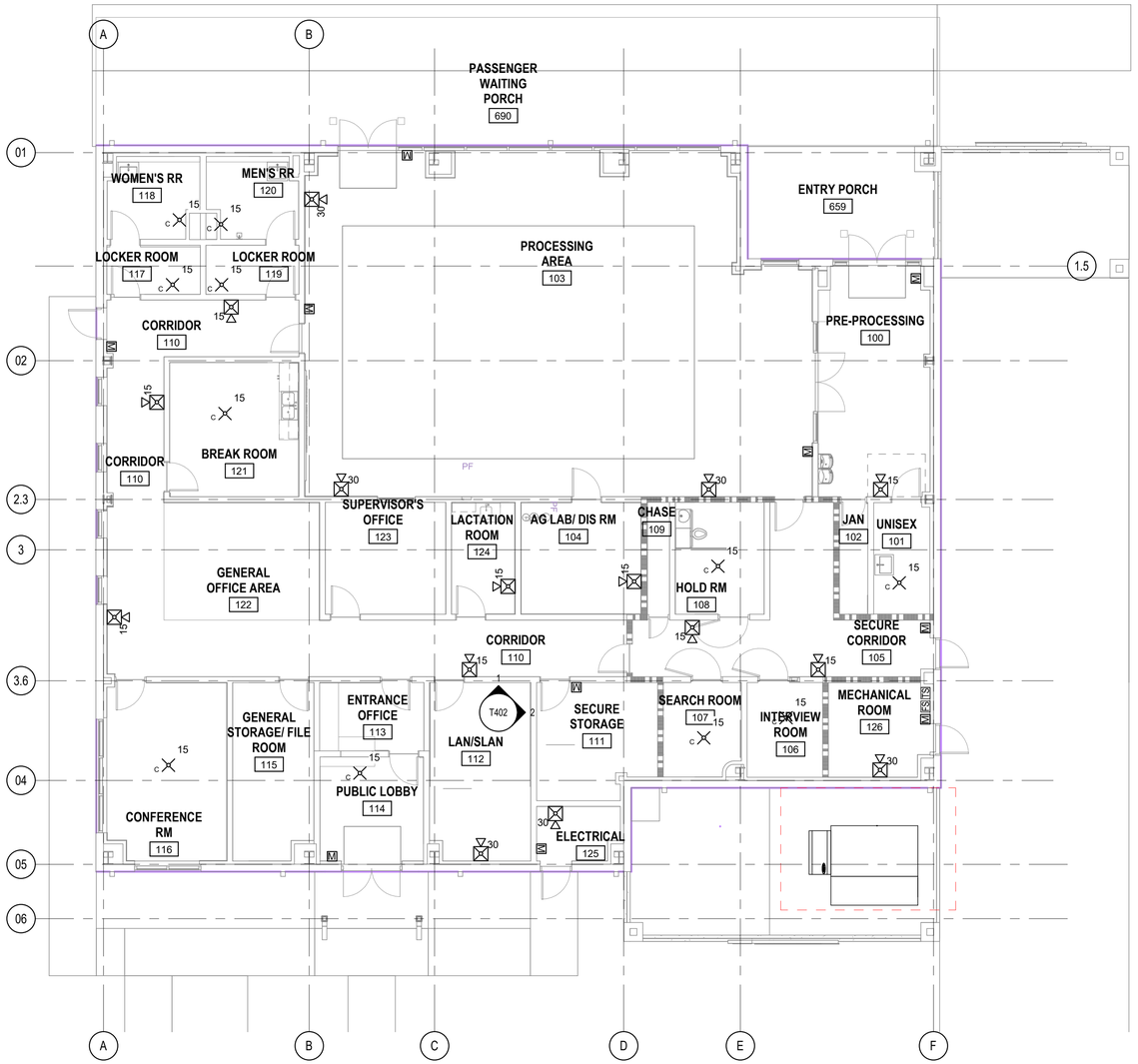
SHEET TITLE

ELECTRICAL ONE LINE DIAGRAM

SHEET NUMBER

E701

BID DOCUMENTS



1 FA101 FIRST FLOOR PLAN - FIRE ALARM

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

PN TN

8 0 8 16

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

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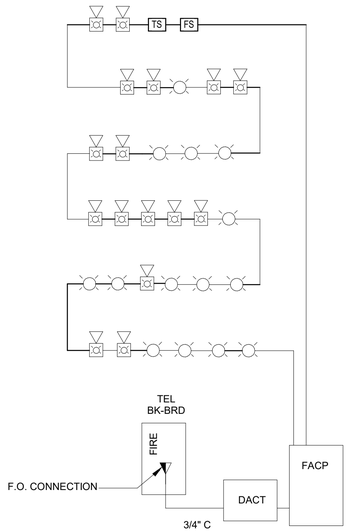
FIRST FLOOR PLAN - FIRE ALARM

SHEET NUMBER

FA101

BID DOCUMENTS



1 FA701 FIRE ALARM ONE LINE DIAGRAM

SCALE: 1" = 1'-0"

SYSTEM INPUTS	ACTUATE FIRE ALARM NOTIFICATION	ACTUATE PANEL ARLAM	ACTUATE SUPERVISORY ALARM	ACTUATE PANEL TROUBLE ALARM	SHUTDOWN AHU	TRANSMIT PANEL SILENT ALARM TO CENTRAL STATION	TRANSMIT SUPERVISORY ALARM TO CENTRAL STATION	TRANSMIT PANEL TROUBLE ALARM TO CENTRAL STATION	TRANSMIT PANEL ALARM TO CENTRAL STATION	TRANSMIT DEVICE STATUS TO CENTRAL STATION
PULL STATIONS	X	X				X				X
AHU DUCT SMOKE DETECTOR			X		X		X			X
TAMPER SWITCH ACTUATED			X				X			X
FLOW SWITCH ACTUATED	X	X							X	X
ANY NOTIFICATION CIRCUIT OR DEVICE MALFUNCTION				X				X		X
ANY INITIATION CIRCUIT OR DEVICE MALFUNCTION				X				X		X

2 FA701 FIRE ALARM OPERATION SEQUENCE

SCALE: 1" = 1'-0"

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SHEET TITLE

FIRE ALARM RISER DIAGRAM

SHEET NUMBER

FA701

BID DOCUMENTS

Sheet Size: ARCH E 22X34

SECURITY SYSTEMS LEGEND

	FIXED CCTV CAMERA. SEE CCTV RISER. SEE SCHEDULE FOR CAMERA TYPE. PROVIDE (1) CAT 6A CONNECTOR AND CABLE.
180°	MULTI-SENSOR 180° PANORAMIC CAMERA. SEE CCTV RISER. SEE SCHEDULE FOR CAMERA TYPE. PROVIDE (1) CAT 6A CONNECTOR AND CABLE.
PTZ	PAN-TILT-ZOOM (PTZ) CAMERA. SEE CCTV RISER. SEE SCHEDULE FOR CAMERA TYPE. PROVIDE (1) CAT 6A CONNECTOR AND CABLE.
AI	AUDIO INTERFACE JUNCTION BOX (AI) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
BMS	BALANCED MAGNETIC SWITCH (BMS) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
CH	CHIME FOR VIDEO INTERCOM (CH) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
C/K	CARD READER (CR) AND KEYSWITCH (KS) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
CR	CARD READER (CR) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
D	DURESS PUSHBUTTON (D) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
DO	AUTOMATIC SLIDING DOOR OPERATOR (DO) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 8 AND 28 FOR ADDITIONAL INFORMATION.
DPS	DOOR POSITION SWITCH (DPS) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
EL	ELECTRIC LOCK (EL) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 8 FOR ADDITIONAL INFORMATION.
JB	4" X 4" X 2-1/2" JUNCTION BOX UNLESS OTHERWISE NOTED.
KS	KEYSWITCH (KS) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
M	AUDIO MICROPHONE (M) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
MD	MOTION DETECTOR (MD) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
ML	MAGNETIC LOCK (ML) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 8 FOR ADDITIONAL INFORMATION.
TD	TIME DELAY (TD) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 8 FOR ADDITIONAL INFORMATION, REFER TO DOOR DETAILS AND INTERCONNECTS FOR LOCKS REQUIRING THIS FEATURE.
PB	DOOR RELEASE PUSHBUTTON (PB) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
PR	PUSHBUTTON REX (PR) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
LA	LOCAL ANNUNCIATOR (LA) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
VA	VISUAL ANNUNCIATOR (VA) [ACCESS CONTROL] - SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
1 / 3A	SECURITY DOOR TYPE, SEE SECURITY DOOR DETAILS. SECURITY DOOR IDENTIFICATION NUMBER

COMMUNICATIONS SYSTEMS LEGEND

	FLOOR BOX COMMUNICATION OUTLET - (3) CAT6A COMMUNICATIONS JACKS (ONE (1) WHITE AND TWO (2) BLUE) WITH ONE (1) WHITE AND TWO (2) BLUE BLUE CAT 6A.
18" TO ℄	SECURITY/VIDEO OUTLET - (2) CAT6A COMMUNICATIONS JACKS (GREEN) WITH GREEN CAT 6A, SEE NOTES 16 & 17.
18" TO ℄	COMMUNICATION OUTLET - (3) CAT6A COMMUNICATIONS JACKS (ONE (1) WHITE AND TWO (2) BLUE) WITH ONE (1) WHITE AND TWO (2) BLUE BLUE CAT 6A, SEE NOTES 16 & 17.
W 54" TO ℄	WALL PHONE OUTLET- (1) WALL PHONE JACK (WHITE) WITH WHITE CAT 6A, SEE NOTES 16 & 17.
TV 84" TO ℄	TELEVISION OUTLET- WALL MOUNTED TELEVISION JACK WITH (1) COAX AND (2) CAT6A COMMUNICATIONS JACKS (ONE (1) GREEN AND ONE (1) BLUE) WITH ONE (1) GREEN AND ONE (1) BLUE CAT 6A.
	CABLE TRAY, SIZE AS NOTED.
	TELECOM EQUIPMENT CABINET (REFER TO COMM ROOM LAYOUT DRAWINGS)
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT RUN, CAPPED
	CONDUIT RUN, TERMINATING WITH END BUSHING
AP	WIRELESS ACCESS POINT (FURNISHED BY CBP UON.) - PROVIDE (2) CAT 6A COMMUNICATIONS JACKS (YELLOW) WITH YELLOW CAT6A, SEE NOTES 16 & 17.

CABLE JACKET/RJ-45 MODULE COLORS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

CBP DATA: BLUE
VOICE: WHITE
RADIO: RED
SECURITY/VIDEO: GREEN
WAP: YELLOW

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL NEW DEVICE AND EQUIPMENT LOCATIONS PRIOR TO THE START OF INSTALLATION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4" WITH THE EXCEPTION OF "DROP CONDUITS" AT DOOR LOCATIONS, WHICH MAY BE 1/2". ALL CONDUITS SHALL BE EMT:
   EXCEPTIONS INCLUDE
   A. GRS FOR EXTERIOR AREAS
   B. RS FOR AREAS ACCESSIBLE TO THE PUBLIC
   C. PVC FOR BURIED OR CAST-IN-PLACE CONDUITS
   D. FLEXIBLE CONDUIT FOR CONCEALED DROPS TO DEVICES AND WHERE APPROVED BY THE OWNER.
3. CONDUIT FILL SHALL NOT EXCEED 40%. INSTALLATION OF CONDUIT AND WIRING SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE (NEC). ALL WIRING SHALL BE HOMERUN, UNLESS OTHERWISE NOTED. ANY SPLICES MUST BE APPROVED BY THE DESIGNER.
4. CONTRACTOR SHALL COORDINATE THE ROUTING AND LOCATION OF NEW COMMUNICATIONS CONDUITS WITH THE ELECTRICAL CONTRACTOR AND OTHER TRADES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT LINE VOLTAGE (120V AND ABOVE) POWER CONDUCTORS ARE NOT ROUTED WITHIN 12 INCHES OF COMMUNICATIONS WIRING.
6. ALL CONDUCTORS SHALL BE COLOR CODED AND TAGGED AS DESCRIBED IN THE WRITTEN SPECIFICATIONS AND APPROVED BY THE DESIGNER.
7. COORDINATE WORK WITH OTHER TRADES AND CONFIRM FINAL MOUNTING LOCATION FOR NEW AND RELOCATED EQUIPMENT WITH THE OWNER PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES FOR ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW AND UNUSED.
9. ALL RACEWAY, CONDUIT AND JUNCTION BOXES SHALL BE NEW AND INSTALLED WITH PULL STRING. REUSE OF EXISTING CONDUITS MUST BE APPROVED BY THE OWNER.
10. CONDUITS PENETRATING FIRE RATED WALLS OR FLOORS SHALL USE APPROVED U.L. DEVICES IN ORDER TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR.
11. ALL SECURITY CABLING SHALL BE INSTALLED IN DEDICATED CONDUIT.
12. MAINTAIN MINIMUM BENDING RADII FOR ALL CABLES ACCORDING TO THE CABLE MANUFACTURER AND PER BICSI AND TIA STANDARDS.
13. ALL WIRING, CABLING AND CONDUCTORS SHALL BE NEW UNLESS REUSE OF EXISTING IS APPROVED BY THE OWNER.
14. ALL WORK MUST BE CLOSELY COORDINATED WITH THE OWNER. ANY WORK AFFECTING AIRPORT OPERATIONS, CBP, TSA OR TENANTS MUST BE SCHEDULED IN ADVANCE AND PRE-APPROVED BY THE OWNER.
15. IF EXISTING EQUIPMENT MUST BE DECOMMISSIONED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROPERLY SHUT DOWN EQUIPMENT PRIOR TO DISCONNECTING. CONTRACTOR SHALL PROPERLY STORE EQUIPMENT ON SITE AT AN AREA DESIGNATED BY THE OWNER UNTIL THE EQUIPMENT IS REINSTALLED OR CONVEYED TO THE OWNER UPON COMPLETION OF THE PROJECT.
16. ALL COMMUNICATIONS OUTLET BOXES SHALL BE MIN. 4" WIDE BY 4" HIGH BY 2 1/2" DEEP WITH SINGLE GANG MUD RING.
17. UNLESS NOTED OTHERWISE, PROVIDE 1" C FROM COMMUNICATIONS OUTLET TO THE CABLE TRAY. CONTRACTOR SHALL FURNISH AND INSTALL CABLING AS REQUIRED. CABLE ROUTING WILL BE VIA CONDUIT (INACCESSIBLE SPACES) AND CABLE TRAY SYSTEM (ACCESSIBLE SPACES) TO COMM ROOM OR ROOM OF TERMINATION. PROVIDE RACEWAY SYSTEM OVER THE INACCESSIBLE CEILING SPACE AND AS INDICATED ON PLANS. TELE/DATA CONDUITS ARE TO BE LONG RADIUS TYPE AND SHALL CONTAIN PULL STRINGS. PROVIDE PLATES FOR ALL OUTLETS. CAT 6A CABLES SHALL BE PLENUM RATED. "LB" TYPE FITTING SHALL NOT BE USED.
18. SECURITY CONTROL CONDUCTORS SHALL BE SHIELDED COPPER AND MINIMUM 18 AWG, UNLESS OTHERWISE NOTED. SECURITY CONDUCTORS SHALL NOT SHARE CONDUIT WITH CONDUCTORS OF OTHER TRADES. SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT HIGH VOLTAGE (120 VAC) POWER CONDUCTORS ARE NOT ROUTED WITHIN 12 INCHES OF SECURITY CONTROL WIRING. ALL CONDUCTORS SHALL BE COLOR CODED AND TAGGED AS DESCRIBED IN THE WRITTEN SPECIFICATIONS AND APPROVED BY THE DESIGNER.

ABBREVIATIONS:

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AG	AGRICULTURAL
AHJ	AUTHORITY HAVING JURISDICTION
AI	AUDIO INTERFACE
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BMS	BALANCED MAGNETIC SWITCH
C.	CONDUIT
CATV	CABLE TELEVISION
CBP	CUSTOMS AND BORDER PROTECTION
CCTV	CLOSED CIRCUIT TELEVISION
CR	CARD READER
C/K	CARD READER AND KEYSWITCH
D	DURESS BUTTON
DIV	DIVISION
DO	DOOR OPERATOR
DPS	DOOR POSITION SWITCH
EL	ELECTRIC LOCK
GCTC	GATE CONTROL TERMINATION CABINET
GRS	GALVANIZED RIGID STEEL
IDS	INTRUSION DETECTION SYSTEM
IP	INTERNET PROTOCOL
ISP	INTERNET SERVICE PROVIDER
JB	JUNCTION BOX
KS	KEYSWITCH
LA	LOCAL ANNUNCIATOR
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
MBS	MAGNETIC BOND SENSOR
MD	MOTION DETECTOR
MIC	MICROPHONE
ML	MAGNETIC LOCK
MM	MULTI-MODE
MS	MAGNETIC SWITCH
PB	DOOR RELEASE PUSHBUTTON
PR	PUSHBUTTON REX
PT	POWER TRANSFER
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
REX	REQUEST TO EXIT
RS	RIGID STEEL
SM	SINGLE MODE
SS	STRIKE SWITCH
TBD	TO BE DETERMINED
TD	TIME-DELAY
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VA	VISUAL ANNUNCIATOR
VMS	VIDEO MANAGEMENT SYSTEM
VoIP	VOICE OVER IP TELEPHONY
WAP	WIRELESS ACCESS POINT
W/T	WIRE TROUGH

CABLE LEGEND

ID	DESCRIPTION	DEVICE
A	6-24 AWG SHIELDED 9-24 AWG SHIELDED	CARD READER. CABLE LENGTH < 450' CARD READER. CABLE LENGTH > 450'
B	4-22 AWG UNSHIELDED	MISC. INPUT (DOOR POSITION/REX/TD)
C	4-14 AWG UNSHIELDED	ANNUNCIATOR (HORN/STROBE)
D	2-14 AWG UNSHIELDED 2-12 AWG UNSHIELDED	MISC. OUTPUT (LOCK) CABLE LENGTH UP TO 100' MISC. OUTPUT (LOCK). CABLE LENGTH UP TO 200'
E	CATEGORY 6A UTP	ETHERNET (VOICE, DATA, VIDEO)
E1	OUTDOOR CAT 6A UTP	OUTDOOR RATED ETHERNET CABLE
F	2-18 AWG UNSHIELDED	FIRE ALARM RELAY AND MISC. I/O
G	8-18 AWG UNSHIELDED	GATE OPERATOR I/O
K	6-18 AWG UNSHIELDED	IDS KEY PAD
M	PROVIDED BY DEVICE MFG.	EXTERNAL MICROPHONE CABLE
T	RG-6/U COAX	CABLE TELEVISION
R	4-18 AWG SHIELDED	RS-485 SERIAL COMMUNICATION
X	MULTI-MODE FIBER	FIBER OPTIC PATCH CABLE
Y	25-PAIR COPPER	ANALOG TELEPHONE LINE

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SHEET TITLE

TELECOM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

T001

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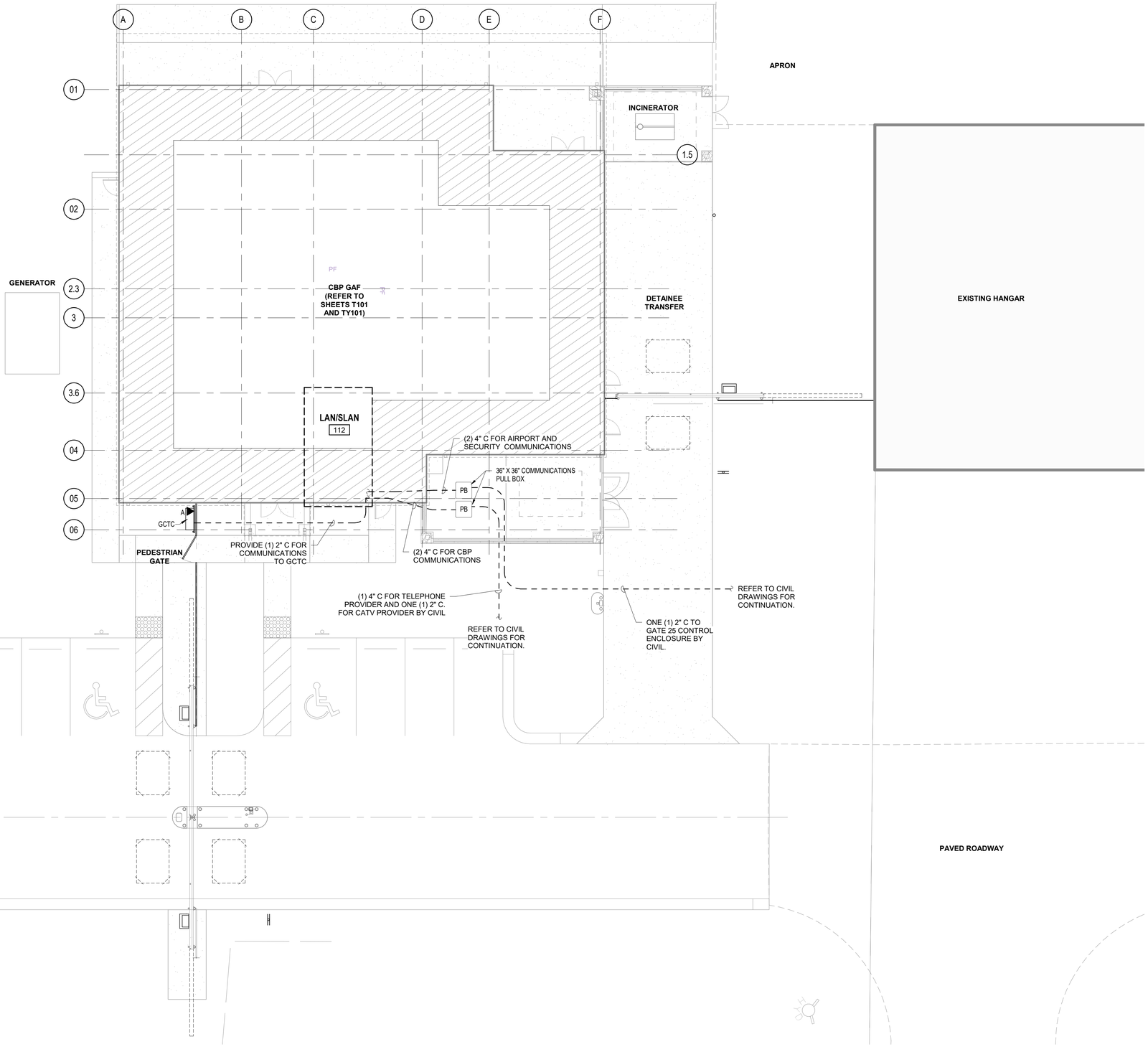

1 T100 SITE PLAN - TELECOM

SCALE: 1" = 10'-0"

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TELECOM SITE PLAN

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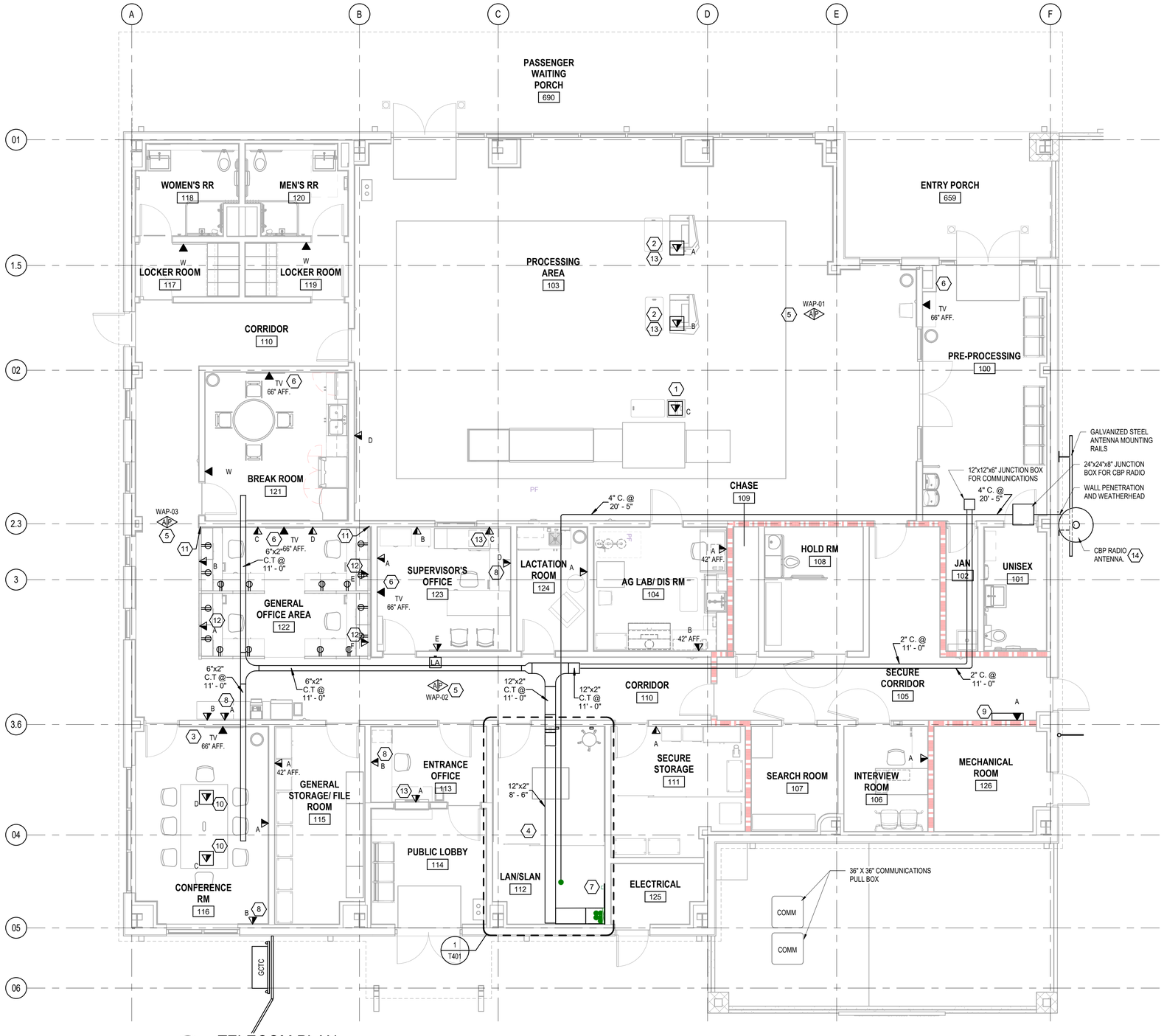

1 T101 TELECOM PLAN

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

8 0 8 16

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

NOTES:

1. COMMUNICATIONS CABLE AND DEVICES INSTALLED ABOVE CEILING SHALL BE PLENUM RATED.

KEYED NOTES:

1. DATA OUTLET FOR PROCESSING AREA X-RAY PODIUM. COLOCATE WITH POWER OUTLETS IN FLUSH FLOOR BOX, COORDINATE WITH DIVISION 26.
2. DATA OUTLET FOR PRIMARY AREA PODIUM. COLOCATE WITH POWER OUTLETS IN FLUSH FLOOR BOX, COORDINATE WITH DIVISION 26.
3. DATA OUTLET FOR OWNER PROVIDED WALL MOUNTED LARGE FORMAT DISPLAY (APPROX 85" LCD). COLOCATE WITH POWER OUTLETS IN RECESSED WALL BOX BEHIND DISPLAY. COORDINATE AV REQUIREMENTS WITH THE OWNER.
4. PROVIDE 12-STRAND MM FIBER (50/125 OM2) IN CORRUGATED INNERDUCT TERMINATED ON LC CONNECTORS FOR CONNECTION TO AIRPORT DATA AND SECURITY NETWORKS AT THE GATE 25 GCTC, REFER TO DETAIL 8 ON SHEET T501 (REFER TO CIVIL DRAWINGS FOR LOCATION OF GATE 25).
5. CBP WIRELESS ACCESS POINT (WAP) FURNISHED BY CBP AND INSTALLED BY THE CONTRACTOR, CABLE AND TERMINATIONS PROVIDED BY THE CONTRACTOR.
6. DATA OUTLET FOR WALL MOUNTED TELEVISION. COLOCATE WITH POWER OUTLETS IN RECESSED WALL BOX BEHIND DISPLAY.
7. TELEPHONE AND CATV PROVIDER TERMINATION POINT. 110 BLOCKS FOR 25-PAIR COPPER CABLE AND COAX SPLITTER FOR RG-6/U BETWEEN CBP LAN ROOM AND TELEPHONE POLE (REFER TO CIVIL SITE PLAN FOR POLE LOCATION).
8. PROVIDE ADDITIONAL DATA OUTLET FOR CBP RADIO, REFER TO TELECOMMUNICATIONS OUTLET SCHEDULE.
9. PROVIDE DATA OUTLET FOR VIDEO MONITOR INSIDE DETENTION GRADE HOUSING. COORDINATE WITH DIVISION 26.
10. PROVIDE HDMI CONNECTION BETWEEN FLOOR BOX AND WALL BOX BEHIND WALL MOUNTED TV.
11. PROVIDE IN-WALL RACEWAY FOR CONNECTION TO DATA OUTLETS IN FURNITURE SYSTEM, COORDINATE WITH FURNITURE SUPPLIER AND DIVISION 26.
12. DATA OUTLET MOUNTED IN FURNITURE SYSTEM WALL, COORDINATE WITH FURNITURE SUPPLIER AND DIVISION 26.
13. PROVIDE ADDITIONAL DATA OUTLET FOR SECURITY VIDEO INTERCOM, REFER TO TELECOMMUNICATIONS OUTLET SCHEDULE.
14. REFER TO DETAIL ON SHEET T403 FOR RADIO ANTENNA PROVIDED BY CBP.

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TELECOM PLAN

SHEET NUMBER

T101

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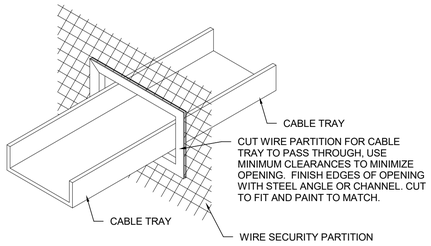
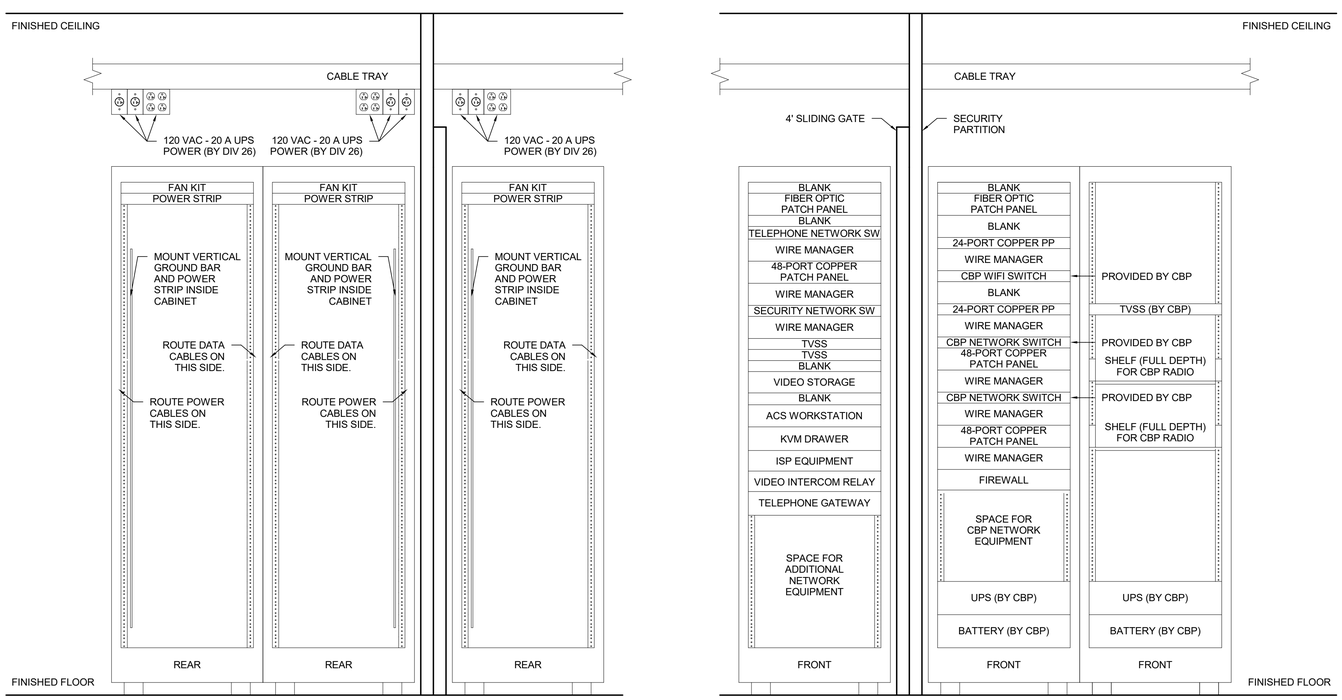


3 / T401 DATA CABLE TRAY PENETRATION

SCALE: N.T.S.

