FAWLEY BRYANT ARCHITECTURE | SMART BEAUTIFUL SPACES

5391 LAKEWOOD RANCH BLVD. NORTH
SUITE 300, SARASOTA, FLORIDA 34240
PH. 941.343.4070
FX. 941.749.5747

STRUCTURAL ENGINEER

Hees & Associates + Bennett & Pless, Inc

1381 FIFTH STREET
SARASOTA, FLORIDA 34236

PH: 941.955.4555
FX: 941.955.9333

M.E.P.F. ENGINEER

ENGINEERING MATRIX, INC.

2860 SCHERER DR SUITE 640
ST. PETERSBURG, FL 33716

PH: 727.573.4656

CIVIL ENGINEER

STANTEC

6920 PROFESSIONAL PKWY E
SARASOTA, FL 34240

PH: 941.907.6900

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

SHEET INDEX

90% PERMIT SET

02.02.24

FAWLEY BRYANT ARCHITECTURE | SMART BEAUTIFUL SPACES

FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	JW
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
AR96481
REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

90% PERMIT SET

A0.0
COVER

Originals printed at 24" x 36"
scale as required

Autodesk Docs://22009.01 MCSO at Premier/22009.01 MCSO_CENTRAL CD 01_10.24.rvt
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FINAL SITE PLAN/CONSTRUCTION PLANS

MANATEE COUNTY SHERIFF'S OFFICE

AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

PART OF SECTION 11, 12,13, 14 TOWNSHIP 35S, RANGE 19E, MANATEE COUNTY, FLORIDA

A DEVELOPMENT BY

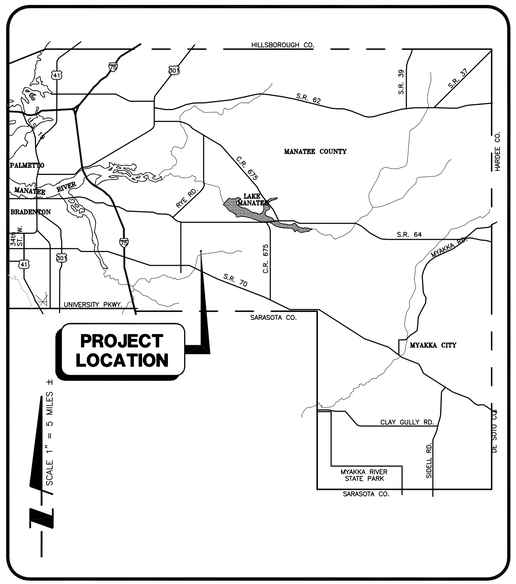
MANATEE COUNTY

1112 MANATEE AVE WEST
BRADENTON, FL 34205
941-748-4501

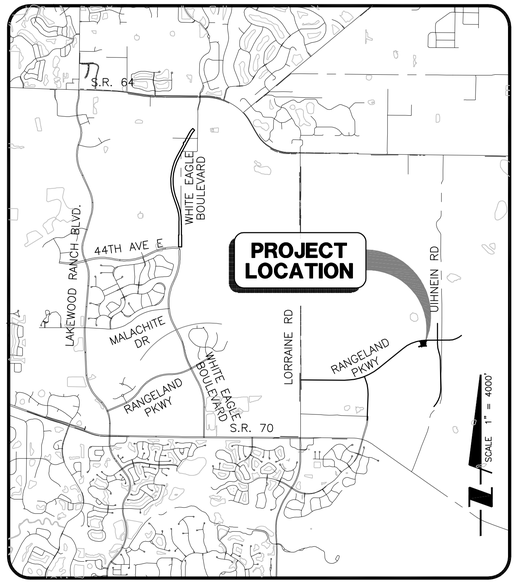
NOTES

1. PROJECT AREA = 2.7 AC
2. SWFWMD PROJECT AREA = 2.7 AC
3. ZONED: PD-PI; FUTURE LAND USE: R-OS
4. OVERALL OPEN SPACE FOR THE PROJECT WILL BE A MIN OF 30%.
5. BOUNDARY DATA SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY. REFER TO BOUNDARY SURVEY FOR BOUNDARY INFORMATION.
6. THE SITE IS PRESENTLY UNDEVELOPED. THE EXISTING LAND USE IS VACANT.
7. THE PROJECT IS LOCATED WITHIN FLOOD ZONE "X" (AREAS OUTSIDE 100-YR FLOODPLAIN), AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR MANATEE COUNTY. COMMUNITY PANEL NO 12081C0334E.
8. THIS PROJECT WILL BE SERVED BY MANATEE COUNTY FOR SANITARY SEWER & POTABLE WATER SUPPLY. ALL PROPOSED POTABLE WASTER, SANITARY SEWER AND IRRIGATION FACILITIES WILL BE PRIVATELY MAINTAINED, OR AS NOTED.
9. IRRIGATION SOURCE WILL BE NON POTABLE WATER FROM BRADEN RIVER UTILITIES. NON POTABLE WATER LINE WILL BE MAGENTA IN COLOR. WHEN AVAILABLE EFFLUENT MAY BE USED FOR IRRIGATION. THE USE OF POTABLE WATER FOR IRRIGATION WILL NOT BE ALLOWED.
10. ANY ONSITE TREES WHICH MUST BE REMOVED SHALL BE REPLACED IN ACCORDANCE WITH THE MANATEE COUNTY LAND DEVELOPMENT CODE. REPLACEMENT TREES SHALL BE INCLUDED IN THE REQUIRED LANDSCAPING. LANDSCAPE AND BUFFER AREAS WILL BE PROVIDED IN ACCORDANCE WITH THE MANATEE COUNTY LDC. SEE LANDSCAPE PLANS ENCLOSED.
11. ALL REQUIRED IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANATEE COUNTY LDC.
12. THERE ARE NO KNOW EXISTING RIGHT-OF-WAYS, STREETS, BUILDINGS, STRUCTURES, PLATS AND/OR HISTORIC SITES WITH THE SITE.
13. THERE ARE NO EXISTING COVENANTS OR DEED RESTRICTIONS WHICH WOULD AT THIS TIME AFFECT THE PROPOSED DEVELOPMENT.
14. THIS PROJECT HAS BEEN DESIGNED TO PROVIDE REASONABLE ASSURANCE THAT ALL APPLICABLE PERMITS CAN BE OBTAINED.
15. THE STORMWATER MANAGEMENT SYSTEM/COMMON AREA WITHIN THE PROJECT WILL BE ABANDONED AND PLUGGED WITH NEAT CEMENT FROM BOTTOM TO TOP BY A FLORIDA LICENSED WELL DRILLER (BY OTHERS)
16. THERE ARE NO KNOW WELL ON SITE. ANY WELLS DISCOVERED DURING CONSTRUCTION WILL BE ABANDONED AND PLUGGED WITH NEAT CEMENT FROM BOTTOM TO TOP BY A FLORIDA LICENSED WELL DRILLER (BY OTHERS) PRIOR TO CONSTRUCTION. APPLICATION SHALL BE SUBMITTED TO THE MANATEE COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT PRIOR TO WELL ABANDONMENT (BY OTHERS).
17. THE PROJECT CONSTRUCTION SHALL COMMENCE IN OCTOBER 2024 AND IS TO CONTINUE THROUGH DECEMBER OF 2025.
18. TOPOGRAPHY IS COMPILED FROM FIELD INFO4RMATION OBTAINED BY STANTEC. ALL EXISTING AND PROPOSED ELEVATION ON THE PLANS REFERENCE THE NAVD 88 VERTICAL ELEVATION DATUM.
19. THE STORMWATER MANAGEMENT SYSTEM HAD BEEN DESIGNED IN ACCORDANCE WITH MANATEE COUNTY LAND DEVELOPMENT CODE REQUIREMENTS, AND CHAPTER 40D-4 F.A.C. REQUIRMENTS. THE SITE IS SUBJECT TO A 25% REDUCTION OF THE ALLOWABLE PRE-DEVELOPED DISCHARE RATE.
20. THERE ARE NO EXISTING WETLANDS WITHIN THE PROJECT AREA. A SWFWMD PERMIT WILL BE OBTAINED AS REQUIRED.
21. THERE ARE NO PERENNIAL STREAMS ON SITE.
22. DRAINAGE AND UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED BY THE MANATEE COUNTY LAND DEVELOPMENT CODE.
23. ALL REQUIRED START AND FEDERAL PERMITS WILL BE APPLIED FOR BY THE OWNER.
24. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITES.
25. ALL OUTDOOR LIGHTING SHALL HAVE FULL HORIZONTAL CUT-OFF OPTICS AND SHIELDS TO PREVENT DIRECT ILLUMINATION OF RESIDENTIAL WINDOWS AND PATIOS REGARDLESS OF DISTANCE FROM THE LIGHT SOURCE. ALL OUTDOOR LIGHTING SHALL COMPLY WITH MANATEE COUNTY LDC SECTION 806.
26. PARKING CALCULATIONS:
    REQUIRED PARKING SPACES = 5,175 SF x 1 SPACE/300 SF = 18 SPACES
    REQUIRED HANDICAP SPACES = 1 SPACES
    PROVIDED PARKING SPACES = 38 SPACES (INCLUDING 3 HANDICAP SPACES)
27. THE PROPOSED BUILDING SHALL BE SPRINKLED. A MINIMUM OF 1,000 PGM OF FIRE FLOW WILL BE PROVIDED AT EACH FIRE HYDRANT.
28. SETBACKS:
    FRONT: = 50'
    SIDE: = 10'
    REAR = 25'
29. SOLID WASTE REMOVAL WILL BE PROVISED BT THE COUNTY CONTGRACTED WASTE HAULER.
30. ALL PROPOSED ONSITE IMPROVEMENTS WILL BE OWNED AND MAINTAINED BY MANATEE COUNTY.
31. TV VIDEO INSPECTION IS REQUIRED FOR ALL RCP STORMWATER PIPES WHICH CONVEY RUNOFF (PUBLIC OR PRIVATE).
32. LANDSCAPE BUFFERS:
    REAR: = 10' REQUIRED AND PROPOSED
    EAST: = 8' REQUIRED AND PROPOSED

	SOURCE	OWNERSHIP
POTABLE WATER	MANATEE COUNTY	COUNTY
WASTEWATER	MANATEE COUNTY	COUNTY
RECLAIMED/IRRIGATION WATER	BRADEN RIVER UTILITIES	COUNTY



LOCATION MAP



SITE MAP

Stantec

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TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL CENTER

INDEX TO SHEETS

DENOTES SWFWMD SUBMITTAL

NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

STATUS : REVISIONS

PROJECT DESIGNER	PROJECT ENGINEER	PROJECT MANAGER
DARWIN HEINZMAN	CAMERON MARKOWITZ	D. SCOTT McKENNA, P.E. FLORIDA LICENSE NO. 51435

DATE _____ CHECKED BY _____

90% PERMIT SET

PROJECT NUMBER

DATE	INDEX NUMBER
08/2023	215618385-05C-001CV

Saved: 1/31/2024 11:25:55 AM DHEINZMAN | Plotted: 2/7/2024 8:25:30 AM DHEINZMAN | U:\215618385\civil\drawing\05-MCSO\sheet_files\215618385-05C-001CV.dwg|Final Site Plan

EXISTING PUBLIC 120.0' RIGHT-OF-WAY

EXISTING RIGHT-OF-WAY LINE

MANATEE COUNTY SHERIFFS OFFICE

EXISTING DITCH

PROJECT AREA 2.7± ACRES

EXISTING DITCH

MANATEE COUNTY LIBRARY

EXISTING DITCH

SCALE: 1" = 30'

0 15' 30' 60'

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Issued	By	Appd	YYYY.MM.DD

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D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Sec. 11,12 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-002AP

Scale: 1"=30'

Dwn.	Dsgn. SW/51435	Chkd.	Date 08/2023 YYYY.MM.DD

Title
AERIAL LOCATION MAP

Revision:

Sheet: 02 of 17

ORIGINAL SHEET - ARCH D-SAR

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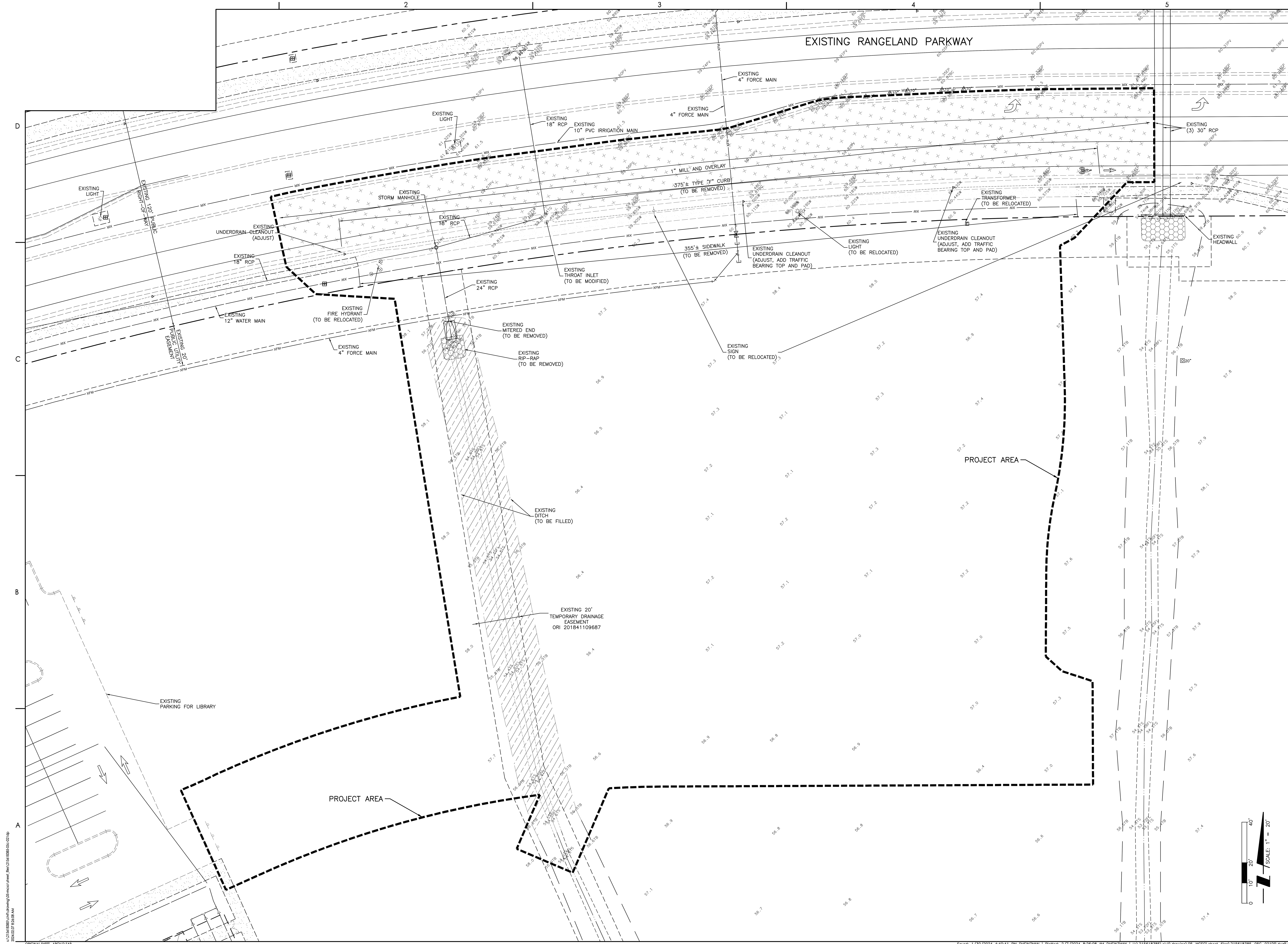

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FLORIDA LICENSE NO. 51435

Client/Project

MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

Project No.: 215618385

File Name: 215618385-05C-021DP

Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	SW/51435		08/2023

Title

EXISTING CONDITIONS DEMOLITION PLAN

Revision:

Sheet: 03 of 17

ORIGINAL SHEET - ARCH D-SAR

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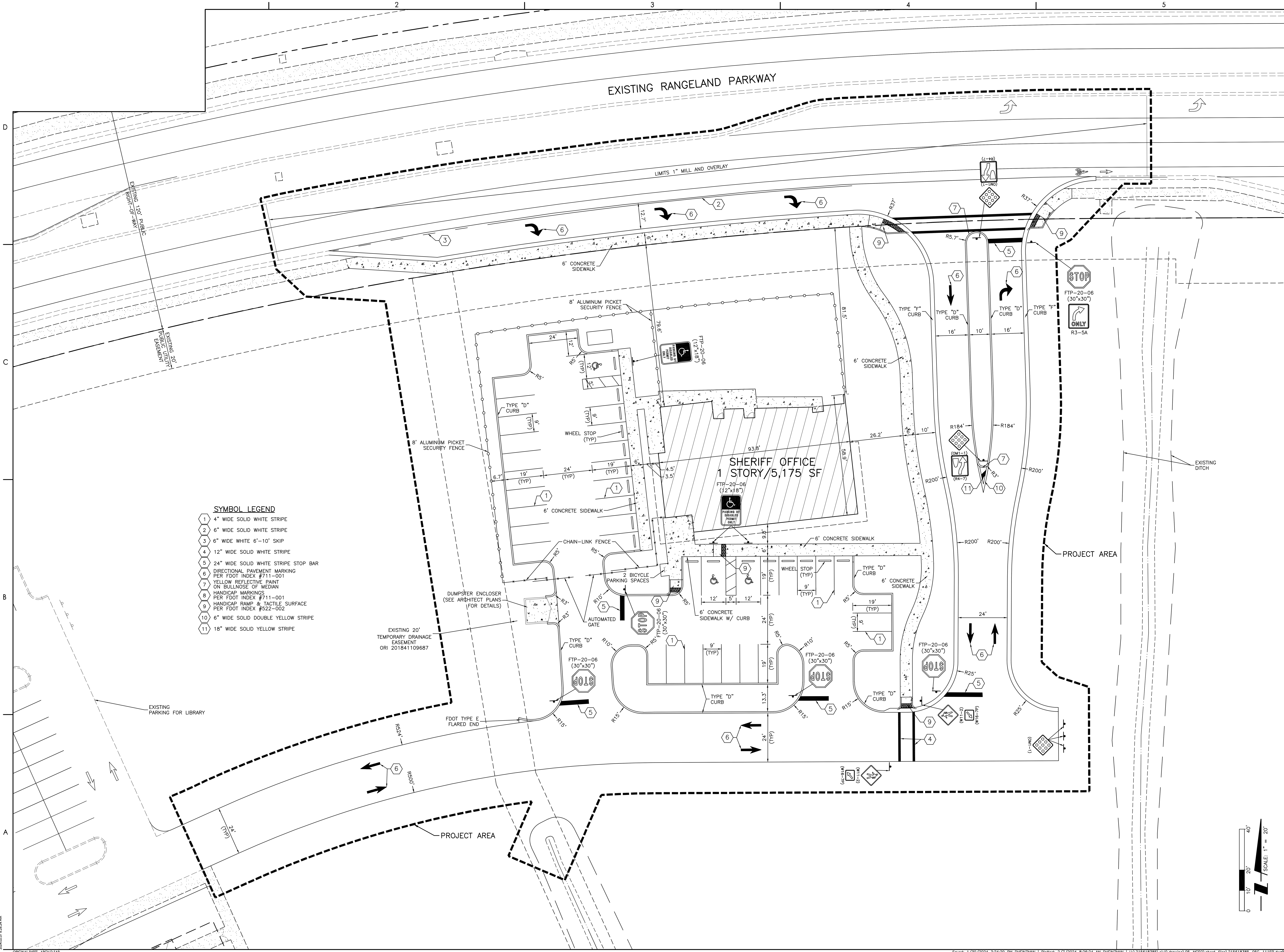

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FLORIDA LICENSE NO. 51435

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MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Sec. 11,12, 13,14 Twp. 35S Rng. 19E

Project No.: 215618385

File Name: 215618385-05C-111SP

Scale: 1"=20'

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	SW/51435		08/2023

Title

SITE PLAN

Revision:

Sheet: 04 of 17

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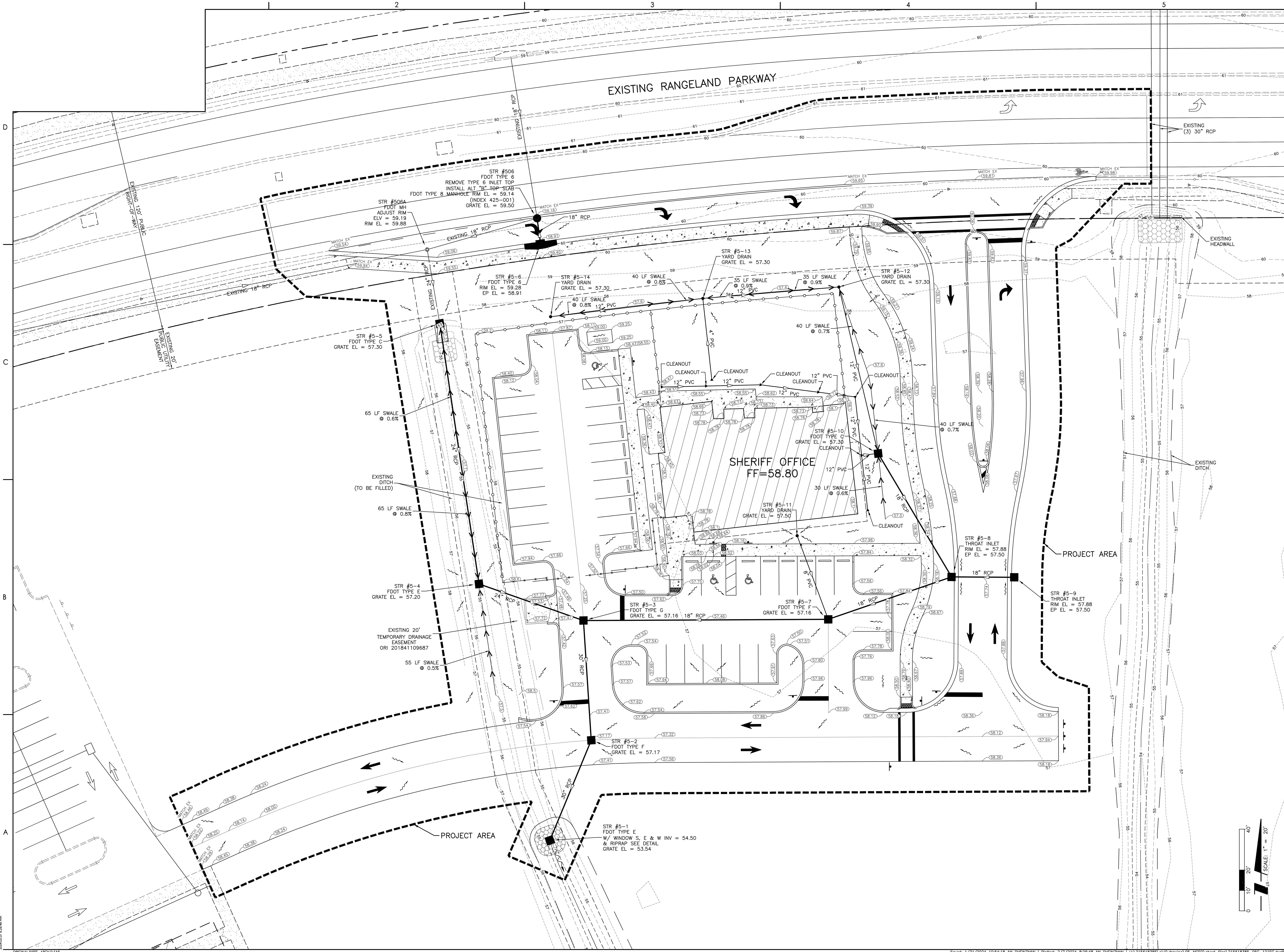
EXISTING RANGELAND PARKWAY
EXISTING 120' PUBLIC RIGHT-OF-WAY
EXISTING 20' PUBLIC UTILITY EASEMENT
EXISTING (3) 30" RCP
EXISTING HEADWALL
EXISTING DITCH
EXISTING DITCH (TO BE FILLED)
EXISTING 20' TEMPORARY DRAINAGE EASEMENT ORI 201841109687
STR #506 FDOT TYPE 6 REMOVE TYPE 6 INLET TOP INSTALL ALT "B" TOP SLAB FDOT TYPE 8 MANHOLE RIM EL = 59.14 (INDEX 425-001) GRATE EL = 59.50
STR #506A FDOT MH ADJUST RIM ELV = 59.19 RIM EL = 59.88
STR #5-6 FDOT TYPE 6 RIM EL = 59.28 EP EL = 58.91
STR #5-14 YARD DRAIN GRATE EL = 57.30
STR #5-13 YARD DRAIN GRATE EL = 57.30
STR #5-12 YARD DRAIN GRATE EL = 57.30
STR #5-5 FDOT TYPE C GRATE EL = 57.30
STR #5-10 FDOT TYPE C GRATE EL = 57.30
STR #5-11 YARD DRAIN GRATE EL = 57.50
STR #5-4 FDOT TYPE E GRATE EL = 57.20
STR #5-3 FDOT TYPE G GRATE EL = 57.16
STR #5-7 FDOT TYPE F GRATE EL = 57.16
STR #5-8 THROAT INLET RIM EL = 57.88 EP EL = 57.50
STR #5-9 THROAT INLET RIM EL = 57.88 EP EL = 57.50
STR #5-2 FDOT TYPE F GRATE EL = 57.17
STR #5-1 FDOT TYPE E W/ WINDOW S, E & W INV = 54.50 & RIPRAP SEE DETAIL GRATE EL = 53.54
SHERIFF OFFICE FF=58.80
PROJECT AREA
65 LF SWALE @ 0.6%
65 LF SWALE @ 0.8%
55 LF SWALE @ 0.5%
40 LF SWALE @ 0.8%
35 LF SWALE @ 0.9%
40 LF SWALE @ 0.7%
30 LF SWALE @ 0.6%
CLEANOUT
12" PVC
18" RCP
24" RCP
30" RCP
SCALE: 1" = 20'

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Sarasota FL 34240-8414
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FLORIDA LICENSE NO. 51435

Client/Project

MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.: 215618385

File Name: 215618385-05C-121SG

Scale: 1"=20'

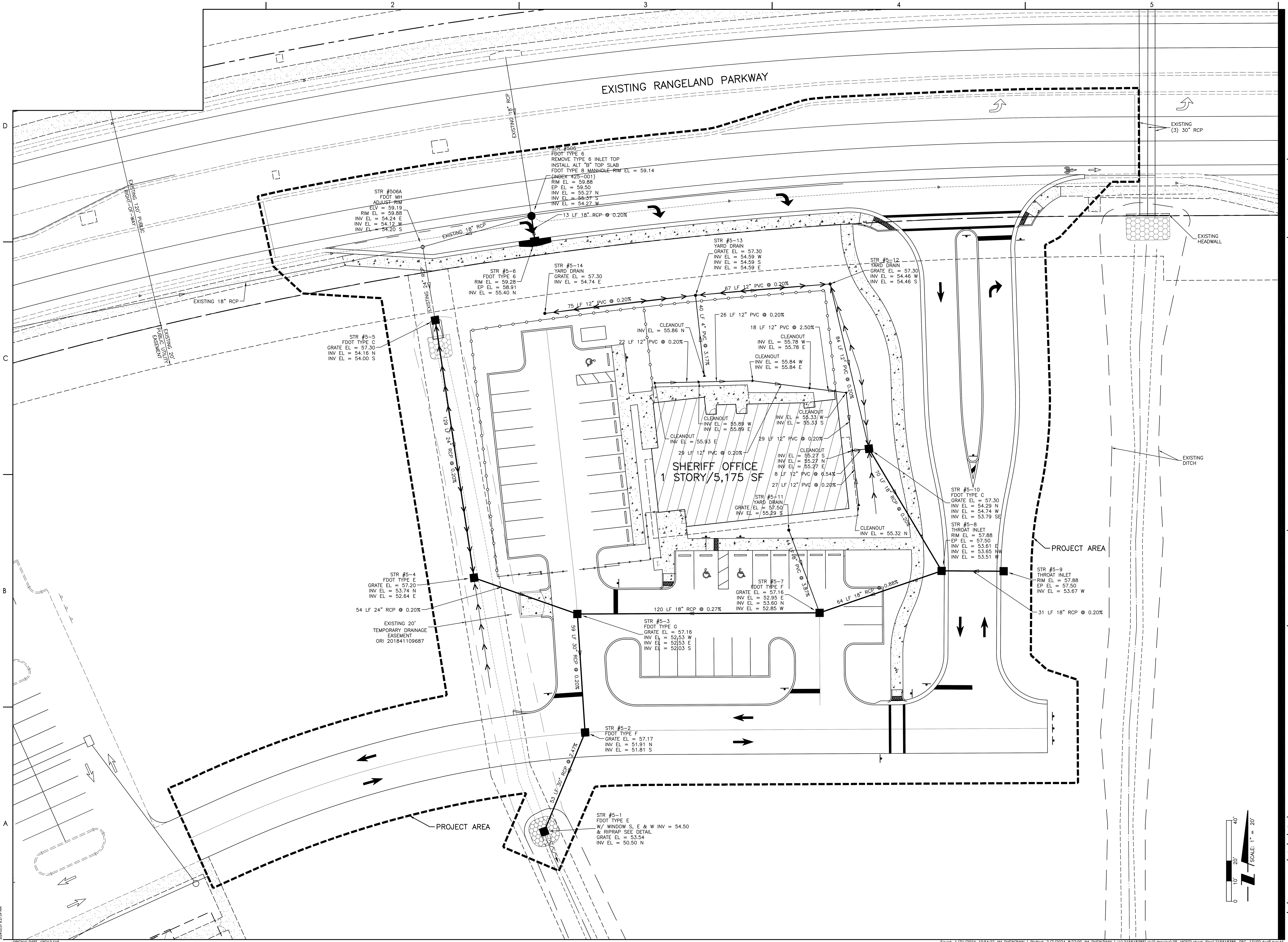
Dwn. | Dsgn. | Chkd. | YYYY.MM.DD

Title

GRADING PLAN

Revision:

Sheet: 05 of 17


EXISTING RANGELAND PARKWAY
EXISTING 120' PUBLIC RIGHT-OF-WAY
EXISTING 20' PUBLIC UTILITY EASEMENT
EXISTING 18" RCP
EXISTING 24" RCP
EXISTING (3) 30" RCP
EXISTING HEADWALL
EXISTING DITCH
PROJECT AREA
SHERIFF OFFICE
1 STORY/5,175 SF
STR #506
FDOT TYPE 6
REMOVE TYPE 6 INLET TOP
INSTALL ALT "B" TOP SLAB
FDOT TYPE 8 MANHOLE RIM EL = 59.14
(INDEX 425-001)
RIM EL = 59.88
EP EL = 59.50
INV EL = 55.27 N
INV EL = 55.37 S
INV EL = 54.27 W
STR #506A
FDOT MH
ADJUST RIM
ELV = 59.19
RIM EL = 59.88
INV EL = 54.24 E
INV EL = 54.12 W
INV EL = 54.20 S
13 LF 18" RCP @ 0.20%
STR #5-6
FDOT TYPE 6
RIM EL = 59.28
EP EL = 58.91
INV EL = 55.40 N
STR #5-14
YARD DRAIN
GRATE EL = 57.30
INV EL = 54.74 E
STR #5-13
YARD DRAIN
GRATE EL = 57.30
INV EL = 54.59 W
INV EL = 54.59 S
INV EL = 54.59 E
STR #5-12
YARD DRAIN
GRATE EL = 57.30
INV EL = 54.46 W
INV EL = 54.46 S
75 LF 12" PVC @ 0.20%
67 LF 12" PVC @ 0.20%
40 LF 4" PVC @ 3.17%
26 LF 12" PVC @ 0.20%
18 LF 12" PVC @ 2.50%
22 LF 12" PVC @ 0.20%
84 LF 12" PVC @ 0.20%
CLEANOUT
INV EL = 55.86 N
CLEANOUT
INV EL = 55.78 W
INV EL = 55.78 E
CLEANOUT
INV EL = 55.84 W
INV EL = 55.84 E
CLEANOUT
INV EL = 55.89 W
INV EL = 55.89 E
CLEANOUT
INV EL = 55.93 E
CLEANOUT
INV EL = 55.33 W
INV EL = 55.33 S
29 LF 12" PVC @ 0.20%
29 LF 12" PVC @ 0.20%
CLEANOUT
INV EL = 55.27 S
INV EL = 55.27 N
INV EL = 55.27 E
8 LF 12" PVC @ 6.54%
27 LF 12" PVC @ 0.20%
STR #5-11
YARD DRAIN
GRATE EL = 57.50
INV EL = 55.29 S
CLEANOUT
INV EL = 55.32 N
44 LF 18" PVC @ 3.87%
70 LF 18" RCP @ 0.20%
STR #5-5
FDOT TYPE C
GRATE EL = 57.30
INV EL = 54.16 N
INV EL = 54.00 S
129 LF 24" RCP @ 0.20%
STR #5-10
FDOT TYPE C
GRATE EL = 57.30
INV EL = 54.29 N
INV EL = 54.74 W
INV EL = 53.79 SE
STR #5-8
THROAT INLET
RIM EL = 57.88
EP EL = 57.50
INV EL = 53.61 E
INV EL = 53.65 NW
INV EL = 53.51 W
STR #5-9
THROAT INLET
RIM EL = 57.88
EP EL = 57.50
INV EL = 53.67 W
31 LF 18" RCP @ 0.20%
STR #5-4
FDOT TYPE E
GRATE EL = 57.20
INV EL = 53.74 N
INV EL = 52.64 E
54 LF 24" RCP @ 0.20%
EXISTING 20' TEMPORARY DRAINAGE EASEMENT
ORI 201841109687
120 LF 18" RCP @ 0.27%
STR #5-7
FDOT TYPE F
GRATE EL = 57.16
INV EL = 52.95 E
INV EL = 53.60 N
INV EL = 52.85 W
64 LF 18" RCP @ 0.88%
STR #5-3
FDOT TYPE G
GRATE EL = 57.16
INV EL = 52.53 W
INV EL = 52.53 E
INV EL = 52.03 S
59 LF 30" RCP @ 0.20%
STR #5-2
FDOT TYPE F
GRATE EL = 57.17
INV EL = 51.91 N
INV EL = 51.81 S
53 LF 30" RCP @ 2.47%
STR #5-1
FDOT TYPE E
W/ WINDOW S, E & W INV = 54.50
& RIPRAP SEE DETAIL
GRATE EL = 53.54
INV EL = 50.50 N
SCALE: 1" = 20'

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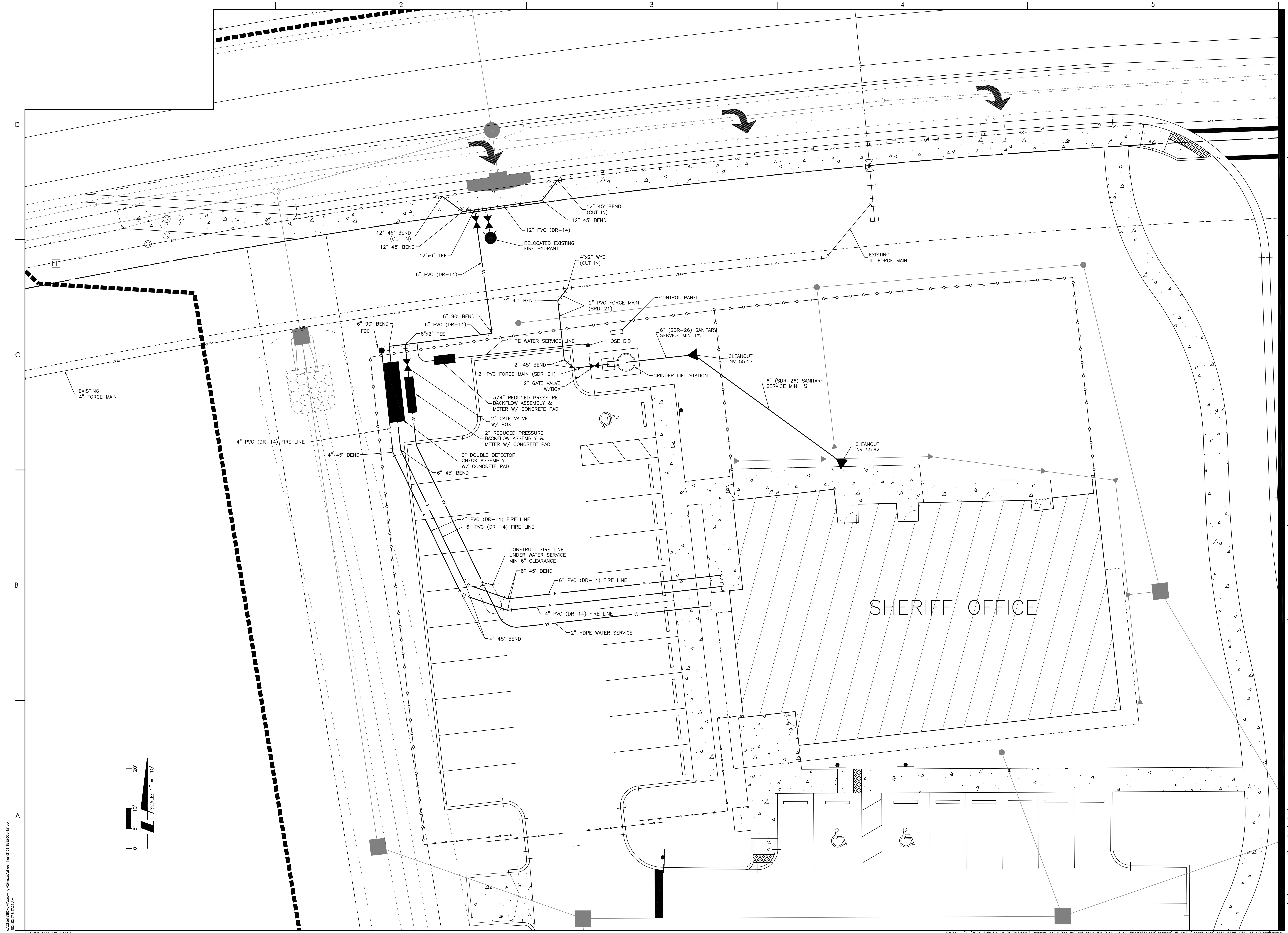
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Project No.: 215618385
File Name: 215618385-05C-1315D
Scale: 1"=20'

Title
DRAINAGE PLAN

Revision:
Sheet: 06 of 17



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FLORIDA LICENSE NO. 51435

Client/Project

MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-151UP
Scale: 1"=20'

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	SW/51435		08/2023

Title

UTILTIY PLAN

Revision:

Sheet: 07 of 17

GENERAL SITE CONSTRUCTION NOTES:

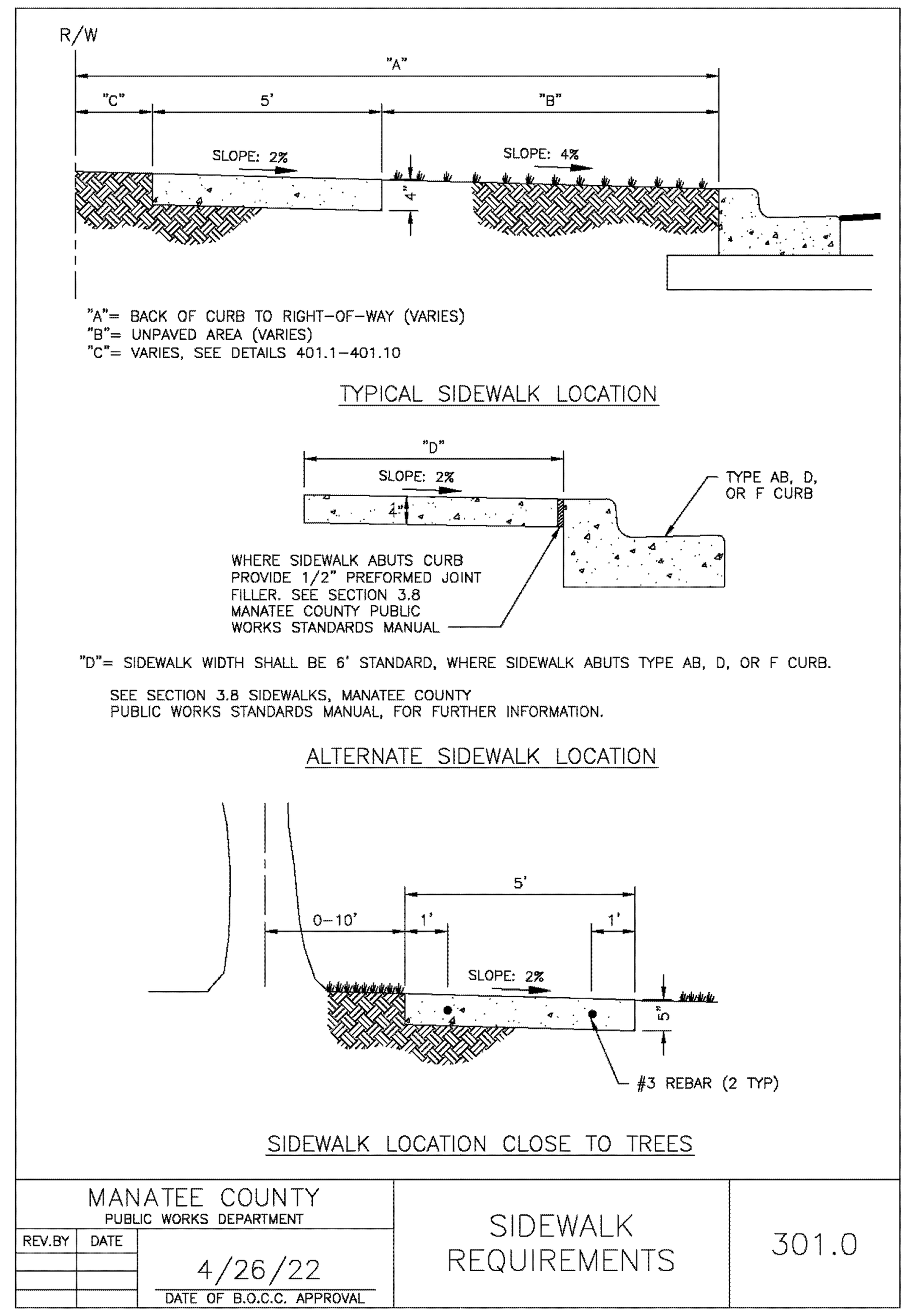
1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
2. ALL CLEARING AND GRUBBING DEBRIS TO BE BURNED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM. A BURN PERMIT IS REQUIRED FROM THE ENVIRONMENTAL MANAGEMENT DEPARTMENT IF BURNING IS TO OCCUR.
3. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
4. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CERTAIN TREES ARE DESIGNATED BY THE OWNER TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THESE TREES ARE HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) ARE DAMAGED BY CONSTRUCTION OPERATIONS OR BY OTHER MEANS (EXCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) AND PERISHES WITHIN THE CONSTRUCTION PERIOD, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. MANATEE COUNTY NRD APPROVAL IS REQUIRED PRIOR TO REMOVAL OF ANY TREES DESIGNATED TO REMAIN. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL, OR MACHINERY REQUIRED TO REMOVE SAID TREE(S).
6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
7. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER.
8. NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770), MANATEE COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, PEACE RIVER ELECTRIC, FRONTIER AND ANY OTHER UTILITIES (GAS COMPANIES, CABLE TV, ETC.) PRIOR TO CONSTRUCTION OPERATION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE. 9. ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO, MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
10. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF MANATEE COUNTY LAND DEVELOPMENT CODE. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING. THE ENGINEER SHALL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR THE PROTECTION OF PRESERVE AREAS SUBJECT TO THE APPROVAL OF SWFWMD & MANATEE COUNTY NRD THE CONTRACTOR SHALL NOTIFY THE ENGINEER & MANATEE COUNTY NRD WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM MANATEE COUNTY.
11. ALL LIMITS OF CONSTRUCTION FOR THE OUTFALL PIPE/STRUCTURE/SPREADER SWALE SHALL BE STAKED PRIOR TO ANY CONSTRUCTION WITHIN THE LAKES OR WETLAND/BUFFERS. APPROVAL FROM THE ENGINEER, AND THE OWNER IS REQUIRED BEFORE EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
12. LOCATION OF ALL STORM STRUCTURES (WEIR, MITERED END, CONTROL STRUCTURE, GRATE INLET, ETC.) ADJACENT TO A WETLAND SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE AFTER SURVEY STAKE OUT AND PRIOR TO INSTALLATION.
13. FILLING, EXCAVATING OR REMOVAL OF NATIVE VEGETATION SHALL BE PROHIBITED IN THE PRESERVATION AREA, UNLESS APPROVED BY MANATEE COUNTY NRD.
14. THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWFWMD PERMIT FOR THE PROJECT ON SITE. ALL CONCRETE PIPE IN R/W SHALL HAVE A FILTER FABRIC JACKET MINIMUM 12" EACH
15. SIDE OF JOINT WITH MINIMUM 24" OVERLAP AT SEAM PER FDOT INDEX #280 & #199 & ALL APPLICABLE COUNTY REQUIREMENTS. IN ADDITION, ALL ELLIPTICAL PIPE SHALL HAVE ALL JOINTS WRAPPED. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION
16. AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
17. CONTRACTOR SHALL CONSTRUCT ALL VALVES SO THAT NO VALVE BOXES ARE LOCATED IN HANDICAP RAMPS AND/OR CURBING. IF VALVES ARE FOUND TO BE IN THESE LOCATIONS, THE COST OF VALVE RELOCATION IS THE CONTRACTOR'S RESPONSIBILITY. THRUST BLOCKS AND JOINT RESTRAINTS DETAILS ON THE WATER DISTRIBUTION DETAILS
18. SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS. TRENCH DETAILS ON THE WASTEWATER COLLECTION CONSTRUCTION DETAILS SHEET SHALL
19. ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
20. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWFWMD ERP INFORMATION MANUAL, LATEST EDITION AND THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION.
21. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MILLENNIUM EDITION AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, 2006, TRAFFIC CONTROL THROUGH WORK ZONES, SERIES 600 INDICES.
57. THE USE OF KELLY WELLS: ALL KELLY WELLS USED DURING CONSTRUCTION SHALL BE OF ONE CONTINUOUS STICK OF PIPE AND SHOULD BE PULLED PRIOR TO BACKFILL AND COMPACTION. IF THE KELLY WELL CANNOT BE PULLED PRIOR TO THE BACKFILL OPERATION IT SHALL BE PULLED PRIOR TO ANY ROADWAY WORK AND/OR ANY FINISH GRADING. WHEN THE KELLY WELL FALLS OUTSIDE THE PROPOSED ROW IT CAN BE FILLED WITH SHELL UP TO 2' OF FINISH GRADE THEN FINISH FILLING WITH REGULAR FILL MATERIAL AND COMPACTED TO 95%. IF THE KELLY WELL FALLS WITHIN THE ROW IT SHALL BE FILLED WITH FLOWABLE FILL WITHIN 1' OF BOTTOM OF THE SUBGRADE. WHEN THE FLOWABLE FILL HAS SET UP FINISH FILLING WITH REGULAR FILL MATERIAL AND COMPACTED TO 98%. IN EITHER CASE THE KELLY WELL SHALL BE FILLED PRIOR TO PULLING THE PIPE AND SHALL BE PULLED IMMEDIATELY AFTER FILLING.

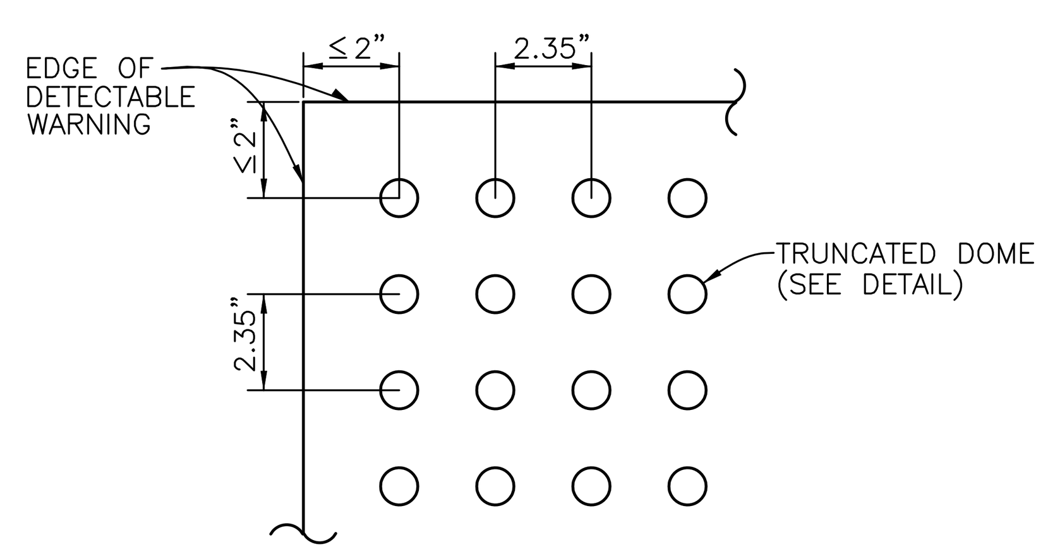
S-M015 (04/30/18)

TV VIDEO INSPECTION IS REQUIRED FOR ALL RCP STORMWATER PIPES WHICH CONVEY RUNOFF STREETS (PUBLIC OR PRIVATE).

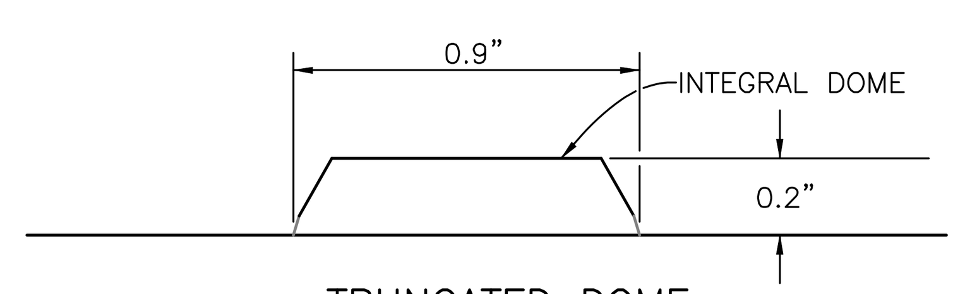
LASER PROFILE IS REQUIRED FOR ALL ADS/HDPE STORMWATER PIPES WHICH CONVEY RUNOFF STREETS (PUBLIC OR PRIVATE). FOR PIPE 48 INCHES OR LESS IN DIAMETER, PROVIDE THE ENGINEER A VIDEO DVD AND REPORT USING LOW BARREL DISTORTION VIDEO EQUIPMENT WITH LASER PROFILE TECHNOLOGY, NON-CONTACT MICROMETER AND ASSOCIATED SOFTWARE (OR APPROVED EQUAL) THAT PROVIDES:

1. ACTUAL RECORDED LENGTH AND WIDTH MEASUREMENTS OF ALL CRACKS WITHIN THE PIPE.
2. ACTUAL RECORDED SEPARATION MEASUREMENT OF ALL PIPE JOINTS.
3. PIPE OVALITY REPORT.
4. DEFLECTION MEASUREMENTS AND GRAPHICAL DIAMETER ANALYSIS REPORT IN TERMS OF X AND Y AXIS.
5. FLAT ANALYSIS REPORT.
6. REPRESENTATIVE DIAMETER OF THE PIPE.
7. PIPE DEFORMATION MEASUREMENTS, LEAKS, DEBRIS, OR OTHER DAMAGE OR DEFECTS.
8. DEVIATION IN PIPE LINE AND GRADE, JOINT GAPS, AND JOINT MISALIGNMENT.





PLAN VIEW



TRUNCATED DOME

CURB RAMP DETECTABLE WARNING DETAIL

NOTES:
DETECTABLE WARNINGS ON WALKING SURFACES

ALL DETECTABLE WARNINGS SURFACES/TRUNCATED DOMES SHALL BE VANGUARD ADA SYSTEMS (QPL S527-0015) OR APPROVED ALTERNATE. THE ENTIRE DETECTABLE WARNING SURFACE SHALL BE SEAMLESS AND BLACK IN COLOR.

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

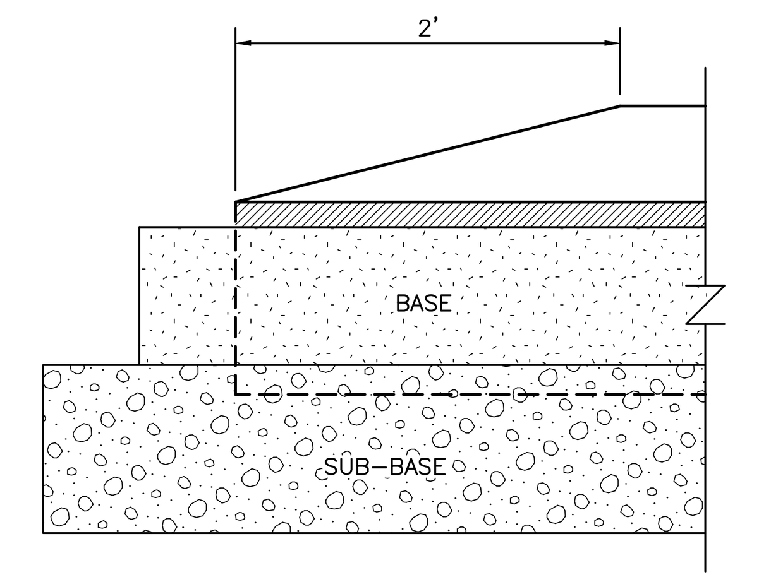
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:

$$CONTRAST = [(B1-B2)/B1] \times 100$$

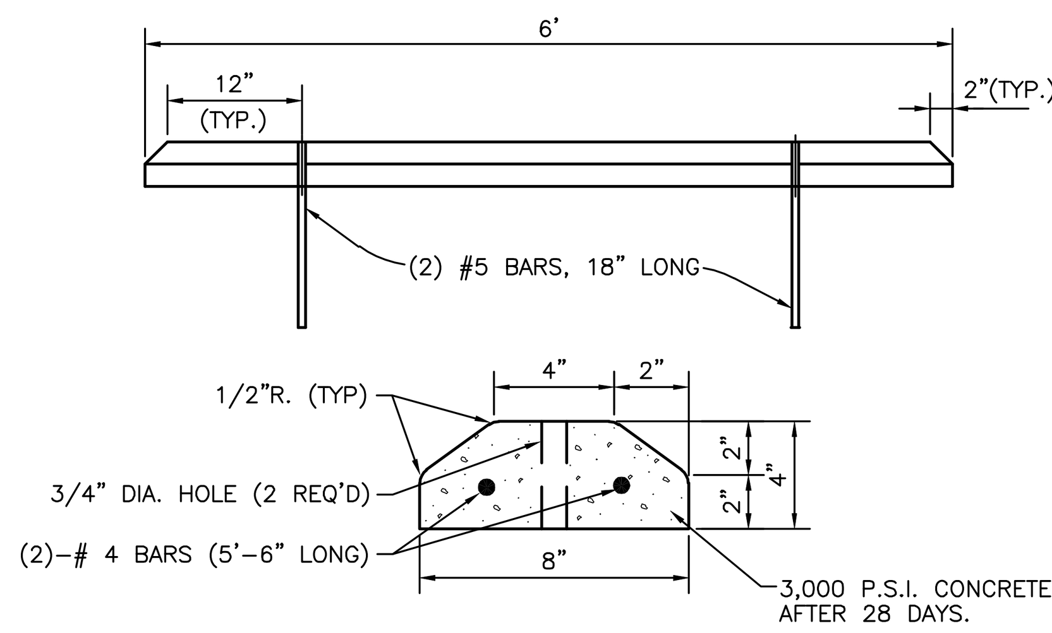
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

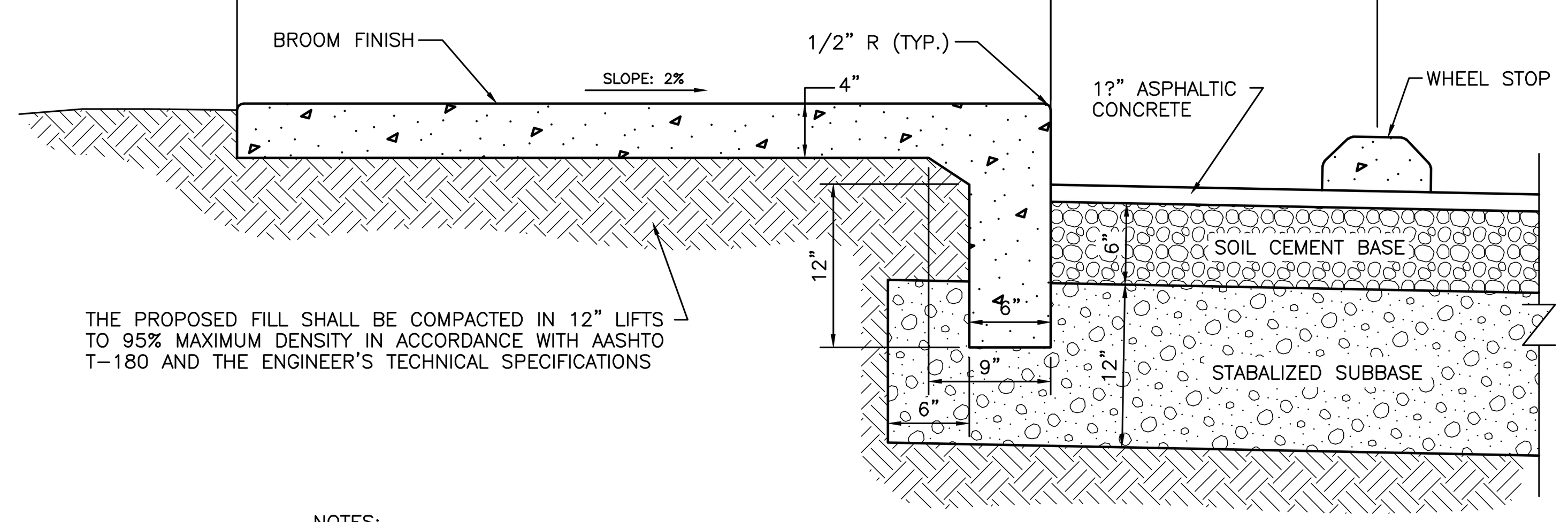
CURB RAMP DETECTABLE WARNINGS
N.T.S.



TYPE "D" CURB END TAPER
S-P054 N.T.S.



PRECAST CONCRETE WHEEL STOP
S-P029 N.T.S.



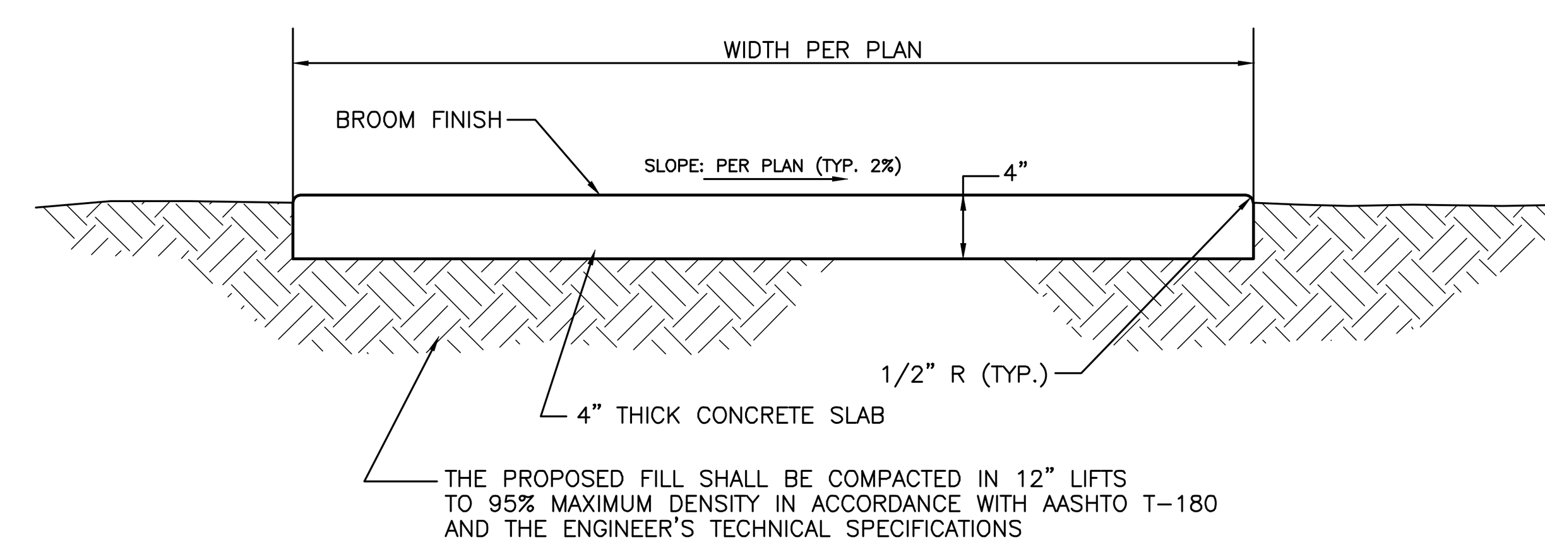
NOTES:

CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS

SUBGRADE SHALL BE SAND, COMPACTED TO A FIRM EVEN SURFACE, TRUE TO GRADE AND CROSS-SECTION, AND BE MOIST WHEN CONCRETE IS PLACED.

SIDEWALK SHALL HAVE CONTRACTION JOINTS AT 5' INTERVALS AND AN EXPANSION JOINT EVERY 35'.

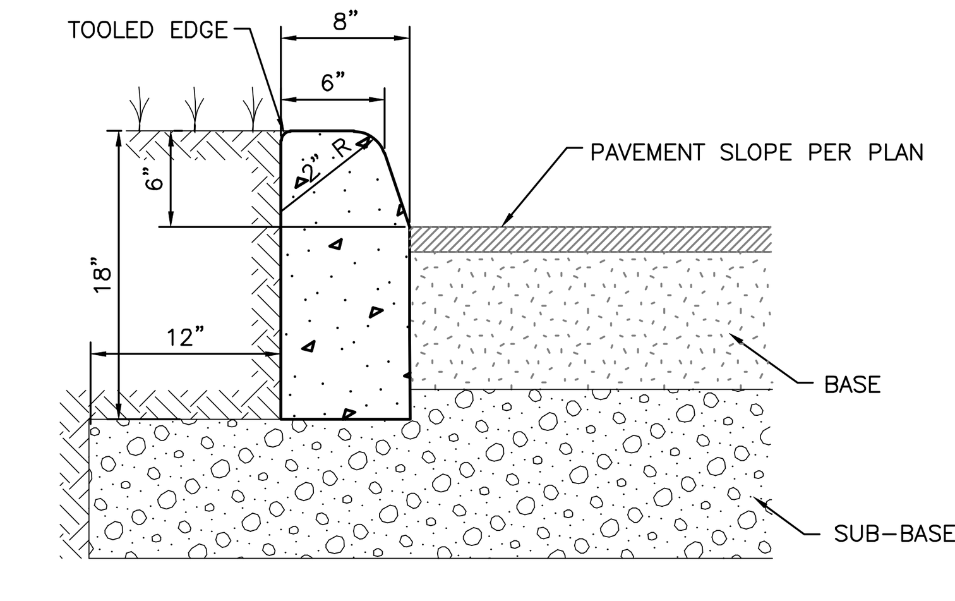
TYPICAL SIDEWALK DETAIL(W/ CURB)
S-P014 N.T.S.