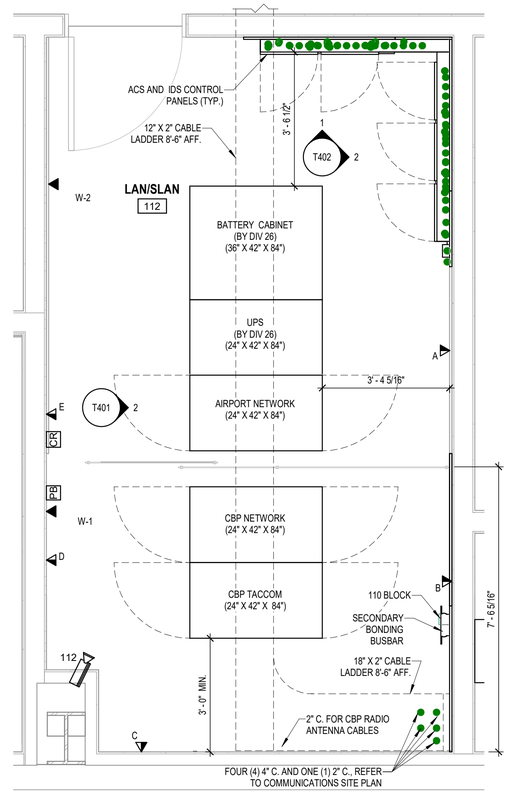
NOTES:

1. CONTRACTOR SHALL PROVIDE ALL HARDWARE REQUIRED FOR RACK MOUNTED DEVICES. ONCE ALL EQUIPMENT IS INSTALLED CONTRACTOR SHALL FILL EMPTY RACK UNITS IN THE FRONT OF THE CABINET WITH BLANK PANELS.
2. REFER TO DETAIL 2 ON SHEET T503 FOR GROUND BUS AND POWER STRIPS REQUIRED WITHIN EACH EQUIPMENT CABINET.
3. CHATSWORTH PRODUCTS ENCLOSURE FAN KIT MODEL# 16146 IIS OR APPROVED EQUAL TO BE MOUNTED TO THE TOP OF THE EQUIPMENT CABINET.
4. ISP EQUIPMENT FOR CBP INTERNET SERVICE SHALL BE PROVIDED AND INSTALLED BY THE SERVICE PROVIDER.



2 / T401 LAN/SLAN ROOM RACK ELEVATION

SCALE: N.T.S.



1 / T401 ENLARGED LAN/SLAN ROOM

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

2 0 2 4

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

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ENLARGED TELECOM PLAN AND DETAILS

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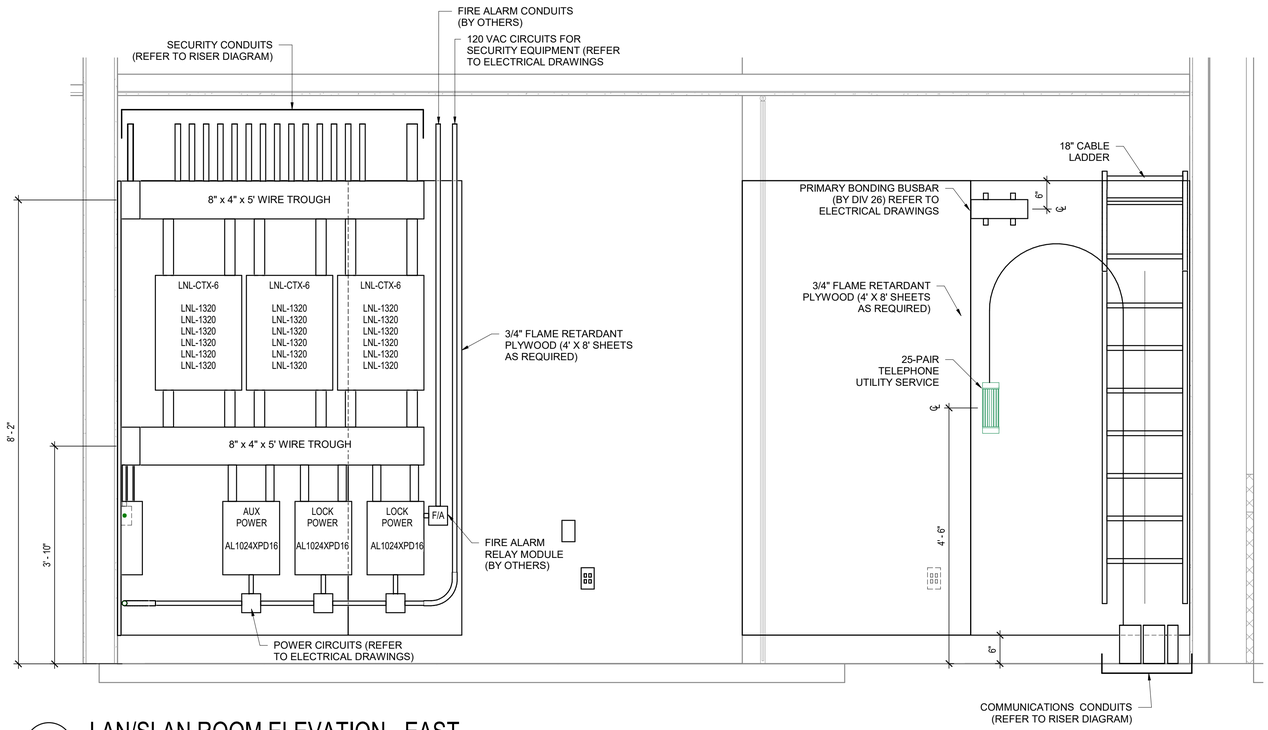
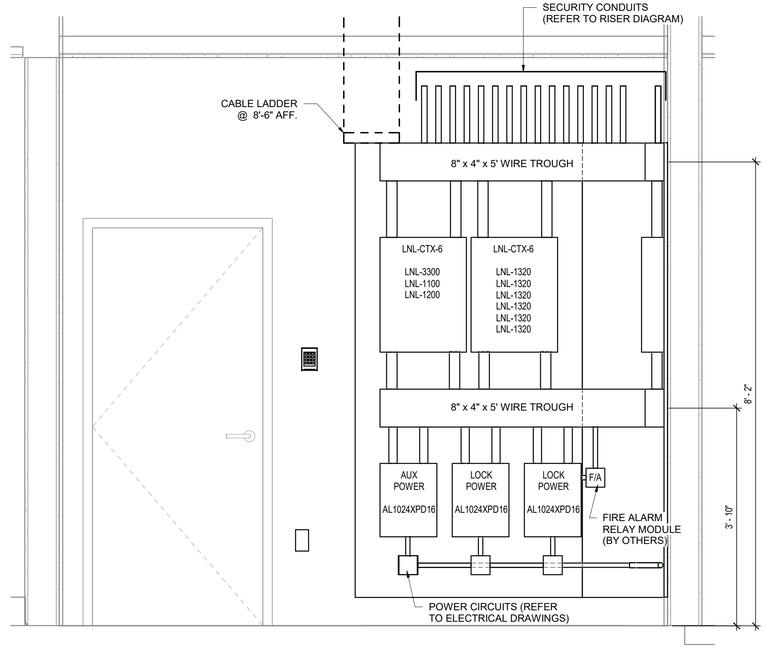


2 T402 LAN/SLAN ROOM ELEVATION - EAST

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



1 T402 LAN/SLAN ROOM ELEVATION - NORTH

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

1 0 1 2 3

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

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TELECOM ELEVATIONS

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T402

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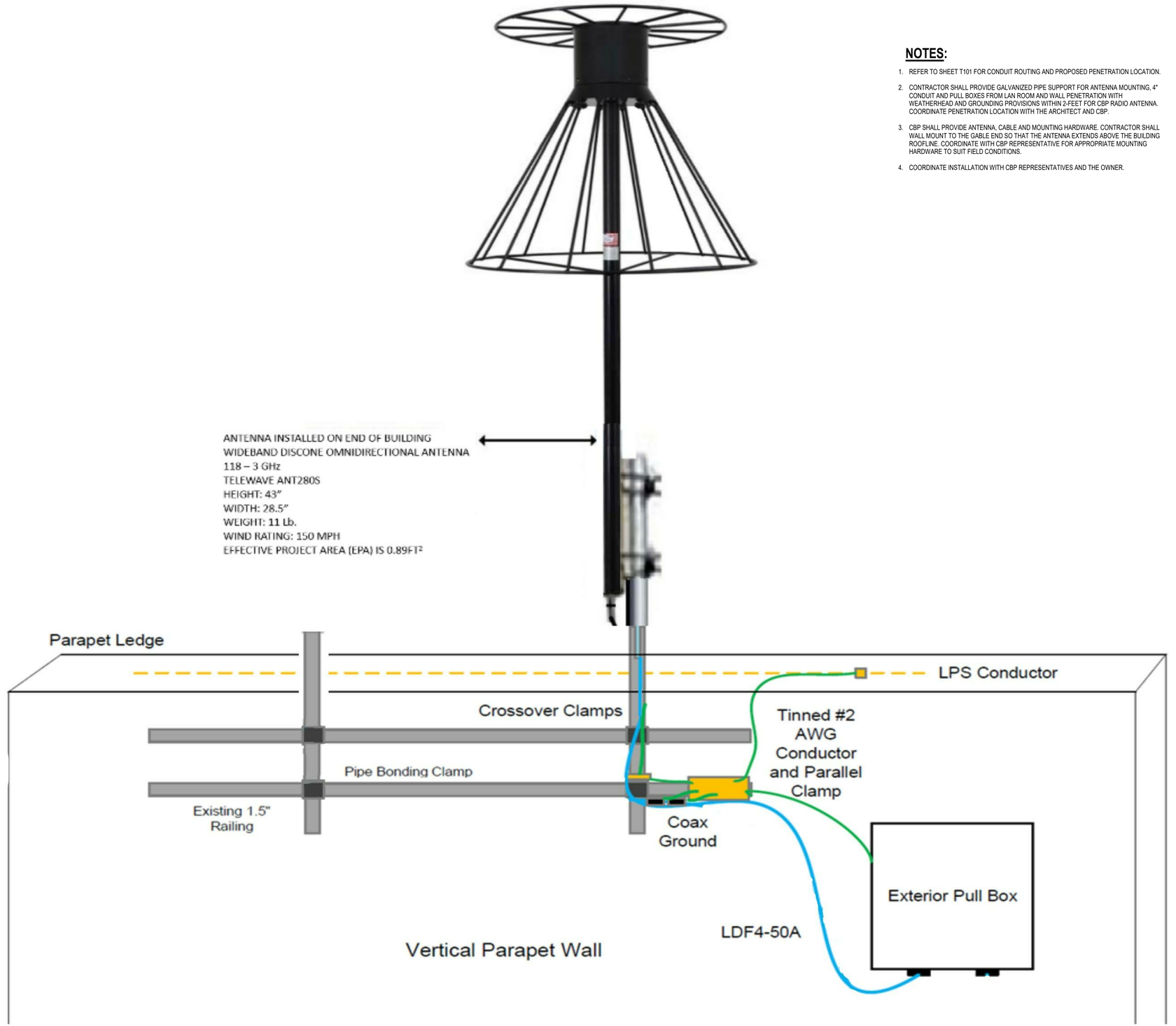

NOTES:

1. REFER TO SHEET T101 FOR CONDUIT ROUTING AND PROPOSED PENETRATION LOCATION.
2. CONTRACTOR SHALL PROVIDE GALVANIZED PIPE SUPPORT FOR ANTENNA MOUNTING, 4" CONDUIT AND PULL BOXES FROM LAN ROOM AND WALL PENETRATION WITH WEATHERHEAD AND GROUNDING PROVISIONS WITHIN 2-FEET FOR CBP RADIO ANTENNA. COORDINATE PENETRATION LOCATION WITH THE ARCHITECT AND CBP.
3. CBP SHALL PROVIDE ANTENNA, CABLE AND MOUNTING HARDWARE. CONTRACTOR SHALL WALL MOUNT TO THE GABLE END SO THAT THE ANTENNA EXTENDS ABOVE THE BUILDING ROOFLINE. COORDINATE WITH CBP REPRESENTATIVE FOR APPROPRIATE MOUNTING HARDWARE TO SUIT FIELD CONDITIONS.
4. COORDINATE INSTALLATION WITH CBP REPRESENTATIVES AND THE OWNER.

1 / T403 TYPICAL CBP RADIO ANTENNA INSTALLATION

SCALE: 12" = 1'-0"

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CBP RADIO ANTENNA INSTALLATION

SHEET NUMBER

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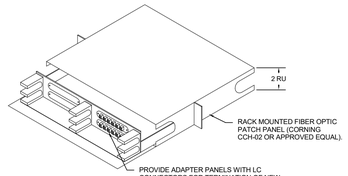
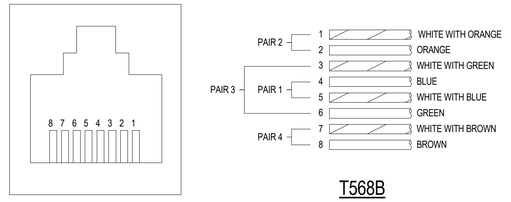


9 T501 FIBER OPTIC PATCH PANEL

SCALE: N.T.S.

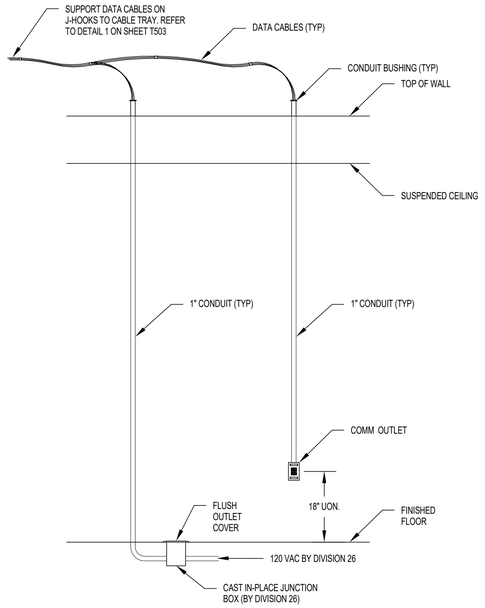


T568B

COMMUNICATIONS OUTLET WIRING

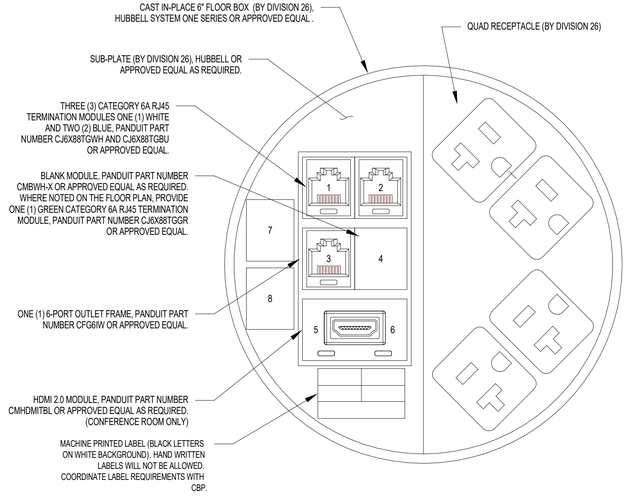
8 T501 TELECOM OUTLET - T568B

SCALE: N.T.S.



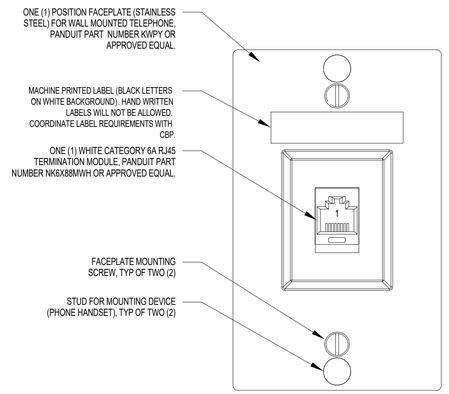
7 T501 DATA OUTLET TYP MOUNTING

SCALE: N.T.S.



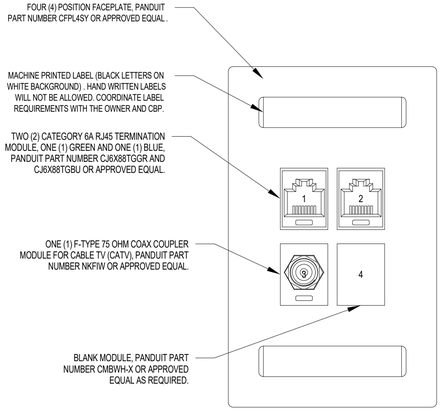
6 T501 TELECOM OUTLET - FLOOR BOX

SCALE: N.T.S.



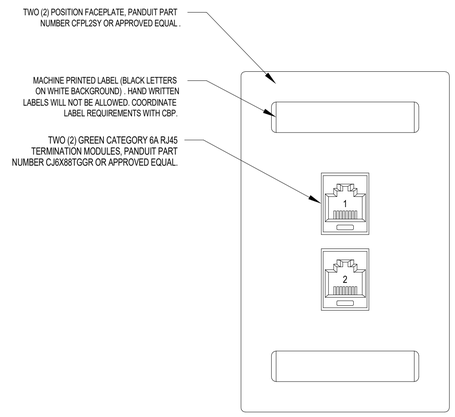
5 T501 TELECOM OUTLET - WALL PHONE

SCALE: N.T.S.



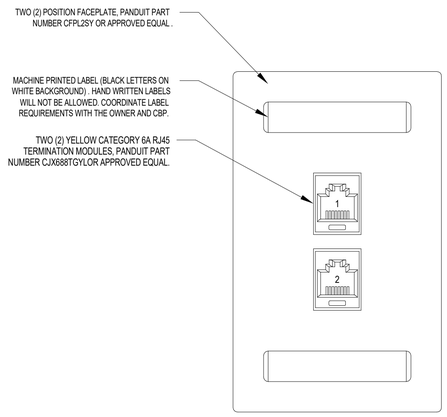
4 T501 TELECOM OUTLET - CATV & AV

SCALE: N.T.S.



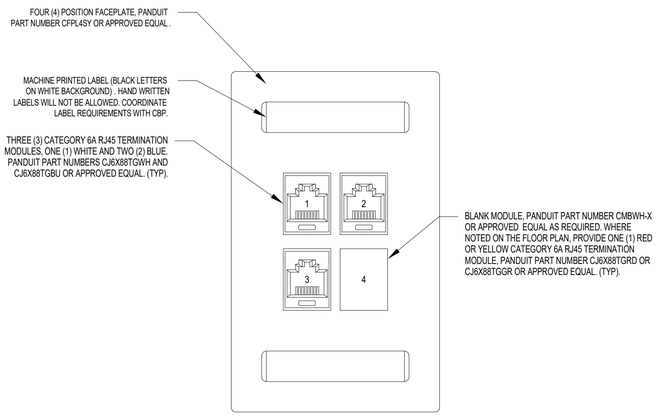
3 T501 TELECOM OUTLET - 2 DATA

SCALE: N.T.S.



2 T501 TELECOM OUTLET - WIFI

SCALE: N.T.S.



1 T501 TELECOM OUTLET - CBP VOICE-DATA

SCALE: N.T.S.

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
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EB0005620 * LCC000210 * GB238

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720 Bayfront Parkway, Suite 200
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GMCNETWORK.COM

PROFESSIONAL SEAL

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SVS
DRAWN BY:	VJM
DESIGNED BY:	RJF

PROJECT NUMBER:

201-0052-002

SHEET TITLE

TELECOM DETAILS

SHEET NUMBER

T501

BID DOCUMENTS

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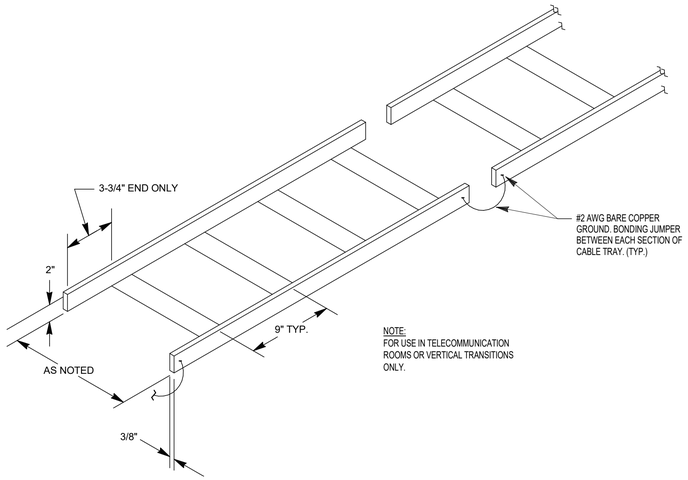
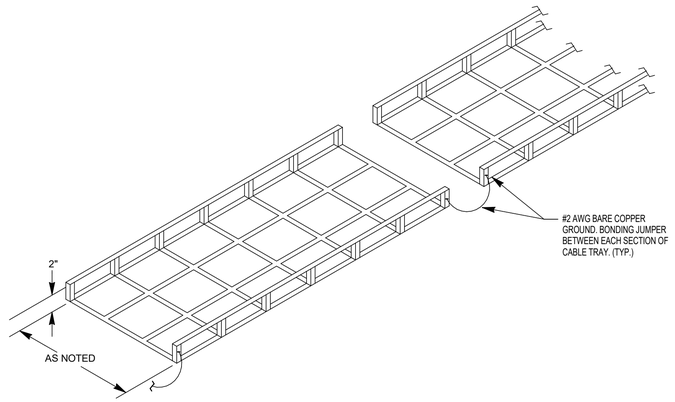


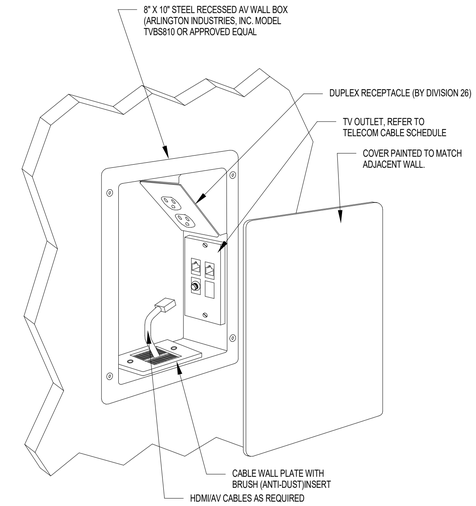
5 T502 DATA CABLE LADDER

SCALE: N.T.S.



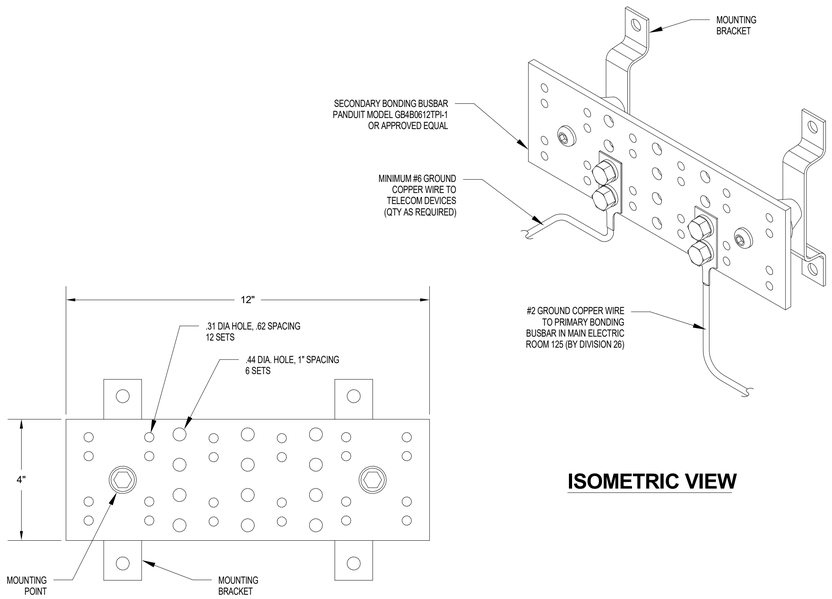
4 T502 DATA CABLE TRAY

SCALE: N.T.S.



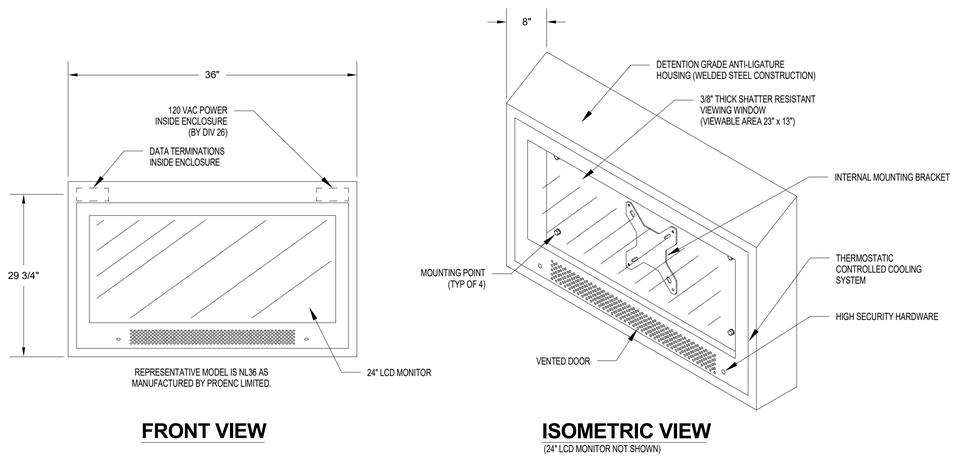
3 T502 TELECOM OUTLET - TV WALL BOX

SCALE: N.T.S.



2 T502 SECONDARY BONDING BUSBAR

SCALE: N.T.S.



1 T502 DETENTION GRADE SECURITY MONITOR ENCLOSURE

SCALE: 12" = 1'-0"

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
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PROJECT NUMBER:
201-0052-002

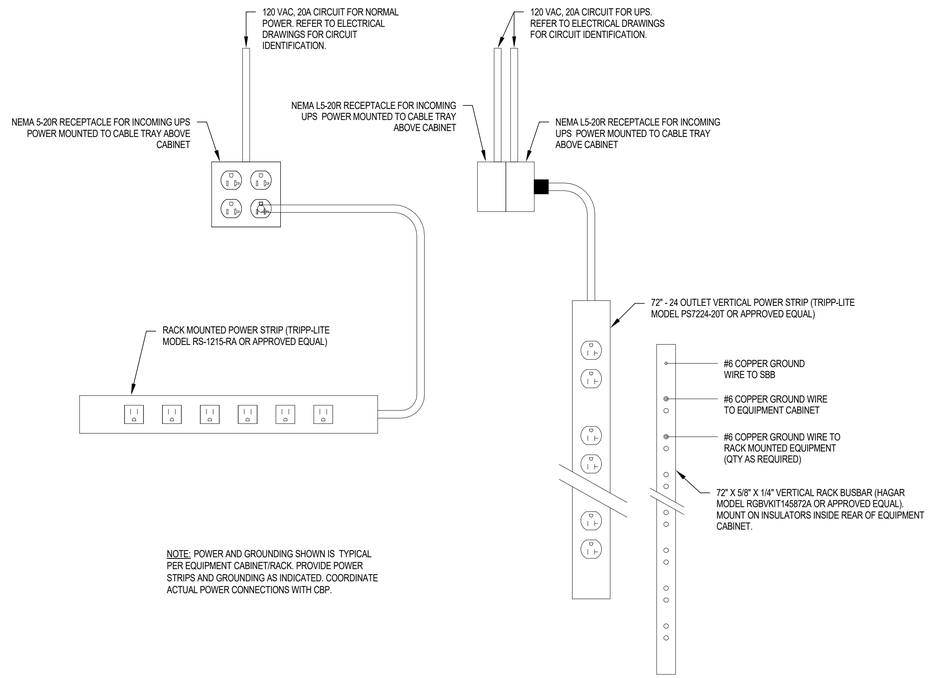
SHEET TITLE

TELECOM DETAILS

SHEET NUMBER

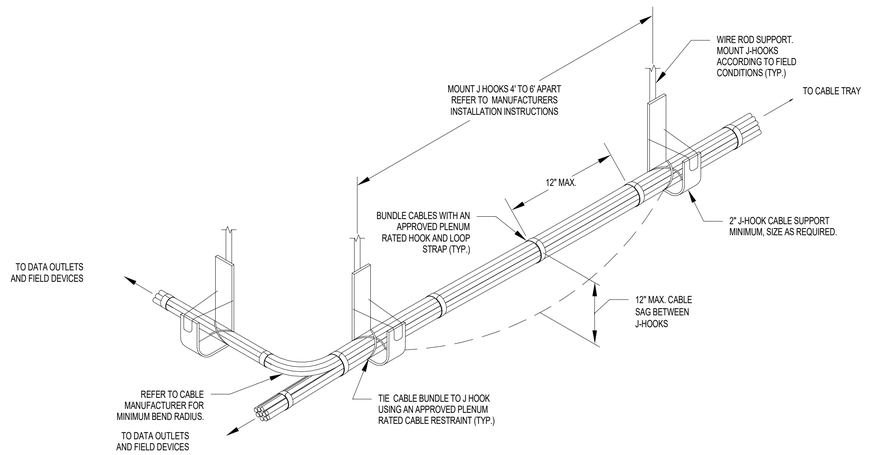
T502

BID DOCUMENTS



2 T503 EQUIPMENT CABINET POWER AND GROUNDING

SCALE: N.T.S.



1 T503 DATA J-HOOKS

SCALE: N.T.S.

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Jacksonville, Florida 32256-0597
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SHEET TITLE

TELECOM DETAILS

SHEET NUMBER

T503

BID DOCUMENTS

PNS GAF COMMUNICATIONS OUTLET CABLE SCHEDULE

ROOM NUMBER	MARK NUMBER	OUTLET NUMBER	MODULE TYPE	MODULE COLOR	DATA TYPE	OUTLET DETAIL	CABLE TYPE	CABLE COLOR	COMM ROOM	TERMINATION LOCATION	PATCH PANEL LABEL	NOTES
100	TV	1	RJ45	BLUE	DATA	4	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	100.TV.1	WALL MOUNT OUTLET 66" AFF COLOCATED WITH POWER IN RECESSED 8X10 BOX, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2		GREEN	DATA			GREEN			100.TV.2	
		3	F	-	CATV		RG6/U	BLACK			100.TV.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
103	A	1	RJ45	WHITE	DATA	6	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	103.A.1	FLUSH MOUNT FLOOR OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			103.A.2	
		3			DATA						103.A.3	
		4		GREEN	DATA			GREEN			103.A.4	
		5	BLANK	-	-		-	-	-	-	BLANK	
		6	BLANK	-	-		-	-	-	-	BLANK	
		7	BLANK	-	-		-	-	-	-	BLANK	
		8	BLANK	-	-		-	-	-	-	BLANK	
103	B	1	RJ45	WHITE	DATA	6	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	103.B.1	FLUSH MOUNT FLOOR OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			103.B.2	
		3			DATA						103.B.3	
		4		GREEN	DATA			GREEN			103.B.4	
		5	BLANK	-	-		-	-	-	-	BLANK	
		6	BLANK	-	-		-	-	-	-	BLANK	
		7	BLANK	-	-		-	-	-	-	BLANK	
		8	BLANK	-	-		-	-	-	-	BLANK	
103	C	1	RJ45	WHITE	DATA	6	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	103.C.1	FLUSH MOUNT FLOOR OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			103.C.2	
		3			DATA						103.C.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
		5	BLANK	-	-		-	-	-	-	BLANK	
		6	BLANK	-	-		-	-	-	-	BLANK	
		7	BLANK	-	-		-	-	-	-	BLANK	
		8	BLANK	-	-		-	-	-	-	BLANK	
103	D	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	103.D.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			103.D.2	
		3			DATA						103.D.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
104	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	104.A.1	WALL MOUNT OUTLET 42" AFF COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			104.A.2	
		3			DATA						104.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
104	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	104.B.1	WALL MOUNT OUTLET 42" AFF COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			104.B.2	
		3			DATA						104.B.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
105	A	1	RJ45	GREEN	DATA	3	CAT 6A	GREEN	112	SECURITY PATCH PANEL	105.A.1	MOUNT OUTLET INSIDE DETENTION GRADE MONITOR ENCLOSURE COLOCATED WITH POWER RECEPTACLE, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2			DATA						105.A.2	
106	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	106.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			106.A.2	
		3			DATA						106.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
110	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	110.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			110.A.2	
		3			DATA						110.A.3	
		4		RED	DATA			RED		CBP RADIO PATCH PANEL	110.A.4	
110	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	110.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			110.B.2	
		3			DATA						110.B.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
111	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	111.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			111.A.2	
		3			DATA						111.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			112.A.2	
		3			DATA						112.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			112.B.2	
		3			DATA						112.B.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	C	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.C.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			112.C.2	
		3			DATA						112.C.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	D	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.D.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			112.D.2	
		3			DATA						112.D.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	E	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.E.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			112.E.2	
		3			DATA						112.E.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
112	W-1	1	RJ45	WHITE	DATA	5	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.W-1.1	WALL MOUNT OUTLET 54" AFF.
112	W-2	1	RJ45	WHITE	DATA	5	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	112.W-2.1	WALL MOUNT OUTLET 54" AFF.