SIDEWALK NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
2. CONTRACTION JOINTS SHALL BE SAW CUT TO A 1 1/2" DEPTH AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
3. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS, AT FIXED OBJECTS (DRIVEWAYS, CURBS ETC.) AND INTERVALS NOT TO EXCEED 50' EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" PREFORMED JOINT FILLER.
4. ALL SIDEWALKS AND SIDEWALK CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

TYPICAL SIDEWALK DETAIL
(MANATEE) N.T.S.
S-P023(9/3/02)



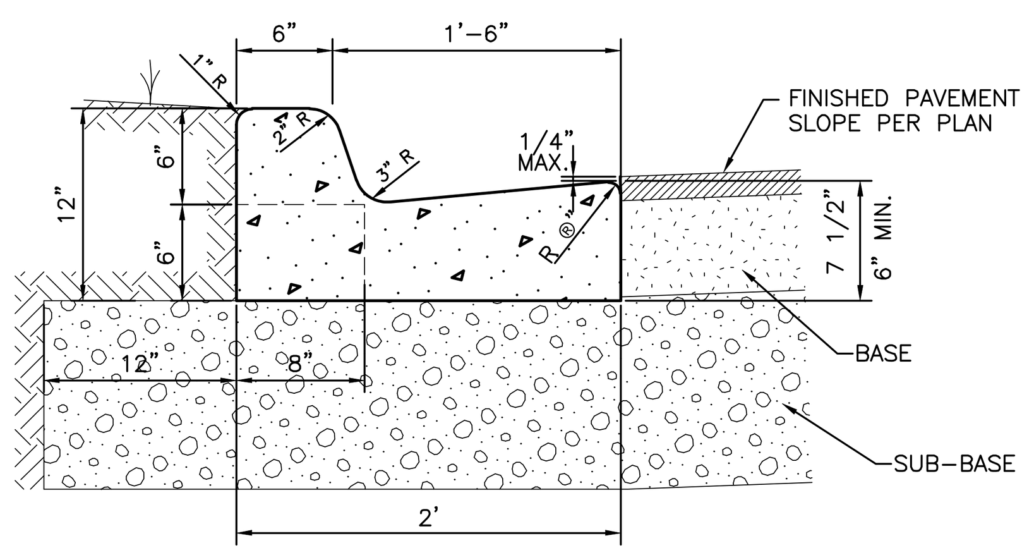
CURB NOTES:

1) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.

2) AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300

3) EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.

TYPE "D" CURB
(MANATEE) N.T.S.
S-P040(09/03/02)



CURB NOTES:

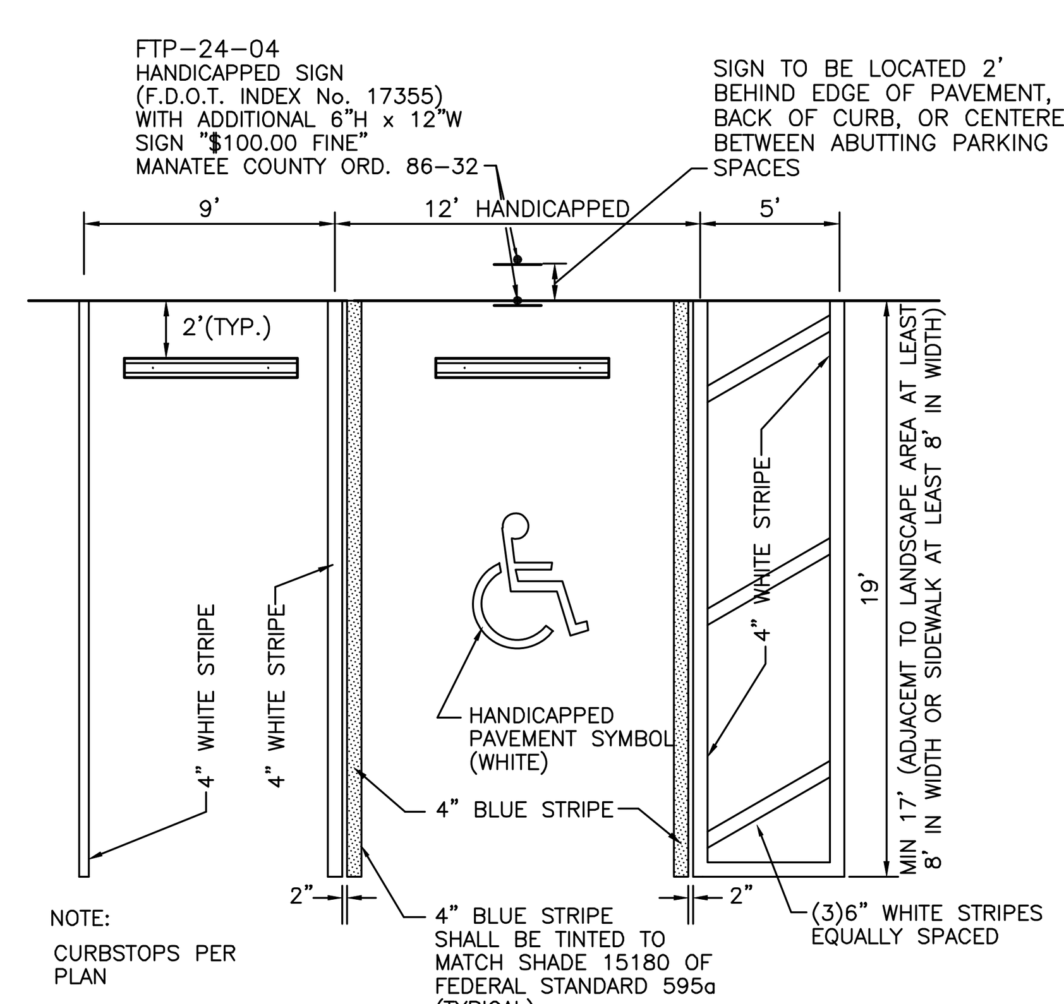
1) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.

2) WHEN USED ON THE HIGH SIDE OF THE ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.

3) AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300

4) EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.

FDOT TYPE "F" CURB
(MANATEE) N.T.S.
S-P043(9/3/02)



TYPICAL PARKING SPACE
S-P025S(12/07/04) MANATEE

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

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Revision | By | Appd | YYYY.MM.DD

Issued | By | Appd | YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

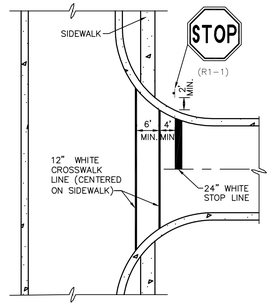
Project No.: 215618385
File Name: 215618385-05C-501PD
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	SW/51435		08/2023

Title
PAVING AND DRAINAGE DETAILS

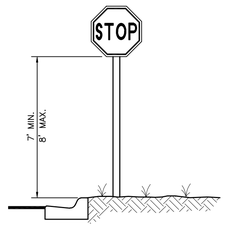
Revision:

Sheet: 08 of 17



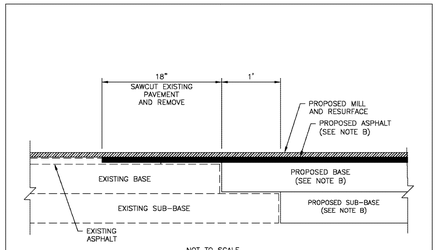
STOP SIGN, STOP LINE AND CROSSWALK LOCATION DETAIL

S-P037 (09/07/04) N.T.S.



TYPICAL STOP SIGN DETAIL

N.T.S.



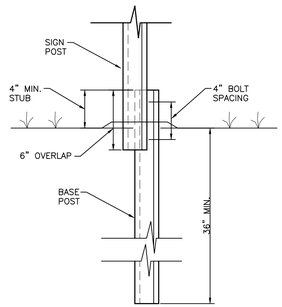
NOT TO SCALE

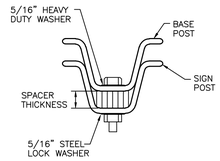
NOTES:

A. LIMITS OF MILL AND RESURFACE – EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.

B. ASPHALT, BASE, AND SUB-BASE SHALL MATCH EXISTING THICKNESS OR THE APPLICABLE COUNTY STANDARD TYPICAL SECTION, WHICHEVER IS GREATER.

C. SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.





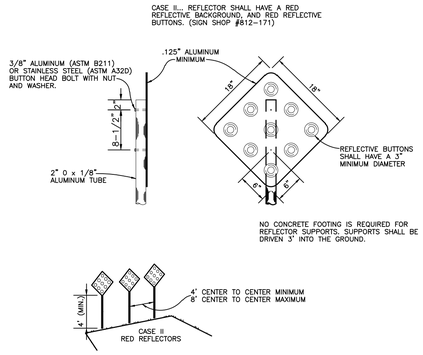
SECTION THROUGH SPLICE

N.T.S.

NOTE:
ALL MATERIALS AS PER F.D.O.T.
SPECIFICATIONS, INDEX NO. 11865,
AND ALL APPLICABLE COUNTY REQUIREMENTS.

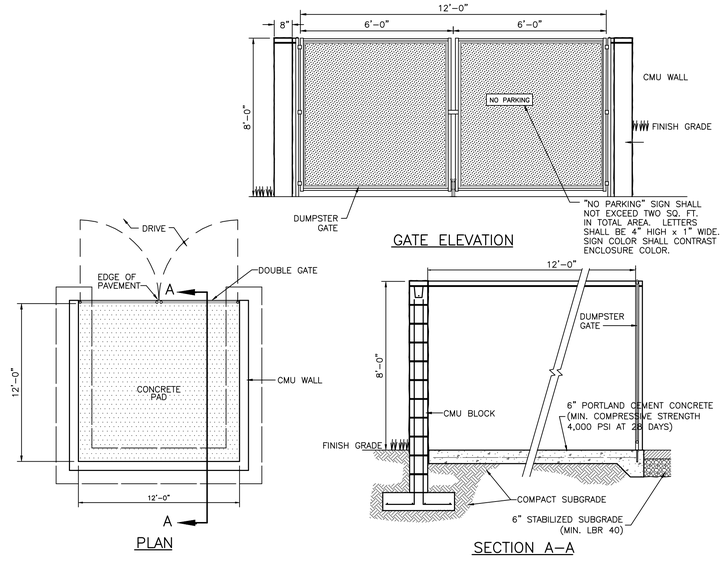
SIGN POST BREAKAWAY DETAIL

S-P027 N.T.S.



TEMPORARY ROAD END BARRICADE

S-P030 N.T.S.



GATE ELEVATION

PLAN

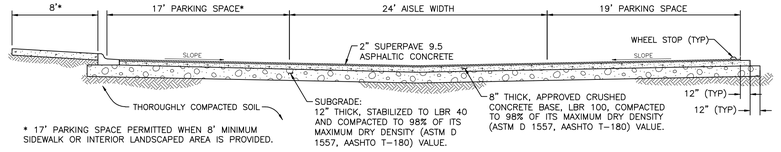
SECTION A-A

TYPICAL DUMPSTER ENCLOSURE DETAIL

NTS

NOTE: A SEPARATE BUILDING PERMIT IS REQUIRED FOR THE DUMPSTER

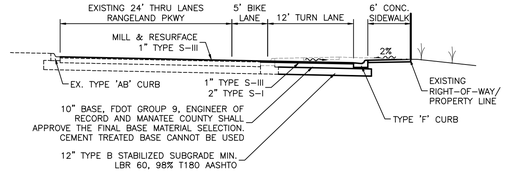
SEE ARCHITECTURAL PLANS FOR DUMPSTER ENCLOSURE



* 17' PARKING SPACE PERMITTED WHEN 8' MINIMUM SIDEWALK OR INTERIOR LANDSCAPED AREA IS PROVIDED.

TYPICAL PAVEMENT SECTION

N.T.S.



RANGELAND TURN LANE ADDITION SECTION

N.T.S.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			ROAD CONNECTION DETAIL	403.3
REV.BY	DATE	4/26/22		
		DATE OF B.O.C.C. APPROVAL		

Stantec

Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
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Issued	By	Appd	YYYY.MM.DD
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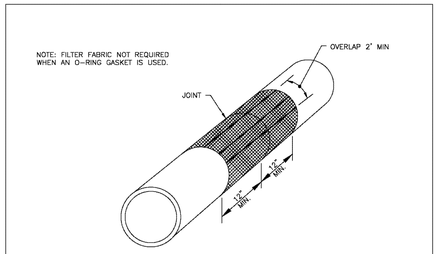
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
SH/51435			08/2023

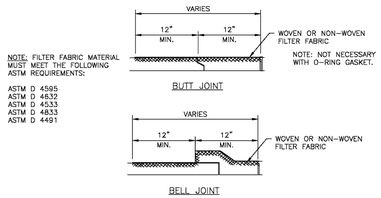
Title
PAVING AND DRAINAGE DETAILS

Revision:
Sheet: 09 of 17



ISOMETRIC VIEW

NOTE: FOR COMPLETE FILTER FABRIC REQUIREMENTS, SEE FDOT DESIGN STANDARDS, 2014, INDEX 199, AND SECTION 985 FDOT STANDARD SPECIFICATIONS, LATEST EDITION.

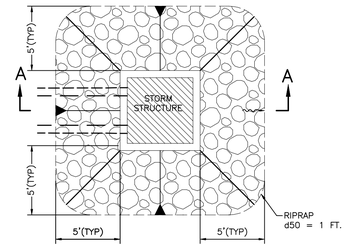


NOTE: FILTER FABRIC MATERIAL MUST MEET THE FOLLOWING ASTM REQUIREMENTS:

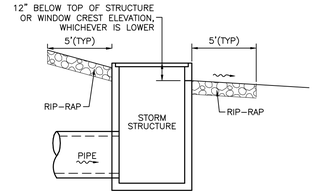
ASTM D 4595
ASTM D 4632
ASTM D 4533
ASTM D 4833
ASTM D 4491

NOTE: NOT NECESSARY WITH O-RING GASKET.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE		
		4/26/22 DATE OF B.O.C.C. APPROVAL	FILTER FABRIC JACKET
			103.0



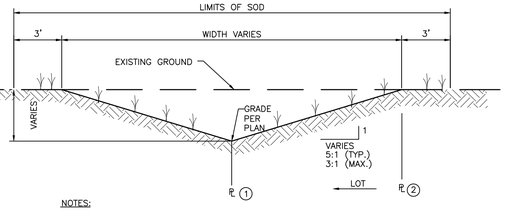
NOTE: ROCK RIP-RAP SHALL BE INCLUDED IN THE UNIT PRICE OF THE STRUCTURE.



SECTION A-A

TYPICAL DITCH DISCHARGE STRUCTURE DETAIL

N.T.S.



NOTES:

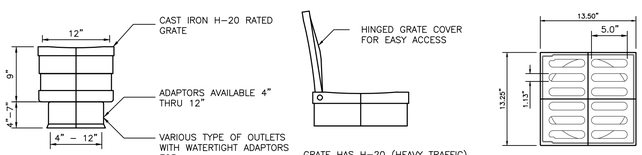
① CENTER SWALE ON PROPERTY LINE FOR SIDE & BACK LOTS WHERE PROPERTIES ADJOIN

② FOR LOTS NOT ADJOINING, CONSTRUCT SWALE INSIDE OF PROPERTY LINE

③ SWALES SHALL BE SODDED AS SOON AS PRACTICAL TO MINIMIZE EROSION

TYPICAL SIDE & BACK LOT LINE SWALE

S-D027 N.T.S.



12" PVC INLINE DRAIN

NTS

GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING

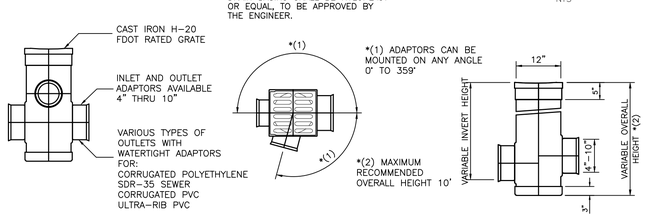
QUALITY: MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B

PAINT: CASTINGS SHALL BE FURNISHED WITH BLACK PAINT

12" CAST IRON GRATE

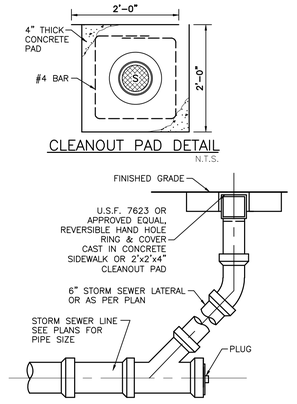
NTS

NOTE:
DRAIN BASINS SHALL BE NYLOPLAST OR EQUAL, TO BE APPROVED BY THE ENGINEER.



YARD DRAIN

NTS

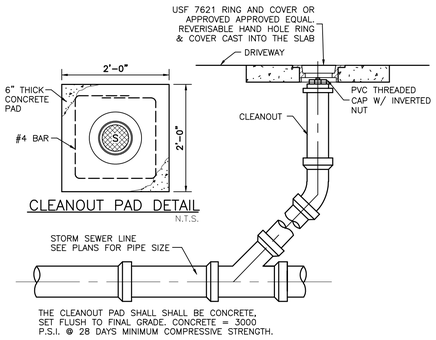


CLEANOUT PAD DETAIL

N.T.S.

STORM CLEANOUT DETAIL

NTS

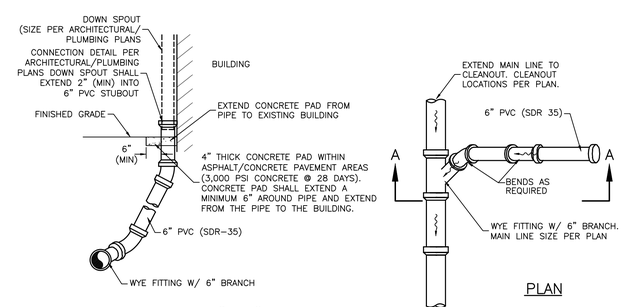


CLEANOUT PAD DETAIL

N.T.S.

STORM/UNDERDRAIN CLEANOUT PAD IN PAVMENT DETAIL

NTS



TYPICAL ROOF DRAIN SERVICE/ CONNECTION DETAIL

NTS

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

Consultant

	By	Appd	YYYY.MM.DD
Revision			
Issued			

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

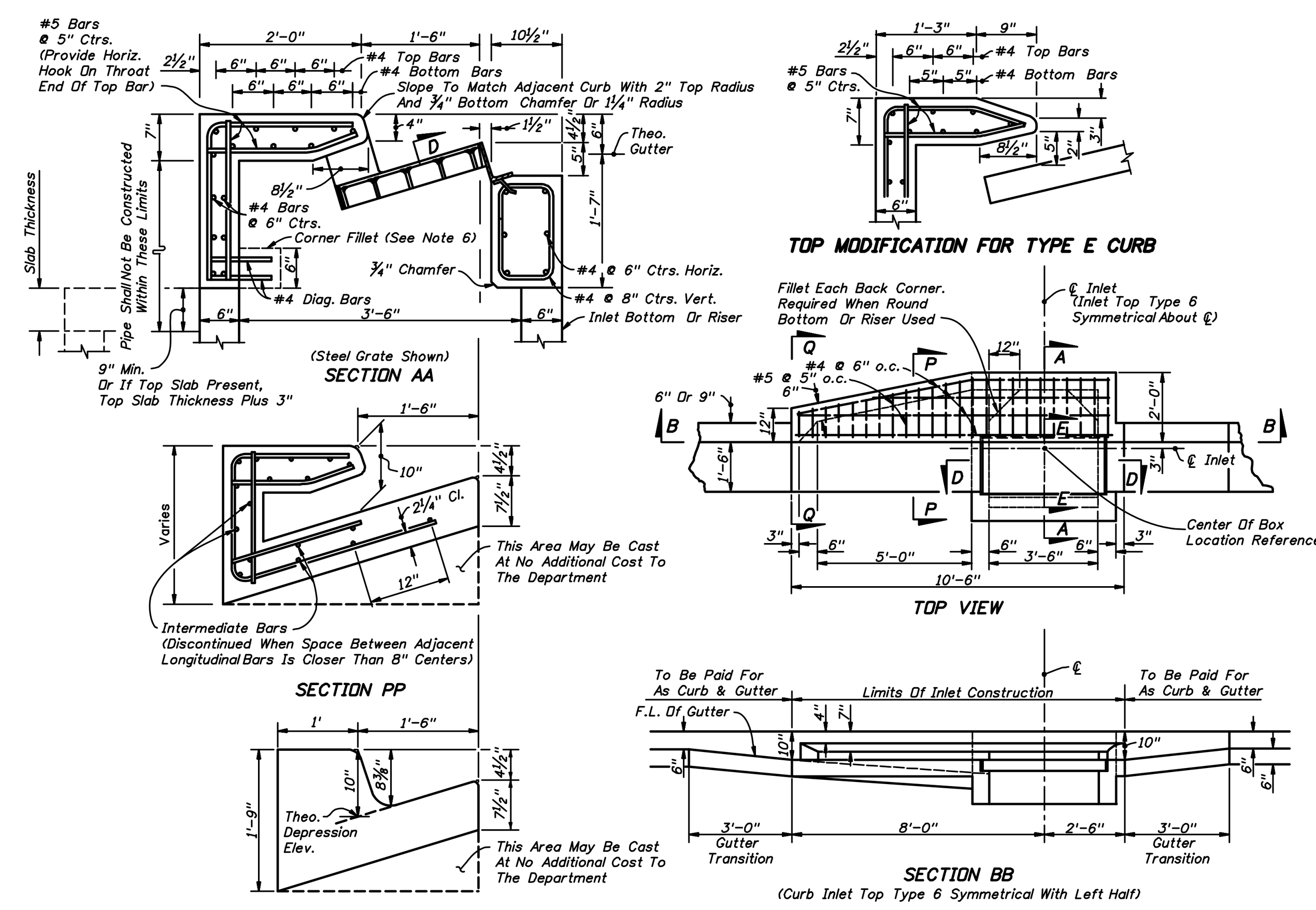
Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
Rng. 19E
Twp. 35S
Sec. 11, 12, 13, 14

Project No.: 215618385
File Name: 215618385-05C-501PD
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	
	SW/S1435		08/2023 YYYY.MM.DD

Title
PAVING AND DRAINAGE DETAILS

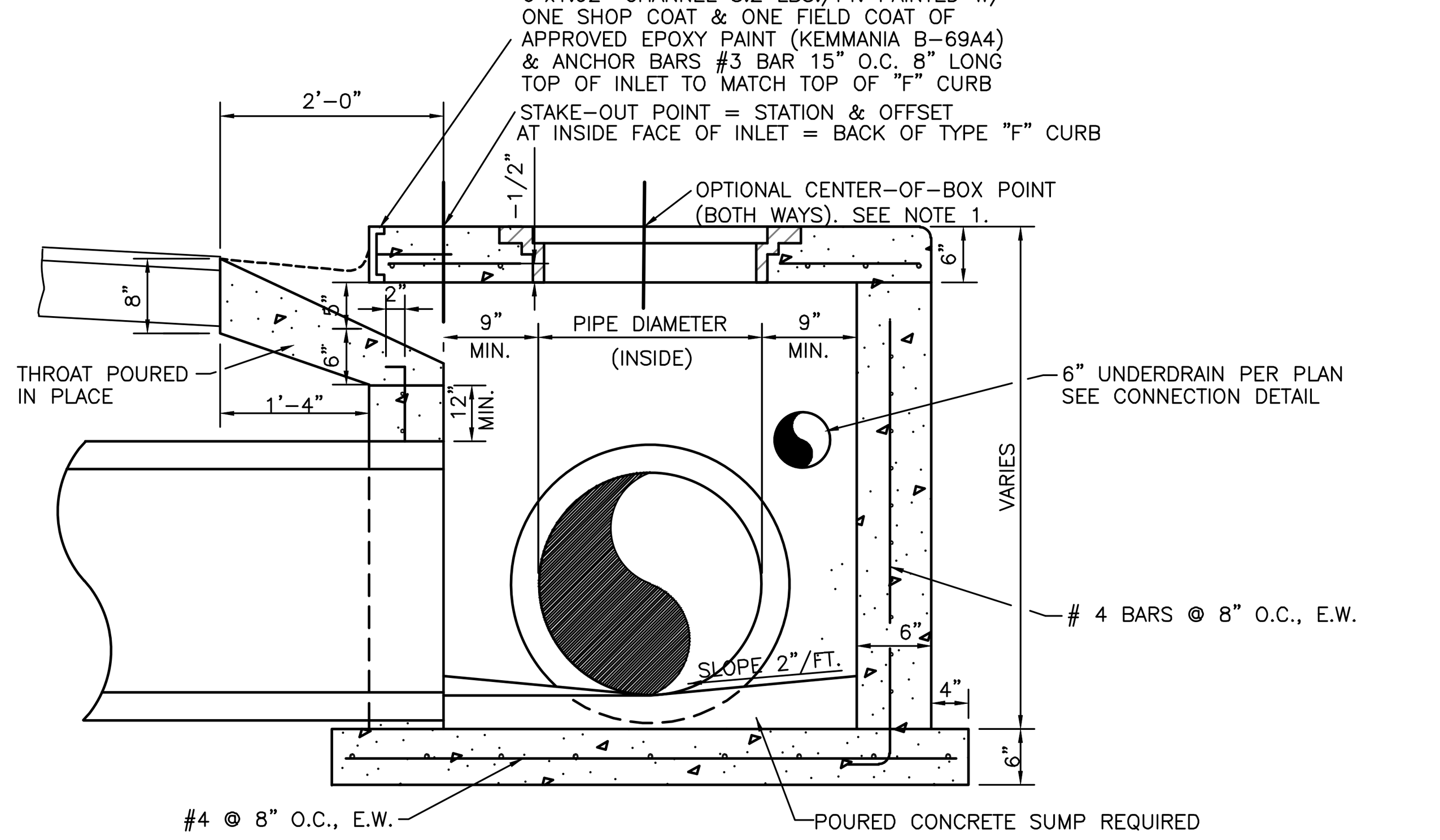
Revision:
Sheet: 10 of 17

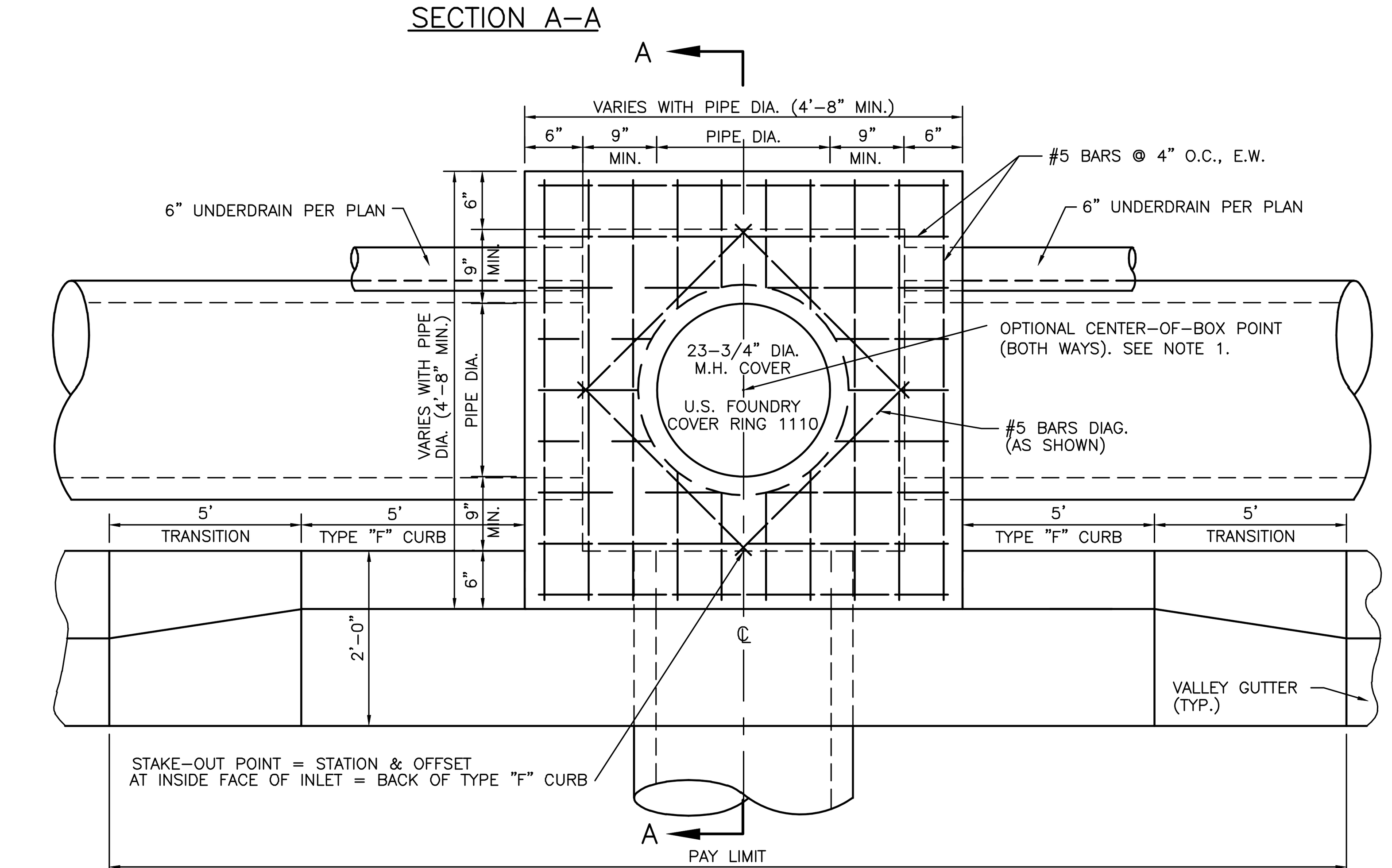


GENERAL NOTES

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All reinforcing steel shall have 1¼" minimum cover unless otherwise shown. Inlet tops shall be either cast-in-place or precast concrete.
4. Precasting of this inlet top will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.
5. Concrete meeting the requirements of ASTM C478 (4,000 PSI) may be used in lieu of Class I concrete for precast units, manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
6. The corner fillets shown for rectangular throats are necessary only when throats are to be used in conjunction with circular inlet bottoms or when used on skew with rectangular inlet boxes.
7. For inlet bottoms see Index No. 200. 4' and larger bottoms are to be used with 3'-6" riser.
8. These inlet tops are designed for use with standard curb and gutter Type E and Type F. Locate inlet outside of pedestrian crosswalks.
9. See Index No. 201 for supplemental details.
10. All steel used for frame and grate shall meet the requirements of ASTM A36/A36M.
11. Either cast iron grates or steel grates may be used.
12. When Alternate "G" grate is specified in the plans either the cast iron grate and galvanized steel frame or the the galvanized steel grate and frame must be used. Grates are to be grouted in accordance with the grouting detail shown on sheet 2 of 2, in lieu of tack welding.
13. Inlet to be paid for under the contract unit price for Inlets (Curb) (Type_), Each.

CURB INLET TYPE 5&6



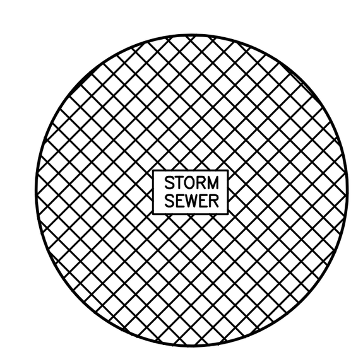


NOTES:

1. CENTER OF STRUCTURE, BOTH WAYS, MAY BE ADDITIONALLY STAKED AT THE REQUEST OF THE CONTRACTOR OR AT THE DESCRETION OF THE SURVEYOR FOR THE PURPOSE OF PIPE ALIGNMENT.