PNS GAF COMMUNICATIONS OUTLET CABLE SCHEDULE

ROOM NUMBER	MARK NUMBER	OUTLET NUMBER	MODULE TYPE	MODULE COLOR	DATA TYPE	OUTLET DETAIL	CABLE TYPE	CABLE COLOR	COMM ROOM	TERMINATION LOCATION	PATCH PANEL LABEL	NOTES
113	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	113.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			113.A.2	
		3			DATA						113.A.3	
		4		GREEN	DATA			GREEN			113.A.4	
113	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	113.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			113.B.2	
		3			DATA						113.B.3	
		4		RED	DATA			RED		CBP RADIO PATCH PANEL	113.B.4	
115	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	115.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			115.A.2	
		3			DATA						115.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
116	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	116.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			116.A.2	
		3			DATA						116.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
116	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	116.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			116.B.2	
		3			DATA						116.B.3	
		4		RED	DATA			RED		CBP RADIO PATCH PANEL	116.B.4	
116	C	1	RJ45	WHITE	DATA	6	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	116.C.1	FLUSH MOUNT FLOOR OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			116.C.2	
		3			DATA						116.C.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
		5	HDMI 2.0	BLACK	AUDIO/ VIDEO		HDMI 2.0	BLACK	116.D	TV WALL BOX	HDMI 2.0	
		6										
		7	BLANK	-	-		-	-	-	-	BLANK	
		8	BLANK	-	-		-	-	-	-	BLANK	
116	D	1	RJ45	WHITE	DATA	6	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	116.D.1	FLUSH MOUNT FLOOR OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			116.D.2	
		3			DATA						116.D.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
		5	HDMI 2.0	BLACK	AUDIO/ VIDEO		HDMI 2.0	BLACK	116.D	TV WALL BOX	HDMI 2.0	
		6										
		7	BLANK	-	-		-	-	-	-	BLANK	
		8	BLANK	-	-		-	-	-	-	BLANK	
116	TV	1	RJ45	BLUE	DATA	4	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	116.TV.1	WALL MOUNT OUTLET 66" AFF COLOCATED WITH POWER IN RECESSED 8X10 BOX, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2		GREEN	DATA			GREEN			116.TV.2	
		3	F	-	CATV		RG6/U	BLACK			116.TV.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
117	W	1	RJ45	WHITE	DATA	5	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	117.W.1	WALL MOUNT OUTLET 54" AFF.
119	W	1	RJ45	WHITE	DATA	5	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	119.W.1	WALL MOUNT OUTLET 54" AFF.
121	TV	1	RJ45	BLUE	DATA	4	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	121.TV.1	WALL MOUNT OUTLET 66" AFF COLOCATED WITH POWER IN RECESSED 8X10 BOX, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2		GREEN	DATA			GREEN			121.TV.2	
		3	F	-	CATV		RG6/U	BLACK			121.TV.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
121	W	1	RJ45	WHITE	DATA	5	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	121.W.1	WALL MOUNT OUTLET 54" AFF.
122	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.A.2	
		3			DATA						122.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.B.2	
		3			DATA						122.B.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	C	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.C.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.C.2	
		3			DATA						122.C.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	D	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.D.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.D.2	
		3			DATA						122.D.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	E	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.E.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.E.2	
		3			DATA						122.E.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	F	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	122.F.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			122.F.2	
		3			DATA						122.F.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
122	TV	1	RJ45	BLUE	DATA	4	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	122.TV.1	WALL MOUNT OUTLET 66" AFF COLOCATED WITH POWER IN RECESSED 8X10 BOX, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2		GREEN	DATA			GREEN			122.TV.2	
		3	F	-	CATV		RG6/U	BLACK			122.TV.3	
		4	BLANK	-	-		-	-	-	-	BLANK	

NOTES:

1. OUTLET NUMBERS LISTED HEREIN ARE FOR CONTRACTOR REFERENCE AND INDICATE OUTLET DESIGNATION BY ROOM NUMBER AND OUTLET ID AS SHOWN ON THE COMMUNICATIONS FLOOR PLAN.
2. UNLESS OTHERWISE NOTED, CABLES SHALL BE ROUTED FROM THE WALL OUTLET IN 1" DROP CONDUIT TO THE NEAREST BRANCH OF THE COMMUNICATIONS CABLE TRAY.
3. FINAL SCHEME TO BE USED FOR LABELING OUTLETS, CABLES AND PATCH PANELS SHALL BE IN COORDINATION WITH THE OWNER AND CBP.
4. REFER TO OUTLET DETAILS ON SHEET T501 FOR FACEPLATE AND TERMINATION MODULE REQUIREMENTS. FINAL CONFIGURATIONS SHALL BE REVIEWED AND APPROVED BY THE OWNER AND CBP PRIOR TO INSTALLATION.

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SHEET TITLE

TELECOM CABLE SCHEDULE

SHEET NUMBER

T601

BID DOCUMENTS

Sheet Size: ARCH E 22X34

NOTES:

1. OUTLET NUMBERS LISTED HEREIN ARE FOR CONTRACTOR REFERENCE AND INDICATE OUTLET DESIGNATION BY ROOM NUMBER AND OUTLET ID AS SHOWN ON THE COMMUNICATIONS FLOOR PLAN.
2. UNLESS OTHERWISE NOTED, CABLES SHALL BE ROUTED FROM THE WALL OUTLET IN 1" DROP CONDUIT TO THE NEAREST BRANCH OF THE COMMUNICATIONS CABLE TRAY.
3. FINAL SCHEME TO BE USED FOR LABELING OUTLETS, CABLES AND PATCH PANELS SHALL BE IN COORDINATION WITH THE OWNER AND CBP.
4. REFER TO OUTLET DETAILS ON SHEET T501 FOR FACEPLATE AND TERMINATION MODULE REQUIREMENTS. FINAL CONFIGURATIONS SHALL BE REVIEWED AND APPROVED BY THE OWNER AND CBP PRIOR TO INSTALLATION.

PNS GAF COMMUNICATIONS OUTLET CABLE SCHEDULE

ROOM NUMBER	MARK NUMBER	OUTLET NUMBER	MODULE TYPE	MODULE COLOR	DATA TYPE	OUTLET DETAIL	CABLE TYPE	CABLE COLOR	COMM ROOM	TERMINATION LOCATION	PATCH PANEL LABEL	NOTES
123	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	123.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			123.A.2	
		3			DATA						123.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
123	B	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	123.B.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			123.B.2	
		3			DATA						123.B.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
123	C	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	123.C.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			123.C.2	
		3			DATA						123.C.3	
		4		GREEN	DATA			GREEN			123.C.4	
123	D	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	123.D.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			123.D.2	
		3			DATA						123.D.3	
		4		RED	DATA			RED		CBP RADIO PATCH PANEL	123.D.4	
123	TV	1	RJ45	BLUE	DATA	4	CAT 6A	BLUE	112	CBP DATA PATCH PANEL	123.TV.1	WALL MOUNT OUTLET 66" AFF COLOCATED WITH POWER IN RECESSED 8X10 BOX, REFER TO DETAIL X ON SHEET T501. COORDINATE WITH DIVISION 26.
		2		GREEN	DATA			GREEN			123.TV.2	
		3	F	-	CATV		RG6/U	BLACK			123.TV.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
124	A	1	RJ45	WHITE	DATA	1	CAT 6A	WHITE	112	CBP DATA PATCH PANEL	124.A.1	WALL MOUNT OUTLET COLOCATED WITH POWER RECEPTACLE, COORDINATE WITH DIVISION 26.
		2		BLUE	DATA			BLUE			124.A.2	
		3			DATA						124.A.3	
		4	BLANK	-	-		-	-	-	-	BLANK	
GCTC	A	1	RJ45	GREEN	DATA	-	CAT 6A	GREEN	112	SECURITY PATCH PANEL	GCTC.A.1	SURFACE MOUNT OUTLET INSIDE GCTC. COORDINATE WITH DIVISION 28.
		2			DATA						GCTC.A.2	
WAP	01	1	RJ45	YELLOW	DATA	2	CAT 6A	YELLOW	112	CBP DATA PATCH PANEL	WAP.01.1	MOUNT OUTLET ABOVE SUSPENDED CEILING.
		2			DATA						WAP.01.2	
WAP	02	1	RJ45	YELLOW	DATA	2	CAT 6A	YELLOW	112	CBP DATA PATCH PANEL	WAP.02.1	MOUNT OUTLET ABOVE SUSPENDED CEILING.
		2			DATA						WAP.02.2	
WAP	03	1	RJ45	YELLOW	DATA	2	CAT 6A	YELLOW	112	CBP DATA PATCH PANEL	WAP.03.1	MOUNT OUTLET ABOVE SUSPENDED CEILING.
		2			DATA						WAP.03.2	

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SHEET TITLE

TELECOM CABLE SCHEDULE

SHEET NUMBER

T602

BID DOCUMENTS

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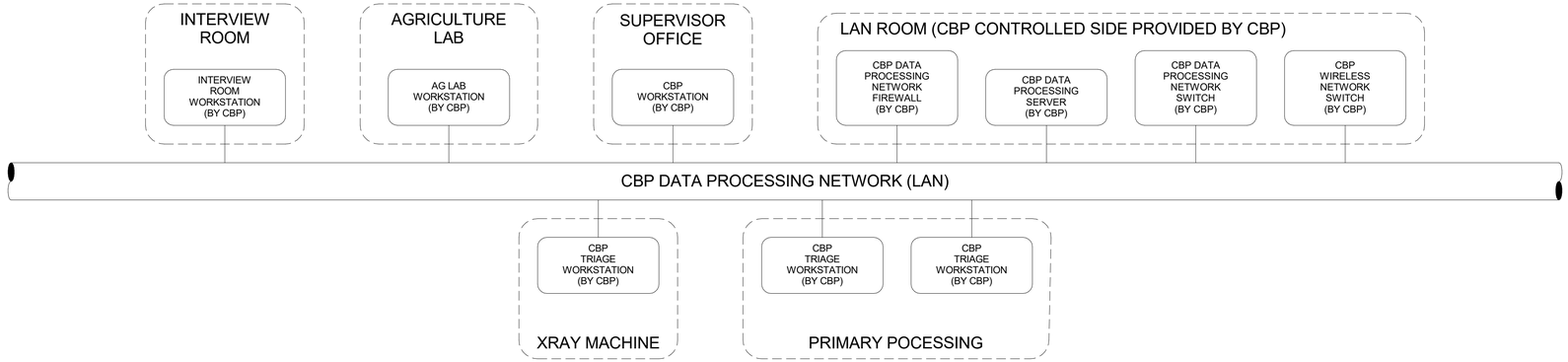


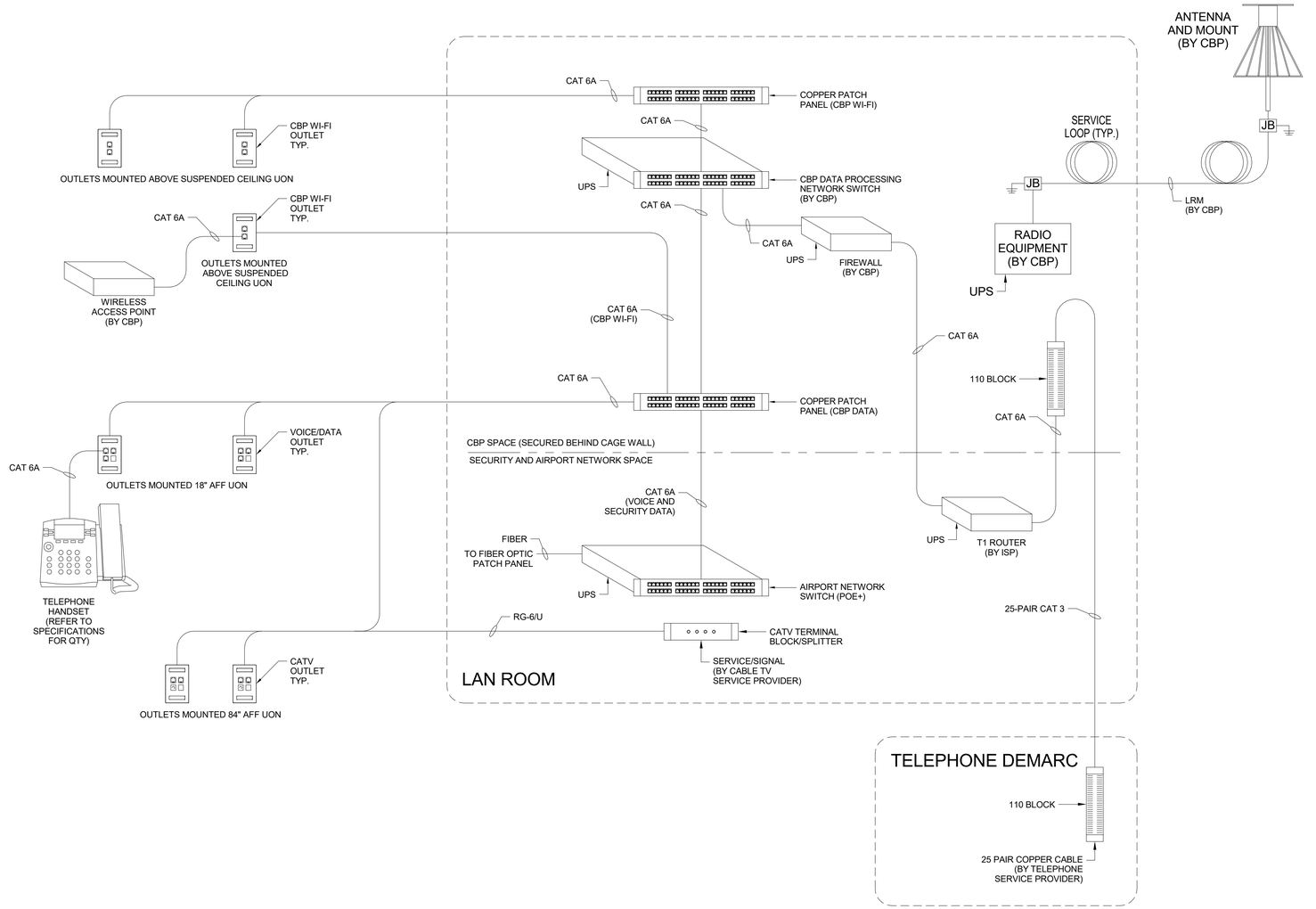
1 T701

COMM LOGIC DIAGRAM

SCALE: N.T.S.

NOTES:

1. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.



2 T701

COMM BLOCK DIAGRAM

SCALE: N.T.S.

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SHEET TITLE

TELECOM BLOCK DIAGRAMS

SHEET NUMBER

T701

BID DOCUMENTS

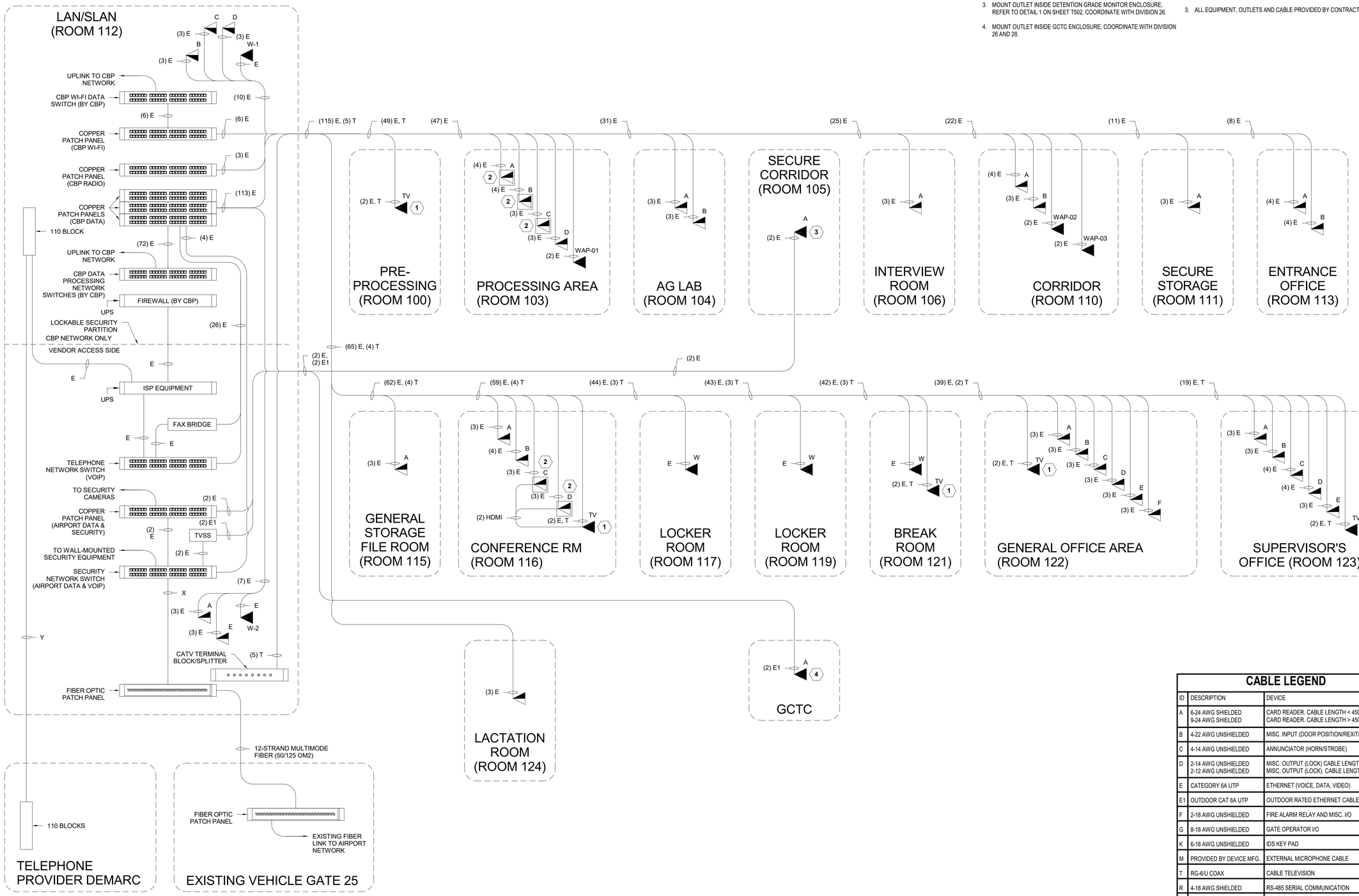
Sheet Size: ARCH E 22X34

KEYED NOTES:

1. MOUNT OUTLET INSIDE 8" X 10" RECESSED WALL BOX FOR TELEVISION, REFER TO DETAIL 3 ON SHEET T502, COORDINATE WITH DIVISION 26.
2. MOUNT OUTLET INSIDE CAST-IN PLACE FLUSH FLOOR BOX, REFER TO DETAIL 6 ON SHEET T501, COORDINATE WITH DIVISION 26.
3. MOUNT OUTLET INSIDE DETENTION GRADE MONITOR ENCLOSURE, REFER TO DETAIL 1 ON SHEET T502, COORDINATE WITH DIVISION 26.
4. MOUNT OUTLET INSIDE GCTC ENCLOSURE, COORDINATE WITH DIVISION 26 AND 28.

NOTES:

1. REFER TO FLOOR PLANS FOR DEVICE MOUNTING LOCATIONS.
2. THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND CONNECTIONS REQUIRED FOR A COMPLETE AND WORKING SYSTEM AS DESCRIBED IN THE WRITTEN SPECIFICATIONS.
3. ALL EQUIPMENT, OUTLETS AND CABLE PROVIDED BY CONTRACTOR UON.



CABLE LEGEND

ID	DESCRIPTION	DEVICE
A	6-24 AWG SHIELDED 9-24 AWG SHIELDED	CARD READER. CABLE LENGTH < 450' CARD READER. CABLE LENGTH > 450'
B	4-22 AWG UNSHIELDED	MISC. INPUT (DOOR POSITION/REX/TD)
C	4-14 AWG UNSHIELDED	ANNUNCIATOR (HORN/STROBE)
D	2-14 AWG UNSHIELDED 2-12 AWG UNSHIELDED	MISC. OUTPUT (LOCK) CABLE LENGTH UP TO 100' MISC. OUTPUT (LOCK). CABLE LENGTH UP TO 200'
E	CATEGORY 6A UTP	ETHERNET (VOICE, DATA, VIDEO)
E1	OUTDOOR CAT 6A UTP	OUTDOOR RATED ETHERNET CABLE
F	2-18 AWG UNSHIELDED	FIRE ALARM RELAY AND MISC. I/O
G	8-18 AWG UNSHIELDED	GATE OPERATOR I/O
K	6-18 AWG UNSHIELDED	IDS KEY PAD
M	PROVIDED BY DEVICE MFG.	EXTERNAL MICROPHONE CABLE
T	RG-6/U COAX	CABLE TELEVISION
R	4-18 AWG SHIELDED	RS-485 SERIAL COMMUNICATION
X	MULTI-MODE FIBER	FIBER OPTIC PATCH CABLE
Y	25-PAIR COPPER	ANALOG TELEPHONE LINE

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SHEET TITLE

TELECOM INTERCONNECT DIAGRAM

SHEET NUMBER

T702

BID DOCUMENTS

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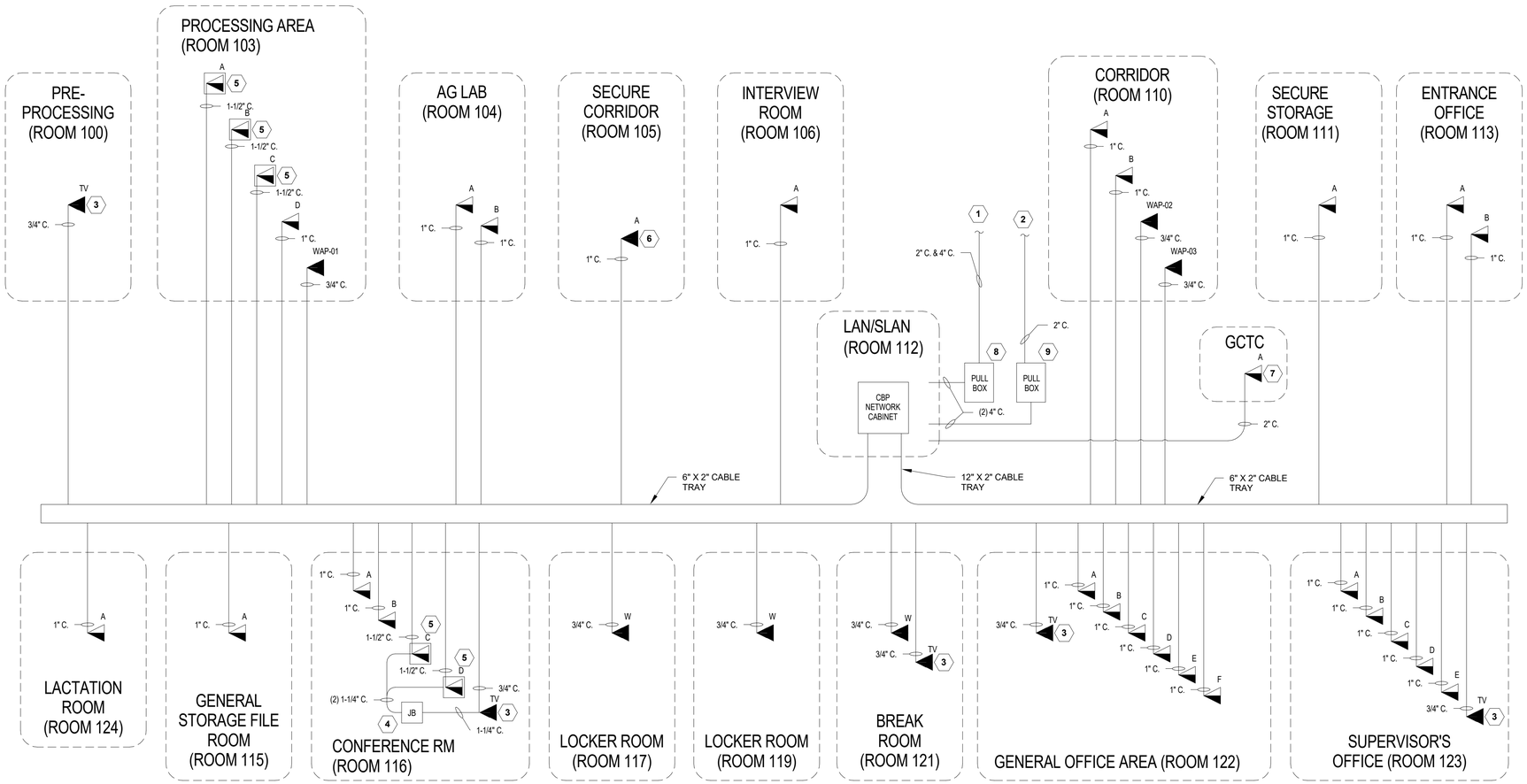
Sheet Size: ARCH E 22X34

NOTES:

1. THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT SHOW ALL BENDS OR TURNS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE RACEWAY SYSTEM AS REQUIRED.
2. REFER TO INTERCONNECT DIAGRAM FOR ADDITIONAL INFORMATION.

KEYED NOTES: ⬡

1. (1) 4" C FOR TELEPHONE PROVIDER AND ONE (1) 2" C. FOR CATV PROVIDER BY CIVIL.
2. ONE (1) 2" C TO AIRPORT DUCTBANK BY CIVIL.
3. MOUNT OUTLET INSIDE 8" X 10 RECESSED WALL BOX FOR TELEVISION, REFER TO DETAIL 3 ON SHEET T502, COORDINATE WITH DIVISION 26.
4. PROVIDE DOUBLE GANG JUNCTION BOX WITH BLANK WALL PLATE 18" AFF BELOW WALL MOUNTED TV.
5. MOUNT OUTLET INSIDE CAST-IN PLACE FLUSH FLOOR BOX, REFER TO DETAIL 6 ON SHEET T501, COORDINATE WITH DIVISION 26.
6. MOUNT OUTLET INSIDE DETENTION GRADE MONITOR ENCLOSURE, REFER TO DETAIL 1 ON SHEET T502, COORDINATE WITH DIVISION 26.
7. MOUNT OUTLET INSIDE GCTC ENCLOSURE, COORDINATE WITH DIVISION 26 AND 28.
8. PROVIDE 36" X 36" COMMUNICATIONS PULL BOX FOR SERVICE PROVIDER CABLES.
9. PROVIDE 36" X 36" COMMUNICATIONS PULL BOX FOR AIRPORT DATA AND SECURITY COMMUNICATIONS CABLES.



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SHEET TITLE

TELECOM RISER DIAGRAM

SHEET NUMBER

T703

BID DOCUMENTS

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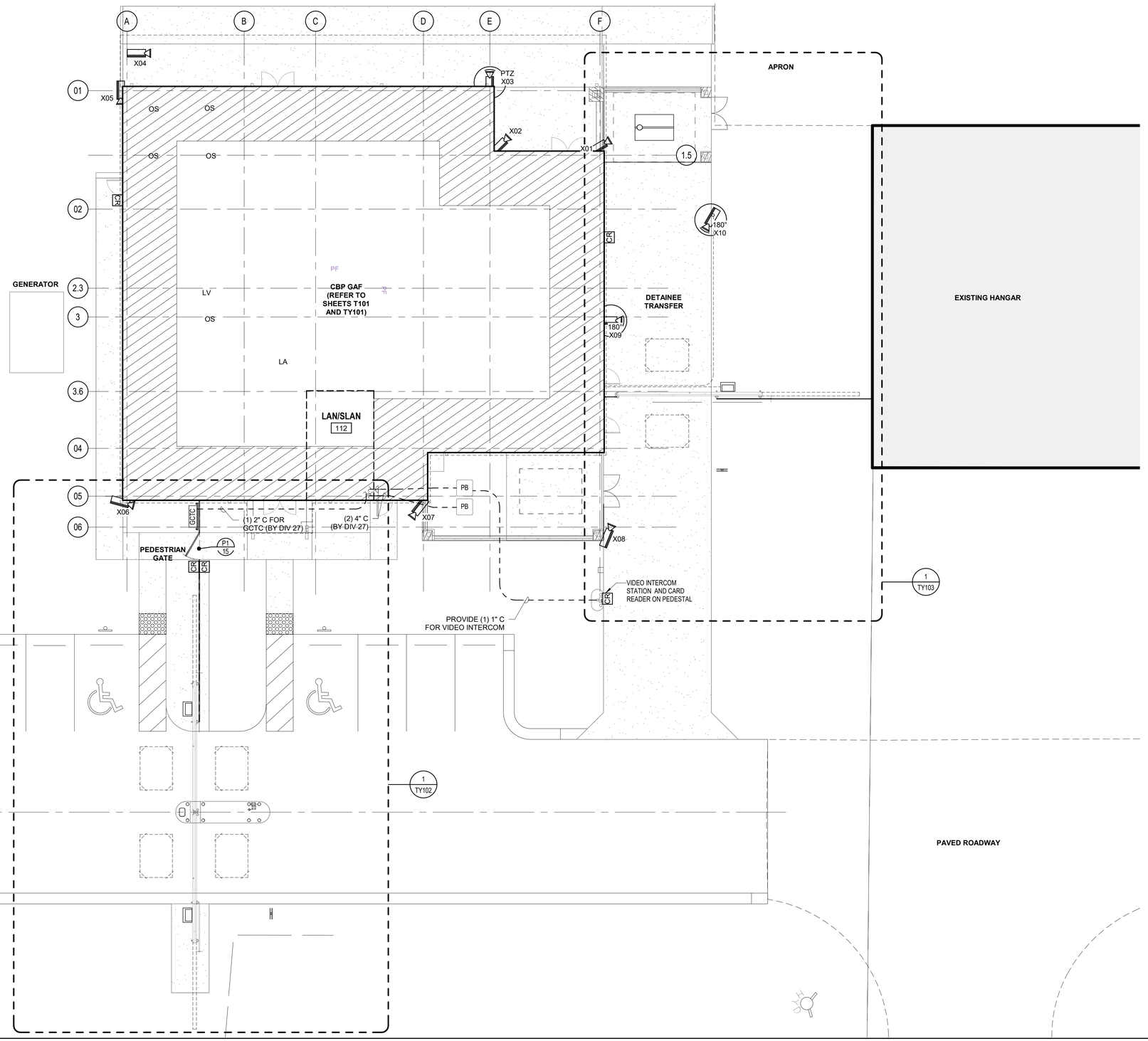

1 TY100 SCALE: 1" = 10'-0"

SITE PLAN - SECURITY

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SECURITY SITE PLAN

SHEET NUMBER

TY100

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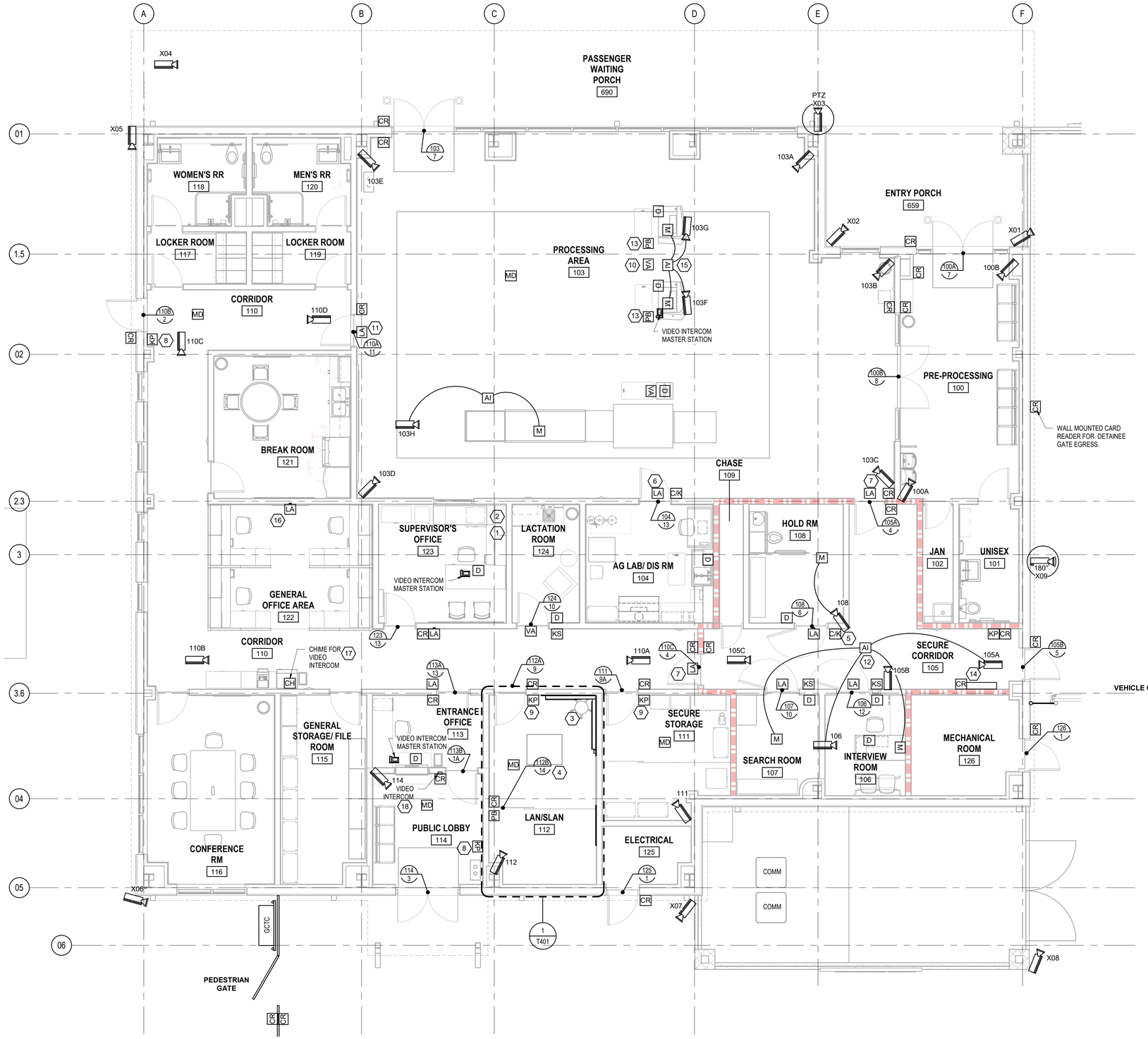

1 TY101 FIRST FLOOR PARTIAL PLAN - SECURITY PLAN

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

4 0 4 8 12

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

KEYED NOTES:

1. ACCESS CONTROL AND VIDEO MONITORING WORKSTATION WITH SPEAKERS.
2. PROVIDE REPORT PRINTER.
3. PROVIDE WALL MOUNTED ACCESS CONTROL PANELS, REFER TO SHEET T401 FOR DETAILS.
4. PROVIDE RACK MOUNTED VIDEO SURVEILLANCE EQUIPMENT, REFER TO SHEET T401 FOR DETAILS.
5. CARD READER FOR GUARD TOUR LOGGING. PROVIDE INDICATOR AND 15 MINUTE TIMER AS DESCRIBED IN CBP STANDARD.
6. HORN/STROBE DEVICE FOR AG LAB GRINDER DURESS BUTTON.
7. DUAL PURPOSE HORN/STROBE DEVICE FOR INTERVIEW ROOM, SEARCH ROOM AND HOLD ROOM DURESS BUTTONS AND TIME DELAY DOOR ALARM. STROBE WILL ACTIVATE WHEN ALARMS IN DETENTION SUITE ARE ACTIVATED.
8. KEY PAD TO ARM/DISARM THE CBP SPACE INTRUSION DETECTION ZONE.
9. KEY PAD TO ARM/DISARM THE ROOM'S INTRUSION DETECTION ZONE.
10. CEILING MOUNTED VISUAL ANNUNCIATOR FOR PODIUM MOUNTED DURESS ALARM BUTTON. REFER TO DETAIL 2 ON SHEET TY506.
11. DUAL PURPOSE HORN/STROBE DEVICE FOR DURESS AND DOOR ALARM IN ADMIN SUITE.
12. PROVIDE 12" X 12" X 6" JUNCTION BOX WITH LOCKABLE ACCESS COVER FLUSH MOUNTED IN CORRIDOR CEILING FOR CONDUITS TO CAMERAS . REFER TO CAMERA DETAILS TYPE D, F AND J ON SHEET TY507 AND TY508 AND INTERCONNECT DIAGRAM ON SHEET TY702. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING, REFER TO SHEET A121.
13. DOOR RELEASE PUSH BUTTONS FOR DOOR 100B AND 103 MOUNTED IN PODIUM CASEWORK. REFER TO DOOR TYPES 7 AND 8 ON SHEET TY502 AND TY503 AND DETAIL 1 ON SHEET TY505.
14. DETENTION GRADE HOUSING FOR DETAINEE TRANSFER GATE AND CARD READER FOR GATE OPEN/CLOSE COMMAND, REFER TO DETAIL ON SHEET T502
15. PROVIDE 12" X 12" X 6" JUNCTION BOX MOUNTED ABOVE SUSPENDED CEILING FOR AUDIO INTERFACE UNITS TO CAMERAS, REFER TO CAMERA TYPE B ON SHEET TY507 AND INTERCONNECT DIAGRAM ON SHEET TY702 (REFER TO DETAIL 3 ON SHEET TY506).
16. STROBE WILL ACTIVATE WHEN DOOR OR DURESS ALARMS IN DETENTION SUITE, PROCESSING AREA, OR THE ADMIN SUITE ARE ACTIVATED. COORDINATE MOUNTING LOCATION WITH CBP.
17. PROVIDE WALL MOUNTED CHIME FOR SECURITY VIDEO INTERCOM. REFER TO SECURITY FLOOR PLAN AND INTERCONNECT DIAGRAM FOR ADDITIONAL INFORMATION. COORDINATE MOUNTING LOCATION WITH CBP.
18. VIDEO INTERCOM SHALL SIMULTANEOUSLY CALL ENTRANCE OFFICE, SUPERVISOR'S OFFICE, INSPECTION PODIUM MASTER STATIONS AND SOUND CHIME IN GENERAL OFFICE.

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FIRST FLOOR PARTIAL PLAN - SECURITY PLAN

SHEET NUMBER

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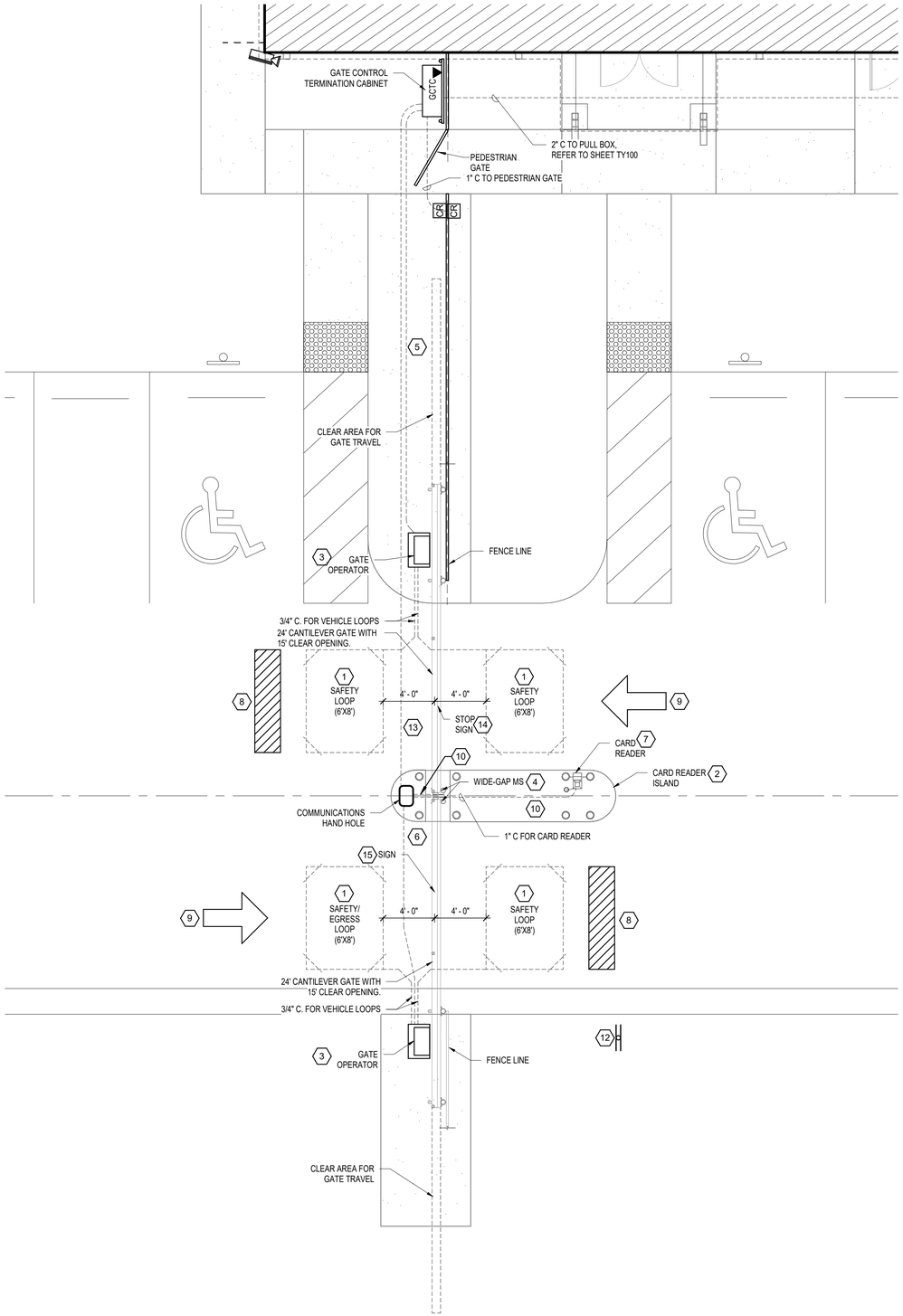

1 TY102

GATE LAYOUT PLAN - CBP PARKING LOT ENTRY/EXIT GATE

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

KEYED NOTES:

1. PROVIDE IN-GROUND VEHICLE DETECTION LOOP, REFER TO DETAIL 3 ON SHEET TY511 FOR ADDITIONAL INFORMATION.
2. PROVIDE CARD READER ISLAND AND BOLLARDS, REFER TO DETAIL 1 ON SHEET TY510 FOR ADDITIONAL INFORMATION.
3. PROVIDE GATE OPERATOR WITH HYDRAULIC MOTOR AND ALUMINUM DRIVE RAIL, REFER TO DETAIL 1 AND 2 ON SHEET TY509.
4. PROVIDE WIDE-GAP MAGNETIC SWITCH TO MONITOR GATE POSITION, REFER TO DETAIL 1 ON SHEET TY509.
5. ONE (1) 1-1/2" BURIED PVC CONDUIT TO ENTRY LANE GATE OPERATOR.
6. ONE (1) 1-1/2" BURIED PVC CONDUIT TO EXIT LANE GATE OPERATOR.
7. PROVIDE CARD READER MOUNTED TO PEDESTAL, REFER TO DETAIL 2 ON SHEET TY510 FOR ADDITIONAL INFORMATION.
8. 2' x 8' PAINTED STRIPE. REFER TO DETAIL 4 ON SHEET TY509.
9. ARROW REPRESENTS DIRECTION OF TRAFFIC FLOW (NOT A PAINTED MARKER).
10. ONE (1) 3/4" BURIED PVC CONDUIT TO ENTRY LANE CARD READER.
11. ONE (1) 1" BURIED PVC CONDUIT TO WEATHER PROOF JUNCTION BOX FOR WIDE-GAP MAGNETIC SWITCHES.
12. PROVIDE SIGN THAT READS "PULL BEYOND PAINTED STRIPE AND WAIT FOR GATE TO CLOSE" AND "DO NOT ENTER WRONG WAY". REFER TO DETAIL 4 ON SHEET TY511 AND DETAIL 5 ON SHEET TY510.
13. ONE (1) 1-1/2" BURIED PVC CONDUIT BETWEEN GCTC AND SECURITY HAND HOLE.
14. PROVIDE STOP SIGN MOUNTED TO GATE. REFER TO DETAIL 4 ON SHEET TY510.
15. PROVIDE SIGN THAT READS "APPROACH SLOWLY GATE WILL OPEN" MOUNTED TO GATE. REFER TO DETAIL 5 ON SHEET TY511.

SEQUENCE OF OPERATION: CBP PARKING GATE

VEHICLE GATE ENTRY

1. INITIALLY THE GATE WILL BE CLOSED, THE GATE SHALL BE SECURED VIA THE AUTOMATED SLIDING GATE OPERATOR.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE GATE TO OPEN AND THE WIDE-GAP MS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE GATE WILL REMAIN OPEN FOR A PROGRAMMABLE PERIOD OF TIME, ALLOWING THE VEHICLE TO PROCEED THROUGH THE GATE. AFTER THE GATE OPEN TIME EXPIRES (PROGRAMMED IN THE GATE OPERATOR), THE GATE WILL ATTEMPT TO CLOSE.
4. AS A SAFETY FEATURE, THE GATE WILL NOT CLOSE AS LONG AS ONE OR BOTH OF THE SAFETY LOOPS ADJACENT TO THE GATE DETECT A METAL OBJECT OR SAFETY EDGE IS TRIGGERED. IF THE VEHICLE HAS NOT PROCEEDED BEYOND THE LOOP THE TIMER SHALL RESET EVERY TEN (10) SECONDS AND CHECK AGAIN FOR A METAL OBJECT OR OBSTRUCTION UNTIL THE GATE CLOSES.
5. VEHICLE OPERATORS WILL BE INSTRUCTED TO STOP PAST THE STRIPED LINE (STOP BAR) BEYOND THE SAFETY LOOP UNTIL THE GATE FULLY CLOSES BEHIND THEM TO PREVENT TAILGATERS (VEHICLES ATTEMPTING TO ENTER BEHIND WITHOUT PRESENTING A VALID CARD).
6. UPON CLOSURE OF THE GATE SENSED BY THE WIDE-GAP MAGNETIC CONTACT, THE GATE SHALL BE SECURE.

VEHICLE GATE EXIT

1. INITIALLY THE GATE WILL BE CLOSED, THE GATE SHALL BE SECURED VIA THE AUTOMATED SLIDING GATE OPERATOR. THE GATE WILL ALLOW EGRESS UPON ACTIVATION OF THE VEHICLE DETECTION LOOP.
2. A VEHICLE THAT APPROACHES THE GATE WILL ACTIVATE THE EGRESS/SAFETY LOOP SENDING A SIGNAL THE ACS. THE WIDE-GAP MS SHALL BE SHUNTED FOR A USER-DEFINED PERIOD OF TIME AND A SIGNAL FROM THE ACS SHALL CAUSE THE GATE OPERATOR TO OPEN THE GATE FOR A PREPROGRAMMED PERIOD OF TIME.
3. THE GATE WILL REMAIN OPEN FOR A PROGRAMMABLE PERIOD OF TIME, ALLOWING THE VEHICLE TO PROCEED THROUGH THE GATE. AFTER THE GATE OPEN TIME EXPIRES (PROGRAMMED IN THE GATE OPERATOR), THE GATE WILL ATTEMPT TO CLOSE.
4. AS A SAFETY FEATURE, THE GATE WILL NOT CLOSE AS LONG AS ONE OR BOTH OF THE SAFETY LOOPS ADJACENT TO THE GATE DETECT A METAL OBJECT OR SAFETY EDGE IS TRIGGERED. IF THE VEHICLE HAS NOT PROCEEDED BEYOND THE LOOP THE TIMER SHALL RESET EVERY TEN (10) SECONDS AND CHECK AGAIN FOR A METAL OBJECT OR OBSTRUCTION UNTIL THE GATE CLOSES.
5. VEHICLE OPERATORS WILL BE INSTRUCTED TO STOP PAST THE STRIPED LINE (STOP BAR) BEYOND THE SAFETY LOOP UNTIL THE GATE FULLY CLOSES BEHIND THEM TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING.
6. UPON CLOSURE OF THE GATE SENSED BY THE WIDE-GAP MAGNETIC CONTACT, THE GATE SHALL BE SECURE.

ADDITIONAL NOTES:

1. A FIXED CAMERA WILL PROVIDE A FULL VIEW OF THE GATE AREA. THE CAMERA MAY BE VIEWED ON AN ACS/VMS WORKSTATION.
2. PRESENTING AN INVALID CARD SHALL NOT OPEN THE GATE AND THE EVENT WILL BE LOGGED BY THE ACS.
3. UNAUTHORIZED OPERATION OF THE GATE SENSED BY THE WIDE-GAP MS, SUCH AS MANUALLY OPENING THE GATE, SHALL ACTIVATE A DOOR FORCED ALARM. AN ALARM SHALL BE SENT TO THE ALARM MONITORING WORKSTATION.
4. PERSONS WITH BADGE READ ERRORS OR WHO DO NOT HAVE THEIR BADGE MAY PARK IN THE PUBLIC PARKING AND PROCEED TO THE INTERCOM STATION IN THE LOBBY FOR ASSISTANCE.
5. THE ALARM MONITORING WORKSTATION LOCATED IN THE SUPERVISORS OFFICE WILL BE CAPABLE OF REMOTELY OPERATING ANY GATE, DOOR OR CAMERA CONTROLLED BY THE SYSTEM.
6. THE FINAL SEQUENCE OF OPERATION FOR ALL GATES, CAMERA VIEW AND ALARM CUE-UP SHALL BE COORDINATED WITH AND APPROVED BY CBP.
7. AN EDGE SENSOR INSTALLED ON THE LEADING EDGE OF THE GATE PANEL SHALL BE CONNECTED TO THE GATE OPERATOR VIA A WIRELESS TRANSMITTER/RECEIVER. UPON ACTIVATION OF THE SENSING EDGE THE GATE OPERATOR SHALL BE SIGNALED TO REVERSE THE DIRECTION OF TRAVEL.

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
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DESIGNED BY:	RJF

PROJECT NUMBER:

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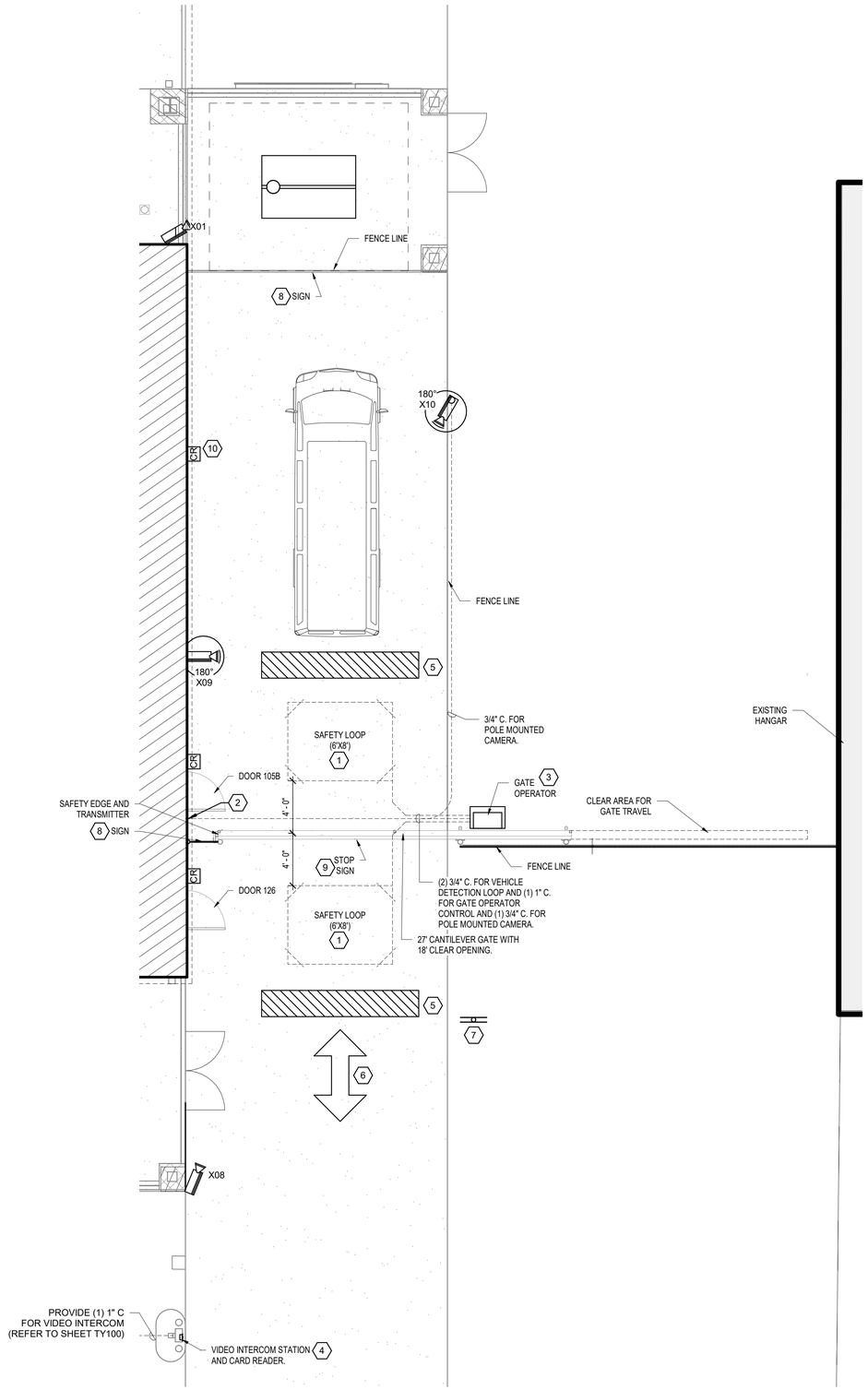
SHEET TITLE

ENLARGED PLAN - CBP GATE

SHEET NUMBER

TY102

BID DOCUMENTS



1 TY103 SITE PLAN - SECURITY - SALLY PORT GATE DETAIL

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

KEYED NOTES:

1. PROVIDE IN-GROUND VEHICLE DETECTION LOOP. REFER TO DETAIL 3 ON SHEET TY511 FOR ADDITIONAL INFORMATION.
2. ROUTE GATE OPERATOR CONTROL CAMERA AND POLE MOUNTED CAMERA CONDUITS INTO BUILDING AND CONNECT TO KS BACK BOX FOR ROUTING TO ACS PANEL.
3. PROVIDE GATE OPERATOR WITH HYDRAULIC MOTOR AND ALUMINUM DRIVE RAIL, REFER TO DETAIL 1 AND 2 ON SHEET TY509.
4. PROVIDE VIDEO INTERCOM AND CARD READER MOUNTED TO PEDESTAL. REFER TO DETAILS 1 AND 2 ON SHEET TY511 FOR ADDITIONAL INFORMATION.
5. 2' x 8' PAINTED STRIPE. REFER TO DETAIL 4 ON SHEET TY509.
6. ARROW REPRESENTS DIRECTION OF TRAFFIC FLOW (NOT A PAINTED MARKER).
7. PROVIDE SIGN THAT READS "PULL AHEAD OF PAINTED STRIPE AND WAIT FOR GATE TO CLOSE". REFER TO DETAIL 4 ON SHEET TY511.
8. PROVIDE SIGN THAT READS "BACKUP SLOWLY". REFER TO DETAIL 5 ON SHEET TY509.
9. PROVIDE STOP SIGN MOUNTED TO GATE. REFER TO DETAIL 4 ON SHEET TY510.
10. PROVIDE WALL MOUNTED CARD READER FOR GATE EGRESS, REFER TO DETAIL 6 ON SHEET TY506 FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATION: DETAINEE TRANSFER GATE

VEHICLE GATE ENTRY

1. INITIALLY THE GATE WILL BE CLOSED, THE GATE SHALL BE SECURED VIA THE AUTOMATED SLIDING GATE OPERATOR.
2. TO OPEN THE GATE FOR ENTRY, A BADGED PERSON MAY USE THE PEDESTAL MOUNTED CARD READER, THE WALL MOUNTED CARD READER INSIDE THE DETAINEE TRANSFER AREA OR THE DESIGNATED CARD READER IN THE DETENTION CORRIDOR. AN UNBADGED DRIVER WILL USE THE PEDESTAL MOUNTED VIDEO INTERCOM STATION TO CONTACT CBP. THE INTERCOM SYSTEM SHALL BE INTERFACED WITH THE ACS TO SIGNAL THE GATE TO OPEN.
3. A WALL MOUNTED MONITOR IN THE DETENTION CORRIDOR SHALL ALLOW CBP TO OBSERVE THE GATE AREA.
4. UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED) OR A SIGNAL FROM THE INTERCOM SYSTEM, THE ACS SHALL SIGNAL THE GATE TO OPEN AND THE WIDE-GAP MS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
5. THE GATE WILL REMAIN OPEN FOR A PROGRAMMABLE PERIOD OF TIME, ALLOWING THE VEHICLE TO PROCEED THROUGH THE GATE. AFTER THE GATE OPEN TIME EXPIRES (PROGRAMMED IN THE GATE OPERATOR) OR UPON COMMAND FROM THE ACS, THE GATE WILL ATTEMPT TO CLOSE.
6. AS A SAFETY FEATURE, THE GATE WILL NOT CLOSE AS LONG AS THE SAFETY LOOP ADJACENT TO THE GATE DETECTS A METAL OBJECT OR SAFETY EDGE IS TRIGGERED. IF THE VEHICLE HAS NOT PROCEEDED BEYOND THE LOOP, THE TIMER SHALL RESET EVERY TEN (10) SECONDS AND CHECK AGAIN FOR A METAL OBJECT OR OBSTRUCTION UNTIL THE GATE CLOSES.
7. VEHICLE OPERATORS WILL BE INSTRUCTED TO STOP PAST THE STRIPED LINE (STOP BAR) BEYOND THE IN-GROUND VEHICLE DETECTION LOOPS TO ALLOW THE GATE TO CLOSE BEHIND THEM.

VEHICLE GATE EXIT

1. INITIALLY THE GATE WILL BE CLOSED, THE GATE SHALL BE SECURED VIA THE AUTOMATED SLIDING GATE OPERATOR.
2. TO OPEN THE GATE FOR EGRESS, A BADGED PERSON MAY USE THE WALL MOUNTED CARD READER INSIDE THE DETAINEE TRANSFER AREA OR THE DESIGNATED CARD READER IN THE DETENTION CORRIDOR.
3. A WALL MOUNTED MONITOR IN THE DETENTION CORRIDOR SHALL ALLOW CBP TO OBSERVE THE GATE AREA.
4. UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE GATE TO OPEN AND THE WIDE-GAP MS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
5. THE GATE WILL REMAIN OPEN FOR A PROGRAMMABLE PERIOD OF TIME, ALLOWING THE VEHICLE TO PROCEED THROUGH THE GATE. AFTER THE GATE OPEN TIME EXPIRES (PROGRAMMED IN THE GATE OPERATOR), THE GATE WILL ATTEMPT TO CLOSE.
6. AS A SAFETY FEATURE, THE GATE WILL NOT CLOSE AS LONG AS ONE OR BOTH OF THE SAFETY LOOPS ADJACENT TO THE GATE DETECT A METAL OBJECT OR SAFETY EDGE IS TRIGGERED. IF THE VEHICLE HAS NOT PROCEEDED BEYOND THE LOOP THE TIMER SHALL RESET EVERY TEN (10) SECONDS AND CHECK AGAIN FOR A METAL OBJECT OR OBSTRUCTION UNTIL THE GATE CLOSES.
7. VEHICLE OPERATORS WILL BE INSTRUCTED TO STOP PAST THE STRIPED LINE (STOP BAR) BEYOND THE SAFETY LOOP UNTIL THE GATE FULLY CLOSES BEHIND THEM TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING.

ADDITIONAL NOTES:

1. FIXED 180° CAMERAS WILL PROVIDE A FULL VIEW OF THE GATE AREA. THE CAMERAS MAY BE VIEWED ON A WALL MOUNTED MONITOR IN THE DETENTION CORRIDOR OR AN ACS/VMS WORKSTATION.
2. AN EDGE SENSOR INSTALLED ON THE LEADING EDGE OF THE GATE PANEL SHALL BE CONNECTED TO THE GATE OPERATOR VIA A WIRELESS TRANSMITTER/RECEIVER. UPON ACTIVATION OF THE SENSING EDGE THE GATE OPERATOR SHALL BE SIGNALED TO REVERSE THE DIRECTION OF TRAVEL.
3. UNAUTHORIZED OPERATION OF THE GATE SENSED BY THE WIDE-GAP MS, SUCH AS MANUALLY OPENING THE GATE, SHALL ACTIVATE A DOOR FORCED ALARM. AN ALARM SHALL BE SENT TO THE ALARM MONITORING WORKSTATION.
4. THE ALARM MONITORING WORKSTATION LOCATED IN THE SUPERVISORS OFFICE WILL BE CAPABLE OF REMOTELY OPERATING ANY GATE, DOOR OR CAMERA CONTROLLED BY THE SYSTEM.
5. THE FINAL SEQUENCE OF OPERATION FOR ALL GATES, CAMERA VIEWS AND ALARM CUE-UP SHALL BE COORDINATED WITH AND APPROVED BY CBP.

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NO.	DESCRIPTION	DATE

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DESIGNED BY:	RJF

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ENLARGED PLAN - DETENTION GATE

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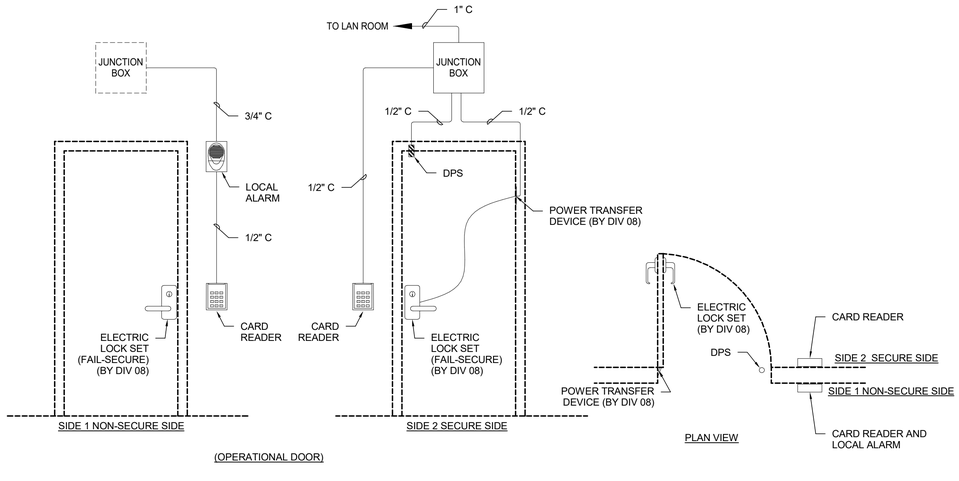
Sheet Size: ARCH E 22X34

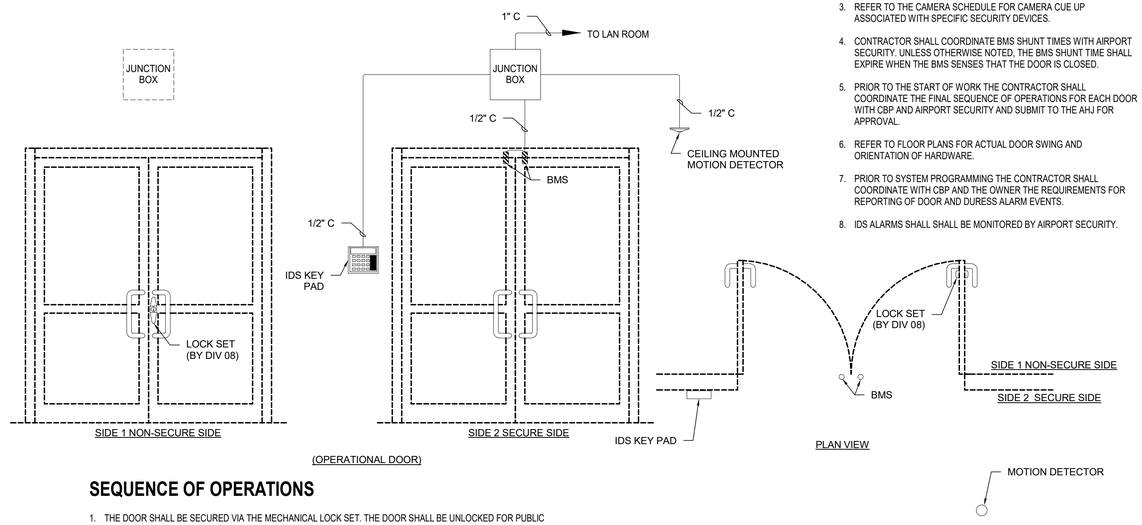


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK. THE LOCK SHALL FAIL SECURE ON BOTH SIDES.
2. TO ENTER OR EXIT, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
4. THE ACS SHALL ACTIVATE THE LOCAL ALARM DEVICE WHEN A DURESS BUTTON WITHIN THE DETENTION SUITE IS ACTIVATED. THE ALARM SHALL BE RESET BY THE KEYSWITCH ASSOCIATED WITH THE ACTIVE DEVICE.