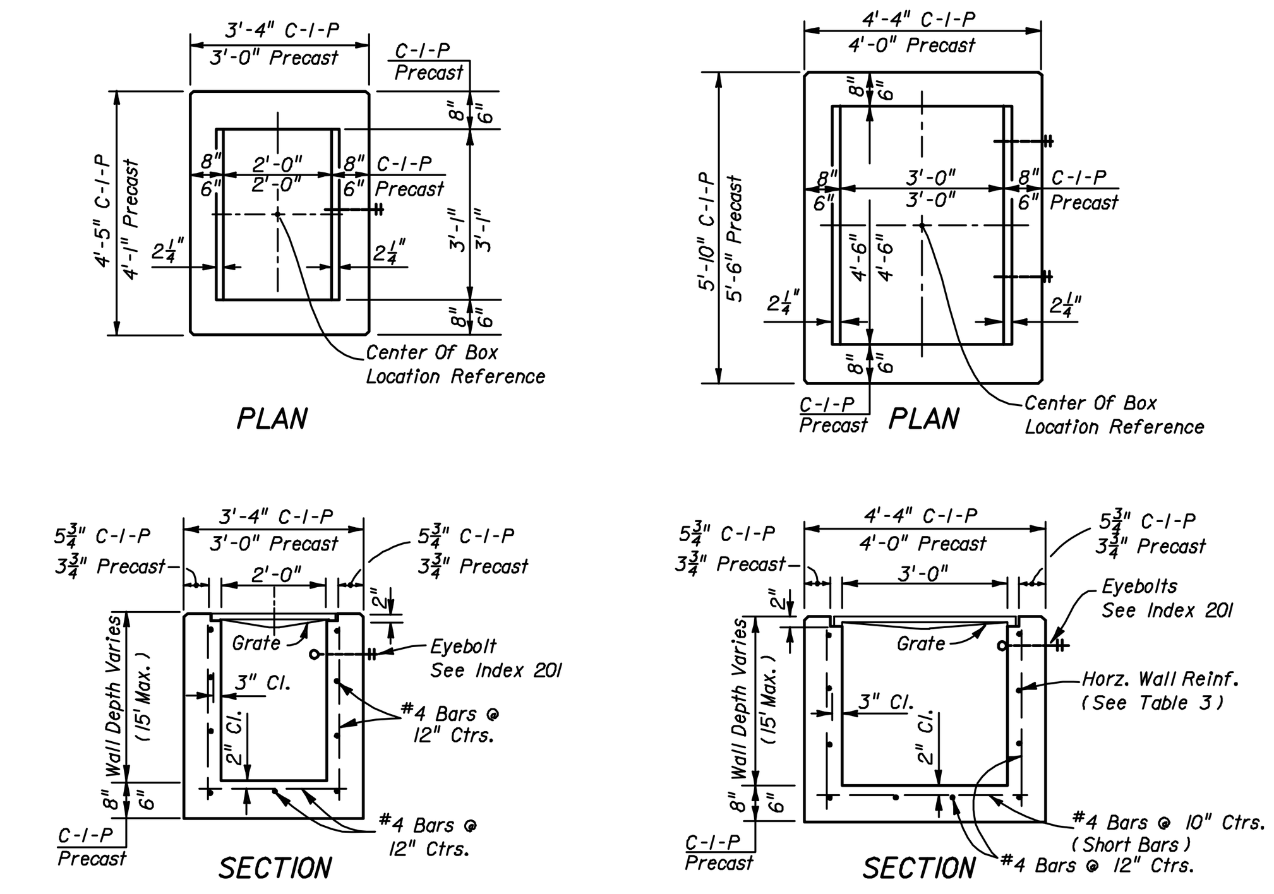
STANDARD THROAT INLET DETAIL

(MANATEE) N.T.S.
S-D021(12/08/05)



U.S.F. 1110 FRAME & COVER OR APPROVED EQUAL

MANHOLE COVER



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (In.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0'-15'	A12	0.20	12"	8"

TYPE C

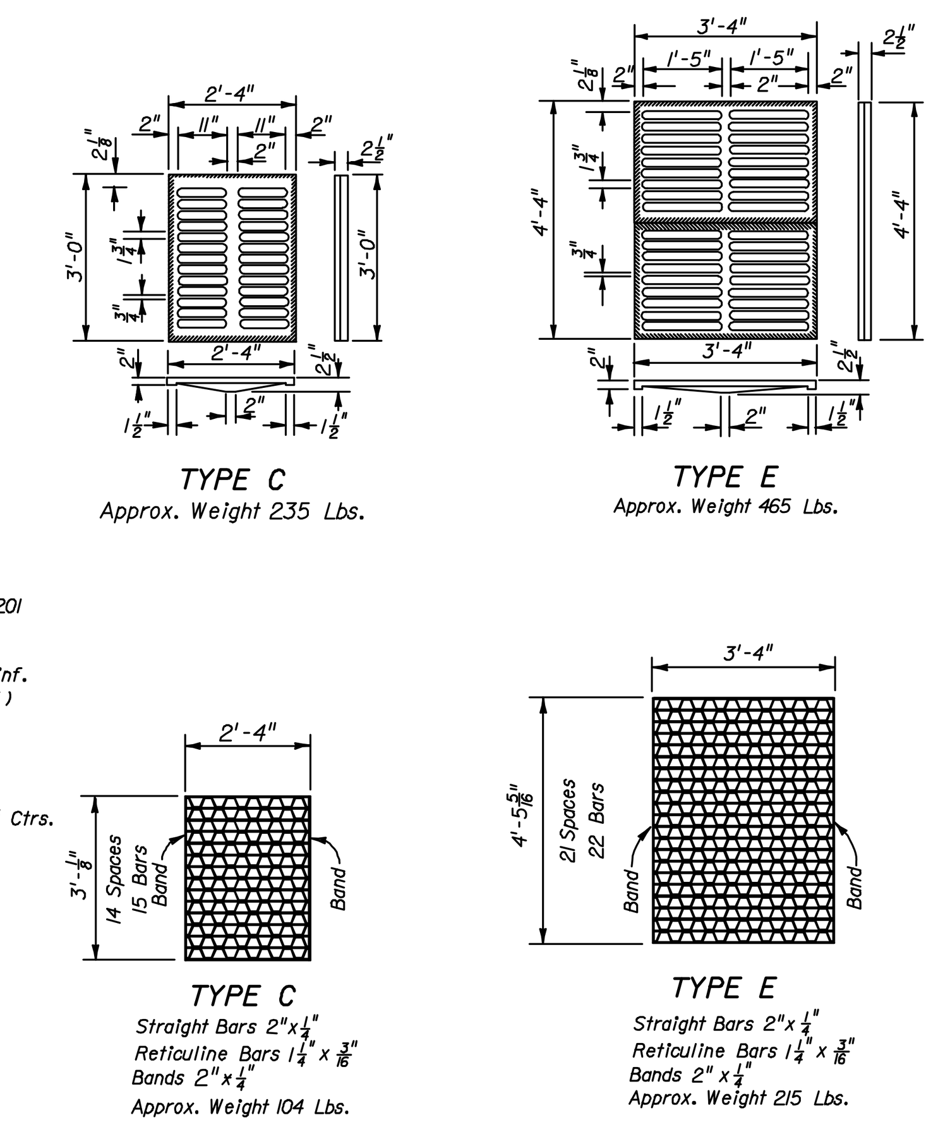
Recommended Maximum Pipe Size:
2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

WALL DEPTH	SCHEDULE	AREA (In.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0'-5'	A12	0.20	12"	8"
0'-7.5'	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5½"	5"
10'-15'	C6.5	0.37	6½"	6"

TYPE E

Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
4'-6" Wall - 36" Pipe



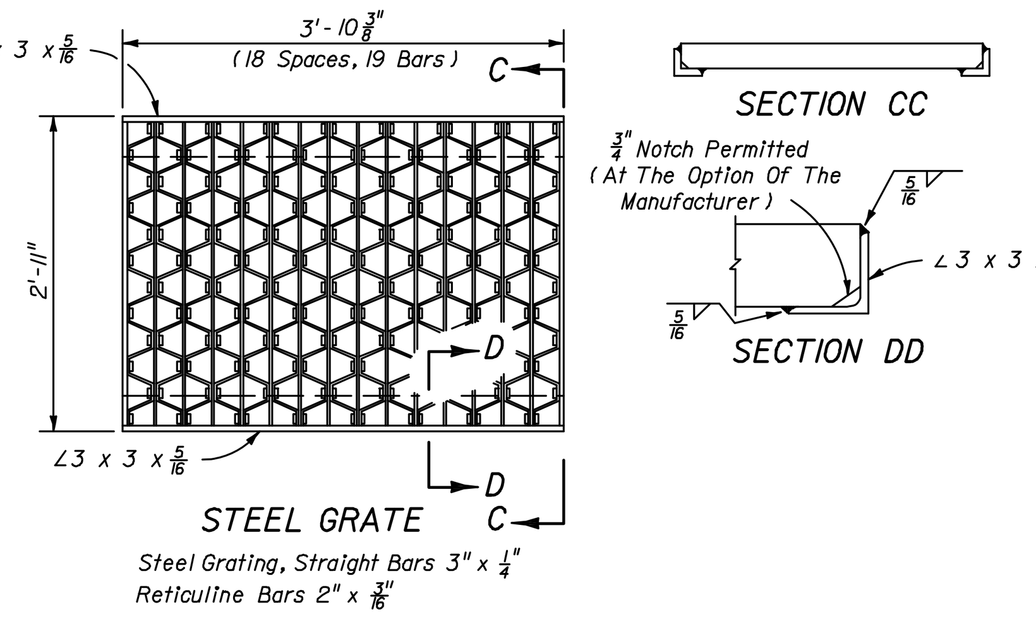
STEEL GRATES

NOTE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets where Bicycle Traffic Is Anticipated.

GENERAL NOTES

1. These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
2. Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
3. Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
4. Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
5. All exposed edges and corners shall be ¾" chamfer or tooled to ¼" radius.
6. Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
7. Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see 'TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS'.
8. Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.
9. For supplementary details see Index 425-001.
10. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

DITCH BOTTOM INLET TYPES C & E

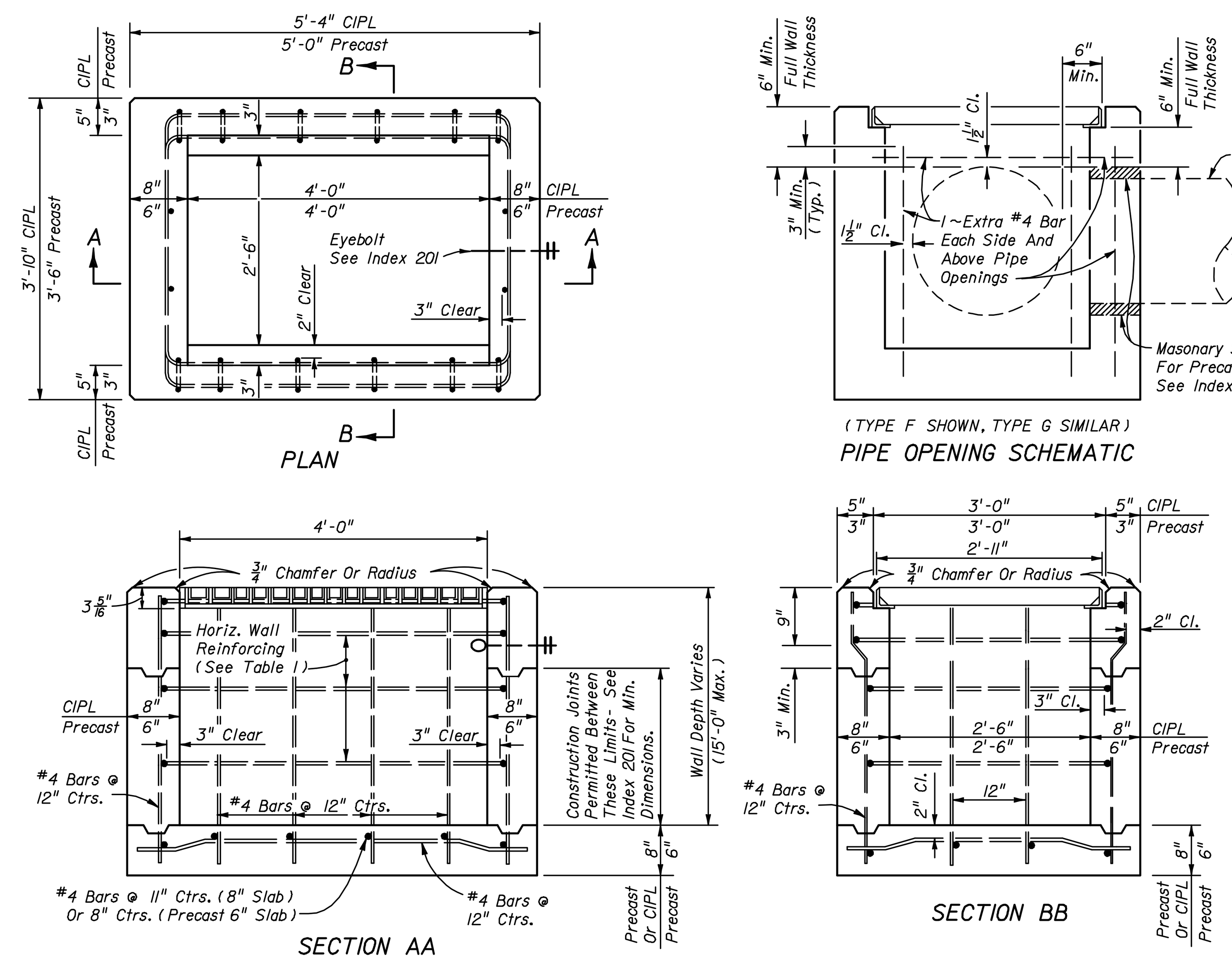


HORIZONTAL WALL REINF. SCHEDULES
TYPE F INLET (TABLE 1)

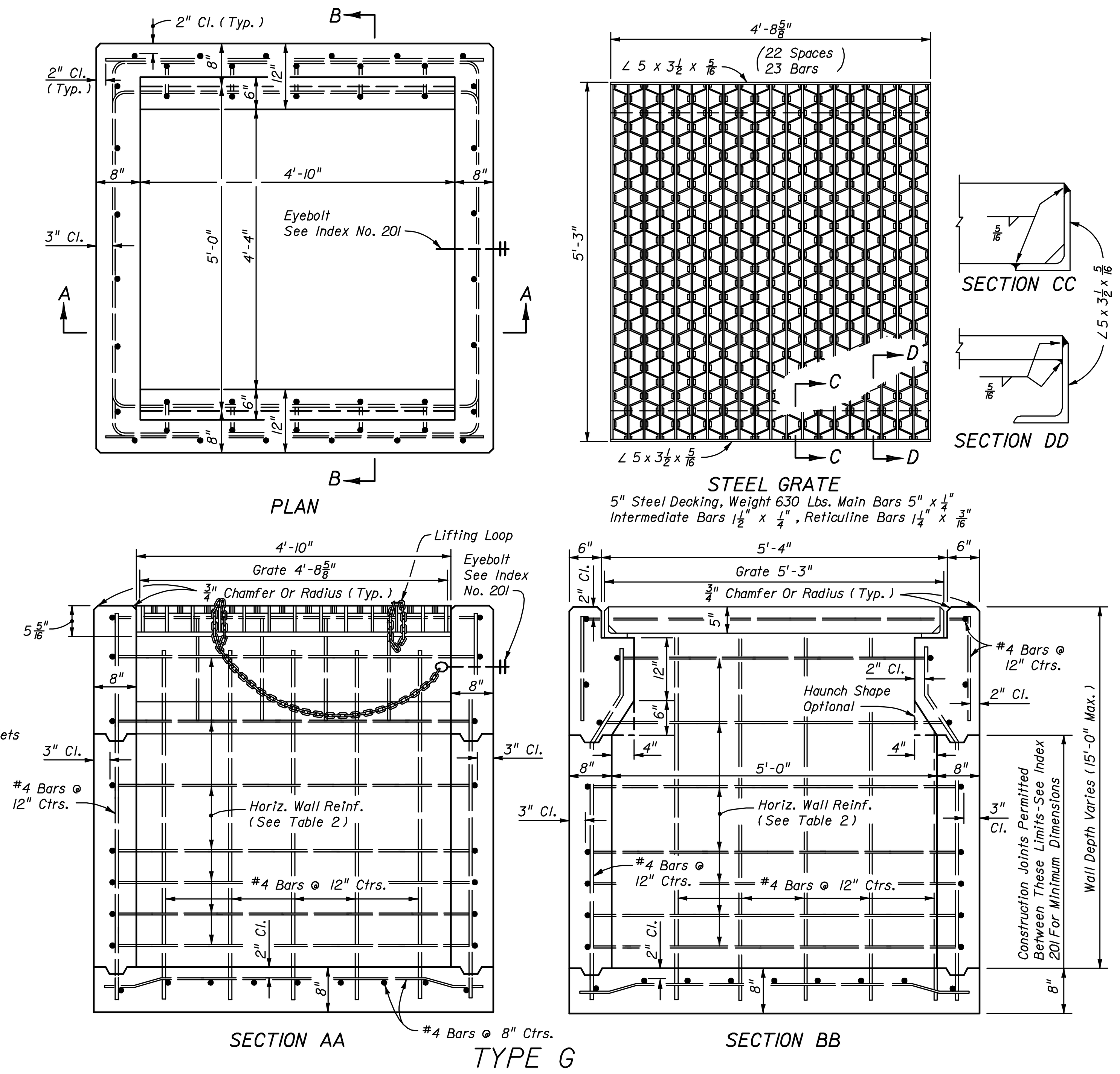
WALL DEPTH	SCHEDULE	AREA (In.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0' - 4'	A12	0.20	12"	8"
4' - 7'	A6	0.20	6"	5"
7' - 12'	B5.5	0.24	5½"	5"
12' - 15'	Special I	0.267	5"	4"

TYPE G INLET (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (In.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0' - 3'	A12	0.20	12"	8"
3' - 7'	A6	0.20	6"	5"
7' - 10'	B5.5	0.24	5½"	5"
10' - 15'	C6.5	0.37	6½"	6"



DITCH BOTTOM INLET TYPES F & G



TYPE G

GENERAL NOTES

1. These inlets are designed for use in ditches, medians, pavement areas, or other areas subject to heavy wheel loads, minimal debris, and bicycle traffic. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. When inlet is placed in areas subject to bicyle traffic, install filler bar when clearance or gap is greater than 1" as shown in Index 218 Inset B.
2. When alternate G grate is specified in plans, the grate is to be hot dip galvanized after fabrication.
3. These inlets may be used with Alt. B structure bottoms, Index 200. The inlet and bottom combinations are to be paid for under the contract unit price for inlets (DT Bot) (Type F (or G)) (J Bot, Depth), Ea.
4. All exposed edges and corners shall be ¾" chamfer or tooled to ¼" radius.
5. For supplemental details, see Index 201.
6. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening, as shown.
7. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-501PD
Scale: 1"=20'

	SW/51435		08/2023
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
PAVING AND DRAINAGE DETAILS

Revision:

IRRIGATION/RECLAIMED WATER DISTRIBUTION GENERAL NOTES:

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS. IT IS ASSUMED THE IRRIGATION/RECLAIMED WATER MAINS ARE OR WILL CONVEY OF REUSE/RECLAIMED WATERS.

1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING. IRRIGATION MAINS TIE-INS REQUIRING IRRIGATION SERVICE TO BE SHUT OFF SHALL BE MADE WHEN REQUIRED BY MANATEE COUNTY PUBLIC WORKS DEPARTMENT.
4. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE RECLAIMED WATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
5. IRRIGATION/RECLAIMED WATER MAIN INSTALLATION SHALL BE CONSTRUCTED WITH A MINIMUM OF 3 FEET OF COVER BELOW PROPOSED GRADE OR TO THE ELEVATIONS AND DEPTHS AS INDICATED ON THE PLANS WITHIN 0.25 FT. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
6. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
7. ALL PVC IRRIGATION/RECLAIMED WATER MAINS SHALL BE PURPLE IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE IRRIGATION/RECLAIMED WATER MAIN. THE TAPE SHALL BE MARKED "RECLAIMED WATER". THE COST FOR THE TAPE SHALL BE INCLUDED IN THE IRRIGATION/RECLAIMED WATER MAIN UNIT PRICES.
8. UNLESS OTHERWISE NOTED PROPOSED RECLAIMED WATER MAINS TO GO UNDER EXISTING CULVERTS, STRUCTURES AND OTHER APPURTENANCES. EXCEPT SEWER MAINS WHICH SHALL BE CROSSED OVER.
9. PVC IRRIGATION/RECLAIMED WATER MAINS 4" THROUGH 12" SHALL BE AWWA C-900 DR18 (CLASS 150), PURPLE IN COLOR & HAVE THE O.D. OF DUCTILE IRON PIPE. PVC RECLAIMED WATER MAINS 14" THROUGH 24" SHALL BE AWWA C-905 DR18.
10. WHERE THE IRRIGATION/RECLAIMED WATER MAIN EXCEEDS THE PIPE MANUFACTURES RECOMENDATIONS FOR MAXIMUM JOINT DEFLECTION THE CONTRACTOR SHALL FURNISH AND INSTALL FITTINGS AS REQUIRED.

IRRIGATION/RECLAIMED WATER SERVICE NOTES:

1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE STAKED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONSTRUCTED TO THE PROPOSED LOCATION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE TO THE OWNER/ENGINEER. THOSE BOXES SHOWN IN CLUSTERS SHALL BE PLACED IN A NEAT ROW AND AGAINST EACH OTHER.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
3. WHERE A HOUSE OR OTHER CONNECTION TERMINATES, THE CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC MARKER PIPE SIX FEET (6') IN LENGTH WITH A MINIMUM OF FOUR FEET (4') ABOVE GROUND AND TWO (2') FEET BELOW GROUND AND SHALL BE PAINTED PURPLE.
4. 2 INCHES OR SMALLER DIAMETER SERVICES SHALL BE P.E. PIPE MEETING AWWA C-901. PIPE SHALL BE POLY-E DRISCO-PIPE 5100 ULTRALINE OR ENDOPURE BY ENDOT OR APPROVED EQUAL. PIPE SHALL BE PURPLE OR ENCASED IN PURPLE SLEEVE.
5. VERTICAL CLEARANCE BETWEEN RECLAIMED WASTER AND STORM PIPE/WATER MAIN/WASTEWATER LINES SHALL BE 18 INCHES MINIMUM.

WATER DISTRIBUTION GENERAL NOTES:

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS. IT IS ASSUMED THE IRRIGATION MAINS ARE OR WILL CONVEY REUSE WATERS.

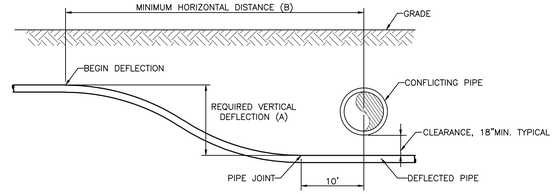
1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING. WATER MAINS TIE-INS REQUIRING WATER SERVICE TO BE SHUT OFF SHALL BE MADE WHEN REQUIRED BY MANATEE COUNTY PUBLIC WORKS DEPARTMENT.
4. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE WATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
5. WATER MAIN INSTALLATION SHALL BE CONSTRUCTED WITH A MINIMUM OF 3 FEET OF COVER BELOW PROPOSED GRADE OR TO THE ELEVATIONS AND DEPTHS AS INDICATED ON THE PLANS WITHIN 0.25 FT. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
6. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
7. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE WATER MAIN. THE TAPE SHALL BE MARKED "WATER". THE COST FOR THE TAPE SHALL BE INCLUDED IN THE WATER MAIN UNIT PRICES.
8. UNLESS OTHERWISE NOTED PROPOSED WATER MAINS TO GO UNDER EXISTING CULVERTS STRUCTURES AND OTHER APPURTENANCES. EXCEPT SEWER MAINS WHICH SHALL BE CROSSED OVER.
9. PVC WATER MAINS 4" THROUGH 12" SHALL BE AWWA C-900 DR18 (CLASS 150), BLUE IN COLOR & HAVE THE O.D. OF DUCTILE IRON PIPE. PVC WATER MAINS 14" THROUGH 24" SHALL BE AWWA C-905 DR18. FIREMAINS SHALL BE AWWA C-900 DR14 (CLASS 200).
10. WHERE THE WATER MAIN EXCEEDS THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM JOINT DEFLECTION THE CONTRACTOR SHALL FURNISH AND INSTALL FITTINGS AS REQUIRED.
11. THE CONTRACTOR SHALL PROVIDE AND UTILIZE A METERED JUMPER ASSEMBLY BETWEEN THE EXISTING POTABLE WATER SOURCE PIPING AND THE NEW WATER MAIN IN ORDER TO PROVIDE BACKFLOW PREVENTION WHILE FILLING AND FLUSHING THE NEW WATER MAIN. FINAL TIE-IN SHALL BE COMPLETED ONLY AFTER THE NEW SYSTEM HAS BEEN FLUSHED CLEAN, PRESSURE TESTED, DISINFECTED, BACTERIOLOGICALLY CLEARED, CERTIFIED COMPLETE BY THE ENGINEER, AND A RELEASE IS OBTAINED FROM THE HEALTH DEPARTMENT. ENGINEER'S REPRESENTATIVE TO BE PRESENT AT FINAL TIE-IN. THE LENGTH OF PIPE REQUIRED FOR FINAL TIE-IN SHALL BE LIMITED TO LESS THAN 20 FEET. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH HEALTH DEPARTMENT AND LOCAL GOVERNMENT RULES AND REGULATIONS.

WATER SERVICE NOTES:

1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE STAKED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONSTRUCTED TO THE PROPOSED LOCATION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE TO THE OWNER/ENGINEER. THOSE BOXES SHOWN IN CLUSTERS SHALL BE PLACED IN A NEAT ROW AND AGAINST EACH OTHER.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
3. WHERE WHERE A HOUSE OR OTHER CONNECTION TERMINATES, THE CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC MARKER PIPE SIX FEET (6') IN LENGTH WITH A MINIMUM OF FOUR FEET (4') ABOVE GROUND AND TWO (2') FEET BELOW GROUND AND SHALL BE PAINTED "SAFTEY" BLUE.
4. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR WATER LINES. IF EXTENSIONS ARE REQUIRED, THE COST SHALL BE INCLUDED IN THE PRICE BID.
5. 2 INCHES OR SMALLER DIAMETER SERVICES SHALL BE P.E. PIPE MEETING AWWA C-901. PIPE SHALL BE POLY-E DRISCO-PIPE 5100 ULTRALINE OR ENDOPURE BY ENDOT OR APPROVED EQUAL. PIPE SHALL BE BLUE OR ENCASED IN BLUE SLEEVE.
6. VERTICAL CLEARANCE BETWEEN WATER AND STORM/WATER MAIN/WASTEWATER LINES SHALL BE 18 INCHES MINIMUM.

THRUST BLOCKS, ANCHOR BLOCKS AND JOINT RESTRAINING:

1. THE CONTRACTOR SHALL PROVIDE ALL THRUST BLOCKING AND JOINT RESTRAINING AS REQUIRED. SEE THRUST BLOCK AND JOINT RESTRAINTS DETAILS ON WATER DISTRIBUTION CONSTRUCTION DETAILS SHEET.
2. DESIGN CRITERIA: 180 P.S.I. TEST PRESSURE TIMES 1.67 SAFETY FACTOR (300 P.S.I.) FOR WATER HAMMER WITH ASSUMED SOIL BEARING CAPACITY OF 1000 LBS. PER SQUARE FOOT.
3. WRAP ALL FITTINGS IN POLYETHYLENE PRIOR TO PLACING CONCRETE AGAINST PIPE OR FITTINGS.
4. ALL CONCRETE BLOCKING SHALL BE 3000 P.S.I. AT 28 DAYS MINIMUM.
5. BLOCK FOR TEE SHALL BE CONSTRUCTED IN SIZE FOR BRANCH DIAMETER.
6. MECHANICAL RESTRAINED JOINTS SHALL BE INSTALLED TO MEET MANUFACTURERS RECOMMENDED MINIMUM RESTRAINED DISTANCES FROM FITTING IN ACCORDANCE WITH RECOMMENDED INSTALLATION CRITERIA.



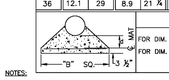
PIPE SIZE	ALLOWABLE BENDING RADIUS	75% ALLOWABLE BENDING RADIUS	REQUIRED VERTICAL DEFLECTION (A)								
			1.0'	1.5'	2.0'	2.5'	3.0'	4.0'	5.0'	6.0'	8.0'	10.0'
			MINIMUM HORIZONTAL DISTANCE (B)									
4"	100'	134'	34'	39'	43'	47'	50'	57'	62'	67'	75'	83'
6"	150'	200'	39'	45'	50'	55'	59'	67'	74'	80'	90'	99'
8"	200'	267'	43'	50'	57'	62'	67'	76'	83'	90'	103'	113'
10"	250'	334'	47'	55'	62'	68'	74'	83'	92'	100'	114'	126'
12"	300'	400'	50'	59'	67'	74'	80'	90'	100'	108'	123'	137'

TABLE BASED ON 75% OF THE ALLOWABLE BENDING RADIUS

PIPE DEFLECTION DETAIL

S-W030 N.T.S.