4 TY501 SECURITY DOOR - TYPE 4

SCALE: N.T.S.

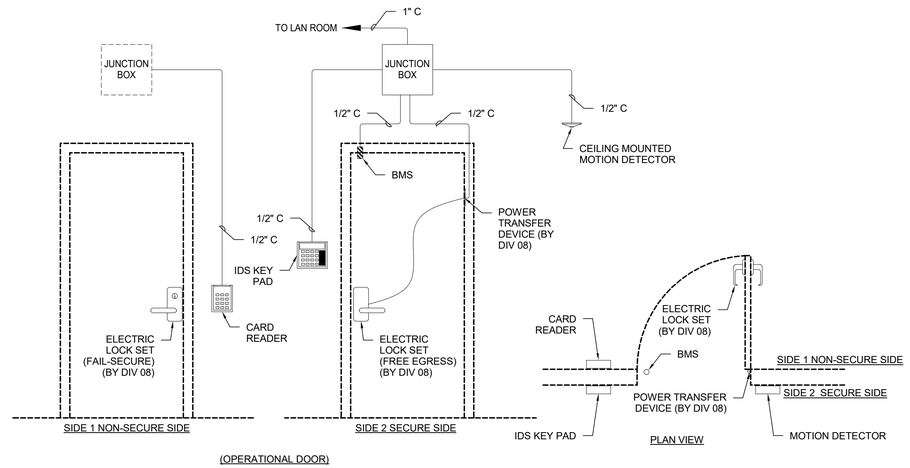


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE MECHANICAL LOCK SET. THE DOOR SHALL BE UNLOCKED FOR PUBLIC ACCESS DURING NORMAL BUSINESS HOURS.
2. WHEN THE IDS IS ARMED THE THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE BMS SHALL ACTIVATE A DOOR FORCED ALARM. THE IDS SHALL ANNUNCIATE THE ALARM ON THE IDS KEYPAD AND SEND A SIGNAL TO THE MONITORING WORKSTATION.
3. THE ALARM MUST BE CLEARED FROM AN IDS KEY PAD OR THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

3 TY501 SECURITY DOOR - TYPE 3

SCALE: N.T.S.

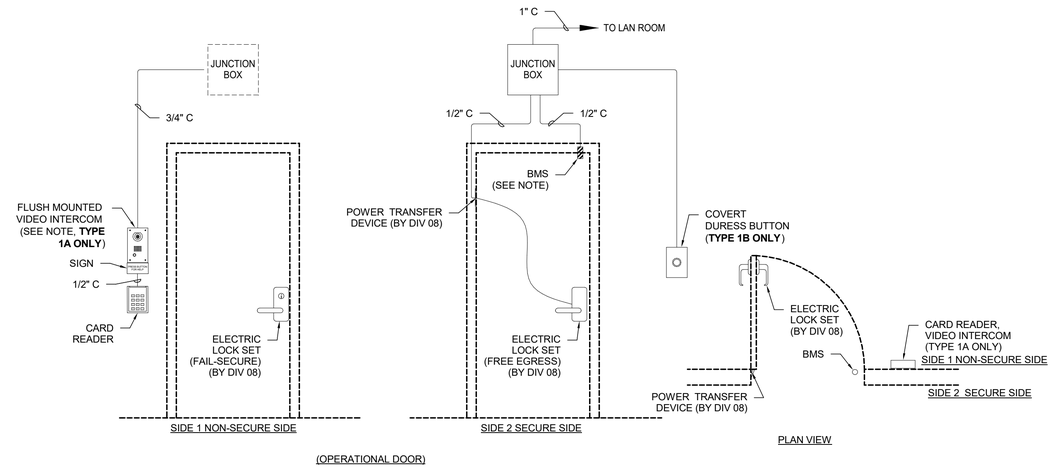


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE BMS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE BMS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

2 TY501 SECURITY DOOR - TYPE 2

SCALE: N.T.S.



SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE BMS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE BMS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

NOTES:

FOR DOOR TYPE 1A (DOOR 113B), PROVIDE WALL MOUNTED VIDEO INTERCOM AND DPS IN LIEU OF BMS.

1 TY501 SECURITY DOOR - TYPE 1

SCALE: N.T.S.

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS AND DESCRIBE SECURITY HARDWARE OPERATIONS.
2. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH DOOR AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.
4. CONTRACTOR SHALL COORDINATE BMS SHUNT TIMES WITH AIRPORT SECURITY. UNLESS OTHERWISE NOTED, THE BMS SHUNT TIME SHALL EXPIRE WHEN THE BMS SENSES THAT THE DOOR IS CLOSED.
5. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE THE FINAL SEQUENCE OF OPERATIONS FOR EACH DOOR WITH CBP AND AIRPORT SECURITY AND SUBMIT TO THE AHJ FOR APPROVAL.
6. REFER TO FLOOR PLANS FOR ACTUAL DOOR SWING AND ORIENTATION OF HARDWARE.
7. PRIOR TO SYSTEM PROGRAMMING THE CONTRACTOR SHALL COORDINATE WITH CBP AND THE OWNER THE REQUIREMENTS FOR REPORTING OF DOOR AND DURESS ALARM EVENTS.
8. IDS ALARMS SHALL SHALL BE MONITORED BY AIRPORT SECURITY.

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DRAWN BY:	VJM
DESIGNED BY:	RJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SECURITY DOOR DETAILS

SHEET NUMBER

TY501

BID DOCUMENTS

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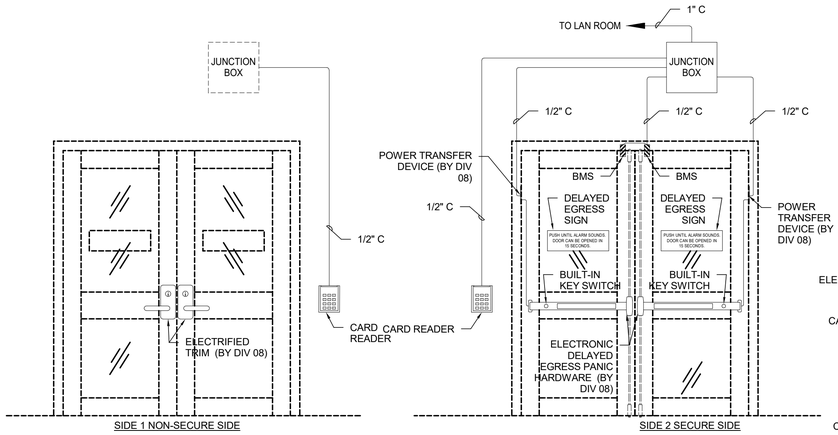
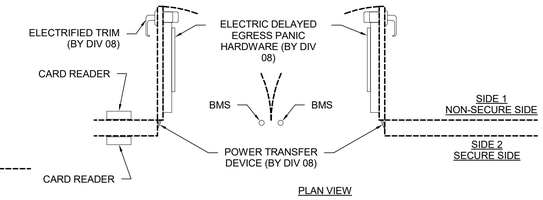


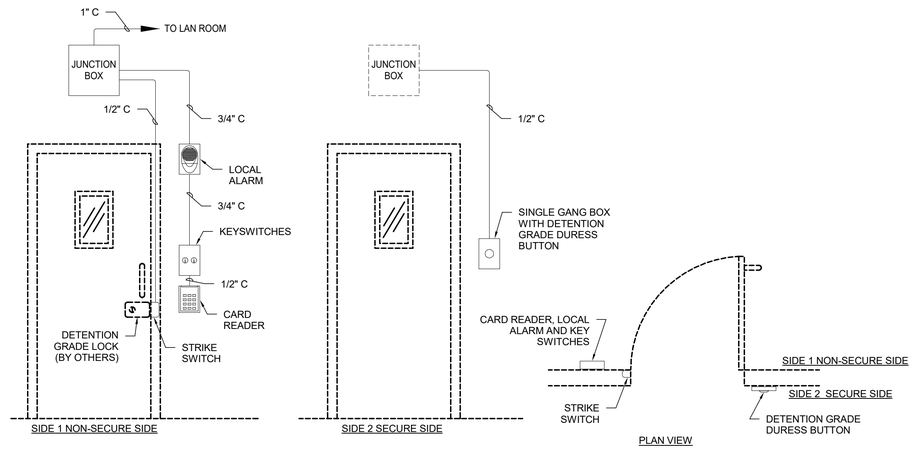


SEQUENCE OF OPERATIONS

1. THE DOORS SHALL BE SECURED VIA THE ELECTRIFIED INTERNAL VERTICAL RODS ACTIVATED BY THE ELECTRONIC PUSH BAR WITH TIME DELAY, THE LOCK SHALL FAIL SAFE.
2. TO ENTER/EXIT, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. DEPRESSING THE PUSH PAD FOR LESS THAN TWO SECONDS SHALL GENERATE AN AUDIBLE ALARM WITHIN THE ELECTRONIC PUSH BAR.
4. WHEN THE PUSH PAD IS DEPRESSED FOR LONGER THAN TWO SECONDS WITHOUT A VALID CARD READ AN IRREVERSIBLE COUNTDOWN SHALL BE INITIATED, THERE SHALL BE AN AUDIBLE ALARM FROM WITHIN THE ELECTRONIC PUSH BAR AND AN ALARM SHALL BE SENT TO THE MONITORING STATION. THE BOTH DOORS SHALL UNLOCK AFTER A 15 SECOND DELAY.
5. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY EITHER BMS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING STATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
6. THE DOOR SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM TO RELEASE THE LOCK WITHOUT DELAY IN THE EVENT OF A FIRE ALARM.
7. REFER TO THE FLOOR PLAN FOR REMOTE DOOR RELEASE PUSH BUTTONS LOCATED IN THE PRIMARY PASSENGER PROCESSING PODIUMS. UPON ACTIVATION OF AN ASSOCIATED REMOTE DOOR RELEASE PUSH BUTTON, THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.

3 TY502 SECURITY DOOR - TYPE 7

SCALE: N.T.S.



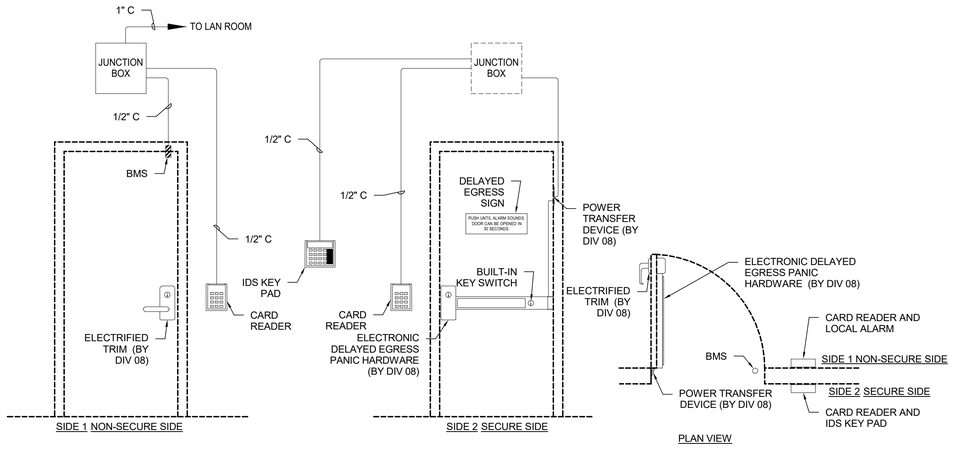
(OPERATIONAL DOOR)

SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE MECHANICAL LOCK.
2. WHEN THE ROOM IS USED TO HOLD A DETAINEE THE MECHANICAL LOCK SHALL BE LATCHED. A SWITCH INSIDE THE STRIKE SHALL SIGNAL THE ACS AND START A FIFTEEN (15) MINUTE TIMER. A CBP OFFICER SHALL PRESENT THEIR CARD TO THE GUARD TOUR CARD READER WHICH SHALL RESTART THE FIFTEEN (15) MINUTE TIMER. OFFICERS SHALL CHECK BACK EVERY FIFTEEN (15) MINUTES TO VISUALLY OBSERVE THE DETAINEE AND PRESENT THEIR CARD TO RESTART THE TIMER.
3. IN THE EVENT AN OFFICER DOES NOT PRESENT THEIR CARD WITHIN THE ALLOTTED TIME THE ACS SHALL ACTIVATE A LOCAL ALARM OUTSIDE THE HOLD ROOM, AND OTHER LOCATIONS AS COORDINATED WITH CBP.
4. A KEY SWITCH OUTSIDE THE ROOM SHALL BE USED TO RESET OR DISABLE THE DURESS PUSHBUTTON ALARM INSIDE THE HOLD ROOM.
5. A SEPARATE KEY SWITCH OUTSIDE THE ROOM SHALL BE USED TO CONTROL THE ELECTRONIC FLUSH VALVE FOR THE TOILET INSIDE THE HOLD ROOM.
6. WHEN ENABLED, DEPRESSING THE DURESS PUSHBUTTON SHALL ACTIVATE THE LOCAL ALARM DEVICE AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ACS SHALL ALSO ACTIVATE THE LOCAL ALARMS OUTSIDE THE DETENTION SUITE CORRIDOR DOOR, AND OTHER LOCATIONS AS COORDINATED WITH CBP.
7. THE KEY SWITCH SHALL BE ABLE TO RESET THE ALARM DEVICES BUT SHALL NOT CLEAR THE ALARM EVENT FROM THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

2 TY502 SECURITY DOOR - TYPE 6

SCALE: N.T.S.



(TERMINAL OPERATIONAL DOOR)

SEQUENCE OF OPERATIONS

1. THE DOORS SHALL BE SECURED VIA THE ELECTRONIC PUSH BAR WITH TIME DELAY, THE LOCK SHALL FAIL SAFE.
2. TO ENTER/EXIT, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. DEPRESSING THE PUSH PAD FOR LESS THAN TWO SECONDS SHALL GENERATE AN AUDIBLE ALARM WITHIN THE ELECTRONIC PUSH BAR.
4. WHEN THE PUSH PAD IS DEPRESSED FOR LONGER THAN TWO SECONDS WITHOUT A VALID CARD READ AN IRREVERSIBLE COUNTDOWN SHALL BE INITIATED, THERE SHALL BE AN AUDIBLE ALARM FROM WITHIN THE ELECTRONIC PUSH BAR AND AN ALARM SHALL BE SENT TO THE MONITORING STATION. THE DOOR SHALL UNLOCK AFTER A 30 SECOND DELAY.
5. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE BMS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING STATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
6. THE DOOR SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM TO RELEASE THE LOCK WITHOUT DELAY IN THE EVENT OF A FIRE ALARM.

NOTES:

1. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE AHJ PRIOR TO ORDERING DELAYED PANIC HARDWARE WITH 30 SECOND DELAY.

1 TY502 SECURITY DOOR - TYPE 5

SCALE: N.T.S.

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS AND DESCRIBE SECURITY HARDWARE OPERATIONS.
2. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH DOOR AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.
4. CONTRACTOR SHALL COORDINATE BMS SHUNT TIMES WITH AIRPORT SECURITY. UNLESS OTHERWISE NOTED, THE BMS SHUNT TIME SHALL EXPIRE WHEN THE BMS SENSES THAT THE DOOR IS CLOSED.
5. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE THE FINAL SEQUENCE OF OPERATIONS FOR EACH DOOR WITH CBP AND AIRPORT SECURITY AND SUBMIT TO THE AHJ FOR APPROVAL.
6. REFER TO FLOOR PLANS FOR ACTUAL DOOR SWING AND ORIENTATION OF HARDWARE.
7. PRIOR TO SYSTEM PROGRAMMING THE CONTRACTOR SHALL COORDINATE WITH CBP AND THE OWNER THE REQUIREMENTS FOR REPORTING OF DOOR AND DURESS ALARM EVENTS.
8. IDS ALARMS SHALL SHALL BE MONITORED BY AIRPORT SECURITY.

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SVS
DRAWN BY:	VJM
DESIGNED BY:	RJF

PROJECT NUMBER:

201-0052-002

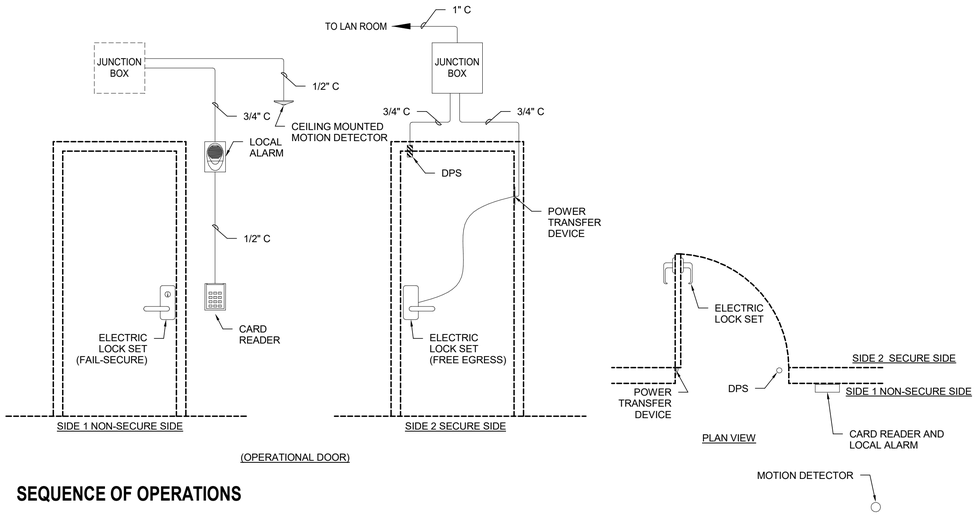
SHEET TITLE

SECURITY DOOR DETAILS

SHEET NUMBER

TY502

BID DOCUMENTS

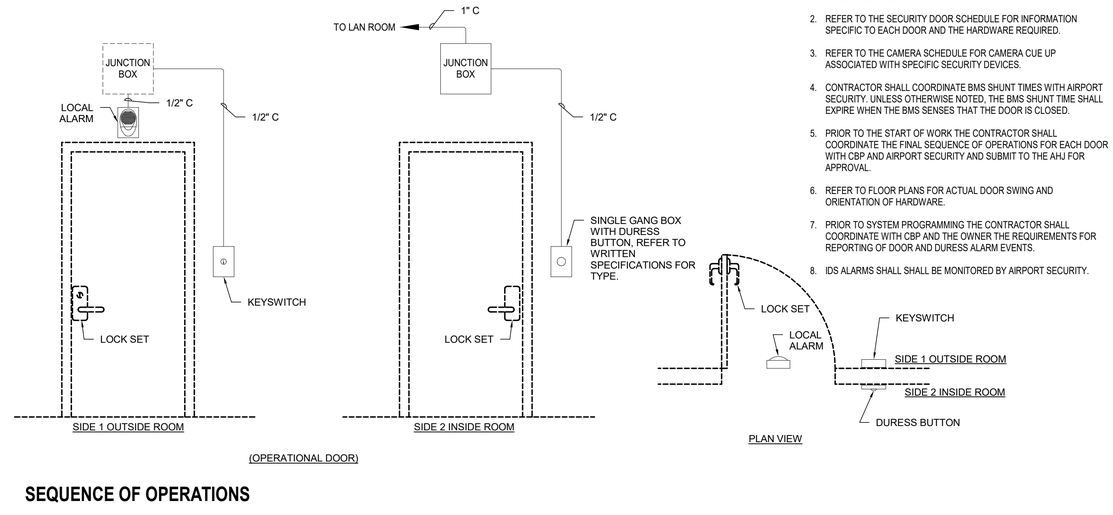


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE DPS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
5. THE ACS SHALL ACTIVATE THE LOCAL ALARM DEVICE WHEN A DURESS BUTTON WITHIN THE ADMIN SUITE IS ACTIVATED. THE ALARM SHALL BE RESET BY THE KEYSWITCH ASSOCIATED WITH THE ACTIVE DEVICE.

4 TY503 SECURITY DOOR - TYPE 11

SCALE: N.T.S.

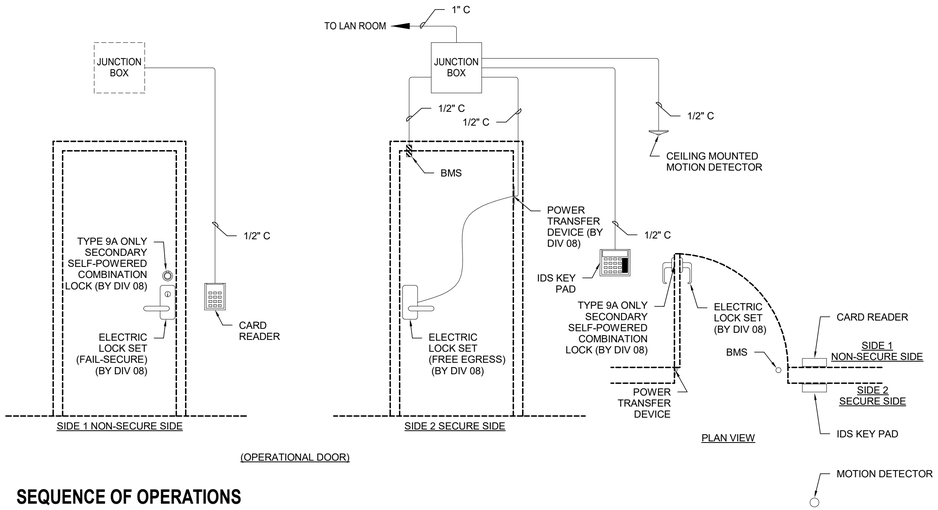


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE MECHANICAL LOCK.
2. A KEYSWITCH OUTSIDE THE ROOM SHALL BE USED TO RESET THE DURESS PUSHBUTTON ALARM.
3. DEPRESSING THE DURESS PUSHBUTTON SHALL ACTIVATE THE LOCAL ALARM DEVICE AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ACS SHALL ALSO ACTIVATE THE LOCAL ALARM OUTSIDE THE DETENTION SUITE OR ADMIN CORRIDOR DOORS, AND OTHER LOCATIONS AS COORDINATED WITH CBP.
4. THE KEYSWITCH SHALL BE ABLE TO RESET THE ALARM DEVICES BUT SHALL NOT CLEAR THE ALARM EVENT FROM THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

3 TY503 SECURITY DOOR - TYPE 10

SCALE: N.T.S.

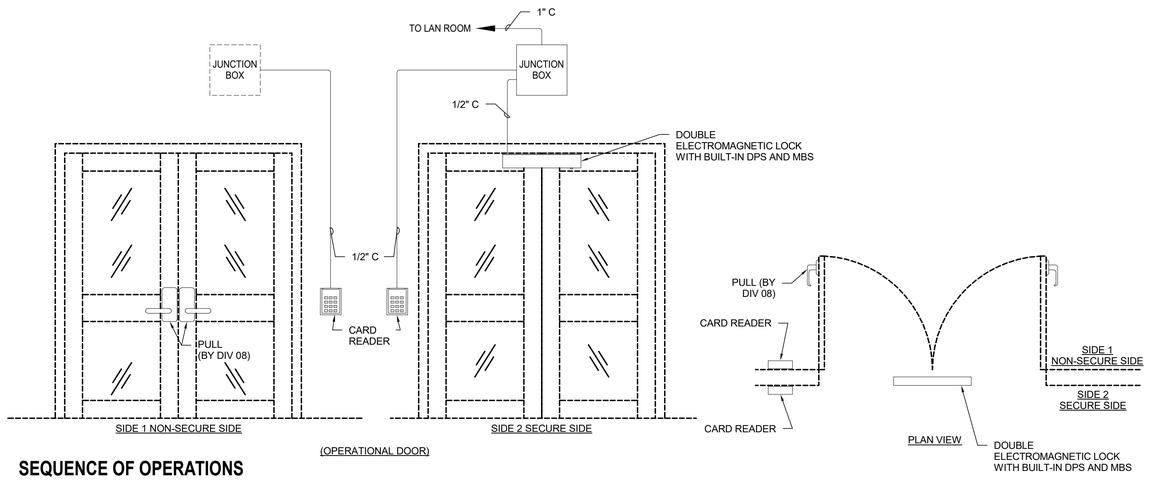


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. THE IDS KEY PAN SHALL BE USED TO ARM AND DISARM THE INTRUSION DETECTION ZONE (MOTION DETECTOR) WITHIN THE ROOM.
3. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED) THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE BMS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
4. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE BMS FOR A (USER DEFINED) PERIOD OF TIME.
5. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES THE BMS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE BMS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL ACTIVATE THE LOCAL ALARM DEVICE AND AN ALARM SHALL BE SENT TO THE ALARM MONITORING WORKSTATION.
6. WHEN ARMED, THE INTRUSION DETECTION ZONE (MOTION DETECTOR) SHALL MONITOR THE ROOM FOR UNAUTHORIZED ACCESS. IF TRIGGERED, THE ACS SHALL ACTIVATE THE LOCAL ALARM DEVICE AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION.
7. THE IDS KEY PAD SHALL BE ABLE TO SILENCE THE AUDIBLE ALARM.

2 TY503 SECURITY DOOR - TYPE 9

SCALE: N.T.S.



SEQUENCE OF OPERATIONS

1. THE DOORS SHALL BE SECURED VIA THE DOUBLE ELECTROMAGNETIC LOCK WITH BUILT-IN DPS AND MBS, THE LOCK SHALL FAIL SAFE.
2. TO ENTER OR EXIT, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL RELEASE THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
4. OPERATION OF A DESIGNATED REMOTE DOOR RELEASE PUSHBUTTON CONNECTED TO THE ACS SHALL RELEASE THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
5. THE DOOR SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM TO RELEASE THE LOCK WITHOUT DELAY IN THE EVENT OF A FIRE ALARM.
6. REFER TO THE FLOOR PLAN FOR REMOTE DOOR RELEASE PUSH BUTTONS LOCATED IN THE PRIMARY PASSENGER PROCESSING PODIUMS. UPON ACTIVATION OF AN ASSOCIATED REMOTE DOOR RELEASE PUSH BUTTON, THE ACS SHALL SIGNAL THE LOCK TO RELEASE AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.

1 TY503 SECURITY DOOR - TYPE 8

SCALE: N.T.S.

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS AND DESCRIBE SECURITY HARDWARE OPERATIONS.
2. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH DOOR AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.
4. CONTRACTOR SHALL COORDINATE BMS SHUNT TIMES WITH AIRPORT SECURITY. UNLESS OTHERWISE NOTED, THE BMS SHUNT TIME SHALL EXPIRE WHEN THE BMS SENSES THAT THE DOOR IS CLOSED.
5. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE THE FINAL SEQUENCE OF OPERATIONS FOR EACH DOOR WITH CBP AND AIRPORT SECURITY AND SUBMIT TO THE AHJ FOR APPROVAL.
6. REFER TO FLOOR PLANS FOR ACTUAL DOOR SWING AND ORIENTATION OF HARDWARE.
7. PRIOR TO SYSTEM PROGRAMMING THE CONTRACTOR SHALL COORDINATE WITH CBP AND THE OWNER THE REQUIREMENTS FOR REPORTING OF DOOR AND DURESS ALARM EVENTS.
8. IDS ALARMS SHALL SHALL BE MONITORED BY AIRPORT SECURITY.

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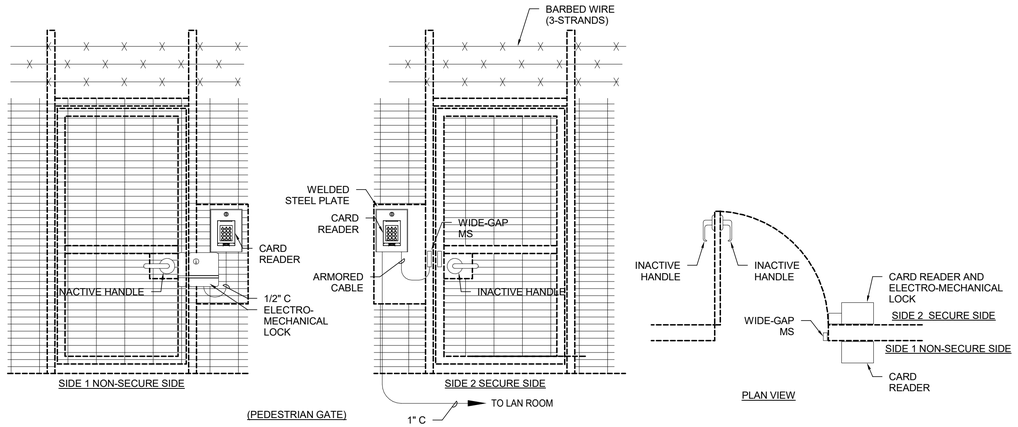
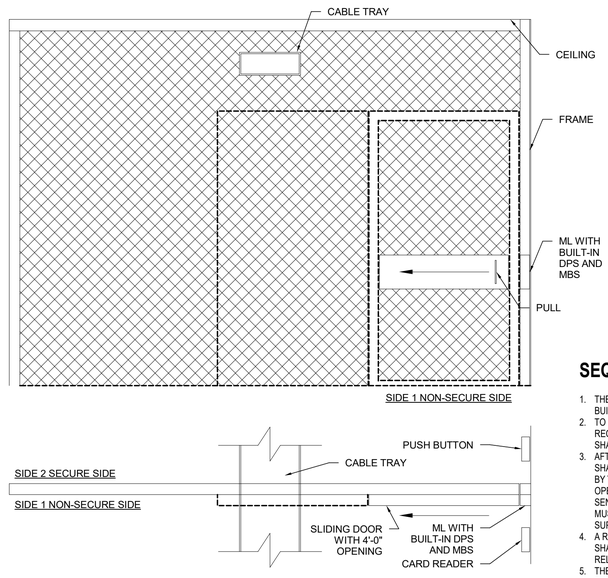


SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTROMECHANICAL LOCK WITH KEYED OVERRIDE. THE LOCK SHALL FAIL SECURE.
2. TO ENTER OR EXIT, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE WIDE-GAP DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.



NOTES:

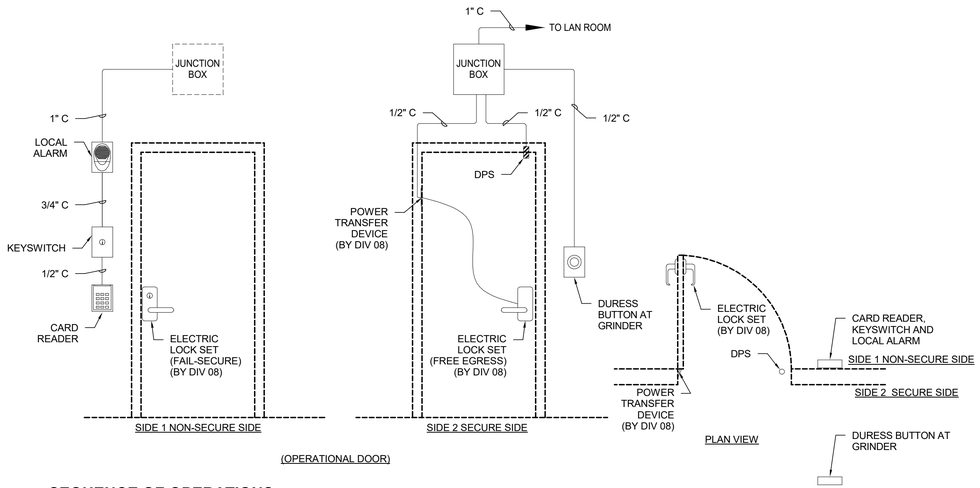
1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS AND DESCRIBE SECURITY HARDWARE OPERATIONS.
2. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH DOOR AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.
4. CONTRACTOR SHALL COORDINATE BMS SHUNT TIMES WITH AIRPORT SECURITY. UNLESS OTHERWISE NOTED, THE BMS SHUNT TIME SHALL EXPIRE WHEN THE BMS SENSES THAT THE DOOR IS CLOSED.
5. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE THE FINAL SEQUENCE OF OPERATIONS FOR EACH DOOR WITH CBP AND AIRPORT SECURITY AND SUBMIT TO THE AHJ FOR APPROVAL.
6. REFER TO FLOOR PLANS FOR ACTUAL DOOR SWING AND ORIENTATION OF HARDWARE.
7. PRIOR TO SYSTEM PROGRAMMING THE CONTRACTOR SHALL COORDINATE WITH CBP AND THE OWNER THE REQUIREMENTS FOR REPORTING OF DOOR AND DURESS ALARM EVENTS.
8. IDS ALARMS SHALL SHALL BE MONITORED BY AIRPORT SECURITY.