THRUST BLOCK DIMENSIONS B ft. x d inches												
PIPE SIZE (IN.)	90°BEND		45°BEND		22.5°BEND		11.25°BEND		DEAD END & TTF		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 ½	1.1	3 ½	0.8	3 ½	0.6	3 ½	1.3	3 ½	1.1	3 ½
6	2.2	5 ¼	1.6	3 ¾	1.2	3 ½	0.8	3 ½	1.9	4 ½	1.6	3 ¾
8	2.9	7	2.1	5	1.5	3 ½	1.1	3 ½	2.4	5 ¾	2.0	4 ¾
10	3.5	8 ½	2.6	6 ¼	1.9	4 ½	1.3	3 ½	3.0	7 ¼	2.5	6
12	4.2	10	3.1	7 ½	2.2	5 ¼	1.6	3 ¾	3.5	8 ¼	3.0	7 ¼
14	4.9	11 ¾	3.6	8 ¾	2.6	6 ¼	1.8	4 ¼	4.1	9 ¾	3.4	8 ¼
16	5.5	13 ¼	4.1	9 ¾	2.9	7	2.1	5	4.7	11 ¼	3.9	9 ¼
18	6.2	15	4.6	11	3.3	8	2.3	5 ½	5.2	12 ½	4.4	10 ½
20	6.9	16 ½	5.0	12	3.6	8 ¾	2.6	6 ¼	5.8	14	4.9	11 ¾
24	8.2	19 ¾	6.0	14 ½	4.3	10 ¼	3.1	7 ½	6.9	16 ½	5.8	14
30	10.1	24 ¼	7.5	18	5.3	12 ¾	3.8	9	8.5	20 ½	7.2	17 ¼
36	12.1	29	8.9	21 ¼	6.4	15 ¼	4.5	10 ¾	10.2	24 ½	8.6	20 ¾

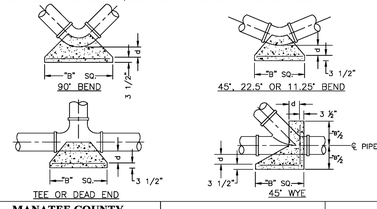


REINFORCEMENT MAT SCHEDULE

FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY

FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:
1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f'c =3000 PSI, REINFORCEMENT fy =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

REV.BY	DATE

SEPT 12, 2023 DATE OF APPROVAL

CONCRETE THRUST BLOCKS — UG-7

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE - LENGTH						SIZE - LENGTH				
24	90	38	18	X24 - 169	X20 - 132	X18 - 90	X12 - 38	X10 - 6		X20 - 64	X18 - 117	X12 - 158		214
20	78	32	16	X20 - 141	X18 - 101	X12 - 53	X10 - 24	X8 - 1		X18 - 65	X12 - 115	X10 - 149		184
16	66	27	13	X16 - 111	X12 - 67	X10 - 41	X8 - 12			X12 - 64	X10 - 107	X8 - 111		151
12	52	22	10	X12 - 80	X10 - 56	X8 - 31	X6 - 1			X10 - 58	X8 - 82	X6 - 86		118
10	44	18	9	X10 - 63	X8 - 40	X6 - 18				X8 - 33	X6 - 61	X4 - 81		100
8	37	15	7	X8 - 48	X6 - 18	X4 - 1				X6 - 35	X4 - 60			83
6	29	12	6	X6 - 29	X4 - 1					X4 - 33				63
4	21	8	4	X4 - 12										45

NOTES:
1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

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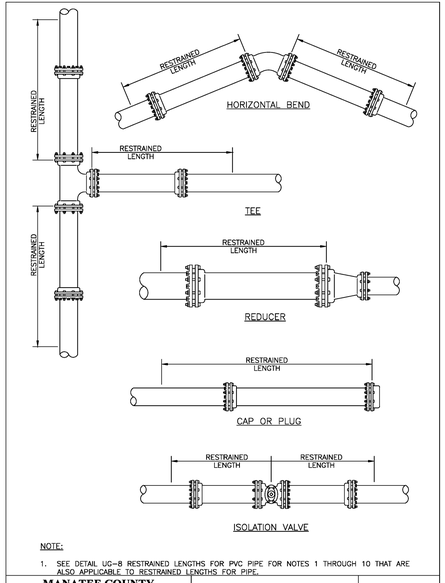
REV.BY	DATE

SEPT 12, 2023 DATE OF APPROVAL

RESTRAINED LENGTHS FOR PVC PIPE — UG-8



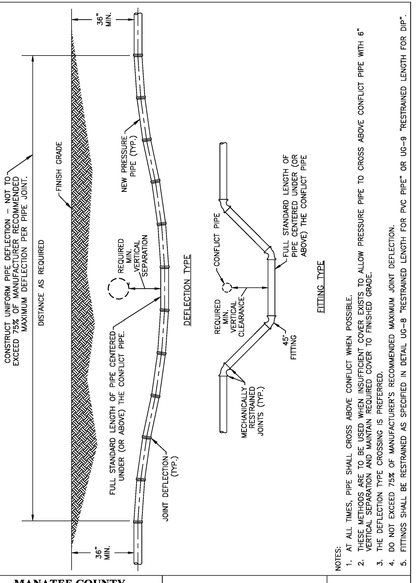
NOTE:
1. SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

REV.BY	DATE

SEPT 12, 2023 DATE OF APPROVAL

RESTRAINED LENGTHS FOR PIPE — UG-10



NOTES:
1. AT ALL TIMES, PIPE SHALL CROSS ABOVE CONFLICT WHEN POSSIBLE.
2. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL CLEARANCE AND 36" COVER TO FINISHED GRADE.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. FITTINGS SHALL BE RESTRAINED AS SPECIFIED IN DETAIL UG-8 "RESTRAINED LENGTH FOR PVC PIPE" OR UG-9 "RESTRAINED LENGTH FOR DIP".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

REV.BY	DATE

SEPT 12, 2023 DATE OF APPROVAL

PRESSURE PIPE DEFLECTION AT UTILITY CROSSING — UG-19

Stantec

Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

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By	Appd	YYYY.MM.DD	Issued
By	Appd	YYYY.MM.DD	

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Sec. 13,14 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-521WD

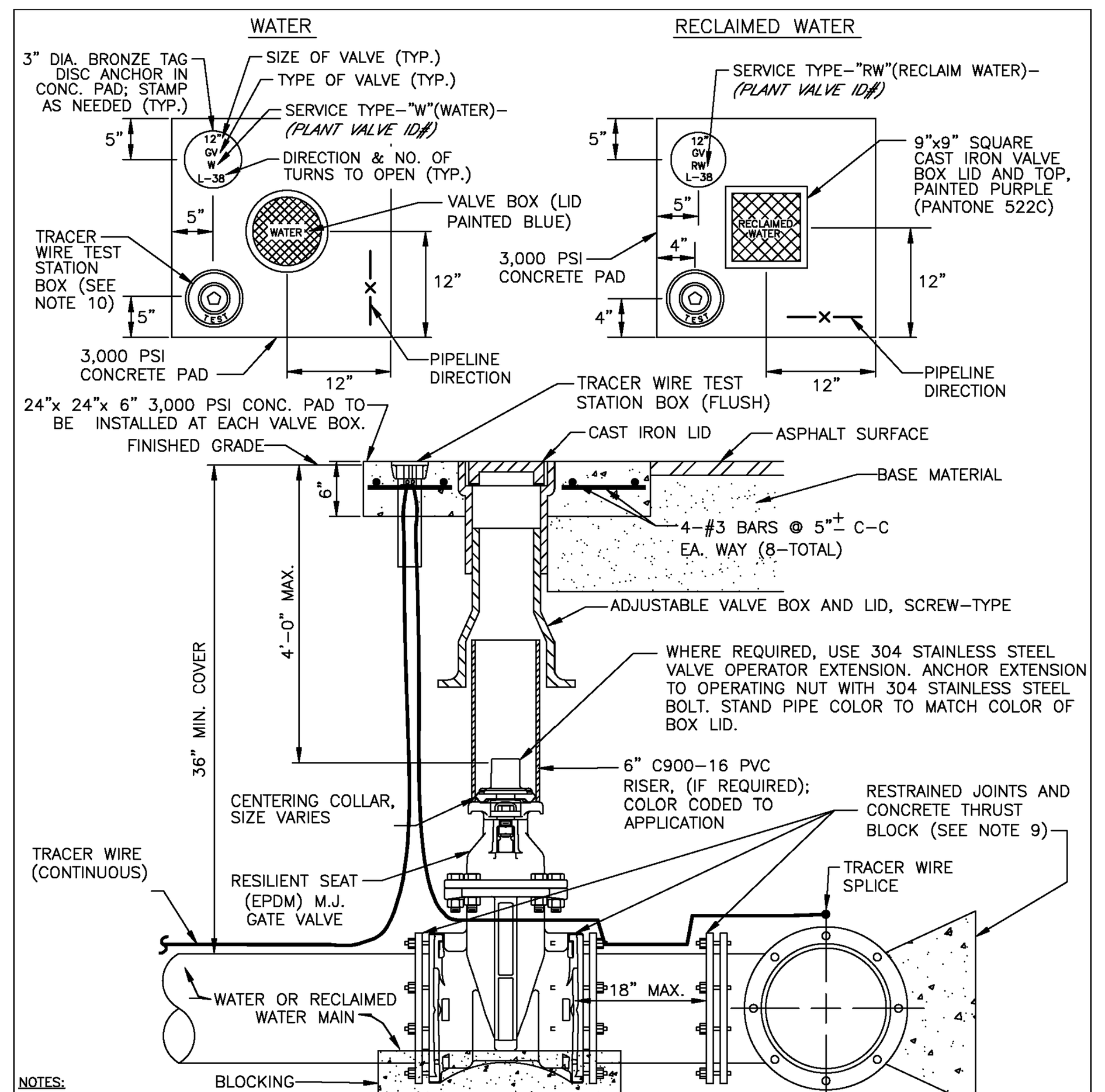
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	08/2025 YYYY.MM.DD
SW/S1435			

Title
WATER DISTRIBUTION DETAILS

Revision:

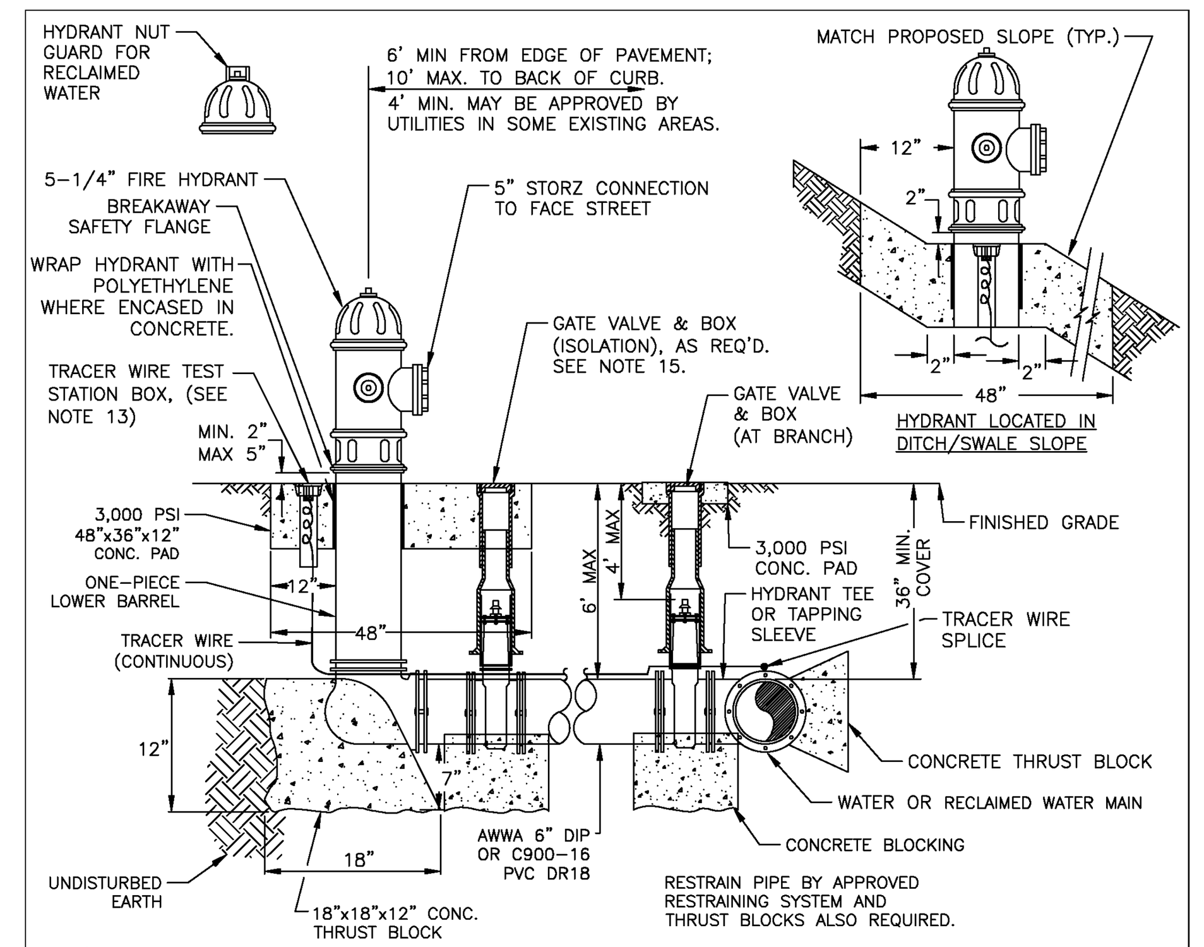
Sheet: 12 of 17



NOTES:

1. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS, OR GUTTERS.
4. PRECAST CONCRETE PADS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
7. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
9. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
10. USE NON-TRAFFIC RATED BOXES. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
11. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID# WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
12. REFER TO SECTION 1.11 GATE VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	GATE VALVE, BOX, LID AND TAG	UW-2



NOTES:

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE. THE STEAMER PORT SHALL BE A MIN. OF 1 INCH FROM THE EDGE OF SIDEWALK.
3. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER; PURPLE (PANTONE 522C) FOR RECLAIMED WATER; AND RED FOR PRIVATE.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
7. RAISED REFLECTIVE PAVEMENT MARKER(S) (BLUE/BLUE) FOR POTABLE WATER (PURPLE/PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED AT THE CENTERLINE OF PAVEMENT INLINE WITH EACH HYDRANT; TWO MARKERS REQUIRED IF HYDRANT IS AT AN INTERSECTION CORNER.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
9. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
10. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
11. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC, PER THE FLORIDA FIRE PREVENTION CODE.
12. SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.
13. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
14. IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SWALE; THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
15. AT THE DISCRETION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, (I.E. ROADWAY, FENCE, WALL, BERM ETC), BETWEEN THE BRANCH GATE VALVE AND THE HYDRANT.
16. SEE SECTION 1.11 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	FIRE HYDRANT ASSEMBLY	UW-5

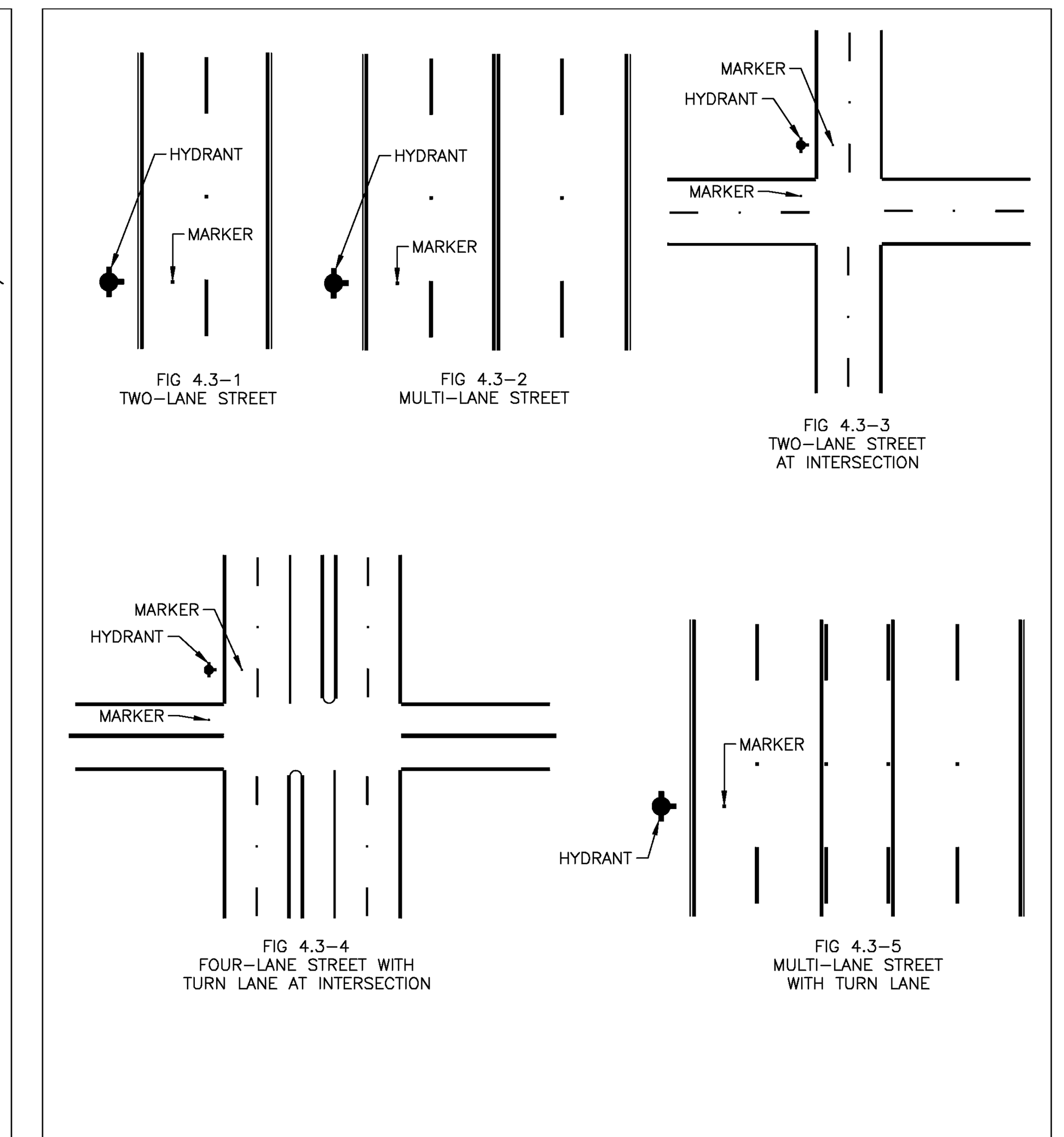


FIG 4.3-1 TWO-LANE STREET

FIG 4.3-2 MULTI-LANE STREET

FIG 4.3-3 TWO-LANE STREET AT INTERSECTION

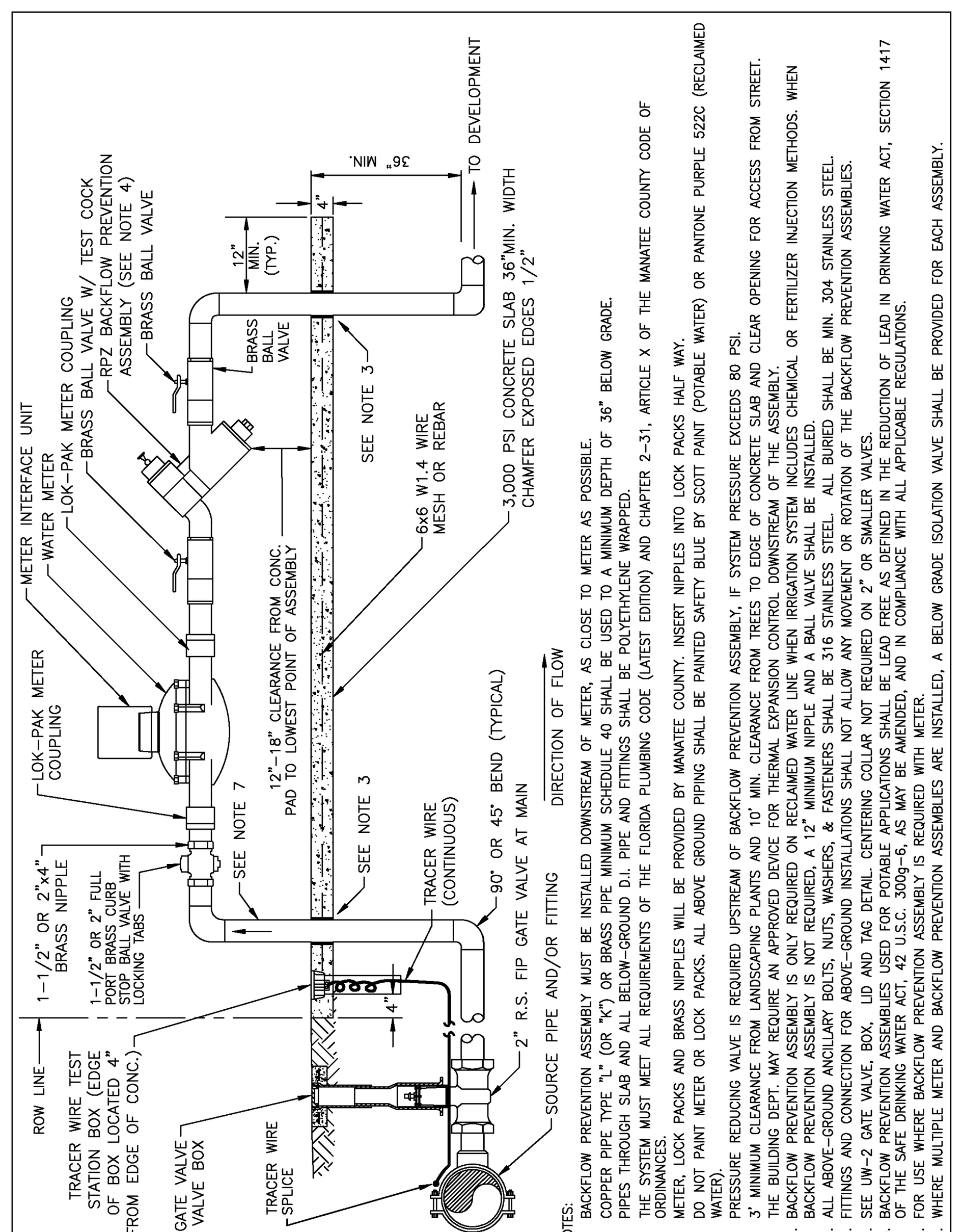
FIG 4.3-4 FOUR-LANE STREET WITH TURN LANE AT INTERSECTION

FIG 4.3-5 MULTI-LANE STREET WITH TURN LANE

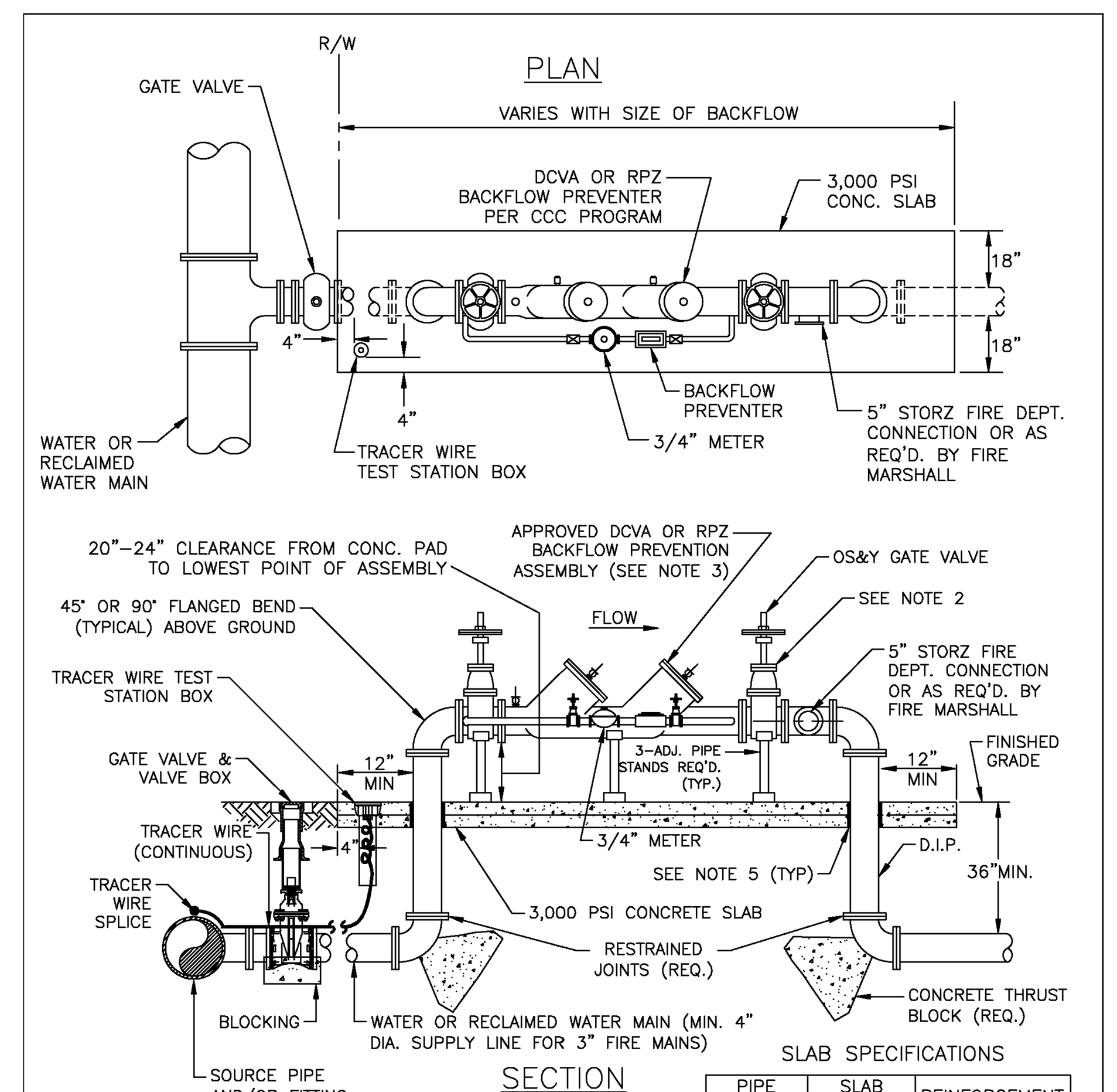
NOTES:

1. ALL STREETS OR ROADS: MARKER SHOULD BE PLACED IN THE CENTER OF THE TRAVEL LANE CLOSEST TO THE FIRE HYDRANT. SEE FIGURE 4.3-1, 4.3-2, AND 4.3-3.
2. STREETS WITH LEFT TURN LANE AT INTERSECTION: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED WHITE CHANNELIZING LINE OF THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-4.
3. STREETS WITH CONTINUOUS TWO-WAY TURN LANE: MARKER SHOULD BE PLACED 6 INCHES FROM THE EDGE OF THE PAINTED YELLOW BARRIER LINE ON THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-5.
4. MARKER SHALL BE BLUE/BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	HYDRANT LOCATION MARKERS – BLUE (RPMs)	UW-6



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	1½" & 2" METER AND BACKFLOW PREVENTION ASSEMBLY	UW-14



SECTION

SLAB SPECIFICATIONS

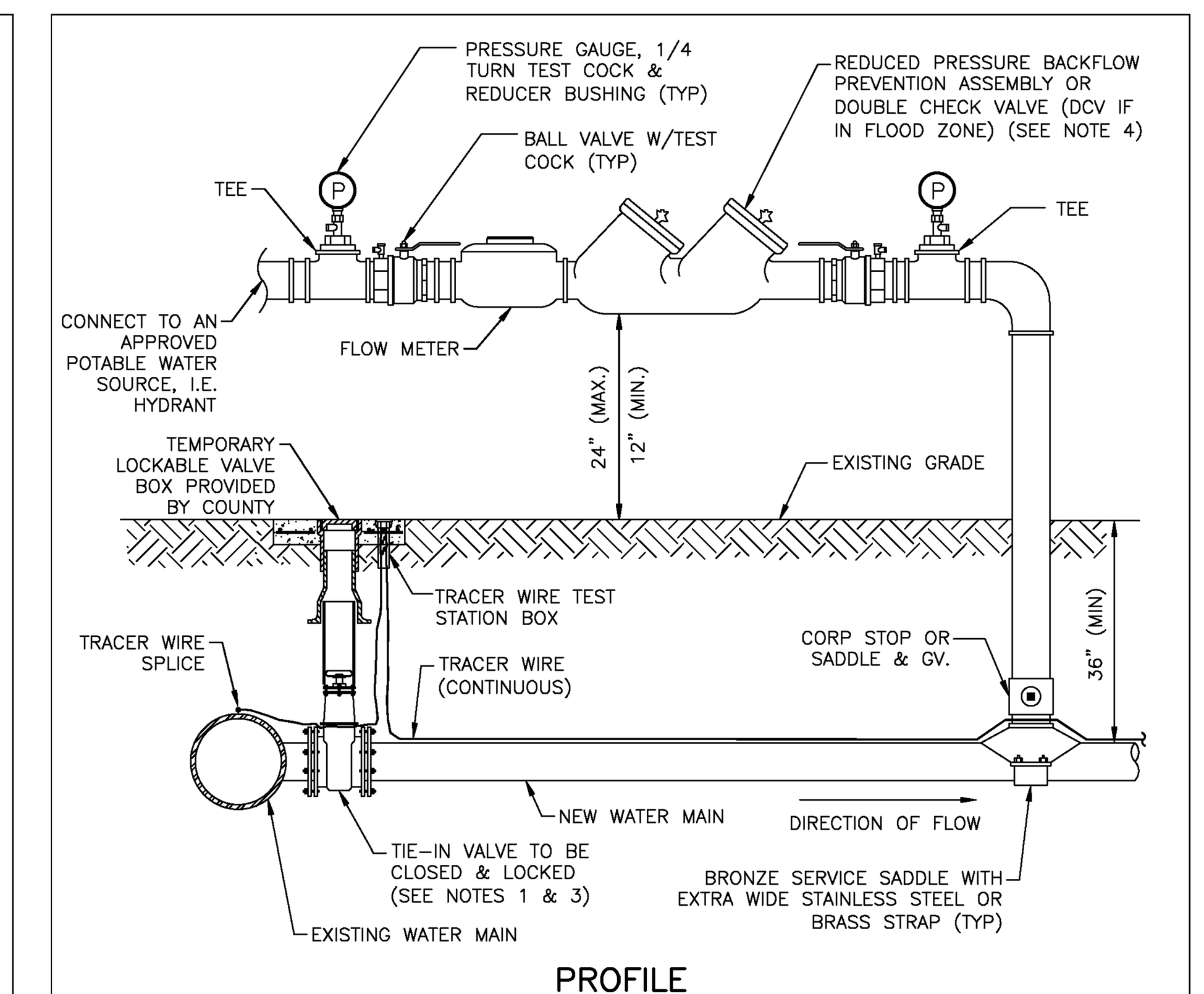
PIPE DIAMETER	SLAB THICKNESS	REINFORCEMENT
2" TO 10"	4"	6x6 W1.4 WIRE MESH*
12" TO 18"	4"	6x6 W3 WIRE MESH*

* REBAR MAY BE USED.

NOTES:

1. THIS DETAIL FOR FIRE PROTECTION ONLY.
2. WHEN PRESSURE TESTING FIRE LINE, TEST AGAINST DOWNSTREAM GATE VALVE.
3. THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION), CHAPTER 2-31, ARTICLE X OF THE MANATEE COUNTY CODE OF ORDINANCES, AND THE MANATEE COUNTY FIRE MARSHALL REQUIREMENTS.
4. ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON CLASS 53.
5. PIPE THROUGH SLAB AND ALL BELOW-GROUND D.I. PIPE AND FITTINGS SHALL BE POLYETHYLENE WRAPPED.
6. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
7. THE EDGE OF THE CONCRETE SLAB SHALL BE 6 FEET MIN. FROM LANDSCAPE VEGETATION AND ABOVEGROUND OBJECTS; AND 10 FEET FROM TREES. STREET SIDE OF ASSEMBLY SHALL REMAIN OPEN.
8. ALL ABOVE-GROUND ANCILLARY BOLTS, NUTS, WASHERS, & FASTENERS SHALL BE 316 STAINLESS STEEL. FLAT WASHERS SHALL BE INSTALLED ON BOTH SIDES OF THE FLANGE. ALL BURIED SHALL BE MIN. 304 STAINLESS STEEL.
9. SEE UW-2 GATE VALVE, BOX, LID AND TAG DETAIL.
10. PIPE STANDS SHALL BE BOLTED TO SLAB.
11. ABOVE GROUND PIPING SHALL BE PAINTED SAFETY RED
12. REFER TO 1.1.1.C IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
13. WHERE MULTIPLE AND BACKFLOW PREVENTION ASSEMBLIES ARE INSTALLED, A BELOW GRADE ISOLATION VALVE SHALL BE PROVIDED FOR EACH ASSEMBLY.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	2" AND ABOVE FIRE LINE BACKFLOW PREVENTION ASSEMBLY	UW-15



PROFILE

NOTES:

1. FOR TIE-IN VALVE, SEE DETAIL UW-3 FOR TAPPING SLEEVE VALVE AND UW-2 FOR GATE VALVE.
2. CORPORATION STOP CONNECTIONS TO WATER MAINS SHALL BE AT A SUFFICIENT DISTANCE FROM NEW TAPPING SLEEVE & VALVE (TIE-IN VALVE). ALL CORPORATION STOP TAPS SHALL BE PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP DIAMETERS (WHICHEVER IS LARGER) FROM THE NEW TIE-IN VALVE (TAPPING VALVE & SLEEVE). SIZE-ON-SIZE TAPS ARE NOT ALLOWED. A CUT-IN TEE SHALL BE USED.
3. IF THE EXISTING WATER MAIN IS LOCATED UNDER PAVEMENT OR CLOSE TO THE ROADWAY, BOTH JUMPER CORPORATION STOPS MAY CONNECT TO THE NEW WATER MAIN LOCATED OUTSIDE OF THE PAVEMENT. AN ADDITIONAL GATE VALVE SHALL BE INSTALLED AND THE VALVE MAY BE LOCATED AT THE ROW LINE. PIPING AND APPURTENANCES BETWEEN THE EXISTING MAIN AND ISOLATION VALVE AND JUMPER SHALL BE DISINFECTED BY SPRAYING OR SWABBING.
4. BACKFLOW PREVENTION ASSEMBLY SHALL BE STRUCTURALLY SUPPORTED.
5. THE TIE-IN VALVE SHALL REMAIN CLOSED AND THE LOCKABLE VALVE BOX SHALL BE LOCKED BY MANATEE COUNTY. THE TIE-IN VALVE SHALL REMAIN CLOSED AND LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE FDEP AND ALL OTHER PERTINENT AGENCIES. AFTER CLEARANCE IS OBTAINED, THE LOCKABLE VALVE BOX SHALL BE REMOVED, RETURNED TO THE COUNTY, AND REPLACED WITH A STANDARD VALVE BOX.
6. IN THE EVENT THE LOCKED TIE-IN VALVE MUST BE OPENED, THE VALVE SHALL ONLY BE OPERATED BY MANATEE COUNTY PERSONNEL.
7. SEE DETAIL UW-27 FOR ADDITIONAL JUMPER CONNECTION NOTES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	SEPT 12, 2023 / DATE OF APPROVAL	TEMPORARY JUMPER CONNECTION-HYDRANT AVAILABLE	UW-25

Stantec

Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

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Issued | By | Appd | YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project

MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

Project No.: 215618385

File Name: 215618385-05C-521WD

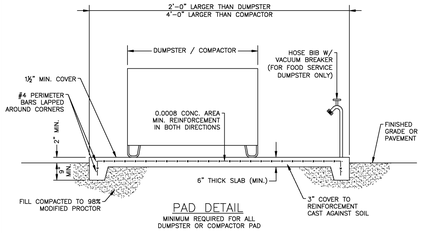
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	SW/51435		08/2023

Title

WATER DISTRIBUTION DETAILS

Revision:



PAD DETAIL

MINIMUM REQUIRED FOR ALL DUMPSTER OR COMPACTOR PAD

NOTES:

1. DUMPSTER PAD SHALL BE CLASS I CONCRETE W/ MIN. COMP. STRENGTH f'c= 3000 P.S.I. & MIN. REINFORCEMENT STRENGTH fy= 60,000 P.S.I.
2. DUMPSTER PAD SHALL BE FENCED IN ACCORDANCE WITH THE MANATEE COUNTY LAND DEVELOPMENT CODE.
3. ENCLOSURE SIZE TO BE A MINIMUM 10'x20' TO ACCOMMODATE RECYCLING CONTAINERS AND HAVE A MIN. TEN (10') FOOT GATE OPENING FOR EACH CONTAINER.
4. DISCHARGE FROM THE DUMPSTER PAD SHALL BE DIRECTED TO THE ONSITE STORMWATER MANAGEMENT SYSTEM, I.E. CATCH BASIN, SWALES, RETENTION AREA, ETC.
5. WHEN DUMPSTER PAD IS LOCATED ADJACENT TO PROPERTY LINE, DISCHARGE SHALL BE DIRECTED IN THE OPPOSITE DIRECTION AND SHALL NOT DISCHARGE ONTO ADJACENT PROPERTY.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		COMPACTOR AND DUMPSTER PADS	US-19
		SEPT 12, 2023		
		DATE OF APPROVAL		

TRENCH NOTES:

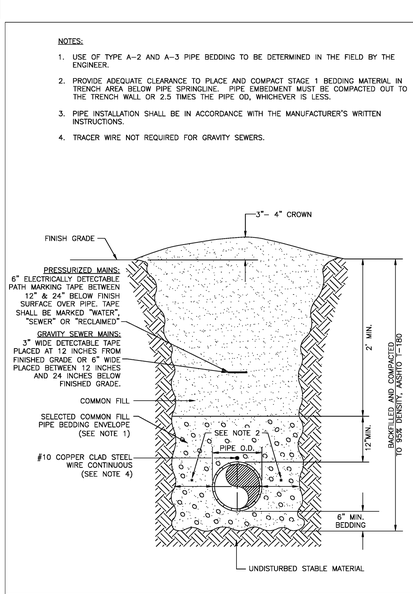
1. HORIZONTAL OR VERTICAL SEPARATION OF PIPES AS REFERRED TO IN THESE NOTES SHALL BE DEFINED TO BE THE MEASUREMENT FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. A STANDARD MINIMUM 12 INCHES OF VERTICAL CLEARANCE SHALL BE PRACTICED FOR WATER, GRAVITY SEWER RECLAIMED WATER, STORM AND FORCEMAIN PIPES THAT CROSS. WHERE IT IS DEMONSTRATED AND THE COUNTY AGREES THAT STANDARD SEPARATIONS ARE NOT REALISTIC, OR WHERE MAINTENANCE OF A PIPE WOULD BE MADE MORE ACCESSIBLE THE COUNTY ENGINEER MAY APPROVE REDUCTIONS OF THE STANDARD SEPARATIONS AS FOLLOWS:
   A. CLEARANCE FROM WATER TO FORCEMAIN, RECLAIMED WATER, STORM AND GRAVITY SEWER AND CLEARANCE FROM RECLAIMED WATER TO GRAVITY SEWER, WATER, FORCEMAIN AND STORM MAY BE REDUCED TO 6 INCHES WHEN THE WATER OR RECLAIMED WATER PIPE IS DI.
   B. CLEARANCE FROM FORCEMAIN TO WATER AND RECLAIMED WATER MAY BE REDUCED TO 3 INCHES WHEN THE FORCEMAIN IS BELOW AND HAS A WATER TIGHT CASING PIPE.
   C. CLEARANCE FROM RECLAIMED WATER TO WATER MAY BE REDUCED TO 3 INCHES WHEN THE RECLAIMED WATER IS BELOW AND HAS A WATER TIGHT CASING PIPE.
3. A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) IS REQUIRED BETWEEN WATER MAINS AND FORCEMAINS, AND BETWEEN WATER MAINS AND GRAVITY SEWER, AND BETWEEN WATER MAINS AND STORM SEWER, AND BETWEEN STORM SEWER AND GRAVITY SEWER. ALL OTHER COMBINATIONS OF WATER, GRAVITY SEWER, FORCEMAIN, RECLAIMED WATER AND STORM SEWER PIPES MUST HAVE A 5 FEET OF SEPARATION AT A MINIMUM, EXCEPT FOR GRAVITY SEWER AND FORCEMAINS, WHICH SHALL HAVE A MINIMUM OF 3 FEET SEPARATION.
4. WHERE IT IS TECHNICALLY FEASIBLE AND ECONOMICALLY PRACTICAL, THE STANDARD MINIMUM HORIZONTAL SEPARATIONS BETWEEN PIPELINES SHALL BE PRACTICED. WHERE IT IS DEMONSTRATED AND THE COUNTY AGREES THAT STANDARD SEPARATIONS ARE NOT REALISTIC, THE COUNTY ENGINEER MAY APPROVE REDUCTIONS OF THE STANDARD SEPARATIONS AS FOLLOWS:
   A. SEPARATION FROM RECLAIMED WATER TO GRAVITY SEWER, WATER, STORM, OR FORCEMAIN MAY BE REDUCED TO 3 FEET WHEN THE RECLAIMED WATER IS DI OR HDPE, OR HAS A WATER TIGHT CASING PIPE.
   B. SEPARATION FROM GRAVITY SEWER TO WATER OR STORM MAY BE REDUCED TO 5 FEET, AND SEPARATION FROM GRAVITY SEWER TO RECLAIMED OR STORM MAY BE REDUCED TO 3 FEET WHEN THE GRAVITY SEWER HAS A WATER TIGHT CASING PIPE.
   C. SEPARATION FROM WATER TO GRAVITY SEWER, STORM AND FORCEMAINS MAY BE REDUCED TO 5 FEET, AND SEPARATION FROM WATER TO RECLAIMED WATER MAY BE REDUCED TO 3 FEET WHEN THE WATER IS DI OR HDPE, OR HAS A WATER TIGHT CASING PIPE.
   D. SEPARATION FROM FORCEMAIN TO WATER MAIN MAY BE REDUCED TO 5 FEET, AND SEPARATION FROM FOCEMAIN TO RECLAIMED WATER MAY BE REDUCED TO 3 FEET WHEN THE FORCEMAIN IS HDPE OR HAS A WATER TIGHT CASING PIPE.
5. TRENCH SHALL BE BRACED OR SHORED IN ACCORDANCE WITH THE "FLORIDA TRENCH & SAFETY ACT".
6. WIDTH OF TRENCH BOTTOM SHALL BE OUTSIDE DIAMETER OF PIPE PLUS TEN INCHES (10") EACH SIDE, MAXIMUM FOR PIPES LESS THAN 24" DIAMETER.
7. CONTRACTOR SHALL PLACE METALLIC BURIAL IDENTIFICATION TAPE DIRECTLY ABOVE SEWER LINES IN CONFORMANCE WITH COUNTY CODE.
8. ALL WELL POINT HOLES SHALL BE FILLED WITH COARSE SAND OR OTHER SATISFACTORY GRANULAR MATERIAL AT TIME WELL POINTS ARE PULLED.
9. DISCHARGE FROM DEWATERING OPERATION SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT SHALL NOT INTERFERE WITH THE NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, CREATE A PUBLIC NUISANCE OR FORM PONDING. THE OPERATIONS SHALL NOT CAUSE INJURY TO ANY PORTION OF THE WORK COMPLETED, OR IN PROGRESS, OR TO THE SURFACE OF STREETS, OR TO PRIVATE PROPERTY.
10. THE PROPOSED DEWATERING METHOD(S) AND SCHEDULE SHALL BE COORDINATED WITH THE UTILITY AND/OR THE ENGINEER OF RECORD AND OTHER NECESSARY REGULATORY AGENCIES PRIOR TO CONSTRUCTION. ADDITIONALLY, WHERE PRIVATE PROPERTY SHALL BE INVOLVED, ADVANCE PERMISSION SHALL BE OBTAINED BY THE CONTRACTOR AND/OR DEVELOPER.
11. THE CONTRACTOR SHALL PROVIDE SOIL COMPACTION TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF THE SPECIFICATIONS DO NOT ADDRESS COMPACTION TESTS, THEY SHALL BE DONE IN ACCORDANCE WITH MANATEE COUNTY PUBLIC UTILITY STANDARDS, LATEST EDITION. ALL SOIL COMPACTION TESTS RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.

AS-BUILTS:

1. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION.
2. TOP OF PIPE ELEVATIONS FOR ALL POTABLE WATER AND GRAVITY SEWER MAINS ARE REQUIRED EVERY ONE HUNDRED FEET(100') AND/OR AT EACH STRUCTURE, FITTING OR CHANGE IN GRADE.
3. RECORD DRAWINGS, IF PREPARED BY THE CONTRACTOR OR CONTRACTORS SURVEYOR, DRAFT COPIES OF THE RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINALIZING THE DRAWINGS. ONCE ACCEPTABLE TO THE ENGINEER THE CONTRACTOR/SURVEYOR WILL PROVIDE 9 SETS OF SIGNED AND SEALED FINALIZED DRAWINGS FOR SUBMITTAL TO THE COUNTY. ONCE THE DRAWING ARE APPROVED BY THE COUNTY, CONTRACTOR/SURVEYOR IS RESPONSIBLE TO PROVIDE THE ENGINEER OF RECORD ONE SET OF MYLARS AND A DIGITAL COPY OF RECORD DRAWINGS IN CAD AND PDF FORMAT, RECORD INFORMATION SHALL BE ON UNIQUE LAYER(S) AND TEXT SHALL USE A STANDARD AUTOCAD FONT.

NOTES:

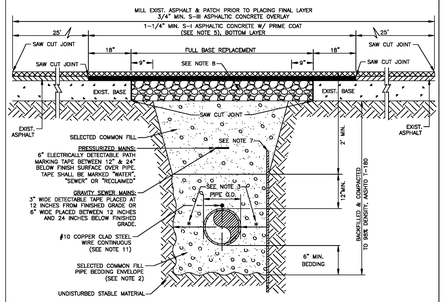
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
		SEPT 12, 2023		
		DATE OF APPROVAL		

NOTES:

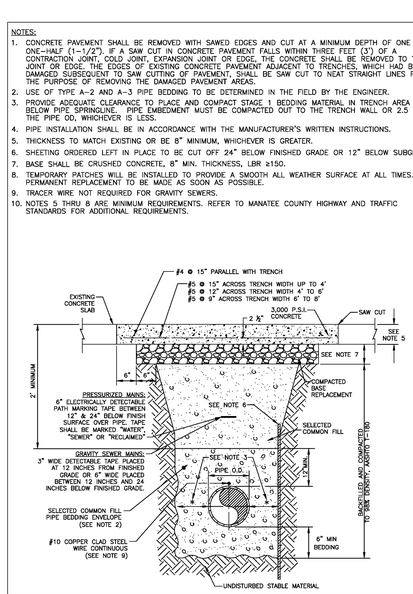
1. BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINES BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.
2. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
		SEPT 12, 2023		
		DATE OF APPROVAL		

NOTES:

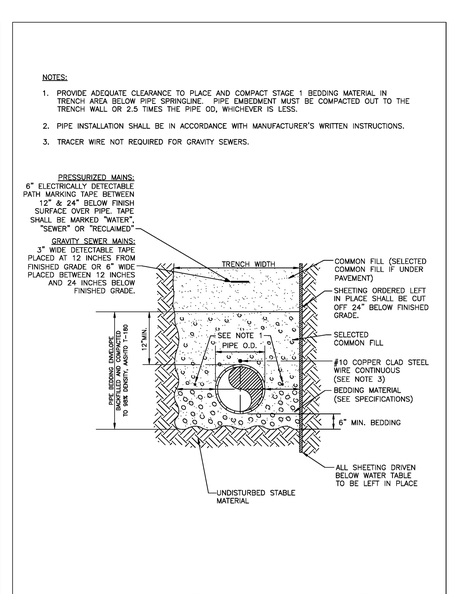
1. CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWED EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
2. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THICKNESS TO MATCH EXISTING OR BE 8" MINIMUM, WHICHEVER IS GREATER.
6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
7. BASE SHALL BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150.
8. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
9. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
10. NOTES 5 THRU 8 ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-14
		SEPT 12, 2023		
		DATE OF APPROVAL		

NOTES:

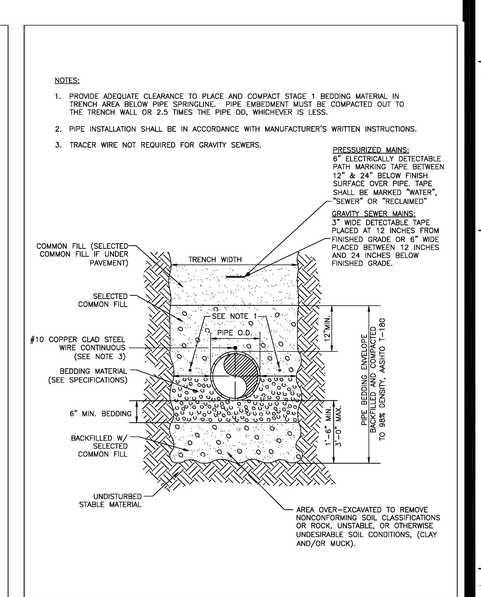
1. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-16
		SEPT 12, 2023		
		DATE OF APPROVAL		

NOTES:

1. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-17
		SEPT 12, 2023		
		DATE OF APPROVAL		

Stantec

Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

Consultant

No.	Issued / Revision	By	Appd	YYYY.MM.DD
1	Issued			

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UHLEIN RD
Sec. 13,14 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-5315D

Scale: 1"=20'

Dwn.	SW/S1435 Dsgn.	Chkd.	08/2023 YYYY.MM.DD

Title
WASTEWATER COLLECTION DETAILS

Revision:

Sheet: 14 of 17

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WASTEWATER COLLECTION GENERAL NOTES:

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS. IT IS ASSUMED THE IRRIGATION MAINS ARE OR WILL CONVEY REUSE WATERS.

1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. ELEVATIONS SHOWN ON THE PLANS FOR FLOWLINES OF PROPOSED WASTEWATER MAINS SHALL BE ADHERED TO. IN MOST CASES THE DESIGN GRADES ARE CRITICAL AND ADJUSTMENTS CAUSED BY MISALIGNMENT OR IMPROPER GRADES ARE IMPRACTICAL. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING.
5. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE WASTEWATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
6. PIPE AND FITTINGS FOR P.V.C. GRAVITY PIPE SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION D-3034 SDR26. GRAVITY SEWER MAINS SHALL BE GREEN IN COLOR.
7. FORCE MAINS SHALL BE THRUST BLOCKED IN ACCORDANCE WITH THE WATER MAIN DETAILS UNLESS OTHERWISE SPECIFIED. FORCE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 DR18 (150 PSI), GREEN IN COLOR & HAVE THE O.D. OF DUCTILE IRON. FORCE MAINS OVER 14" THROUGH 36" SHALL BE AWWA C-905, DR21.
8. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
9. ALL PVC GRAVITY SEWER LINES AND FORCEMAINS SHALL BE GREEN IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE GRAVITY SEWER LINE OR FORCEMAIN. THE TAPE SHALL BE MARKED "SEWER" FOR GRAVITY SEWER LINES AND "FORCEMAIN" FOR FORCEMAINS. THE COST FOR THE TAPE SHALL BE INCLUDED IN THE SEWER LINES OR FORCEMAIN UNIT PRICES.

SANITARY SEWER SERVICE NOTES:

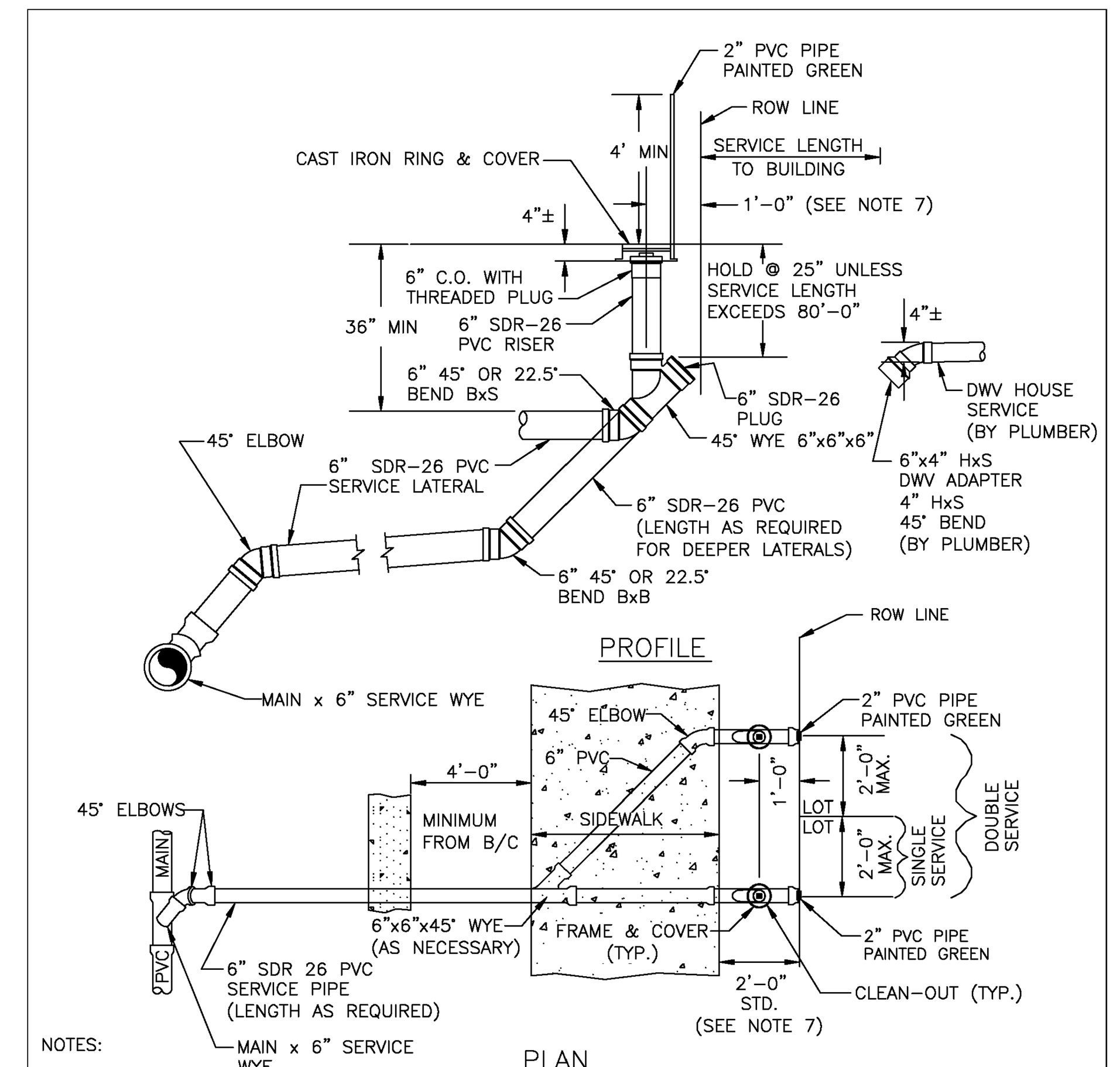
1. METALLIC IDENTIFICATION TAPE SHALL EXTEND FROM WYE CONNECTION TO THE END OF THE SERVICE EIGHTEEN INCHES (18") BELOW FINISHED GRADE AND TERMINATE TWELVE INCHES (12") ABOVE GROUND AT THE LOCATION STAKE. IN ADDITION THE CONTRACTOR SHALL BURY A TWO FOOT, (2') LONG #3 REBAR AT THE END OF THE SERVICE PARALLEL TO THE SURFACE FOR CONNECTION PURPOSES. COST OF TAPE AND REBAR TO BE INCLUDED IN THE COST FOR SERVICE PIPE INSTALLATION.
2. WHERE A HOUSE OR OTHER CONNECTION TERMINATES, THE CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC MARKER PIPE SIX FEET (6') IN LENGTH WITH A MINIMUM OF FOUR FEET (4') ABOVE GROUND AND TWO (2') FEET BELOW GROUND AND SHALL BE PAINTED GREEN.

CLEAN-OUT NOTES:

1. CLEANOUTS ARE REQUIRED ON ALL SERVICES AND AS SHOWN ON THE PLAN.
2. CLEAN-OUTS SHALL BE ADJUSTED TO CONFORM WITH FINISHED SURFACES. ALL ADJUSTMENTS SHALL BE INCLUDED IN THE PRICE BID. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.

SEWER TESTING:

1. TESTING SHALL BE IN CONFORMANCE WITH MANATEE COUNTY PUBLIC WORKS STANDARDS.
2. THE CONTRACTOR SHALL INCLUDE IN HIS COST FOR THE VARIOUS ITEMS CONTAINED IN THE BID SCHEDULE, THE ADDITIONAL COSTS INVOLVED WITH LAMPING THE NEWLY LAID SEWER PIPE, EXFILTRATION OR INFILTRATION TESTING, LOW PRESSURE AIR TEST PIPE DEFLECTION (MANDREL) TESTS, ALL AS OUTLINED IN THE MANATEE COUNTY PUBLIC WORKS STANDARDS
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ALL FORCE MAINS IN ACCORDANCE WITH THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION. THE CONTRACTOR SHALL ENSURE THAT FORCE MAINS CAN BE TESTED AT ALL MANHOLE CONNECTIONS AND PLUG VALVE LOCATIONS. IF GATE VALVES MUST BE UTILIZED FOR TESTING PURPOSES, ANY COST ASSOCIATED WITH THE INSTALLATION OF GATE VALVES, (INCLUDING MATERIALS) SHALL BE AT THE CONTRACTOR'S EXPENSE. ANY GATE VALVE(S) INSTALLED FOR TESTING PURPOSES SHALL BE ABANDONED AND LEFT FULLY OPENED.

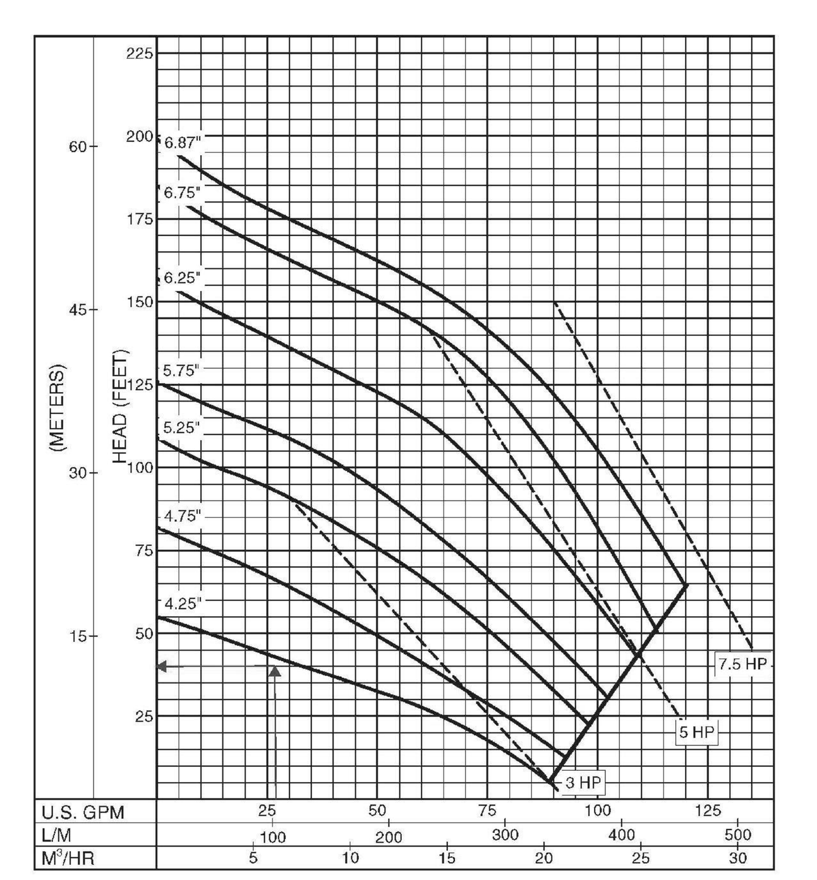


NOTES:

1. RUBBER DONUTS ARE NOT TO BE USED.
2. "S" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM GREEN DISC WITH "S" AND THE FOOTAGE FROM THE DISC TO THE CLEAN-OUT USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
3. SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS, SIDEWALKS OR DRIVEWAYS.
4. NO SERVICE CONNECTIONS TO BE MADE TO THE CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS SHALL BE MADE TO THE STUB-OUT PROVIDED.
5. SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.
6. CLEAN-OUT ADAPTER TO BE SOLVENT-WELDED TO RISER TOP. CLEAN-OUT THREADS SHALL BE WRAPPED WITH TEFLON PLUMBERS TAPE TO SEAL PLUG WATERTIGHT.
7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE ROW LINE IS ONE FOOT (CUL-DE-SAC W/MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE CLEAN-OUT RISER & THE ROW LINE SHALL BE 6".

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
SINGLE AND DOUBLE SERVICE CONNECTION
US-16

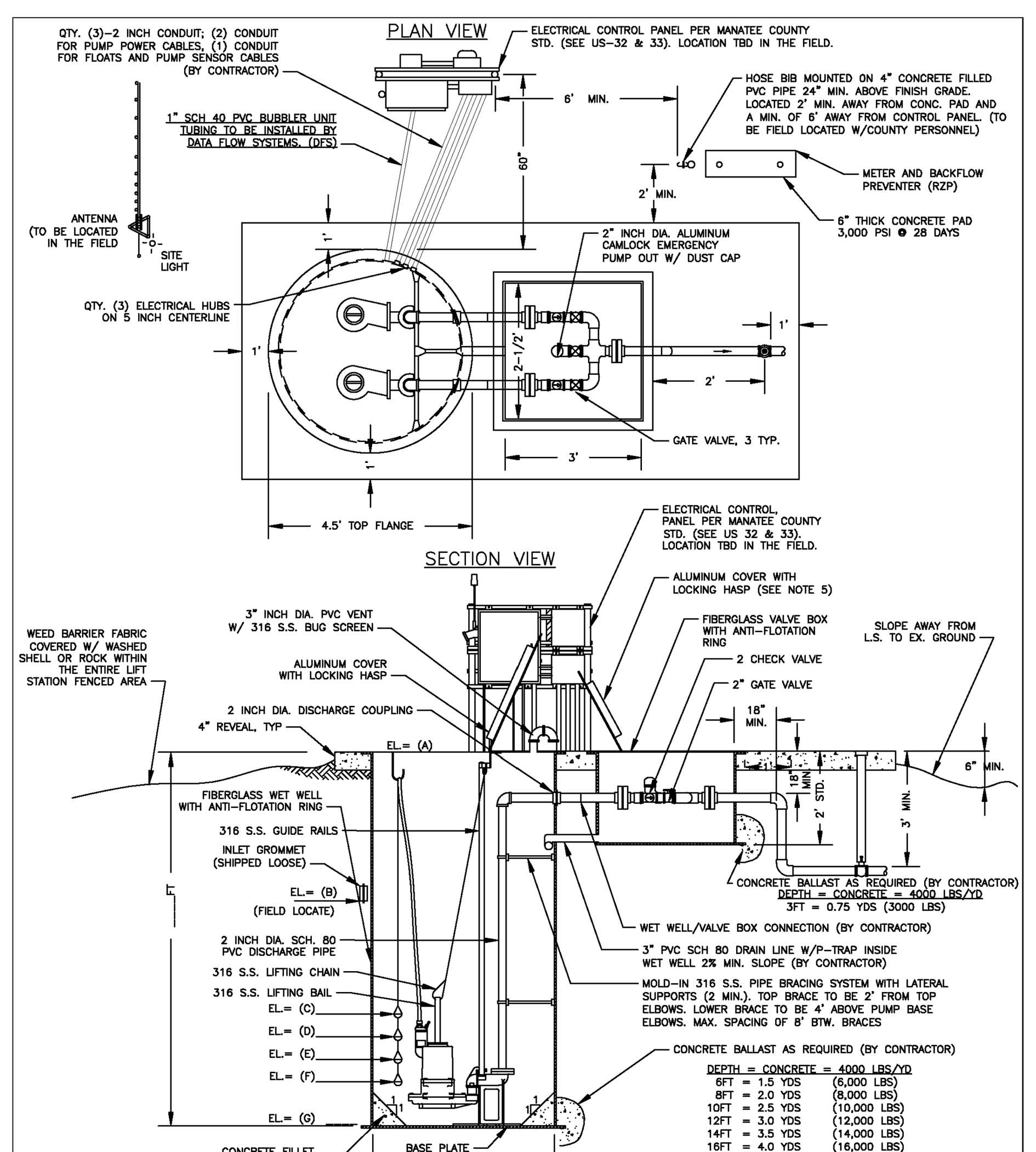
Performance Curve – HPGH(X)/HPGHH(X)   Section GRINDER Page 107
RPM: 3450 DISCHARGE: 2"



The curves reflect maximum performance characteristics without exceeding full load (Nameplate) horsepower. All pumps have a service factor of 1.2. Operation is recommended in the bounded area with operational point within the curve limit. Performance curves are based on actual tests with clear water at 70° F and 1260 feet site elevation.

Conditions of Service: GPM: 26 TDH: 40

PENTAIR HYDROMATIC



A	RIM ELEVATION	59.25
B	INFL. INVERT	55.00
C	HIGH WATER WATER	54.83
D	LAG PUMP 2 ON	54.50
E	LEAD PUMP 1 ON	54.17
F	LOW WATER LEVEL (ALL PUMPS OFF)	52.17
G	BOTTOM ELEVATION	50.00

NOTES:

1. THE GRINDER LIFT STATION SHALL MEET THE CRITERIA OF THE LATEST MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS FOR LIFT STATIONs, SECTION 1.14 IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL.
2. METER, BFP, & HOSE BIB SHALL BE PER M.C. UTILITY STANDARDS & LOCATED AS SUCH TO PROVIDE UNIMPEDED VEHICULAR ACCESS TO THE LIFT STATION FOR PUMP REMOVAL. COORDINATE LOCATION WITH COUNTY PERSONNEL.
3. ALL ELECTRICAL PANELS SHALL BE ABOVE THE REQUIRED 100 YEAR FLOOD PROTECTION ELEVATION (FPE).
4. FENCING AROUND THE GRINDER LIFT STATION SHALL BE FIELD LOCATED AND INSTALLATION COORDINATED WITH MANATEE COUNTY PERSONNEL.
5. SEE "ENTRANCE HATCH ELEVATION" CRITERIA IN THE M.C. P.W. UTILITY STANDARDS, 1.14.6

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
GRINDER LIFT STATION
US-34

GRINDER LIFT STATION NOTES:

1. GRINDER LIFT STATION SHALL BE IN ACCORDANCE WITH THE LATEST MANATEE COUNTY UTILITY STANDARDS, UNLESS OTHERWISE STATED BELOW. SEE US-21 THROUGH US-33.
2. ALL THE HATCH COVERS SHALL BE A MINIMUM OF 30"x36" OR AS SIZED PER THE PUMP MANUFACTURER'S REQUIREMENTS TO ALLOW FOR MAXIMUM ACCESS TO THE WET WELL. THE HATCH COVER SHALL INCLUDE A SINGLE OR DUAL DOOR OF DIMENSIONS SPECIFIED BY THE PUMP MANUFACTURER FOR PROPER PUMP CLEARANCE.
3. ALL FORCE MAIN PIPING AND FITTINGS WITHIN THE WET WELL AND THE VALVE VAULT SHALL BE PVC SCHEDULE 80. THE FORCE MAIN SHALL BE AT LEAST 18 INCHES BELOW THE TOP WITHIN THE WET WELL & VALVE VAULT. A 90 DEGREE BEND, THAT IS TURNED DOWN, SHALL BE INSTALLED 18 INCHES OUTSIDE OF THE VALVE VAULT TO OBTAIN A MINIMUM 3 FEET OF COVER. ALL PIPING SHALL BE COLOR CODED IN ACCORDANCE WITH THESE STANDARDS. GREEN-RAW SEWAGE; PURPLE-RECLAIMED: BLUE-POTABLE WATER.
4. ANCHORS & LIFTING DEVICES SHALL NOT PENETRATE THE WALLS OF THE WET WELL.
5. VERTICAL PVC PUMP DISCHARGE PIPE IN THE WET WELL SHALL BE BRACED, TOP BRACE TO BE 2' FROM TOP ELBOW, LOWER BRACE TO BE 4' ABOVE BASE ELBOW, MAX. SPACING OF 8' BETWEEN BRACES. THE PIPE SHALL BE CLAMPED TO A SINGLE LENGTH OF 1-5/8" 316 S.S. CHANNEL INSTALLED HORIZONTALLY AND ANCHORED TO THE WET WELL WALL AT EACH END WITH A CENTER BRACE OF 1-5/8" 316 S.S. CHANNEL ATTACHED TO THE BACK OF THE WET WELL. THE PIPE CLAMPS SHALL BE 316 STAINLESS STEEL.