SEQUENCE OF OPERATIONS

1. THE DOORS SHALL BE SECURED VIA THE ELECTROMAGNETIC LOCK WITH BUILT-IN DPS AND MBS, THE LOCK SHALL FAIL SAFE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL RELEASE THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
4. A REQUEST TO EXIT SIGNAL FROM THE WALL MOUNTED PUSH BUTTON SHALL SHUNT THE DPS FOR A (USER DEFINED) PERIOD OF TIME AND RELEASE THE MAGNETIC LOCK BY DIRECTLY INTERRUPTING THE POWER.
5. THE DOOR SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM TO RELEASE THE LOCK WITHOUT DELAY IN THE EVENT OF A FIRE ALARM.

4 TY504 SECURITY DOOR - TYPE 15

SCALE: N.T.S.



SEQUENCE OF OPERATIONS

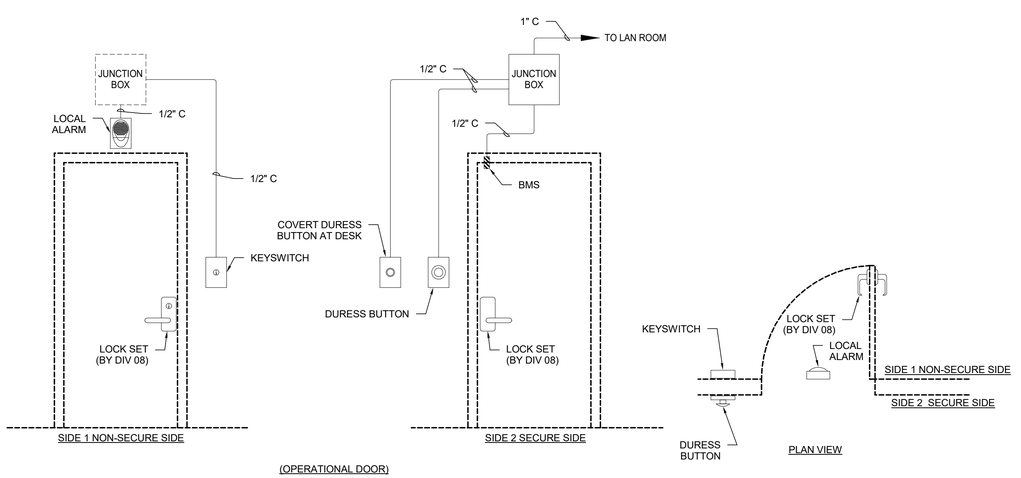
1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED), THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE DPS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES, THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL ACTIVATE THE LOCAL ALARM DEVICES AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION.
5. CLOSING THE DOOR SHALL RESET THE ALARM DEVICES BUT SHALL NOT CLEAR THE ALARM EVENT FROM THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.
6. A KEYSWITCH OUTSIDE THE ROOM SHALL BE USED TO RESET THE DURESS PUSHBUTTON ALARM.
7. DEPRESSING THE DURESS PUSHBUTTON SHALL ACTIVATE THE LOCAL ALARM DEVICE AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ACS SHALL ALSO ACTIVATE THE LOCAL ALARM IN OTHER LOCATIONS AS COORDINATED WITH CBP.
8. THE KEYSWITCH SHALL BE ABLE TO RESET THE ALARM DEVICES BUT SHALL NOT CLEAR THE ALARM EVENT FROM THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

2 TY504 SECURITY DOOR - TYPE 13

SCALE: N.T.S.

3 TY504 SECURITY DOOR - TYPE 14

SCALE: N.T.S.



SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE MECHANICAL LOCK.
2. A KEYSWITCH OUTSIDE THE ROOM SHALL BE USED TO RESET THE DURESS PUSHBUTTON ALARM.
3. DEPRESSING EITHER DURESS PUSHBUTTON SHALL ACTIVATE THE LOCAL ALARM DEVICE AND SEND AN ALARM SIGNAL TO THE MONITORING WORKSTATION. THE ACS SHALL ALSO ACTIVATE THE LOCAL ALARM OUTSIDE THE DETENTION SUITE OR ADMIIN CORRIDOR DOORS, AND OTHER LOCATIONS AS COORDINATED WITH CBP.
4. THE KEYSWITCH SHALL BE ABLE TO RESET THE ALARM DEVICES BUT SHALL NOT CLEAR THE ALARM EVENT FROM THE MONITORING WORKSTATION. THE ALARM MUST BE CLEARED FROM THE MONITORING WORKSTATION IN THE SUPERVISOR'S OFFICE.

1 TY504 SECURITY DOOR - TYPE 12

SCALE: N.T.S.

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SECURITY DOOR DETAILS

SHEET NUMBER

TY504

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Sheet Size: ARCH E 22X34

NOTES:

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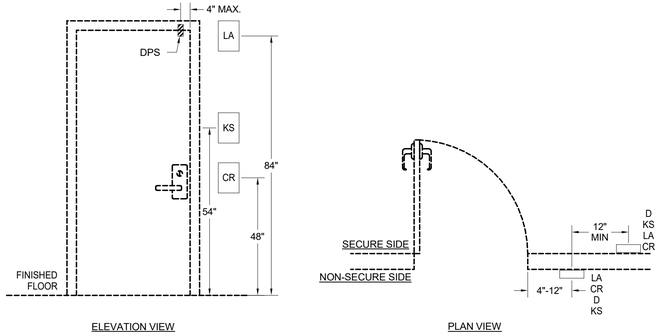
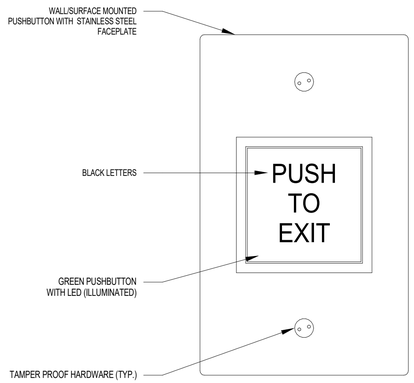
2. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH SECURITY DEVICE AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.



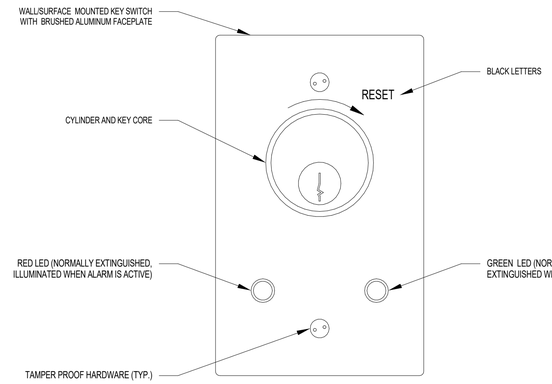
8 TY505 — TYPICAL DEVICE MOUNTING

SCALE: N.T.S.



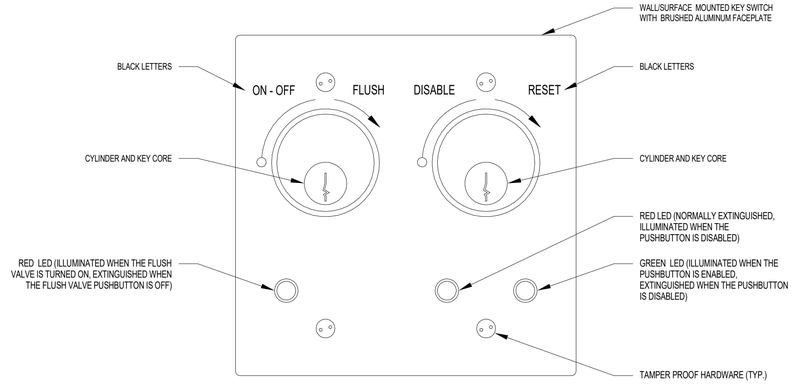
7 TY505 — REX PUSHBUTTON

SCALE: N.T.S.



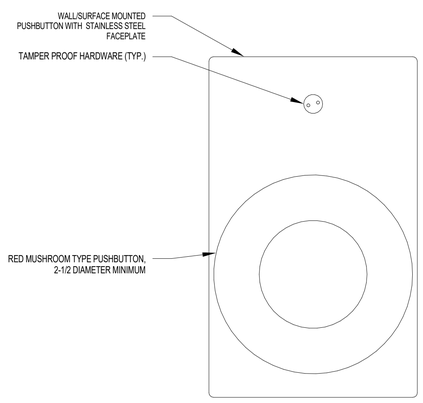
6 TY505 — ANNUNCIATOR RESET KEY SWITCH

SCALE: N.T.S.



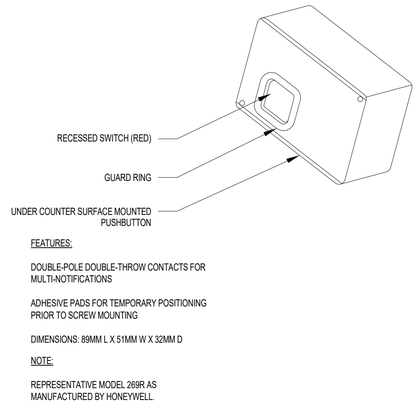
5 TY505 — ANNUNCIATOR HOLD ROOM DISABLE RESET KEY SWITCH

SCALE: N.T.S.



4 TY505 — DURESS MUSHROOM PUSHBUTTON

SCALE: N.T.S.



FEATURES:

DOUBLE-POLE DOUBLE-THROW CONTACTS FOR MULTI-NOTIFICATIONS

ADHESIVE PADS FOR TEMPORARY POSITIONING PRIOR TO SCREW MOUNTING

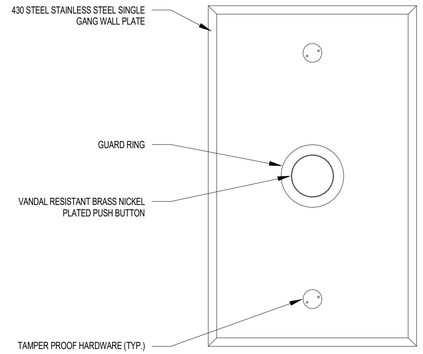
DIMENSIONS: 89MM L X 51MM W X 32MM D

NOTE:

REPRESENTATIVE MODEL 269R AS MANUFACTURED BY HONEYWELL.

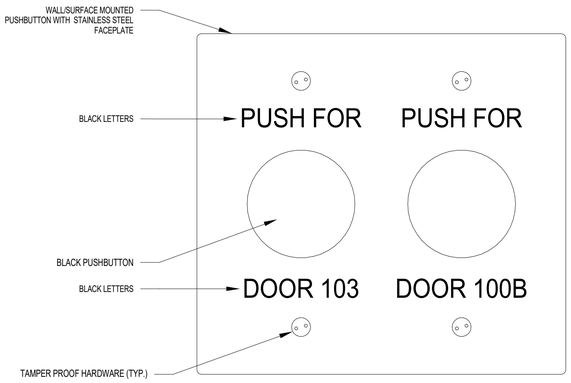
3 TY505 — COVERT DURESS PUSHBUTTON

SCALE: N.T.S.



2 TY505 — VANDAL RESISTANT DURESS PUSHBUTTON

SCALE: N.T.S.



1 TY505 — DOOR RELEASE PUSHBUTTON

SCALE: N.T.S.

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3/2/2020 3:09:58 PM BIM 360://PNS GAF/20100052001_PNS_GAF_E_R19.rvt

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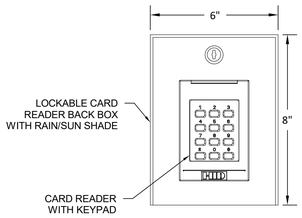
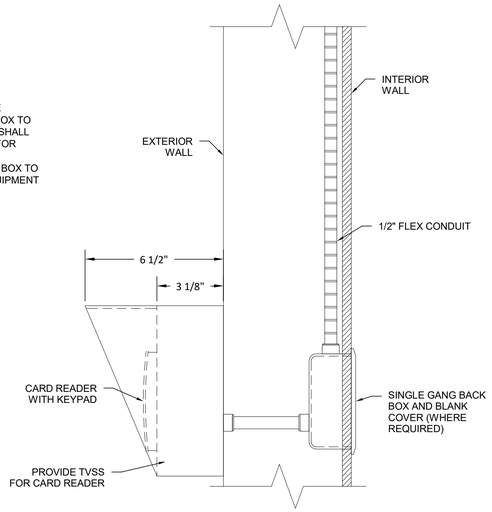
NOTES:
1. PROVIDE MOUNTING HARDWARE NECESSARY TO SECURE BACK BOX TO EXTERIOR WALL. CONTRACTOR SHALL SUBMIT PROPOSED MOUNTING FOR OWNER APPROVAL.
2. CONTRACTOR SHALL SIZE BACK BOX TO ACCOMMODATE PROPOSED EQUIPMENT AND SUBMIT FOR APPROVAL.



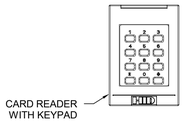
FRONT VIEW



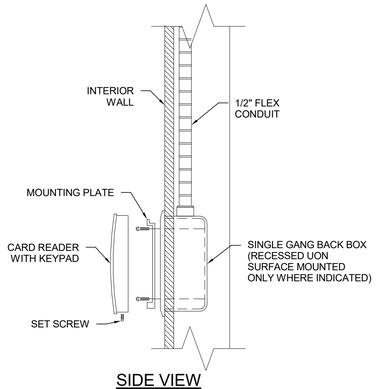
SIDE VIEW

6 TY506 EXTERIOR CARD READER MOUNTING

SCALE: N.T.S.



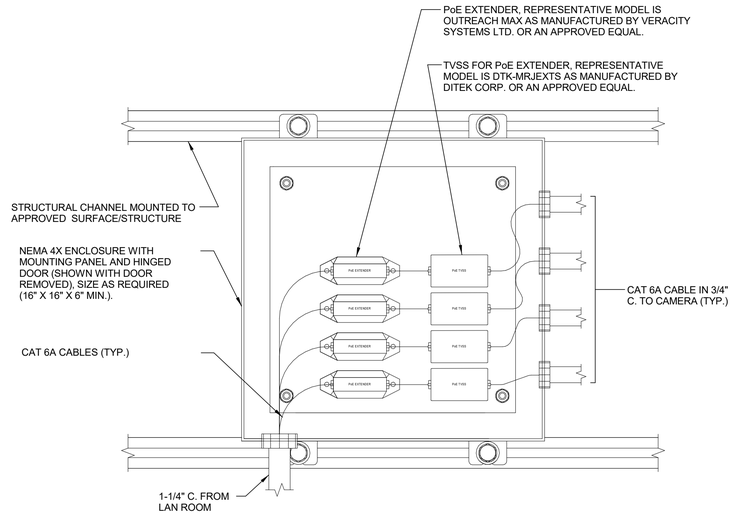
FRONT VIEW



SIDE VIEW

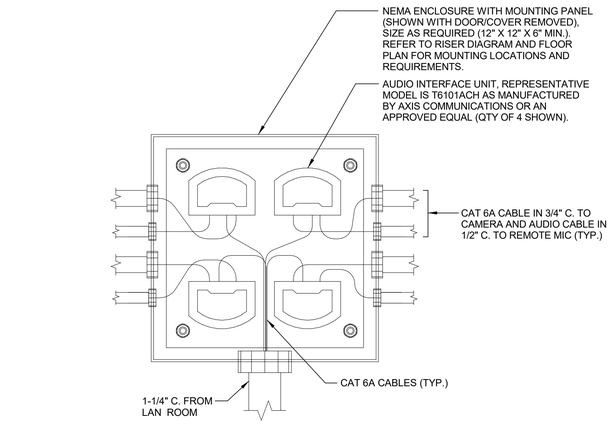
5 TY506 CARD READER MOUNTING (TYP.)

SCALE: N.T.S.



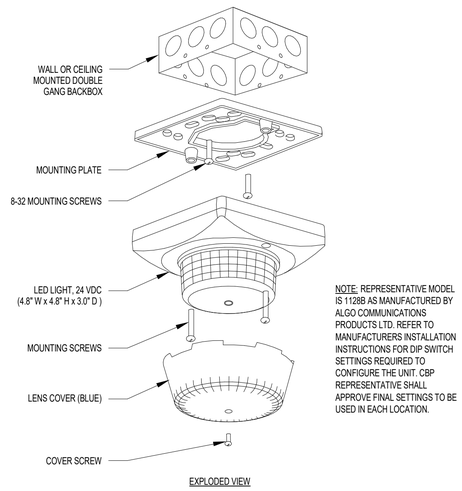
4 TY506 POE EXTENDER JUNCTION BOX

SCALE: N.T.S.



3 TY506 AUDIO INTERFACE JUNCTION BOX

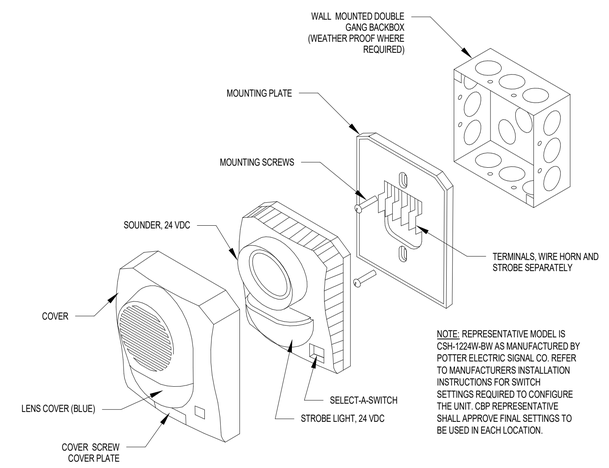
SCALE: N.T.S.



EXPLODED VIEW

2 TY506 VISUAL ANNUNCIATOR

SCALE: N.T.S.



EXPLODED VIEW

1 TY506 LOCAL ANNUNCIATOR - HORN/STROBE

SCALE: N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/03/2020
REVIEWED BY:	SVS
DRAWN BY:	VJM
DESIGNED BY:	RJF

PROJECT NUMBER:

201-0052-002

SHEET TITLE

SECURITY DEVICE DETAILS

SHEET NUMBER

TY506

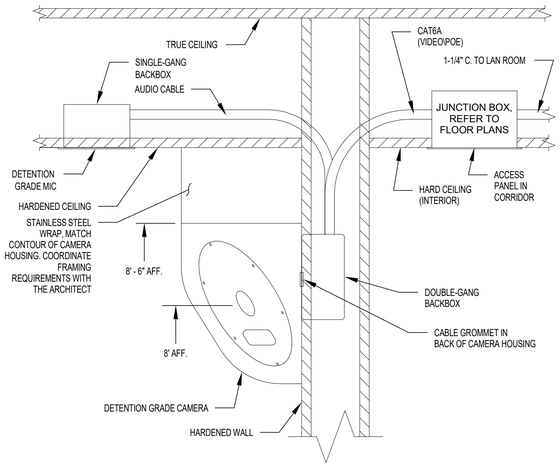
BID DOCUMENTS

3/2/2020 3:09:58 PM BIM 360://PNS GAF/2010052001_PNS_GAF_E_R19.rvt

Sheet Size: ARCH E 22X34

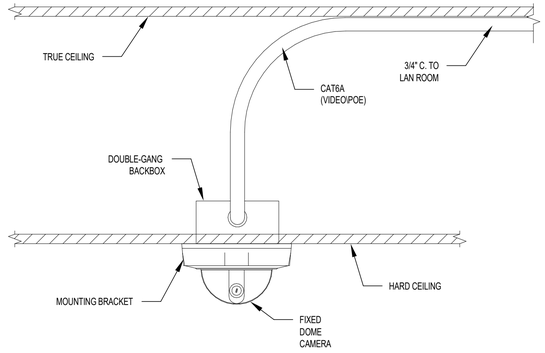
NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS AND DESCRIBE SECURITY HARDWARE OPERATIONS.
2. REFER TO THE SECURITY CAMERA SCHEDULE FOR INFORMATION SPECIFIC TO EACH CAMERA AND THE HARDWARE REQUIRED.
3. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.



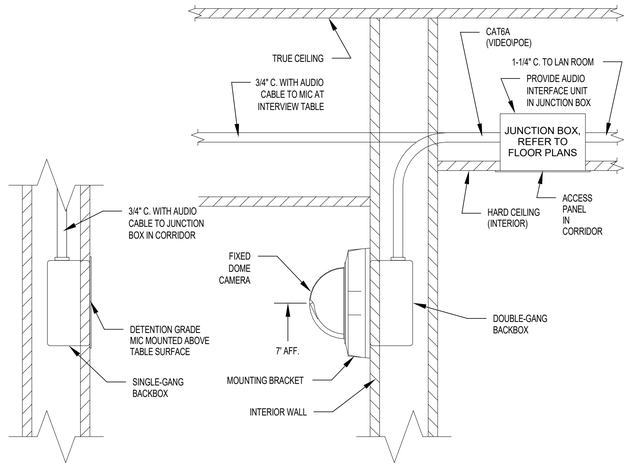
6 TY507 SECURITY CAMERA TYPE F

SCALE: N.T.S.



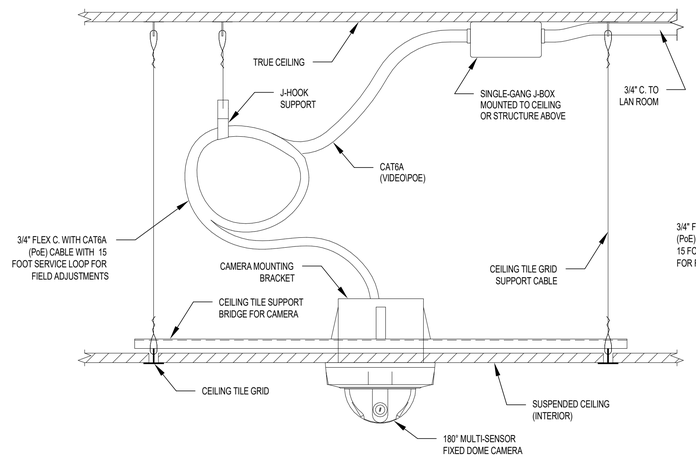
5 TY507 SECURITY CAMERA TYPE E

SCALE: N.T.S.



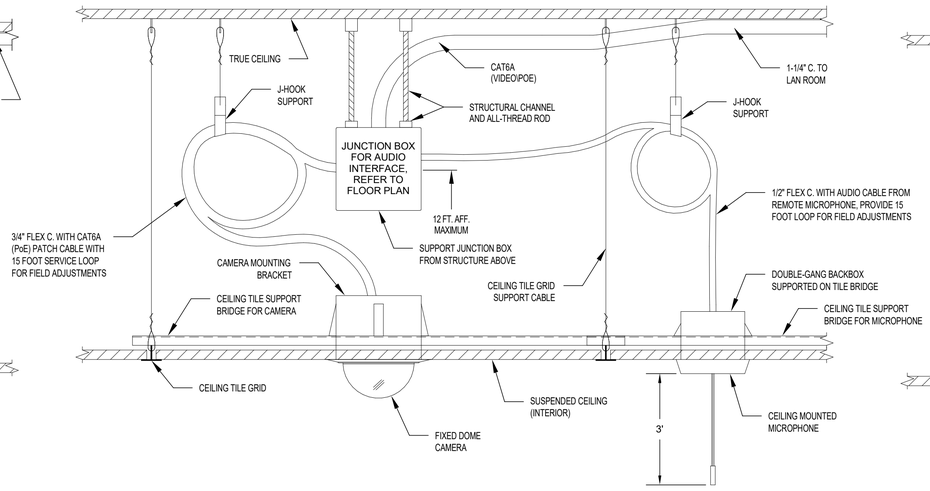
4 TY507 SECURITY CAMERA TYPE D

SCALE: N.T.S.



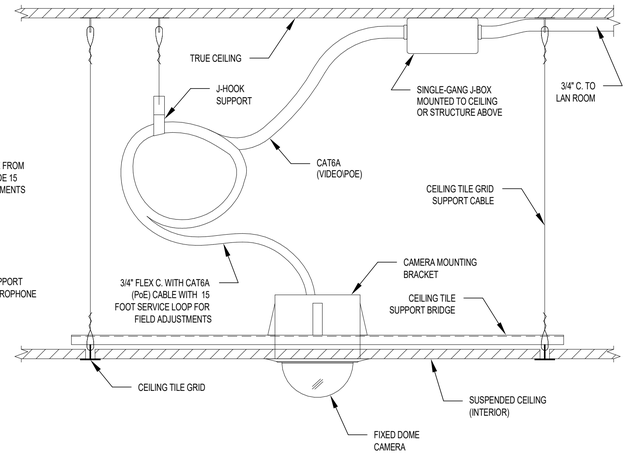
3 TY507 SECURITY CAMERA TYPE C

SCALE: N.T.S.



2 TY507 SECURITY CAMERA TYPE B

SCALE: N.T.S.



1 TY507 SECURITY CAMERA - TYPE A

SCALE: N.T.S.

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DESIGNED BY:	RJF

PROJECT NUMBER:
201-0052-002

SHEET TITLE

SECURITY CAMERA DETAILS

SHEET NUMBER

TY507

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Sheet Size: ARCH E 22X34

NOTES:

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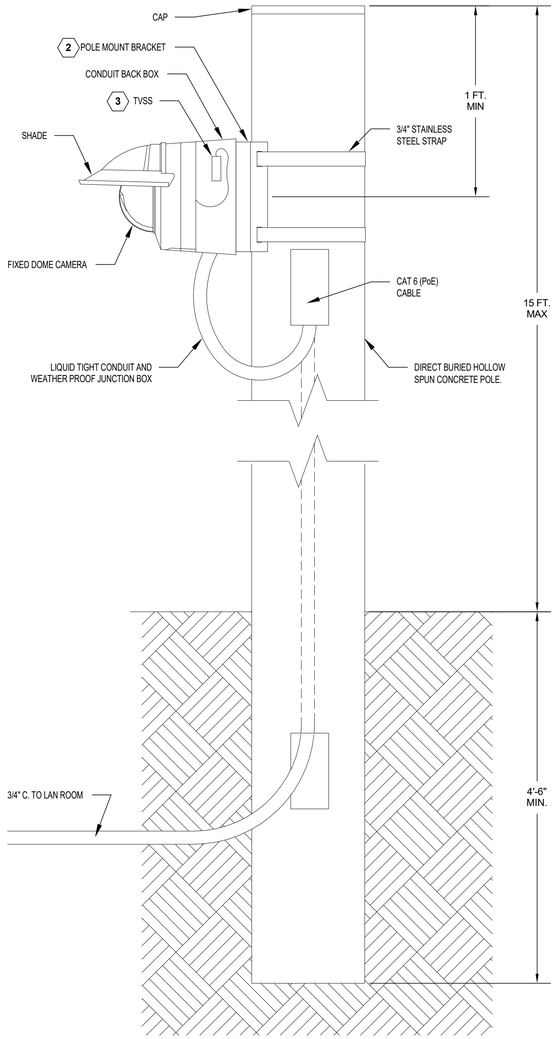
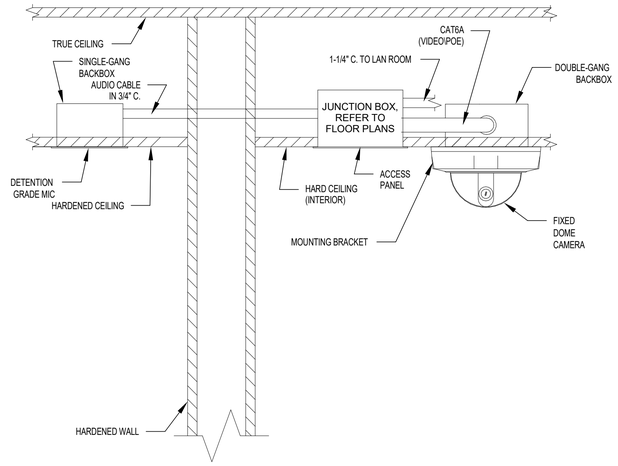


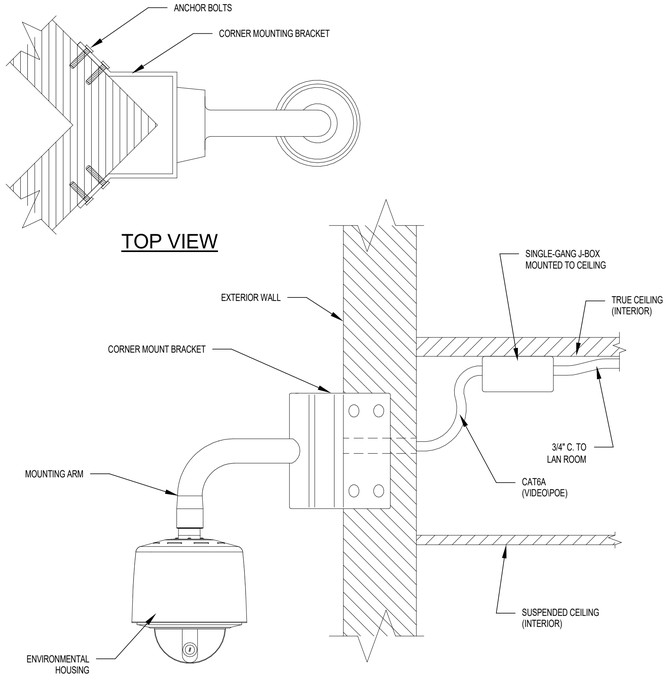
6 TY508 SECURITY CAMERA TYPE K

SCALE: N.T.S.



4 TY508 SECURITY CAMERA TYPE J

SCALE: N.T.S.



2 TY508 SECURITY CAMERA TYPE H

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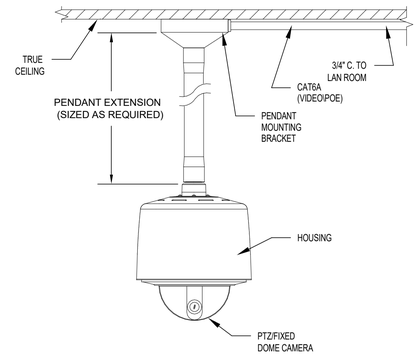

3 TY508 SECURITY CAMERA TYPE I

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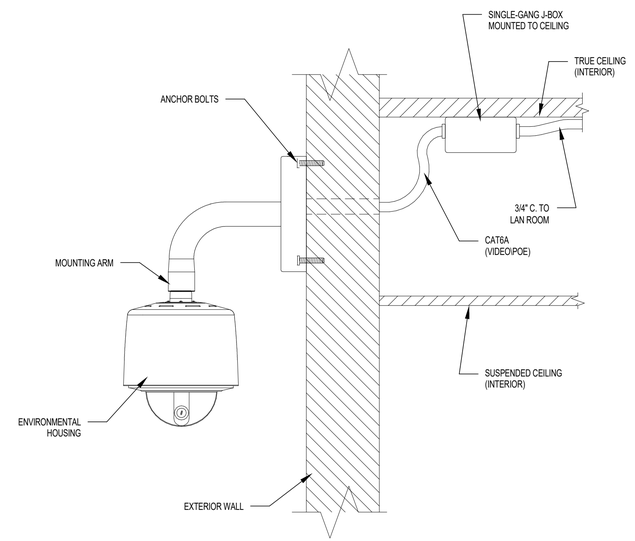

1 TY508 SECURITY CAMERA TYPE G

SCALE: N.T.S.

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SHEET NUMBER

TY508

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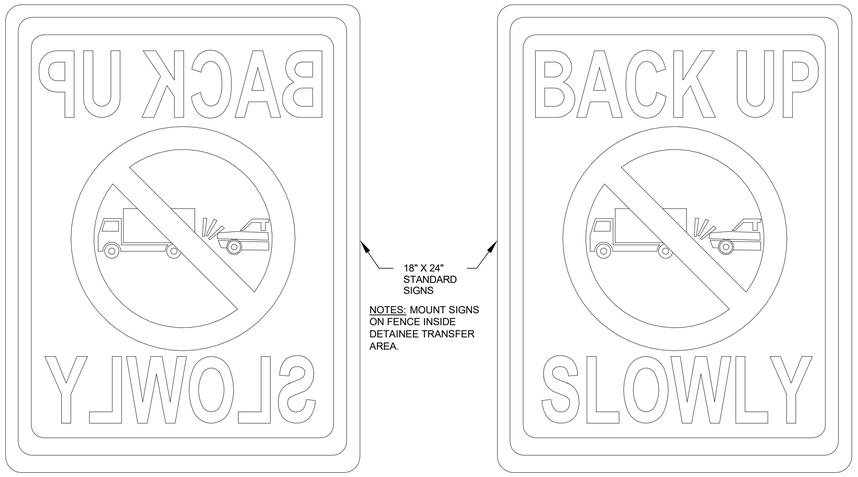

5 TY509 GATE BACK UP SLOWLY SIGN DETAIL

SCALE: N.T.S.

NOTES:
1. PAINT DIRECTLY ON FINISHED ROADWAY USING AN APPROVED BLACK AND YELLOW TRAFFIC PAINT (PROSTRIPE PLUS BY PROFESSIONAL PAVEMENT PRODUCTS (PPP) INC. OR EQUIVALENT) WITH ADDED GLASS BEADS (WEISSKER LUX GLASS BEADS BY PPP INC.) @ 6.25 LBS. PER GALLON.
2. PATTERN SHALL BE 5" WIDE STRIPES 10" O.C. @ 45 DEGREE ANGLE.