DESIGN CONDITIONS

MODEL	HPGH(X)/HPGHH(X)	3	HP
GPM	26	40	FT/TDH
VOLTAGE	200V	1	PHASE
DISCHARGE (INCHES)	2	4.25"	IMPELLER (INCHES)

PUMPS SHALL BE OF THE SUBMERSIBLE TYPE. EACH PUMP SHALL BE MOUNTED ON A BPIU.12 RAIL SYSTEM. THE RAIL SYSTEM SHALL BE SELF ENGAGING RESULTING IN A LEAKPROOF COUPLING. THE RAIL SYSTEM SHALL INCLUDE THE BASE ELBOW, DISCHARGE FLANGE ASSEMBLY, Ø1" 316 SS GUIDE RAILS, 316 SS UPPER GUIDE BRACKET, 316 SS LIFTING BAIL AND CABLE, AND A SIX-HOOK 316 SS CABLE HOLDER. THE RAIL SYSTEM SHALL BE MOUNTED AND PRE-PIPED BY THE PUMP SUPPLIER.

PUMP CONSTRUCTION
THE PUMP VOLUTE, MOTOR AND SEAL HOUSING SHALL BE CONSTRUCTED OF CAST IRON, ASTM A-48. ALL EXTERNAL FASTENERS SHALL BE 316 STAINLESS STEEL. THE PUMP SHAFT SHALL BE CONSTRUCTED OF SERIES 416 STAINLESS STEEL.

IMPELLER
THE IMPELLER SHALL BE OF MULTI-VANE, SEMI-OPEN BRONZE CONSTRUCTION. THE IMPELLER SHALL INCLUDE PUMP-OUT VANES ON THE BACK OF THE IMPELLER AND SHALL BE STATICALLY AND HYDRAULICALLY BALANCED.

CUTTERS
A TWO-STAGE CUTTER ASSEMBLY SHALL BE MOUNTED ON THE SUCTION SIDE OF THE PUMP WITH DIRECT DISCHARGE INTO THE PUMP IMPELLER. THE GRINDER SHALL BE CAPABLE OF GRINDING ALL MATERIALS FOUND IN NORMAL, DOMESTIC SEWAGE, INCLUDING PLASTICS, RUBBER, SANITARY NAPKINS, DISPOSABLE DIAPERS AND WOOD PARTICLES, INTO A FINE SLURRY. BOTH THE STATIONARY AND ROTATING CUTTERS SHALL BE CONSTRUCTED OF 440C STAINLESS STEEL HARDENED TO ROCKWELL 60C.

MOTOR
THE MOTOR SHALL BE MOUNTED IN A SEALED, SUBMERSIBLE TYPE HOUSING. THE STATOR SHALL BE SECURELY HELD IN PLACE WITH A REMOVABLE END RING AND THREADED FASTENERS FOR EASE OF REMOVAL WITHOUT THE USE OF HEAT OR A PRESS. THE MOTOR WILL HAVE TWO HEAVY-DUTY BALL BEARINGS; ONE UPPER (RADIAL) AND ONE LOWER (THRUST), TO SUPPORT THE SHAFT. THE MOTOR SHALL BE EQUIPPED WITH A WINDING THERMOSTAT THAT AUTOMATICALLY SHUTS THE MOTOR OFF IN CASE OF MOTOR OVERHEATING.

SEAL CHAMBER
THE PUMP SHALL HAVE TWO MECHANICAL SEALS, MOUNTED IN TANDEM WITH AN OIL CHAMBER BETWEEN THE SEALS (OR EQUIVALENT). THE PUMP SHALL BE EQUIPPED WITH A SEAL LEAK DETECTION PROBE AND WARNING SYSTEM BY USING A SEAL FAILURE SENSOR INSTALLED IN THE SEAL CHAMBER.

WET WELL
THE PUMP SUPPLIER SHALL PROVIDE THE FIBERGLASS WET WELL. THIS GLASS FIBER-REINFORCED POLYESTER BASIN SHALL BE CONSTRUCTED OF A COMMERCIAL GRADE OF GLASS FIBER AND SHALL BE PROVIDED WITH AN ANTI-FLOTATION RING WITH A MINIMUM DIAMETER OF THREE INCHES LARGER THAN THE BASIN DIAMETER. THE RAIL SYSTEM, INTERNAL PIPING AND DISCHARGE CONNECTIONS SHALL BE PRE-INSTALLED BY THE PUMP SUPPLIER.

VALVE BOX
THE VALVE BOX IS FIBERGLASS WITH ALUMINUM LOCKABLE COVER. STANDARD SIZE VALVE BOX IS 3' X 2 1/2' X 2'.

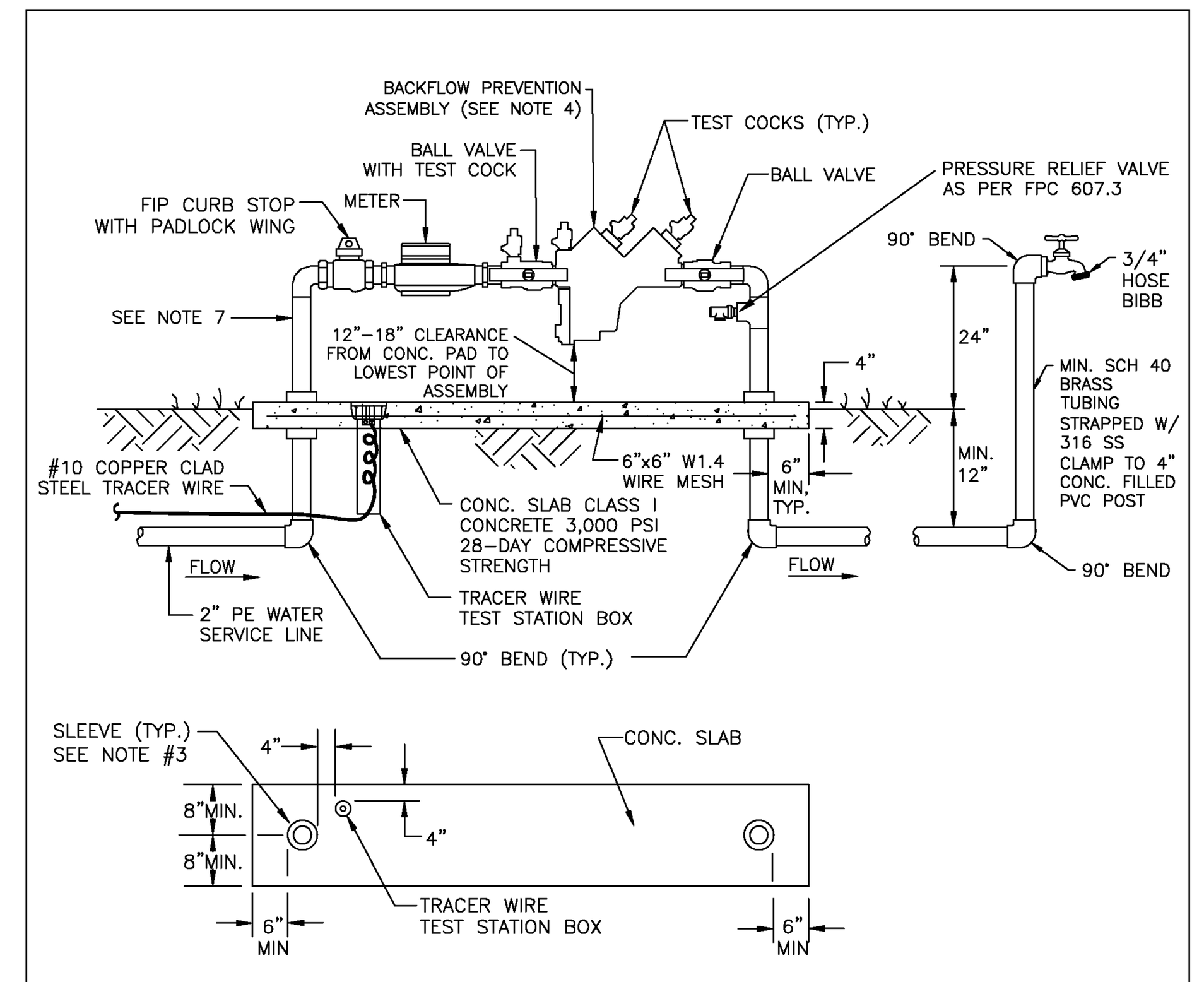
VALVES
VALVES SHALL BE SEWAGE SWING CHECK WITH CLEAN-OUT PORTS AND BRASS GATE VALVES.

FLOATS
FLOATS SHALL BE A MECHANICAL-TYPE SWITCH.

CONTROLS
THE CONTROL PANEL SHALL CONFORM TO THE CURRENT MANATEE COUNTY SPECIFICATIONS.

SUPPLIER
PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, FLOAT SWITCHES, ALUMINUM HATCHES AND ACCESSORIES TO ENSURE PROPER OPERATIONS AND WARRANTY. THE COMPLETE PACKAGE LIFTING STATION SHALL HAVE PUMP BASES, RAIL ASSEMBLIES, AND DISCHARGE PIPING READY FOR FIELD INSTALLATION.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
GRINDER LIFT STATION NOTES
US-35



NOTES:

1. BACKFLOW PREVENTION ASSEMBLY DEVICE MUST BE INSTALLED DOWNSTREAM OF METER, AS CLOSE TO METER AS POSSIBLE.
2. COPPER PIPE TYPE ("K" OR "L") OR BRASS PIPE MINIMUM SCHEDULE 40 SHALL BE USED TO A MINIMUM DEPTH OF 12" BELOW GRADE.
3. PIPES PASSING THROUGH OR ENCASED IN CONCRETE MUST BE PROPERLY PROTECTED AND SLEEVED.
4. THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION) AND CHAPTER 2-31, ARTICLE X OF THE MANATEE COUNTY CODE OF ORDINANCES.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. BACKFLOW PREVENTER SHALL BE TESTED AT THE TIME OF INSTALLATION.
7. PRESSURE REDUCING VALVE REQUIRED UPSTREAM OF BACKFLOW PREVENTION ASSEMBLY, IF SYSTEM PRESSURE EXCEEDS 80 PSI.
8. 3' MIN. CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF CONCRETE SLAB AND CLEAR OPENING FOR ACCESS FROM STREET.
9. THE WATER METER AND BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED AT THE ROW LINE. THE BACKFLOW PREVENTION ASSEMBLY FOR PRIVATE LIFT STATIONS SHALL BE LOCATED ADJACENT TO THE ROW LINE OR WITHIN AN EASEMENT OUTSIDE OF THE FENCING.
10. SATELLITE LIFT STATIONS SHALL HAVE A 2" WATER SERVICE LINE, A 5/8-INCH WATER METER, AND A 3/4-INCH REDUCED PRESSURE (RPZ) BACKFLOW PREVENTION ASSEMBLY, AND A SEPARATE POST MOUNTED HOSE BIBB. STATIONS WITH WET WELL DIAMETERS 10 FEET AND LARGER SHALL HAVE A 2-INCH METER AND RPZ BACKFLOW PREVENTION ASSEMBLY, AND AN ADDITIONAL 2" ALUMINUM QUICK CONNECT HOSE CONNECTION, SEE DETAILS US-22. ALL ITEMS SHALL BE FIELD LOCATED WITH COUNTY PERSONNEL.
11. BACKFLOW PREVENTION ASSEMBLIES USED FOR POTABLE APPLICATIONS SHALL BE LEAD FREE AS DEFINED IN THE REDUCTION OF LEAD IN DRINKING WATER ACT, SECTION 1417 OF THE SAFE DRINKING WATER ACT, 42 U.S.C. 300g-6, AS MAY BE AMENDED, AND IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
5/8" WATER METER & BACKFLOW PREVENTION ASSEMBLY FOR LIFT STATIONS
US-21

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel. (941) 907-6900
www.stantec.com

Consultant

Revision | By | Appd | YYYY.MM.DD

Issued | By | Appd | YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

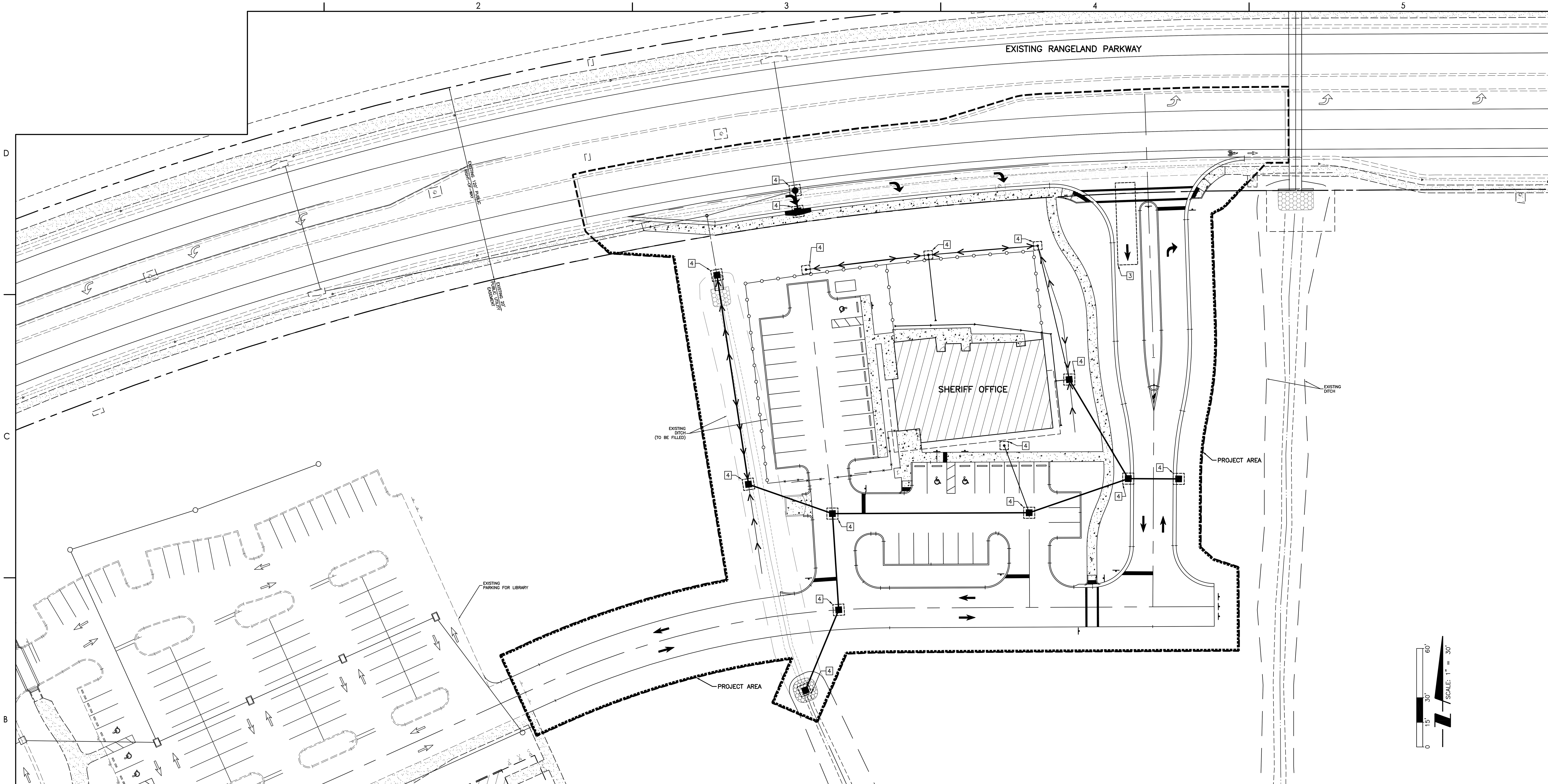
Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
Sec. 11, 12, 13, 14 Twp. 35S Rng. 19E

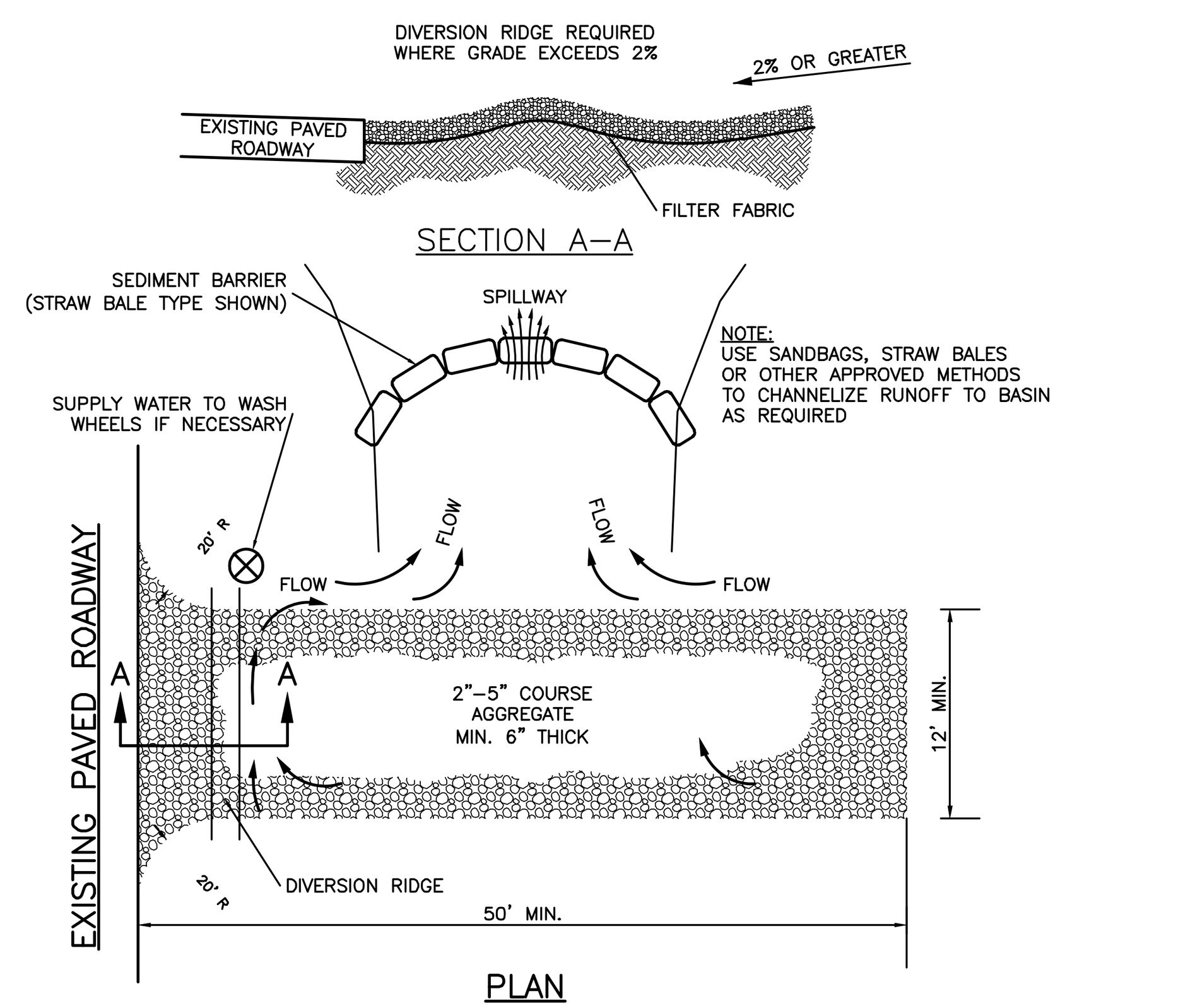
Project No.: 215618385
File Name: 215618385-05C-531SD
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	SW/51435		08/2023

Title
WASTEWATER COLLECTION DETAILS

Revision:
Sheet: 15 of 17





PLAN

NOTE:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-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 CONSTRUCTION ENTRANCE DETAIL

N.T.S.

BEST MANAGEMENT PRACTICES NOTES:

1. A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFWMD AND FDEP PERMITTING CONDITIONS.
3. THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.
6. THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
8. ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR FIBER LOGS IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
9. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPS SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
10. AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
11. DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
12. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT SUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES AS DICTATED BY FIELD CONDITIONS.
13. THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
14. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3') WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
15. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL BMP'S SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
18. THE SITE SUPERINTENDENT, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILLING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
19. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
20. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
21. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
22. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
23. THE SEDIMENT BASIN SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT 23. REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
24. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.
28. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE AT SPECIFIED LOCATIONS AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT OVERSEES THE PERMITTING REQUIREMENTS OF DEWATERING MEANS AND METHODS. ALL DEWATERING EFFLUENT SHALL BE ROUTED TO A TEMPORARY SEDIMENT SUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATERS, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM AS DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION, THOUGH THE ACTUAL LAYOUT OF THE SYSTEM MAY BE CONSTRUCTED AS DICTATED BY FIELD CONDITIONS.
29. CONTRACTOR TO FILE A NOTICE OF TERMINATION (NOT) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.

(10/9/19)

BMP LEGEND

1 SILT FENCE (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 2)

2 FIBER LOG SILT BARRIER (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 3)

3 POSSIBLE LOCATION VEHICLE TRACKING BMP (PER TEMPORARY CONSTRUCTION ENTRANCE, THIS SHEET)

4 INLET PROTECTION (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 7)

5 SILT FENCE OR TURBIDITY BARRIER(AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 2 OR FIGURE 4) AS PER ENGINEERS REPRESENTATIVE.

Stantec

Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

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Revision	By	Appd	YYYY.MM.DD
Issued	By	Appd	YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
Sec. 11,12,13,14 Twp. 35S Rng. 19E

Project No.: 215618385
File Name: 215618385-05C-701ED
Scale: 1"=20'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	SW/51435		08/2023

Title
BEST MANAGEMENT PLAN

Revision:

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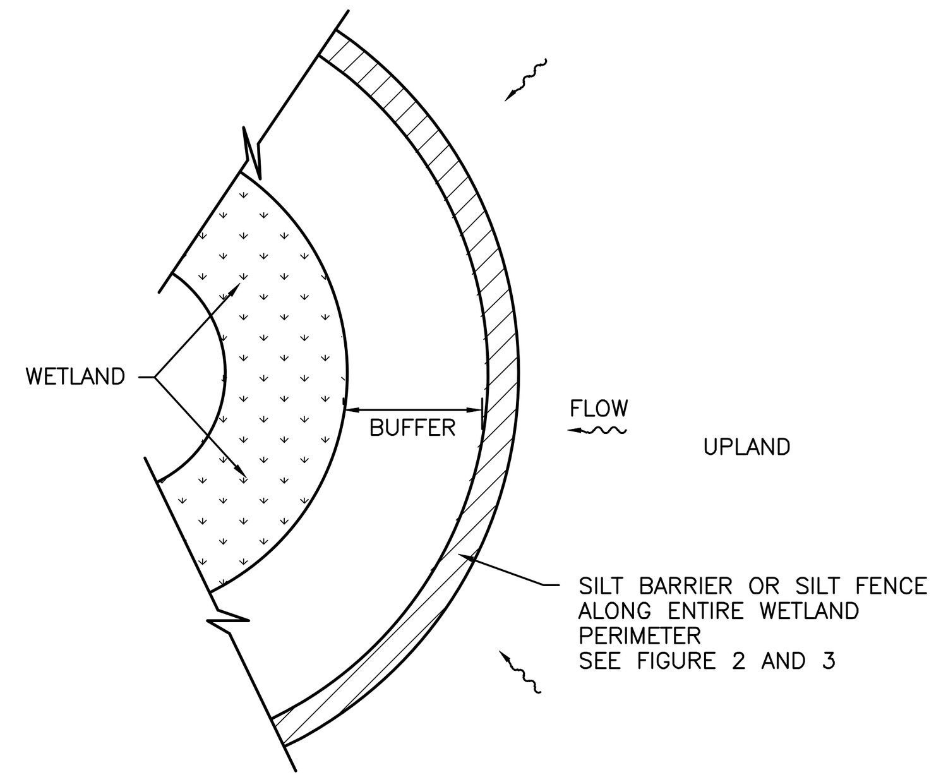
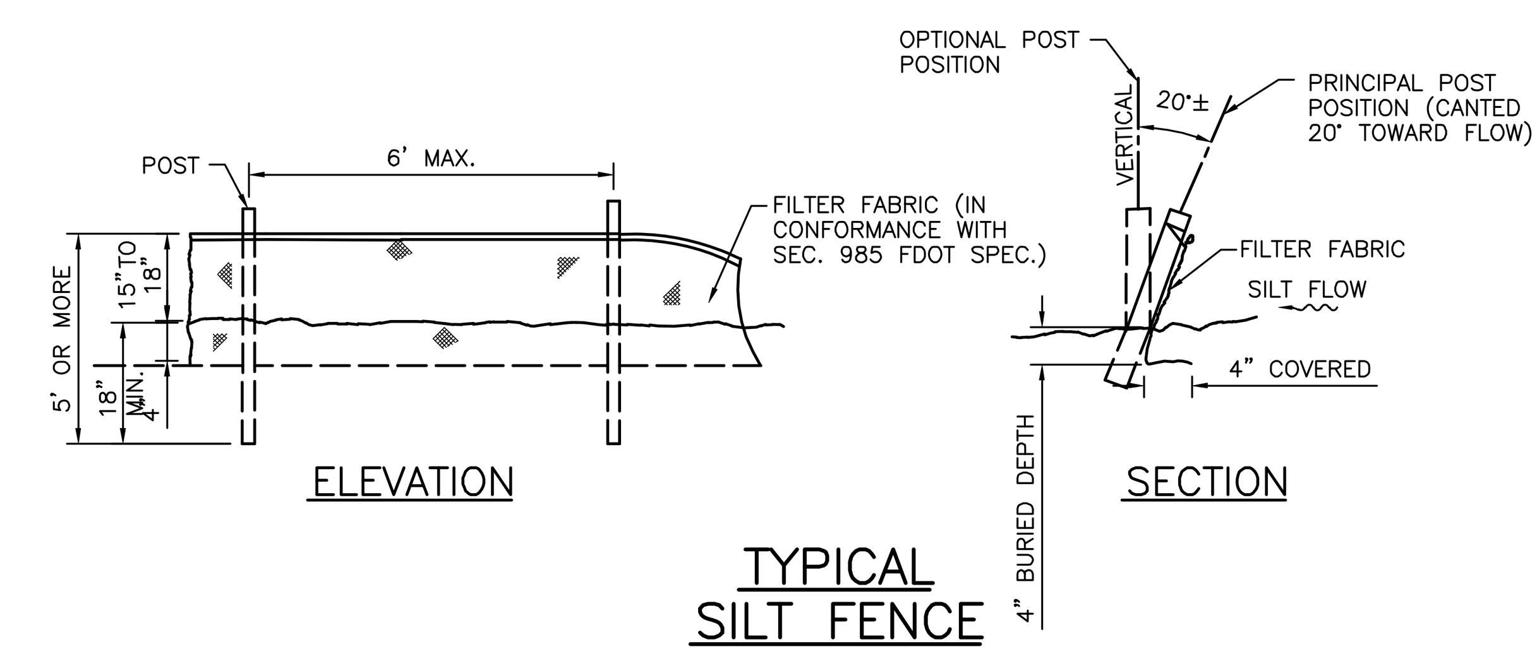


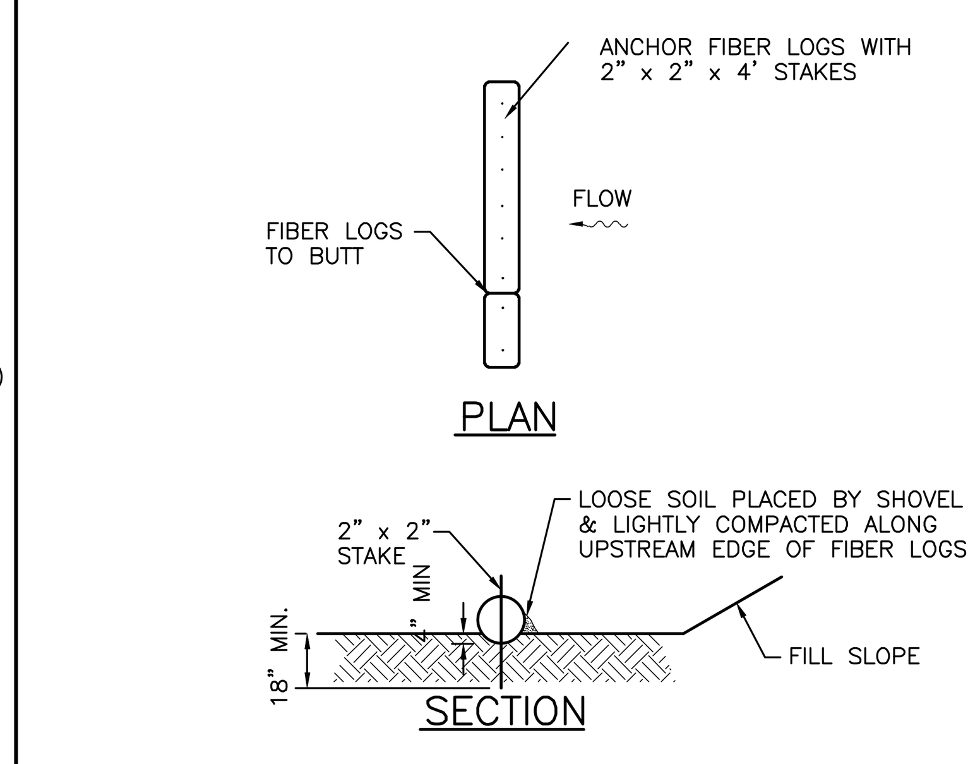
WETLAND BUFFER
N.T.S.

FIGURE 1



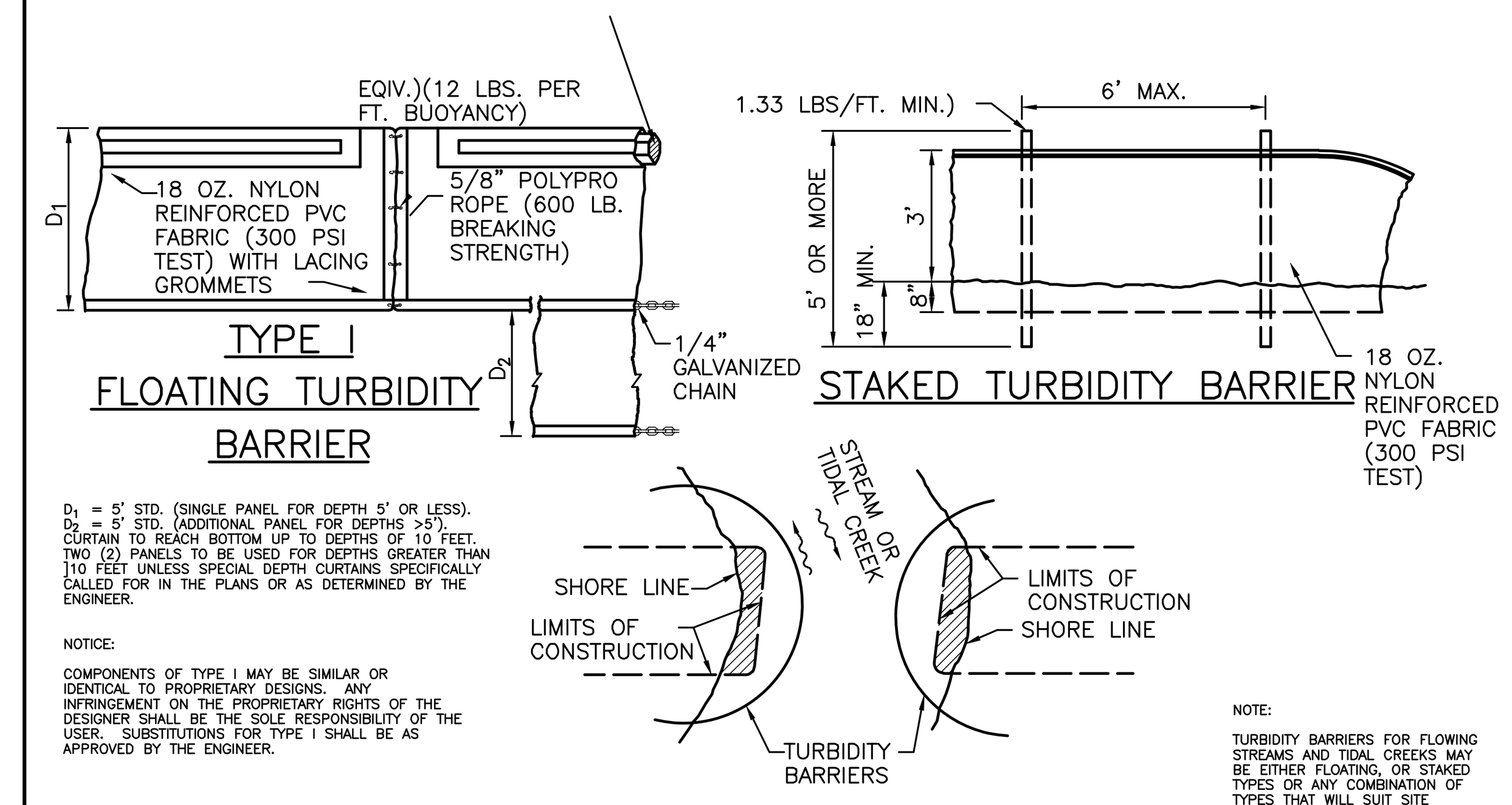
TYPICAL SILT FENCE
N.T.S.