4 TY509 PAINTED STRIPE DETAIL

SCALE: N.T.S.

NOTES:

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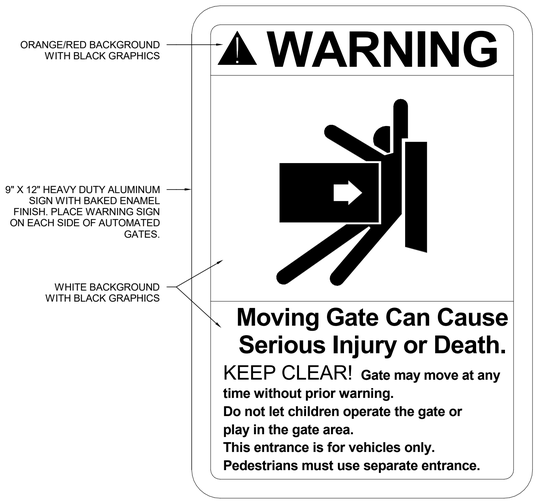
2. UNLESS OTHERWISE NOTED, ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
3. DIMENSION ARE FOR REFERENCE ONLY AND ARE DEPENDENT UPON THE EXISTING FIELD CONDITIONS.
4. REFER TO GATE LAYOUT PLANS ON SHEET TY102 FOR THE LOCATION OF PULL BOXES, PEDESTALS, AND BOLLARDS.

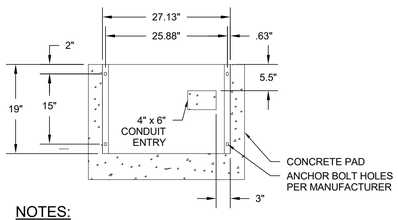
KEYED NOTES: ⬡

1. MOUNT WIDE-GAP MS TO STEEL POST AND MOUNT MAGNETS TO ALUMINUM DRIVE RAIL ATTACHED TO SLIDING GATE. WIDE-GAP MS MOUNTED TO CBP PARKING GATES ONLY.



3 TY509 GATE WARNING SIGN DETAIL

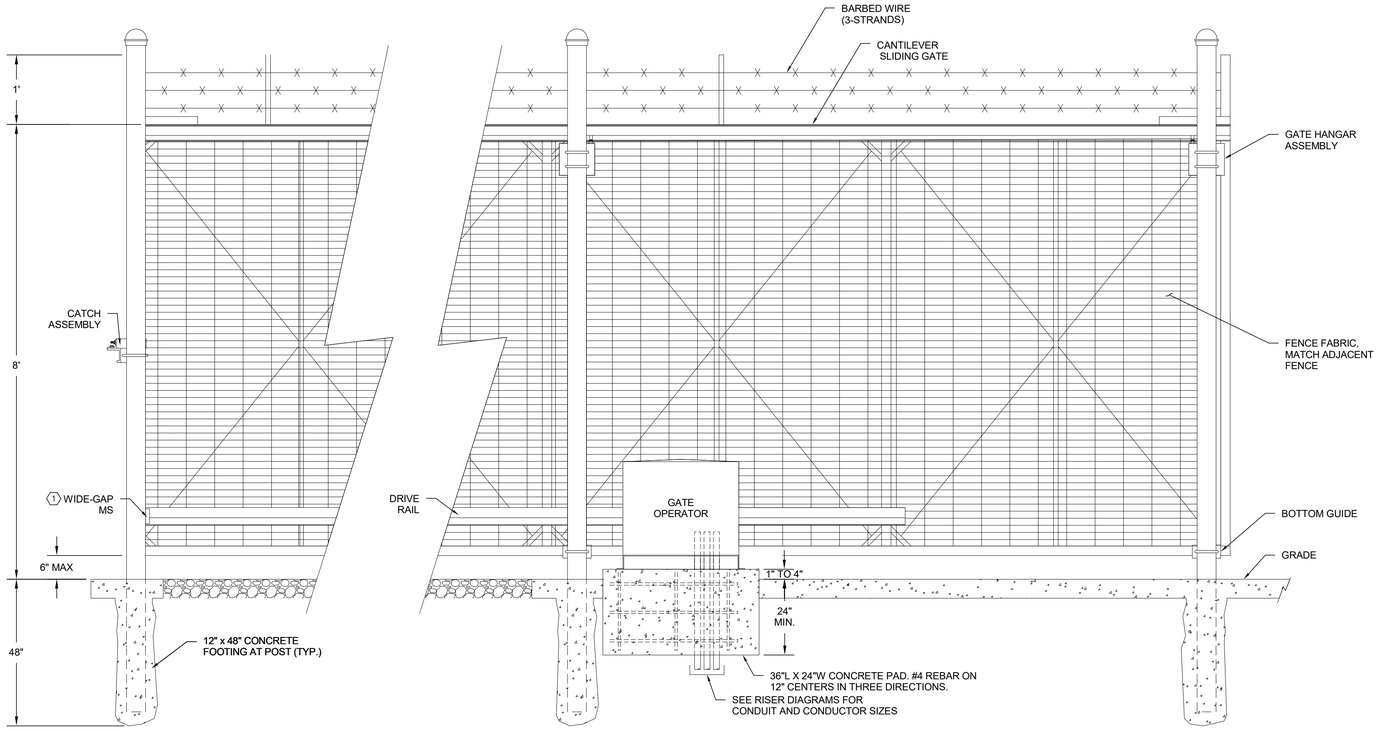
SCALE: N.T.S.



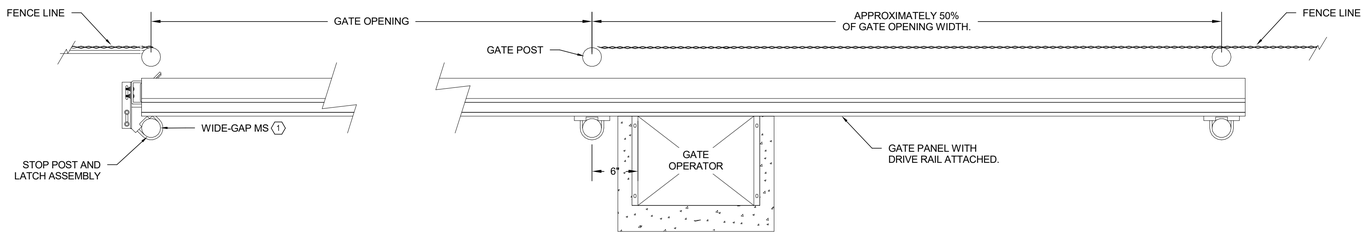
NOTES:
1. DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY. ACTUAL DIMENSIONS ARE DEPENDANT UPON MANUFACTURER SELECTED. REPRESENTATIVE MODEL IS LXL SERIES MANUFACTURED BY B&B AMRA, INC.

2 TY509 GATE OPERATOR BASE DETAIL

SCALE: N.T.S.



SECURITY GATE ELEVATION



SECURITY GATE PLAN VIEW

1 TY509 SECURITY GATE DETAIL

SCALE: N.T.S.

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SHEET TITLE

VEHICLE GATE DETAILS

SHEET NUMBER

TY509

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3/2/2020 3:10:00 PM BIM 360://PNS GAF/20100552001_PNS_GAF_E_R19.rvt

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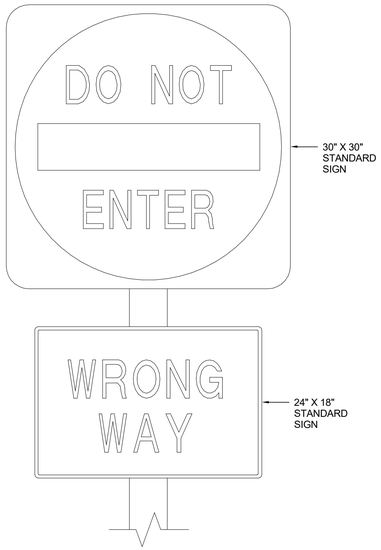
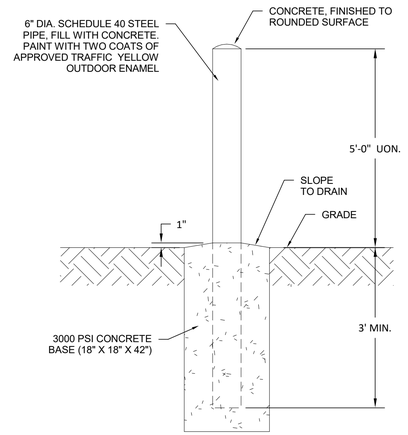
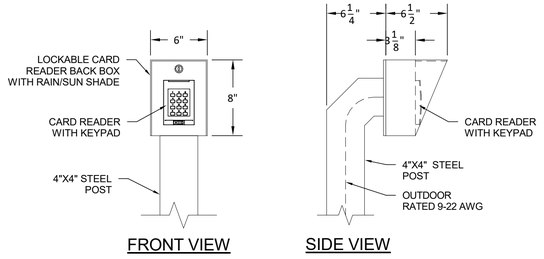


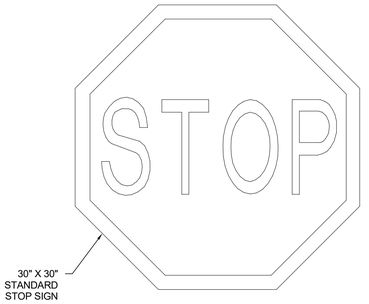
5 TY510 **GATE DO NOT ENTER SIGN**
SCALE: N.T.S.



3 TY510 **BOLLARD DETAIL (TYPICAL)**
SCALE: N.T.S.



2 TY510 **CARD READER PEDESTAL DETAIL**
SCALE: N.T.S.



4 TY510 **STOP SIGN**
SCALE: N.T.S.

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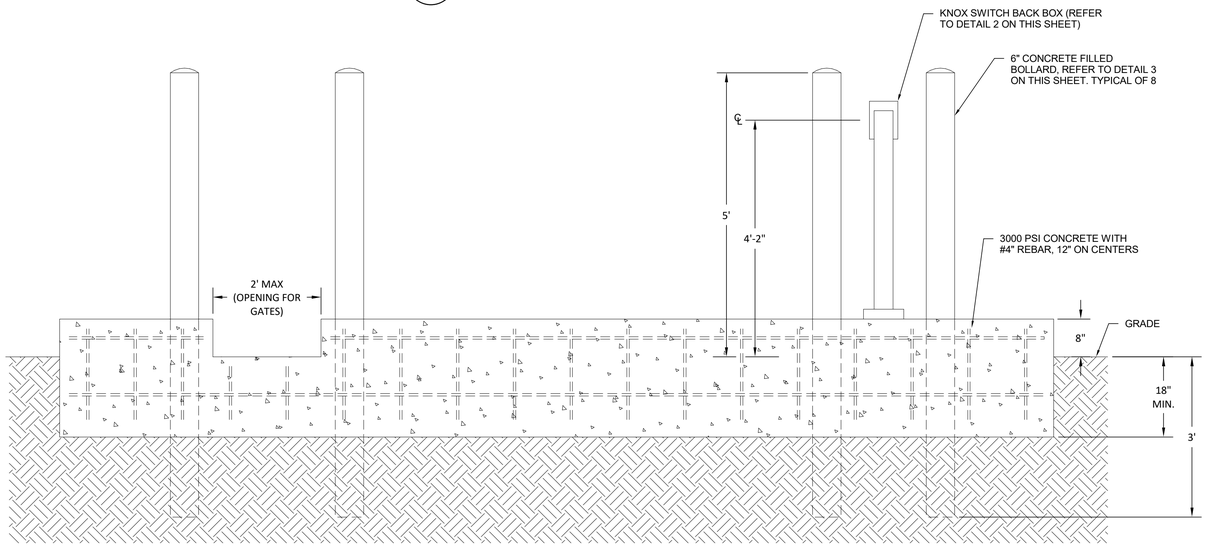
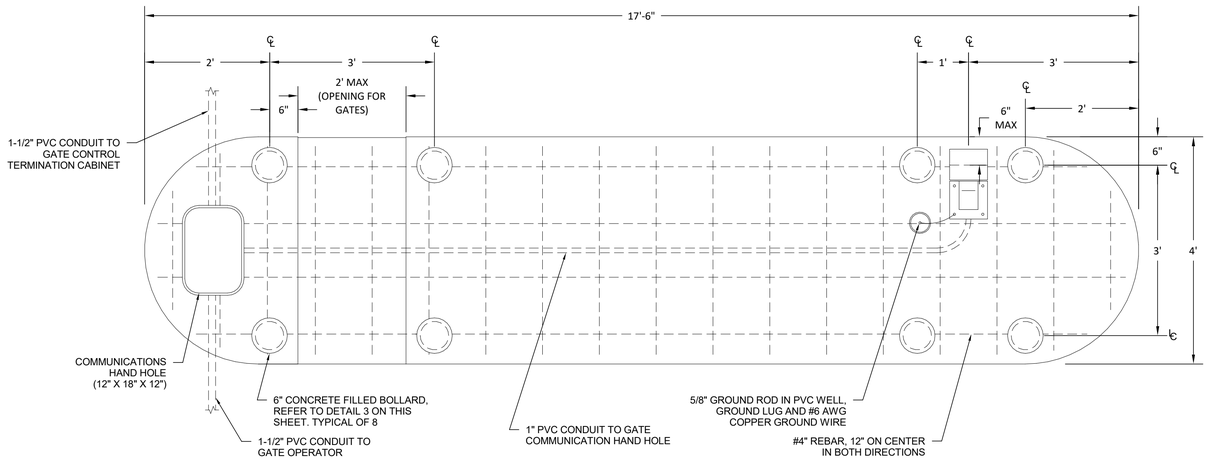


ELEVATION



PLAN VIEW

1 TY510 **CBP PARKING GATE ISLAND DETAIL**
SCALE: N.T.S.

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VEHICLE GATE DETAILS

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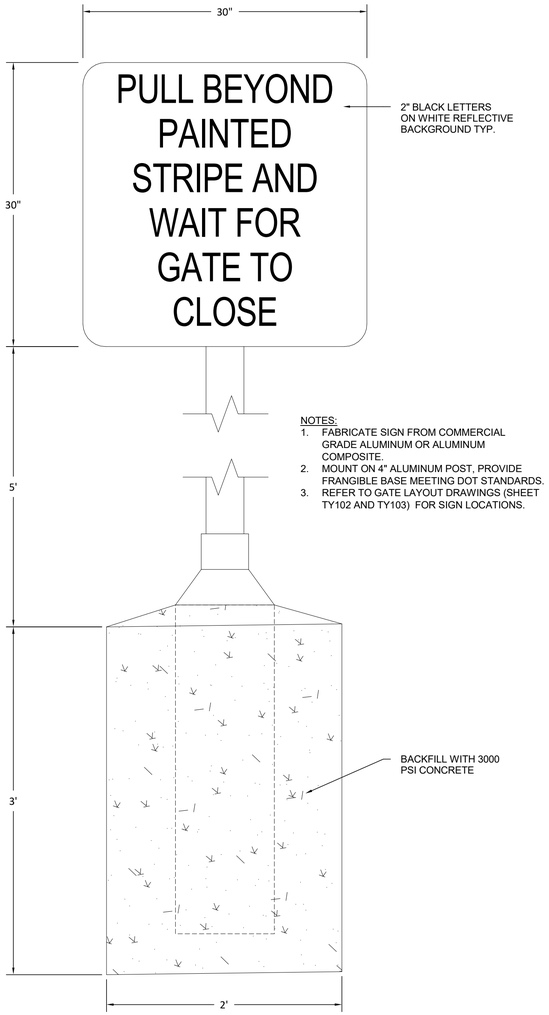
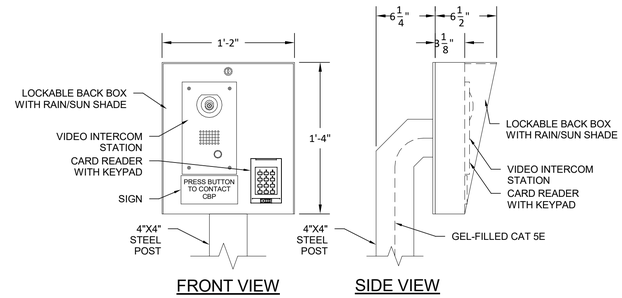


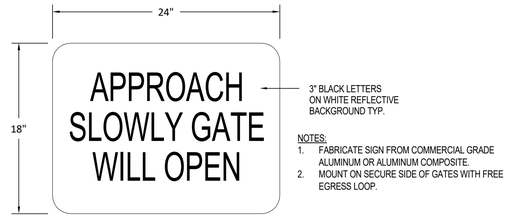
4 / TY511 PULL FORWARD SIGN DETAIL

SCALE: N.T.S.



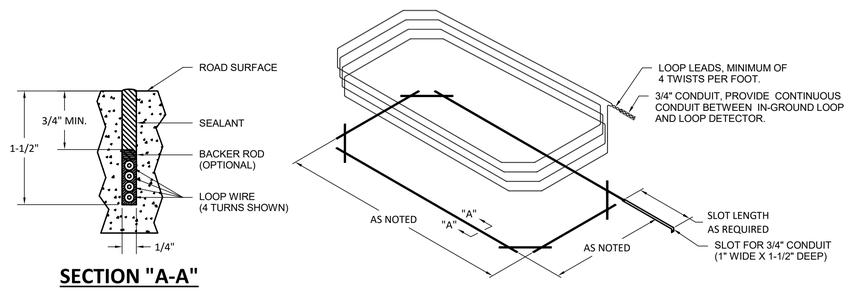
2 / TY511 VIDEO INTERCOM PEDESTAL DETAIL

SCALE: N.T.S.



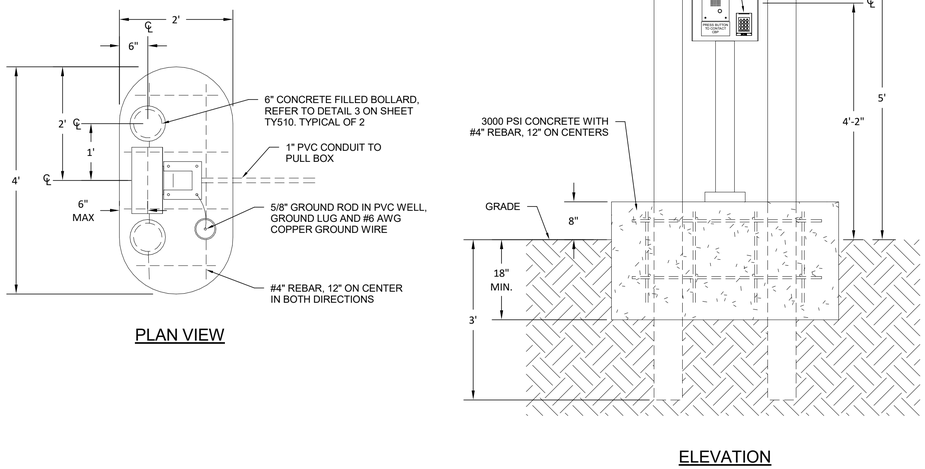
5 / TY511 APPROACH SLOWLY SIGN DETAIL

SCALE: N.T.S.



3 / TY511 VEHCLE DETECTION LOOP (TYP.)

SCALE: N.T.S.



1 / TY511 DETENTION SUITE GATE PEDESTAL DETAIL

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1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL LAYOUTS.
2. UNLESS OTHERWISE NOTED, ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
3. DIMENSION ARE FOR REFERENCE ONLY AND ARE DEPENDENT UPON THE EXISTING FIELD CONDITIONS.
4. REFER TO GATE LAYOUT PLANS ON SHEET TY102 FOR THE LOCATION OF PULL BOXES, PEDESTALS, AND BOLLARDS.

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NO.	DESCRIPTION	DATE

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DRAWN BY:	VJM
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201-0052-002

SHEET TITLE

VEHICLE GATE DETAILS

SHEET NUMBER

TY511

BID DOCUMENTS

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PNS GAF SECURITY CAMERA SCHEDULE

CAMERA NUMBER	CAMERA TYPE	DESCRIPTION	CAMERA MANUFACTURER	CAMERA MODEL	LENS		SHEET NUMBER	LOCATION	PRESET POSITION/CAMERA CUE-UP	ALARM ACTIVATION	MOUNT	MOUNTING HEIGHT	HOUSING	PRIMARY MONITORING	SECONDARY MONITORING	CAMERA DETAIL	EQUIPMENT ROOM	ACTION
100A	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	PRE-PROCESSING (ROOM 100)	DOOR 100A	DOOR 100A/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
100B	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	PRE-PROCESSING (ROOM 100)	DOOR 100B	DOOR 100B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103A	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	PROCESSING AREA (ROOM 103)	PRIMARY PROCESSING	PODIUM DURESS BUTTONS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103B	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	PROCESSING AREA (ROOM 103)	PRIMARY PROCESSING	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103C	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	PRIMARY PROCESSING PODIUM (ROOM 103)	PRIMARY PROCESSING	PODIUM DURESS BUTTONS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103D	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	PRIMARY PROCESSING PODIUM (ROOM 103)	PRIMARY PROCESSING	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103E	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	PRIMARY PROCESSING PODIUM (ROOM 103)	PRIMARY PROCESSING	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
103F	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	CBP PODIUM (ROOM 103)	PRIMARY PROCESSING PODIUM	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	B	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME. PROVIDE CEILING MOUNTED PENDANT EXTERNAL MICROPHONE AND AUDIO INTERFACE UNIT.
103G	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	CBP PODIUM (ROOM 103)	PRIMARY PROCESSING PODIUM	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	B	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME. PROVIDE CEILING MOUNTED PENDANT EXTERNAL MICROPHONE AND AUDIO INTERFACE UNIT.
103H	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	X-RAY INSPECTION TABLES (ROOM 103)	PRIMARY PROCESSING X-RAY STATION	PODIUM DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	B	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME. PROVIDE CEILING MOUNTED PENDANT EXTERNAL MICROPHONE AND AUDIO INTERFACE UNIT.
105A	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	DETENTION CORRIDOR (ROOM 105)	DOOR 110C	DOOR 110C/BMS, DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	J	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME. PROVIDE CEILING MOUNTED DETENTION GRADE EXTERNAL MICROPHONE AND AUDIO INTERFACE UNIT.
105B	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	DETENTION CORRIDOR (ROOM 105)	DOOR 105A	DOOR 105B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	E	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
105C	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	DETENTION CORRIDOR (ROOM 105)	DOOR 105B	DOOR 105B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	E	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
106	B	5 MP FIXED IP HD CAMERA	AXIS	P3227-VL	3.0-10.5 mm	VARI-FOCAL	TY101	INTERVIEW ROOM (ROOM 106)	INTERVIEW TABLE	DURESS BUTTONS	WALL	7 FT.	INTERIOR	CBP	NONE	D	112	PROVIDE WALL MOUNTED FIXED INDOOR DOME. PROVIDE CEILING MOUNTED DETENTION GRADE EXTERNAL MICROPHONE AND AUDIO INTERFACE UNIT.
108	E	1.3 MP FIXED IP HD CAMERA	AXIS	Q8414-LVS	2.5-6 mm	VARI-FOCAL	TY101	HOLD ROOM (ROOM 108)	HOLDING CELL	DURESS BUTTON	CORNER	10 FT.	INTERIOR	CBP	NONE	F	112	PROVIDE FIXED INDOOR CAMERA IN DETENTION GRADE CORNER MOUNT HOUSING. PROVIDE CEILING MOUNT DETENTION GRADE EXTERNAL MICROPHONE CONNECTED TO AUDIO INPUT ON CAMERA.
110A	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	CORRIDOR (ROOM 110)	CORRIDOR	DOORS 112, 113A, 123, 124/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
110B	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	CORRIDOR (ROOM 110)	DOOR 110C	-	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
110C	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	CORRIDOR (ROOM 110)	CONFERENCE ROOM (ROOM 116)	-	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
110D	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	CORRIDOR (ROOM 110)	DOOR 110B	DOOR 110B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
111	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	SECURE STORAGE (ROOM 111)	DOOR 111	DOOR 110B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	E	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
112	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	LAN/SLAN (ROOM 112)	DOOR 112	DOORS 112A, 112B/BMS	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.
114	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY101	PUBLIC LOBBY (ROOM 114)	DOOR X114A	DOOR X114A/BMS, DURESS BUTTON	CEILING	10 FT.	INTERIOR	CBP	NONE	A	112	PROVIDE CEILING MOUNTED FIXED INDOOR DOME.

NOTES:

1. CAMERA AND DOOR NUMBERS LISTED HEREIN INDICATE THE CAMERA OR DOOR DOOR DESIGNATION AS SHOWN ON THE DRAWINGS. FINAL CAMERA AND DOOR NUMBERS FOR SYSTEM CONFIGURATION AND PROGRAMMING TO BE DETERMINED BY CBP AND THE OWNER AS COORDINATED BY THE CONTRACTOR.
2. REFER TO FLOOR PLANS FOR LOCATION OF CAMERAS AND DOORS AS INDICATED BY SHEET NUMBER.
3. REFER TO ABBREVIATIONS LIST ON SHEET T001 FOR DEVICE IDENTIFIERS.
4. REFER TO SECURITY CAMERA DETAILS ON SHEETS TY507 AND TY508 FOR TYPICAL MOUNTING DETAILS FOR EACH CAMERA TYPE AS IDENTIFIED BY NUMBER.
5. CONTRACTOR SHALL REVIEW THE MOUNTING TYPE AND COORDINATE MOUNTING HARDWARE TO MEET THE FIELD CONDITIONS. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER.

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SECURITY CAMERA SCHEDULE

SHEET NUMBER

TY601

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Sheet Size: ARCH E 22X34

NOTES:

1. CAMERA AND DOOR NUMBERS LISTED HEREIN INDICATE THE CAMERA OR DOOR DOOR DESIGNATION AS SHOWN ON THE DRAWINGS. FINAL CAMERA AND DOOR NUMBERS FOR SYSTEM CONFIGURATION AND PROGRAMMING TO BE DETERMINED BY CBP AND THE OWNER AS COORDINATED BY THE CONTRACTOR.
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PNS GAF SECURITY CAMERA SCHEDULE

CAMERA NUMBER	CAMERA TYPE	DESCRIPTION	CAMERA MANUFACTURER	CAMERA MODEL	LENS		SHEET NUMBER	LOCATION	PRESET POSITION/CAMERA CUE-UP	ALARM ACTIVATION	MOUNT	MOUNTING HEIGTH	HOUSING	PRIMARY MONITORING	SECONDARY MONITORING	CAMERA DETAIL	EQUIPMENT ROOM	ACTION
X01	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	PASSENGER WAITING PORCH (690)	APRON	-	WALL	10 FT.	EXTERIOR	CBP	AIRPORT	G	112	PROVIDE WALL MOUNTED OUTDOOR FIXED DOME.
X02	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	PASSENGER WAITING PORCH (690)	ENTRY/PORCH	-	CEILING	10 FT.	EXTERIOR	CBP	AIRPORT	E	112	PROVIDE CEILING MOUNTED OUTDOOR FIXED DOME.
X03	D	8 MP PTZ IP HD CAMERA	AXIS	Q6128-E	4.3-129 mm	PTZ	TY100, TY101	PASSENGER WAITING PORCH (690)	LANDSIDE EXTERIOR	-	CEILING	10 FT.	EXTERIOR	CBP	AIRPORT	E	112	PROVIDE CEILING MOUNTED OUTDOOR FIXED DOME.
X04	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	PASSENGER WAITING PORCH (690)	ENTRY DOOR 103 AND PORCH	-	CEILING	10 FT.	EXTERIOR	CBP	AIRPORT	E	112	PROVIDE CEILING MOUNTED OUTDOOR FIXED DOME.
X05	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	NORTH WEST EXTERIOR CORNER	WEST SIDE AND ENTRY DOOR 110B	-	WALL	10 FT.	EXTERIOR	CBP	AIRPORT	G	112	PROVIDE WALL MOUNTED OUTDOOR FIXED DOME.
X06	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	SOUTH WEST EXTERIOR CORNER	PUBLIC LOBBY ENTRY DOOR X114A	-	CEILING	10 FT.	EXTERIOR	CBP	AIRPORT	I	112	PROVIDE PENDANT MOUNTED OUTDOOR FIXED DOME.
X07	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	SOUTH EXTERIOR	PUBLIC LOBBY ENTRY DOOR X114A	-	WALL	10 FT.	EXTERIOR	CBP	AIRPORT	G	112	PROVIDE WALL MOUNTED OUTDOOR FIXED DOME.
X08	A	3 MP FIXED IP HD CAMERA	AXIS	M3026-VE	3.0-10.5 mm	VARI-FOCAL	TY100, TY101	SOUTH EAST EXTERIOR CORNER	DETAINEE TRANSFER GATE	-	WALL	10 FT.	EXTERIOR	CBP	AIRPORT	G	112	PROVIDE WALL MOUNTED OUTDOOR FIXED DOME.
X09	C	15 MP 180° FIXED IP HD CAMERA	AXIS	Q3708-PVE	(3) 5.0 mm	VARI-FOCAL	TY100, TY101	DETAINEE TRANSFER AREA	DETAINEE TRANSFER AREA	-	WALL	10 FT.	EXTERIOR	CBP	AIRPORT	G	112	PROVIDE WALL MOUNTED OUTDOOR FIXED DOME.
X10	C	15 MP 180° FIXED IP HD CAMERA	AXIS	Q3708-PVE	(3) 5.0 mm	VARI-FOCAL	TY100, TY101	DETAINEE TRANSFER AREA	DETAINEE TRANSFER AREA	-	POLE	10 FT.	EXTERIOR	CBP	AIRPORT	K	112	PROVIDE POLE MOUNTED OUTDOOR FIXED DOME.
V01	F	1.23 MP FIXED IP VIDEO INTERCOM	AIPHONE	IX-DVF	2.5 mm	VARI-FOCAL	TY100, TY101	PUBLIC LOBBY (ROOM 114)	-	-	WALL	4.5 FT	INTERIOR	CBP	NONE	SEE NOTE 1	112	PROVIDE WALL MOUNTED VIDEO INTERCOM STATION.
V02	F	1.23 MP FIXED IP VIDEO INTERCOM	AIPHONE	IX-DVF	2.5 mm	VARI-FOCAL	TY100, TY101	DETAINEE TRANSFER AREA	-	-	PEDESTAL	4.5 FT	EXTERIOR	CBP	NONE	SEE NOTE 2	112	PROVIDE PEDESTAL MOUNTED VIDEO INTERCOM STATION.

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SHEET TITLE

SECURITY CAMERA SCHEDULE

SHEET NUMBER

TY602

BID DOCUMENTS

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DOOR NO.	SHEET NO.	LOCATION	CR	KP	ML	EL	TD	PT	BMS	DPS	SS	LA	VA	KS	MD	PB	D	VI	FIRE ALARM INTERFACE	DOOR TYPE	EQUIPMENT ROOM	CAMERA COVERAGE	SPECIAL NOTES
100A	TY101	PRE-PROCESSING (ROOM 100)	2			2	2	2	2										Y	7	112	100A	PROVIDE CR AND (2) EL ON PULL SIDE. PROVIDE CR, (2) EL W/ 15 SECOND TIME-DELAY, (2) PT AND (2) BMS ON PUSH SIDE.
100B	TY101	PRE-PROCESSING (ROOM 100)	2		2														Y	8	112	100B	PROVIDE CR ON PULL SIDE. PROVIDE CR AND (2) ML W/ BUILT-IN DPS AND MBS ON PUSH SIDE. PROGRAM ACS TO RELEASE ML VIA REMOTE PB AT PASSENGER PROCESSING PODIUMS.
103	TY101	PROCESSING AREA (ROOM 103)	2			2	2	2	2										Y	7	112	-	PROVIDE CR AND (2) EL ON PULL SIDE. PROVIDE CR, (2) EL W/ 15 SECOND TIME-DELAY, (2) PT AND (2) BMS ON PUSH SIDE. PROGRAM ACS TO OPEN LOCKS VIA REMOTE PB AT PASSENGER PROCESSING PODIUMS.
104	TY101	AG LAG (ROOM 104)	1			1		1		1		1					1		-	13	112	103B	PROVIDE CR, KS AND LA ON PUSH SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND DPS ON PULL SIDE. PROVIDE WALL MOUNTED DURESS BUTTON WITHIN ARMS REACH OF GRINDER.
105A	TY101	DETENTION SUITE CORRIDOR (ROOM 105)	2			1		1		1		1							-	4	112	103B. 105B	PROVIDE CR AND FAILSECURE EL ON BOTH SIDES. PROVIDE LA ON PUSH SIDE. PROVIDE PT AND DPS ON PULL SIDE.
105B	TY101	DETENTION SUITE CORRIDOR (ROOM 105)	2	1		1	1	1	1										-	5	112	105C	PROVIDE CR AND ELON PULL SIDE. PROVIDE CR, EL W/ 30 SECOD TIME-DELAY, PT AND BMS ON PUSH SIDE. PROVIDE KP FOR IDS.
106	TY101	INTERVIEW ROOM (ROOM 106)										1		1			2		-	12	112	105A, 105C	PROVIDE LA AND KS ON PULL SIDE. PROVIDE COVERT DURESS BUTTON UNDER TABLE SURFACE AND WALL MOUNTED DURESS BUTTON ADJACENT TO DOOR.
107	TY101	SEARCH ROOM (ROOM 107)										1		1			1		-	10	112	105A	PROVIDE LA AND KS ON PULL SIDE. PROVIDE WALL MOUNTED DURESS BUTTON WITHIN ROOM ADJACENT TO DOOR.
108	TY101	HOLD ROOM (ROOM 108)	1								1	1		2			1		-	6	112	105A	PROVIDE STRIKE SWITCH TO MONITOR DETENTION LOCK LATCH BOLT. PROVIDE DETENTION GRADE DURESS BUTTON WITHIN HOLD ROOM. PROVIDE GUARD TOUR CR, (2) KS AND LA OUTSIDE OF HOLD ROOM. REFER TO THE DRAWINGS AND WRITTEN SPECIFICATIONS ADDITIONAL INFORMATION.
110A	TY101	ADMINISTRATION SUITE ENTRY/EXIT - (CORIDOR 110)	1			1		1		1		1			1				-	11	112	103A	PROVIDE CR AND LA ON PUSH SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND DPS ON PULL SIDE. PROVIDE CEILING MOUNTED MD IN PRIMARY PROCESSING FOR IDS,
110B	TY101	CBP ENTRY/EXIT - (CORIDOR 110)	1	1		1		1	1						1				-	2	112	-	PROVIDE CR ON PULL SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND BMS ON PUSH SIDE. PROVIDE KP AND MD FOR IDS.
110C	TY101	DETENTION SUITE CORRIDOR (ROOM 105)	2			1		1		1		1							-	4	112	105A, 110B	PROVIDE CR AND FAILSEURE EL ON BOTH SIDES. PROVIDE LA ON PULL SIDE. PROVIDE PT AND DPS ON PUSH SIDE.
111	TY101	SECURE STORAGE (ROOM 111)	1	1		1		1	1						1				-	9A	112	110B, 111	PROVIDE CR AND SELF-POWERED DIAL COMBINATION LOCK ON PUSH SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND BMS ON PULL SIDE. PROVIDE KP AND MD WITHIN ROOM FOR IDS.
112A	TY101	LAN/SLAN ROOM (ROOM 112)	1	1		1		1	1						1				-	9	112	110A, 110B, 112	PROVIDE CR ON PUSH SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND BMS ON PULL SIDE. PROVIDE MD AND KP WITHIN ROOM FOR IDS.
112B	TY101	SLAN ROOM (ROOM 112)	1		1											1			Y	14	112	112	PROVIDE CR ON OUTSIDE OF SLIDING GATE. PROVIDE PB AND ML W/ BUILT-IN DPS AND MBS INSIDE SECURED AREA.
113A	TY101	ENTRANCE OFFICE (113)	1			1		1		1		1					1		-	13	112	110A, 110B	PROVIDE EL W/ BUILT-IN REX, PT, BMS, LA AND KS PUSH SIDE. PROVIDE CR ON PULL SIDE. PROVIDE COVERT DURESS BUTTON UNDER DESK.
113B	TY101	ENTRANCE OFFICE (113)	1			1		1		1								1	-	1A	112	114	PROVIDE CR AND VI ON PULL SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND DPS ON PUSH SIDE.
114	TY101	PUBLIC LOBBY (114)		1					2						1				-	3	112	114	PROVIDE (2) BMS ON PUSH SIDE. PROVIDE KP AND MD WITHIN LOBBY FOR IDS.
123	TY101	SUPERVISORS OFFICE (ROOM 123)	1			1		1		1		1					1		-	13	112	110A, 110B	PROVIDE CR AND LA ON PUSH SIDE. PROVIDE EL W/ BUILT-IN REX, PT AND DPS ON PULL SIDE. COVERT DURESS BUTTON UNDER DESK.
124	TY101	LACTATION ROOM (ROOM 124)										1		1			1		-	10	112	110B	PROVIDE LA AND KS ON PUSH SIDE. PROVIDE WALL MOUNTED DURESS BUTTON WITHIN ROOM ADJACENT TO DOOR.
125	TY101	ELECTRIC ROOM (ROOM 125)	1			1		1	1										-	1	112	-	PROVIDE CR ON PULL SIDE. PROVIDE EL W/BUILT-IN REX, PT, AND BMS ON PUSH SIDE.
126	TY101	MECHANICAL ROOM (ROOM 126)	1			1		1	1										-	1	112	-	PROVIDE CR ON PULL SIDE. PROVIDE EL W/BUILT-IN REX, PT, AND BMS ON PUSH SIDE.
P1	TY101	SECURE PARKING AREA	2			1				1									-	15	GCTC1	-	PROVIDE CR ON PUSH SIDE. PROVIDE CR, ELECTROMECHANICAL LOCK WITH KEY OVERRIDE, AND WIDE-GAP DPS ON PULL SIDE.
GATE-1	TS101	SECURE PARKING AREA VEHICLE GATE	1							2									-	SEE NOTES	GCTC1	-	REFER TO GATE LAYOUT ON SHEET TY102.
GATE-2	TS101	DETAINIEE TRANSFER VEHICLE GATE	2							1								1	-	SEE NOTES	112	-	REFER TO GATE LAYOUT ON SHEET TY103.
-	TY101	PROCESSING AREA PODIUMS (ROOM 103)											1			4	2		-	-	112	-	AT EACH PODIUM PROVIDE COVERT DURESS BUTTON AND PB MOUNTED IN PODIUM CASEWORK. PROVIDE CEILING MOUNTED VA BETWEEN PODIUMS.
-	TY101	PROCESSING AREA X-RAY STATION (ROOM 103)											1			1	1		-	-	112	-	PROVIDE CEILING MOUNTED VA AND D AND PB MOUNTED IN X-RAY WORKSTATION CASEWORK.
-	TY101	DETENTION SUITE CORRIDOR (ROOM 105)	1																-	-	-	-	PROVIDE CR ADJACENT TO WALL MOUNTED VIDEO MONITOR TO OPEN/CLOSE DETAINIEE TRANSFER VEHICLE GATE, REFER TO GATE LAYOUT ON SHEET TY103.

NOTES:

1. CAMERA AND DOOR NUMBERS LISTED HEREIN INDICATE THE CAMERA OR DOOR DOOR DESIGNATION AS SHOWN ON THE DRAWINGS. FINAL CAMERA AND DOOR NUMBERS FOR SYSTEM CONFIGURATION AND PROGRAMMING TO BE DETERMINED BY CBP AND THE OWNER AS COORDINATED BY THE CONTRACTOR.
2. REFER TO FLOOR PLANS FOR LOCATION OF CAMERAS AND DOORS AS INDICATED BY SHEET NUMBER.
3. DEVICES INDICATED ARE REQUIRED TO CONFIGURE THE ACCESS CONTROL AND ALARM ANNUNCIATION FUNCTIONS REQUIRED. CONTRACTOR SHALL PROVIDE ALL ANCILLARY DEVICES (RELAYS, TIMERS, RESISTORS, ETC.) TO COMPLETE THE INSTALLATION AND CONFIGURATION OF DEVICES WITH THE ACCESS CONTROL SYSTEM.
4. REFER TO DIVISION 08 "DOOR HARDWARE" SPECIFICATION FOR ELECTRIFIED LOCKING REQUIREMENTS. REFER TO DIVISION 28 "ACCESS CONTROL" SPECIFICATION FOR AND DETAILS IN THE DRAWINGS FOR SECURITY DEVICE REQUIREMENTS.
5. REFER TO ABBREVIATIONS LIST ON SHEET T001 FOR DEVICE IDENTIFIERS.
6. REFER TO SECURITY DOOR DETAILS ON SHEETS TY501 THRU TY506 FOR TYPICAL MOUNTING DETAILS FOR EACH DOOR TYPE AS IDENTIFIED BY NUMBER.
7. CONTRACTOR SHALL REVIEW THE SEQUENCE OF OPERATION FOR EACH DOOR TYPE, THE HARDWARE AND REQUIRED DEVICES TO ENSURE PROPER OPERATION FOR PASSAGE THROUGH EACH DOOR. ANY CONFLICTS IN DOOR HARDWARE, BOTH ELECTRONIC AND MECHANICAL, THAT MAY RESULT IN IMPROPER OPERATION OF ACCESS CONTROLLED DOORS MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER.

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SHEET TITLE

SECURITY DOOR SCHEDULE

SHEET NUMBER

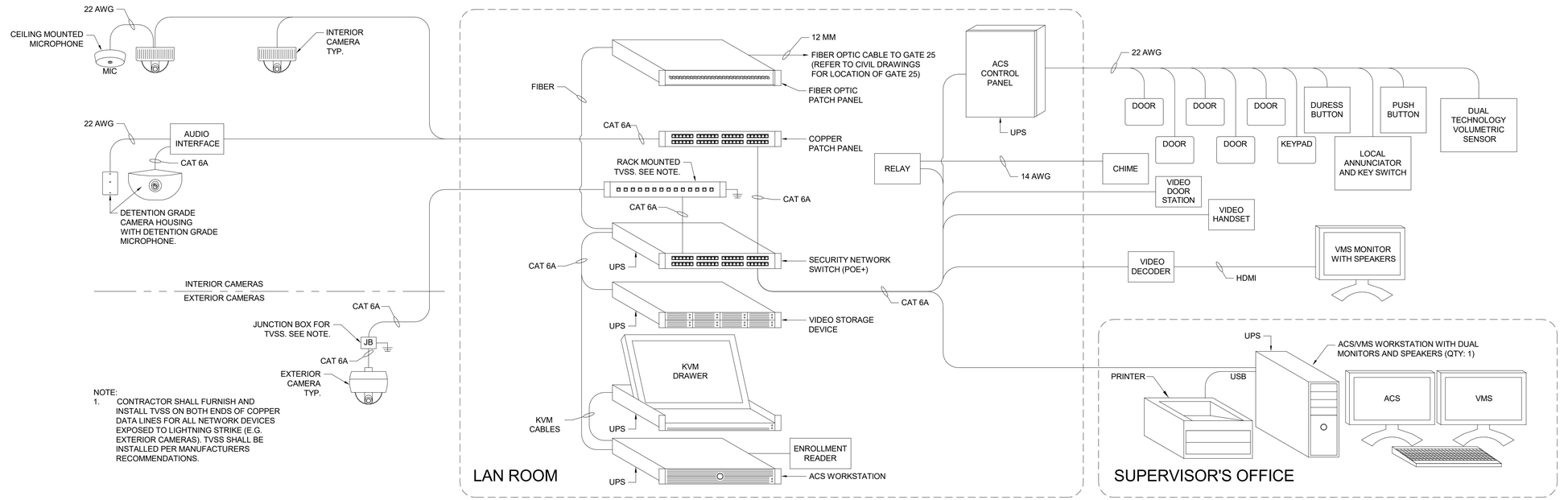
TY603

BID DOCUMENTS

Sheet Size: ARCH E 22X34

NOTES:

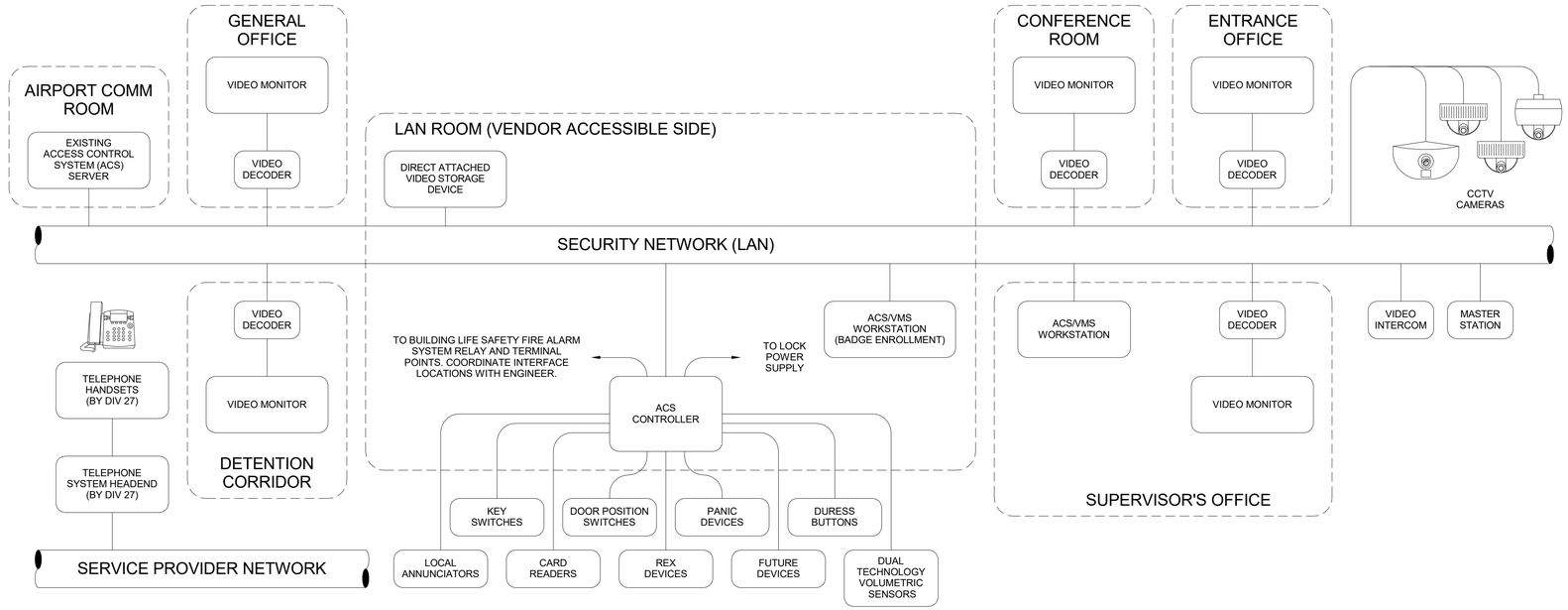
1. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.



1 TY701

SECURITY SYSTEM BLOCK DIAGRAM

SCALE: N.T.S.



2 TY701

SECURITY SYSTEM LOGIC DIAGRAM

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SECURITY BLOCK DIAGRAMS

SHEET NUMBER

TY701

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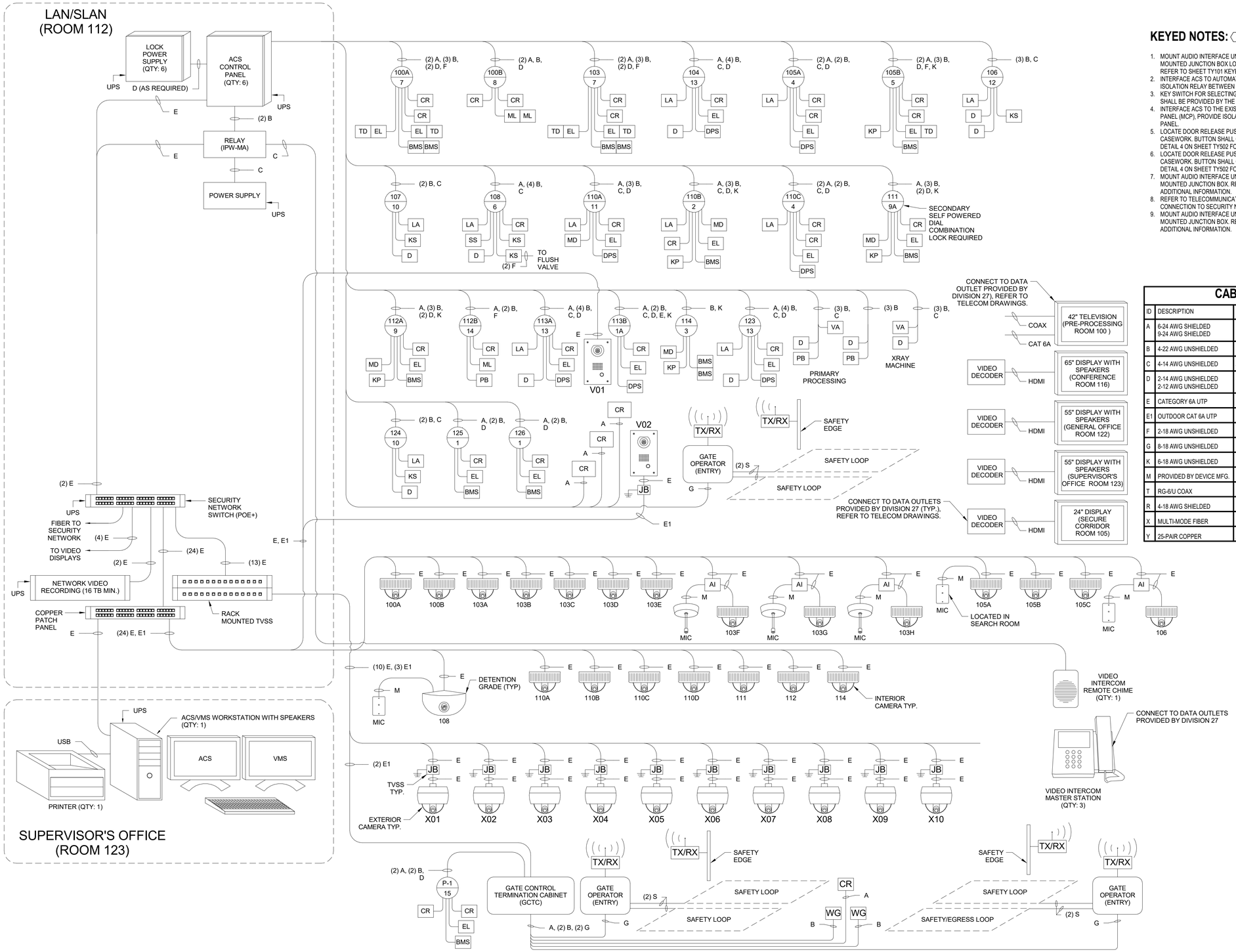

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW UON.
2. REFER TO COMMUNICATIONS INTERCONNECT DIAGRAM FOR ADDITIONAL INFORMATION, INCLUDING BACKBONE FIBER.

KEYED NOTES: ⬡

1. MOUNT AUDIO INTERFACE UNIT FOR EXTERNAL MICROPHONES IN CEILING MOUNTED JUNCTION BOX LOCATED IN THE DETENTION SUITE CORRIDOR. REFER TO SHEET TY101 KEYED NOTE 14 FOR ADDITIONAL INFORMATION.
2. INTERFACE ACS TO AUTOMATIC SLIDING DOOR OPERATOR (DO), PROVIDE ISOLATION RELAY BETWEEN DO AND ACS CONTROL PANEL.
3. KEY SWITCH FOR SELECTING AUTOMATIC SLIDING DOOR OPERATOR MODE SHALL BE PROVIDED BY THE DOOR CONTRACTOR.
4. INTERFACE ACS TO THE EXISTING BAGGAGE CONVEYOR MOTOR CONTROL PANEL (MCP). PROVIDE ISOLATION RELAY BETWEEN MCP AND ACS CONTROL PANEL.
5. LOCATE DOOR RELEASE PUSH BUTTON IN PRIMARY PROCESSING PODIUM CASEWORK. BUTTON SHALL OPEN DOOR 132B WHEN OPERATED, REFER TO DETAIL 4 ON SHEET TY502 FOR OPERATION OF DOOR TYPE 8.
6. LOCATE DOOR RELEASE PUSH BUTTON IN SECONDARY PROCESSING PODIUM CASEWORK. BUTTON SHALL OPEN DOOR 132C WHEN OPERATED, REFER TO DETAIL 4 ON SHEET TY502 FOR OPERATION OF DOOR TYPE 8.
7. MOUNT AUDIO INTERFACE UNIT FOR EXTERNAL MICROPHONES IN CEILING MOUNTED JUNCTION BOX. REFER TO SHEET TY101 KEYED NOTE 17 FOR ADDITIONAL INFORMATION.
8. REFER TO TELECOMMUNICATIONS INTERCONNECT DIAGRAM FOR CONNECTION TO SECURITY NETWORK.
9. MOUNT AUDIO INTERFACE UNIT FOR EXTERNAL MICROPHONE IN CEILING MOUNTED JUNCTION BOX. REFER TO SHEET TY101 KEYED NOTE 18 FOR ADDITIONAL INFORMATION.

CABLE LEGEND

ID	DESCRIPTION	DEVICE
A	6-24 AWG SHIELDED 9-24 AWG SHIELDED	CARD READER. CABLE LENGTH < 450' CARD READER. CABLE LENGTH > 450'
B	4-22 AWG UNSHIELDED	MISC. INPUT (DOOR POSITION/REX/TD)
C	4-14 AWG UNSHIELDED	ANNUNCIATOR (HORN/STROBE)
D	2-14 AWG UNSHIELDED 2-12 AWG UNSHIELDED	MISC. OUTPUT (LOCK) CABLE LENGTH UP TO 100' MISC. OUTPUT (LOCK). CABLE LENGTH UP TO 200'
E	CATEGORY 6A UTP	ETHERNET (VOICE, DATA, VIDEO)
E1	OUTDOOR CAT 6A UTP	OUTDOOR RATED ETHERNET CABLE
F	2-18 AWG UNSHIELDED	FIRE ALARM RELAY AND MISC. I/O
G	8-18 AWG UNSHIELDED	GATE OPERATOR I/O
K	6-18 AWG UNSHIELDED	IDS KEY PAD
M	PROVIDED BY DEVICE MFG.	EXTERNAL MICROPHONE CABLE
T	RG-6/U COAX	CABLE TELEVISION
R	4-18 AWG SHIELDED	RS-485 SERIAL COMMUNICATION
X	MULTI-MODE FIBER	FIBER OPTIC PATCH CABLE
Y	25-PAIR COPPER	ANALOG TELEPHONE LINE

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SECURITY INTERCONNECT DIAGRAM

SHEET NUMBER

TY702

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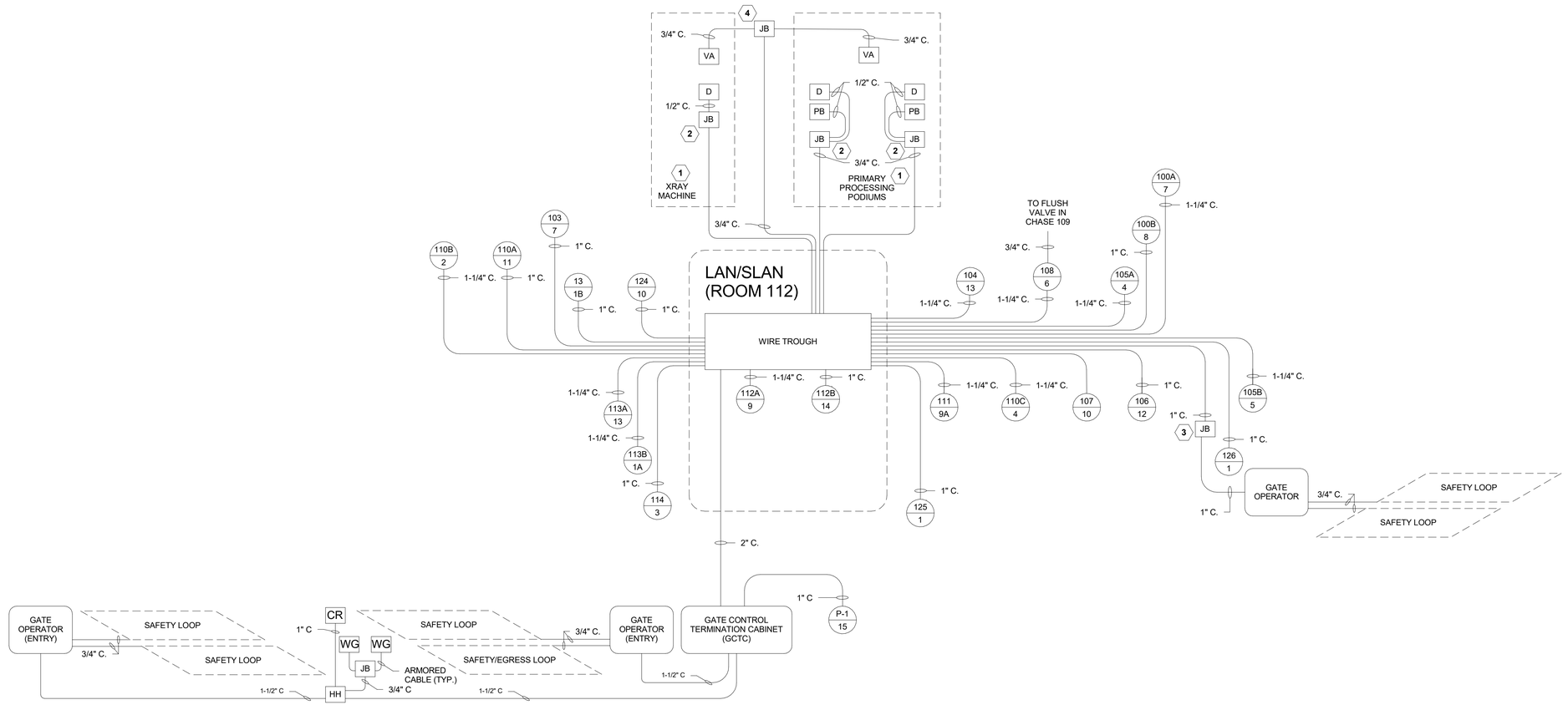
NOTES:

1. DIAGRAMS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL BENDS OR TURNS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE RACEWAY SYSTEM AS REQUIRED.
2. REFER TO INTERCONNECT DIAGRAM FOR ADDITIONAL INFORMATION.
3. ROUTE CONDUITS ACCORDING TO FIELD CONDITIONS AND AS COORDINATED WITH OTHER TRADES.

KEYED NOTES: ⬡

1. COORDINATE DEVICE MOUNTING IN PODIUM CASEWORK WITH CBP AND THE ARCHITECT.
2. PROVIDE 4" CAST-IN PLACE FLOOR BOX WITH CONDUIT STUBS FOR FOR SECURITY DEVICES, COORDINATE WITH DIVISION 26.
3. PROVIDE DOUBLE GANG BACK BOX WITH SINGLE GANG MUDRING FOR GATE OPERATOR OPEN/CLOSE KEYSWITCH. ROUTE CONDUIT FOR GATE OPERATOR CONTROL AND POLE MOUNTED SECURITY CAMERAS THROUGH BOX. REFER TO GATE LAYOUT PLAN ON SHEET TY103.
4. PROVIDE JUNCTION BOX (6" X 6" X 4" MIN.) ABOVE SUSPENDED CEILING. PLACE BOX IN A LOCATION ACCESSIBLE FOR MAINTENANCE. COORDINATE LOCATION WITH OTHER TRADES.



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SECURITY DOOR RISER DIAGRAM

SHEET NUMBER

TY703

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NOTES:

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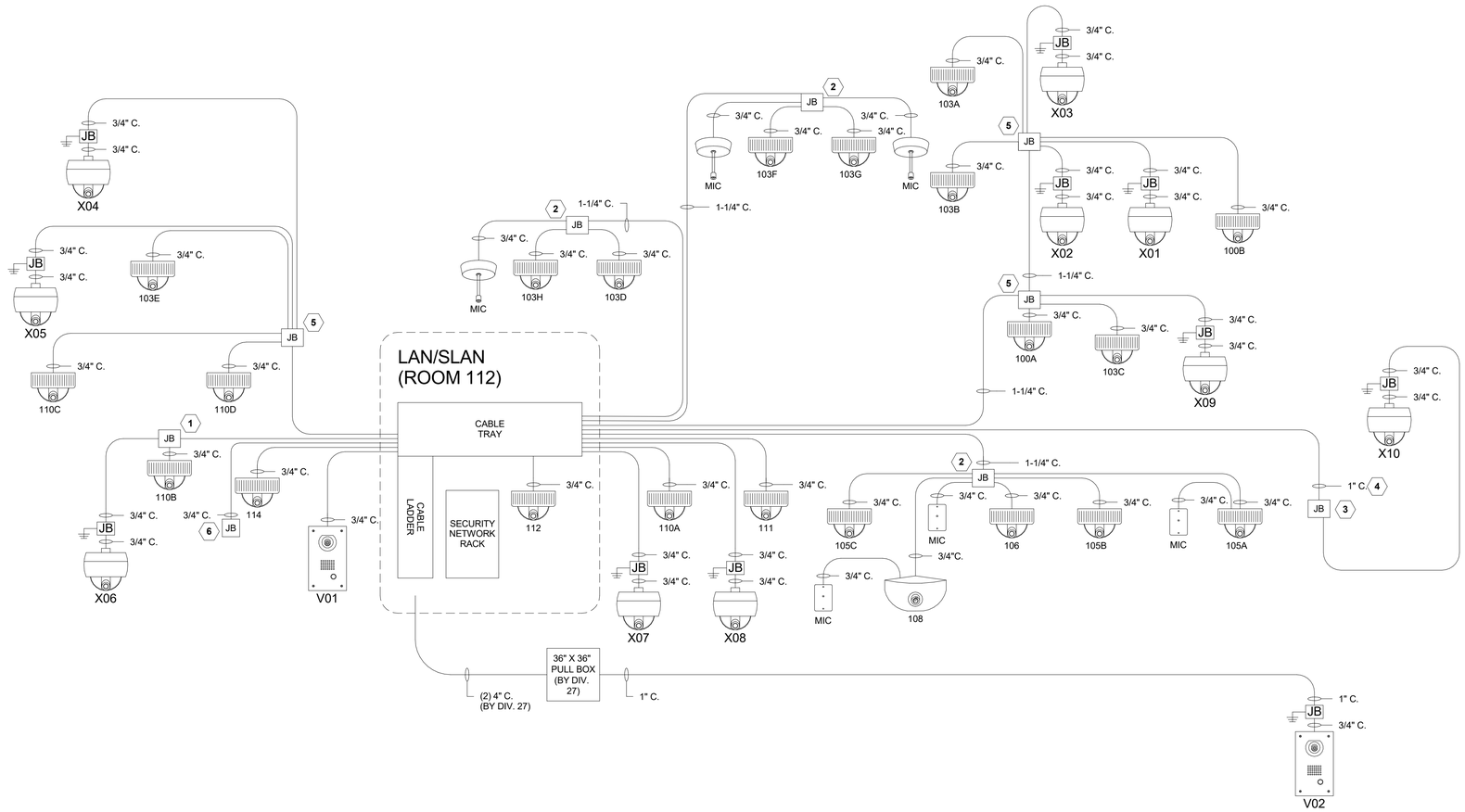
2. REFER TO INTERCONNECT DIAGRAM FOR ADDITIONAL INFORMATION.
3. ROUTE CONDUITS ACCORDING TO FIELD CONDITIONS AND AS COORDINATED WITH OTHER TRADES.

KEYED NOTES: ⬡

1. PROVIDE JUNCTION BOX (8" X 8" X 4" MIN.) ABOVE SUSPENDED CEILING. PLACE BOX IN A LOCATION ACCESSIBLE FOR MAINTENANCE. COORDINATE LOCATION WITH OTHER TRADES.
2. PROVIDE JUNCTION BOX (12" X 12" X 6" MIN.) ABOVE SUSPENDED CEILING FOR AUDIO INTERFACE UNITS, REFER TO DETAIL 3 ON SHEET TY506. PLACE BOX IN A LOCATION ACCESSIBLE FOR MAINTENANCE. COORDINATE LOCATION WITH OTHER TRADES.
3. DOUBLE GANG BACK BOX WITH SINGLE GANG MUDRING FOR GATE OPERATOR OPEN/CLOSE KEYSWITCH, REFER TO SECURITY DOOR RISER DIAGRAM ON SHEET TY703. ROUTE CONDUIT FOR POLE MOUNTED SECURITY CAMERA THROUGH BOX, REFER TO GATE LAYOUT PLAN ON SHEET TY103.
4. INDICATED CONDUIT ALSO SHOWN ON SECURITY DOOR RISER DIAGRAM, REFER TO SHEET TY703.
5. PROVIDE JUNCTION BOX (10X 10X 6" MIN.) ABOVE SUSPENDED CEILING. PLACE BOX IN A LOCATION ACCESSIBLE FOR MAINTENANCE. COORDINATE LOCATION WITH OTHER TRADES.
6. PROVIDE DOUBLE GANG JUNCTION BOX FOR WALL MOUNTED VIDEO INTERCOM CHIME.



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SECURITY CAMERA RISER DIAGRAM

SHEET NUMBER

TY704

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