FIGURE 2



TYPICAL FIBER LOG SILT BARRIER
N.T.S.

FIGURE 3



D_1 = 5' STD. (SINGLE PANEL FOR DEPTH 5' OR LESS).
D_2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS >5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN]10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE:

COMPONENTS OF TYPE I MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE I SHALL BE AS APPROVED BY THE ENGINEER.

NOTES:

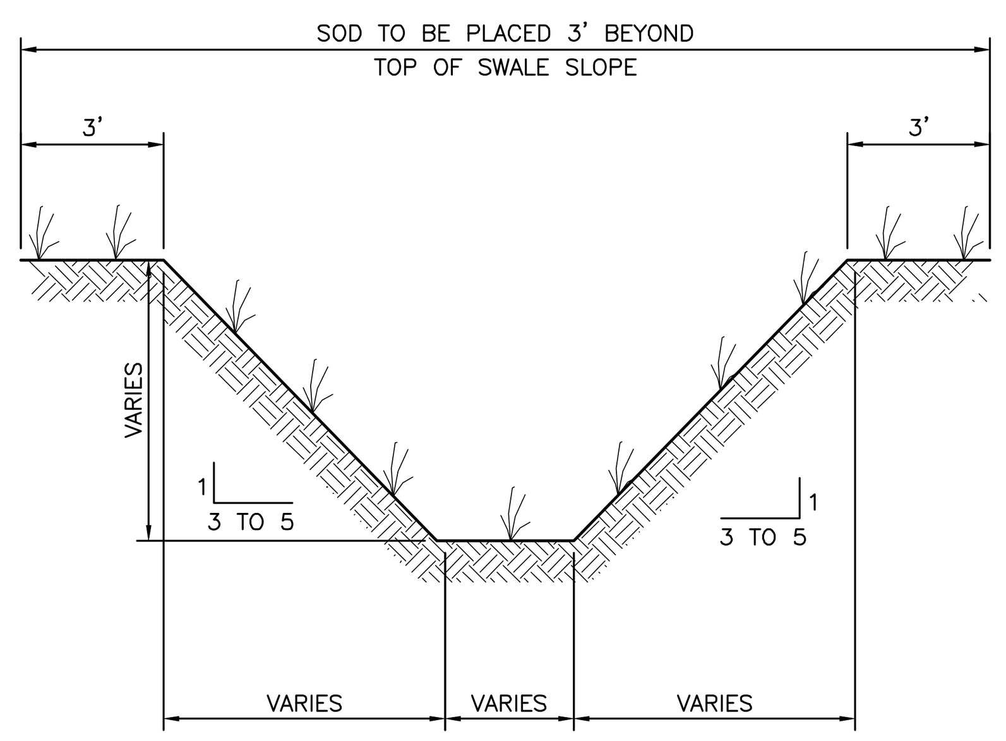
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON WATER VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.

NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

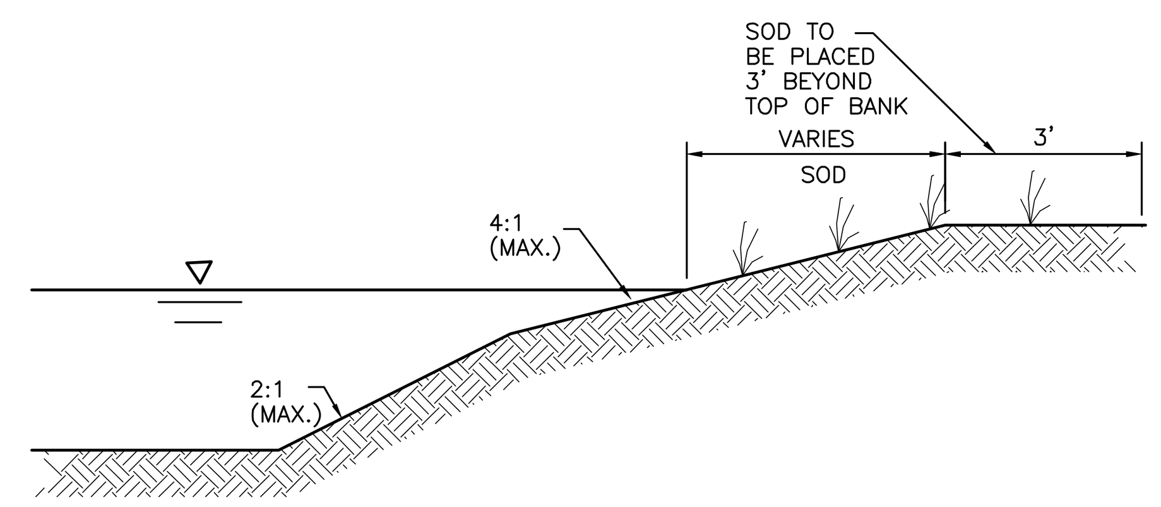
TURBIDITY BARRIERS
N.T.S.

FIGURE 4



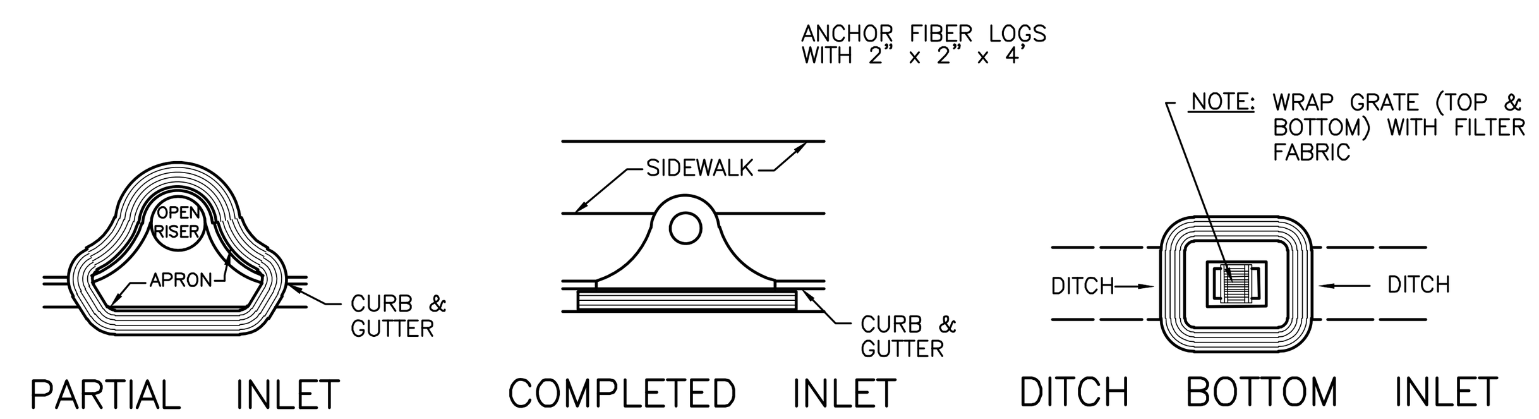
TYPICAL SWALE SECTION
N.T.S.

FIGURE 5



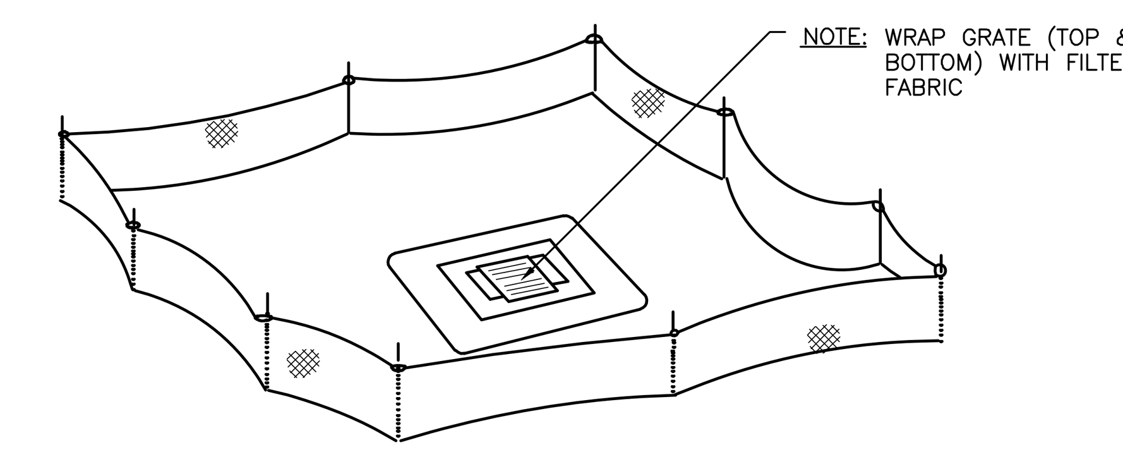
TYPICAL RETENTION/DETENTION POND SECTION
N.T.S.

FIGURE 6



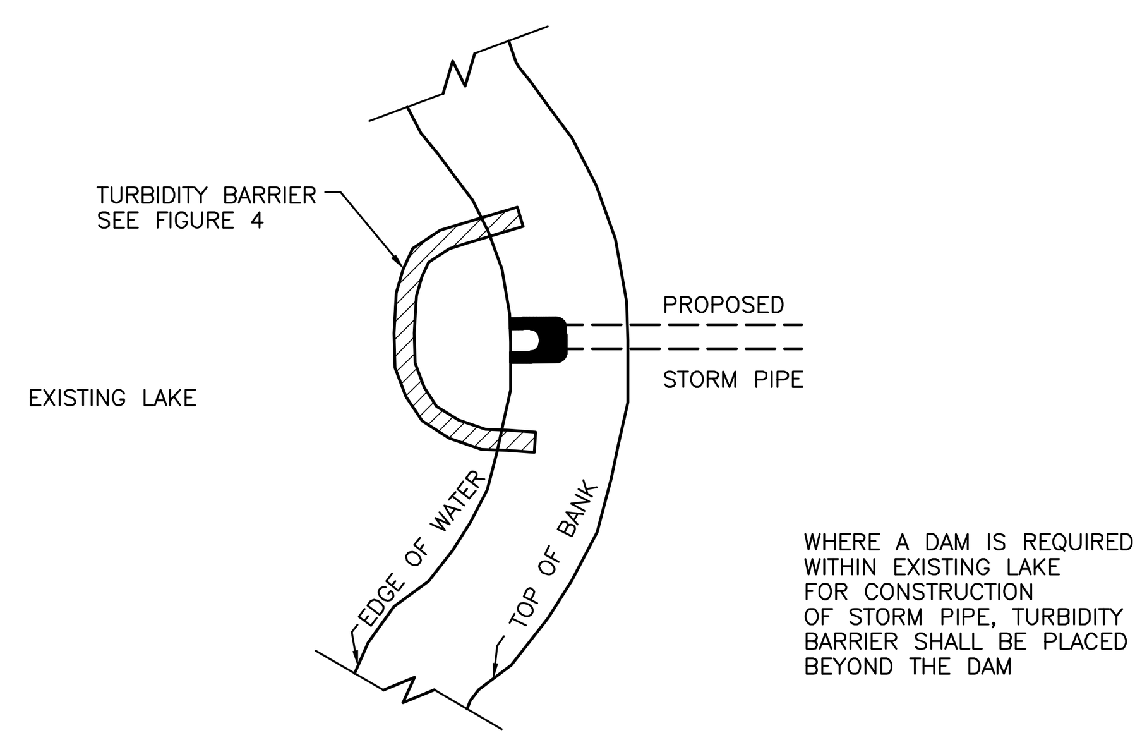
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.

FIGURE 7



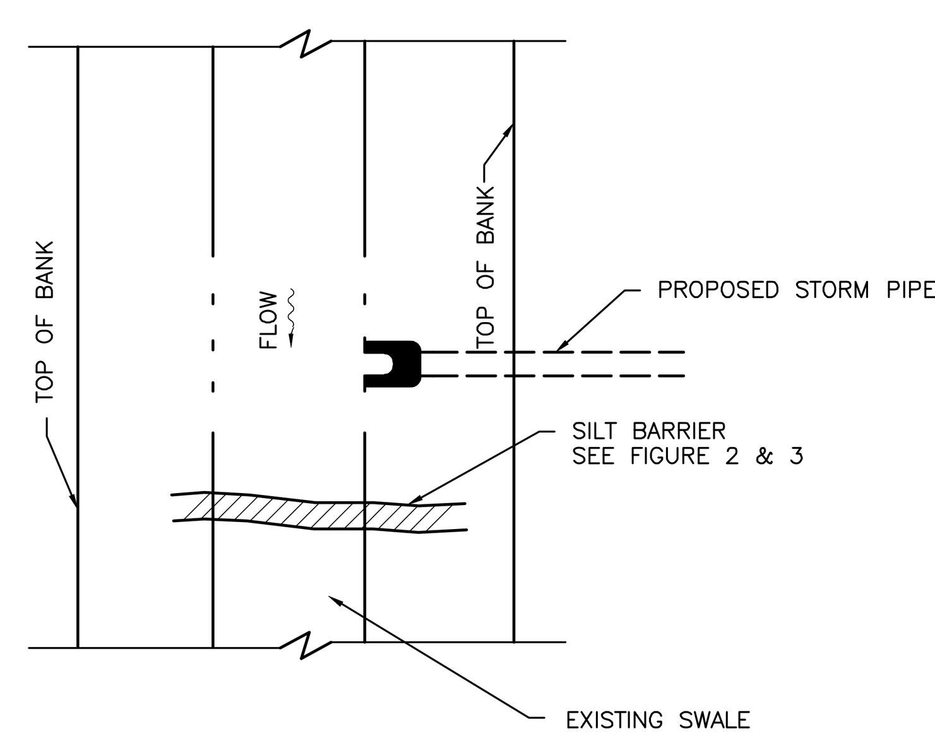
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
N.T.S.

FIGURE 8



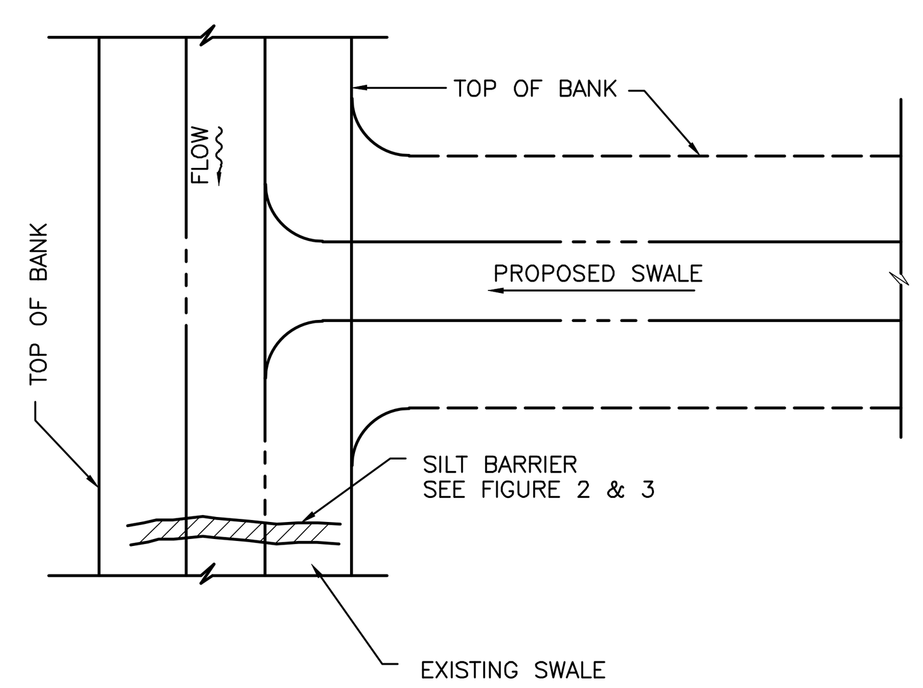
TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
N.T.S.

FIGURE 9



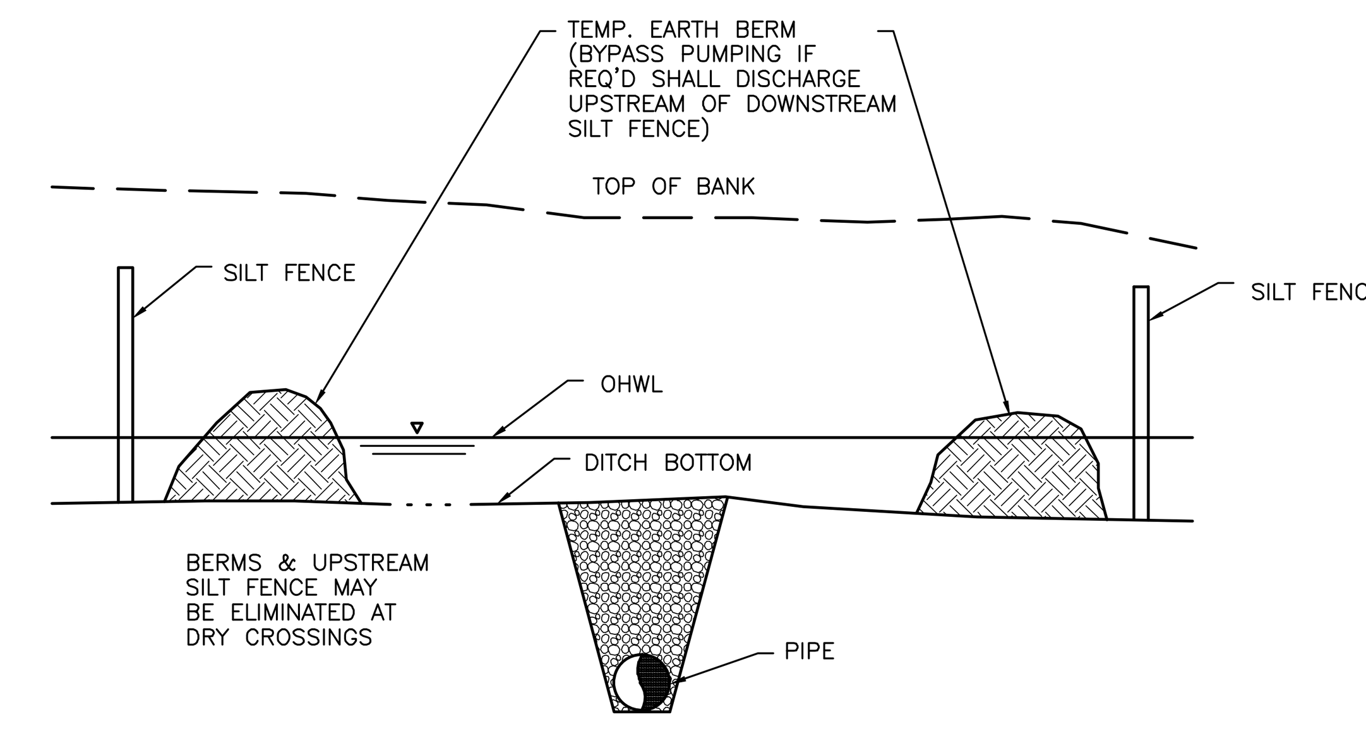
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
N.T.S.

FIGURE 10



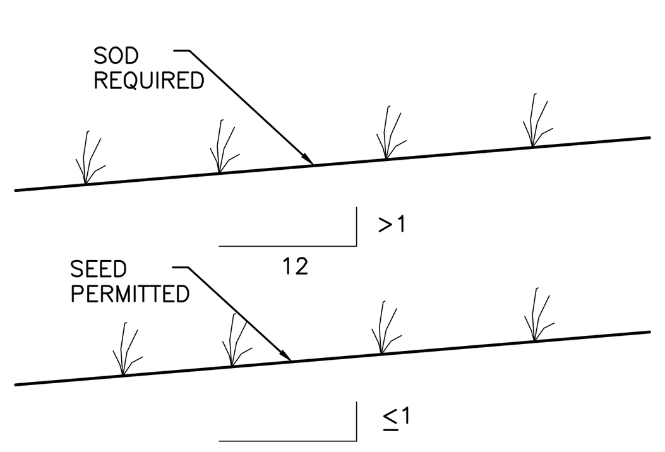
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
N.T.S.

FIGURE 11



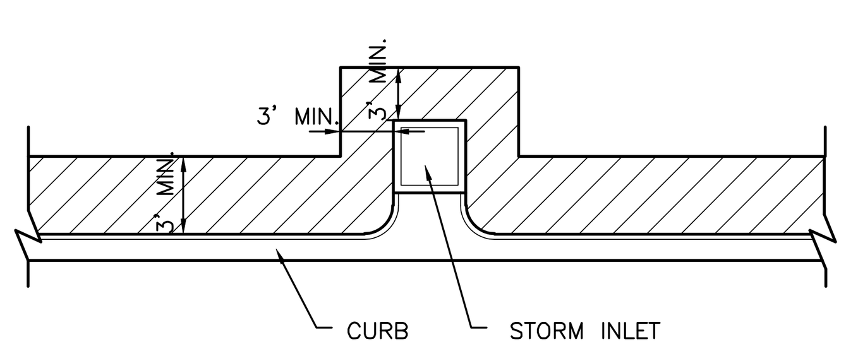
UNDERGROUND PIPE CROSSING
N.T.S.

FIGURE 12



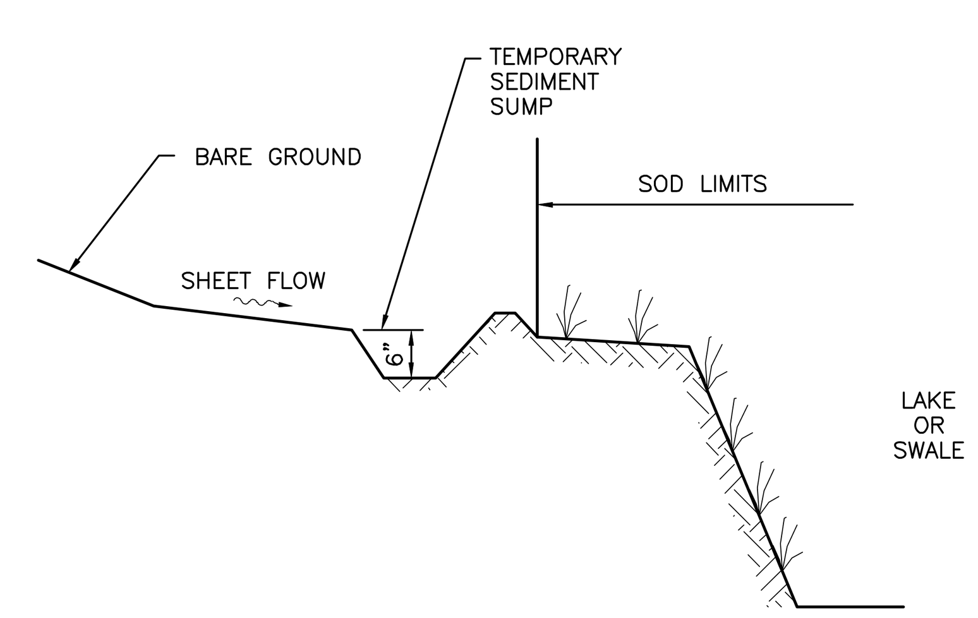
GRASS SLOPES
N.T.S.

FIGURE 13



SOD ALONG CURB AND AROUND INLET
N.T.S.

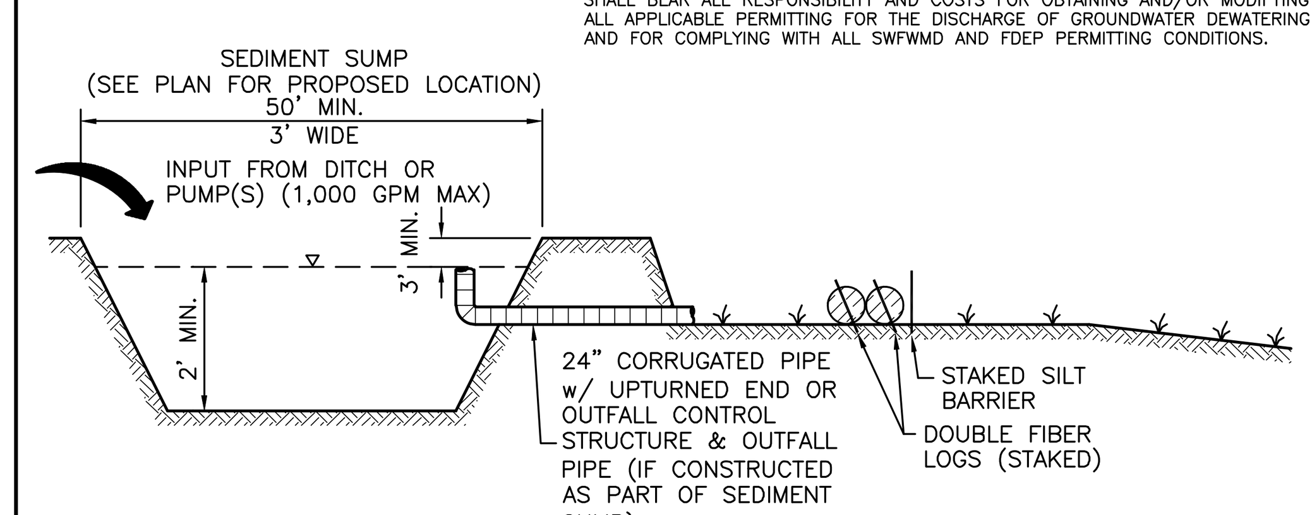
FIGURE 14



TEMPORARY SEDIMENT SUMP
N.T.S.

FIGURE 15

NOTE:
IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFWMD AND FDEP PERMITTING CONDITIONS.



SEDIMENT SUMP SECTION
N.T.S.

FIGURE 16

Stantec

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6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
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Issued | By | Appd | YYYY.MM.DD

Permit/Seal

90% PERMIT SET

D. SCOTT McKENNA, P.E.
FLORIDA LICENSE NO. 51435

Client/Project
MANATEE COUNTY
MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Project No.: 215618385
File Name: 215618385-05C-711ED
Scale:
Dwn. | Dsgn. | Chkd. | YYYY.MM.DD

Title
BEST MANAGEMENT DETAILS

Revision:
Sheet: 17 of 17

EXISTING RANGELAND PARKWAY

EXISTING 4" PVC FORCE MAIN

EXISTING PUBLIC 120.0' RIGHT-OF-WAY

EXISTING FIRE HYDRANT

ROADWAY BUFFER, 10' WIDE, 2 CANOPY TREES, AND 33 SHRUBS PER 100 LF

EXISTING 4" GATE VALVE, 4"x4" WYE & PLUG

EXISTING 12" PVC WATER MAIN

18"RCP

FENCE

FORCE MAIN

SANITARY GRINDER STATION

SOD A

SOD B

EXISTING 20.0' PUBLIC UTILITY EASEMENT

EXISTING RIGHT-OF-WAY LINE

12.0' PUBLIC UTILITY EASEMENT

BACKFLOW PREVENTER

WATER METER AND RPZ

MULCH

SEWER SERVICE

PROJECT BOUNDARY

EXISTING 4" PVC FORCE MAIN

SHERIFF OFFICE
1 STORY / 5,175 SF

FOUNDATION LANDSCAPE
20SF PER 1000SF OF GROSS FLOOR AREA.
5,175 SF / 1000 = 5.18
5.18 x 20 = 104 SF OF FOUNDATION
LANDSCAPE REQUIRED AND PROVIDED

VEHICLE USE AREA LANDSCAPE
360 SF OF PLANTING AREA, (4) CANOPY TREES, AND (20) SHRUBS PER 20 PARKING SPACES.
38 TOTAL PARKING SPACES = 702 SF OF PLANTING AREA, (8) CANOPY TREES, (38) SHRUBS REQUIRED AND PROVIDED.

SCALE: 1" = 20'

0 10 20 40

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6320 Professional Parkway East
Sarasota, Florida, 34240-8414
Tel 941 907 6900
www.stantec.com

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CHS	2024.02.07	CHS	2024.02.07	
By	Appd	By	Appd	YYYY.MM.DD
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Issued				

Permit/Seal

CHRISTOPHER H. SUTTON, RLA
FL LICENSE NO. LA6667123

Client/Project
MANATEE COUNTY SHERIFFS OFFICE
AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
MANATEE COUNTY, FLORIDA

Project No.: 215618385
File Name: 215618385-01L-LP101

Scale:

CHS	CHS	SAB	2024.01.31
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

LANDSCAPE PLANTING PLAN

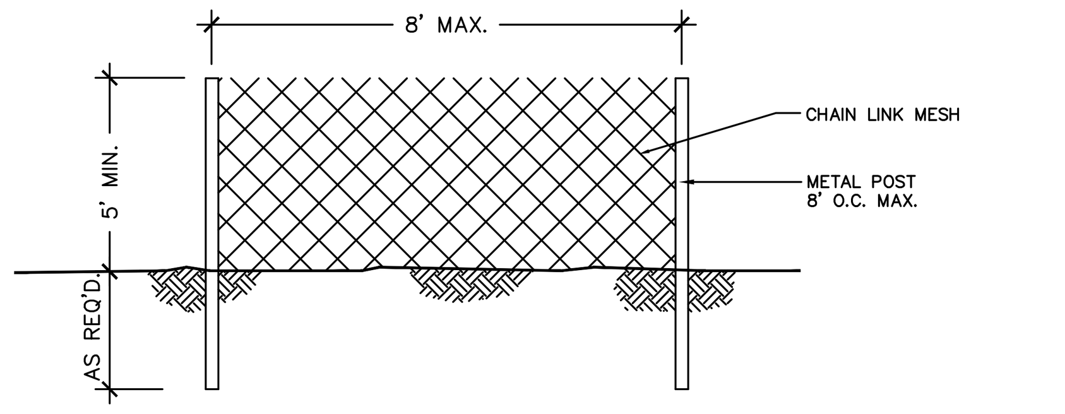
Revision:

DRAWING NO.
LP-101

ORIGINAL SHEET - ARCH D

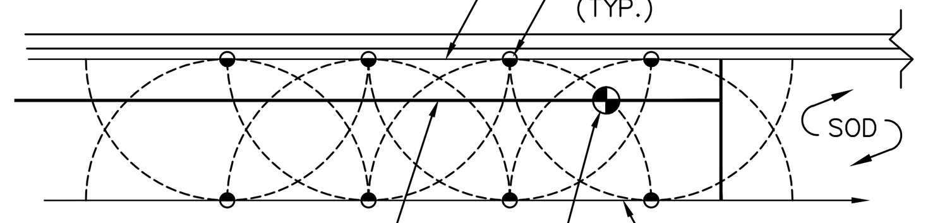
1 2 3 4 5

D



NOTE: BARRICADES TO BE INSTALLED AT THE DRIP-LINE OF ANY TREE TO REMAIN WITHIN THE AREA OF DEVELOPMENT OR AS DELINEATED ON THE FINAL SITE PLAN.

Typical Tree Barricade Detail
1 SCALE: NTS



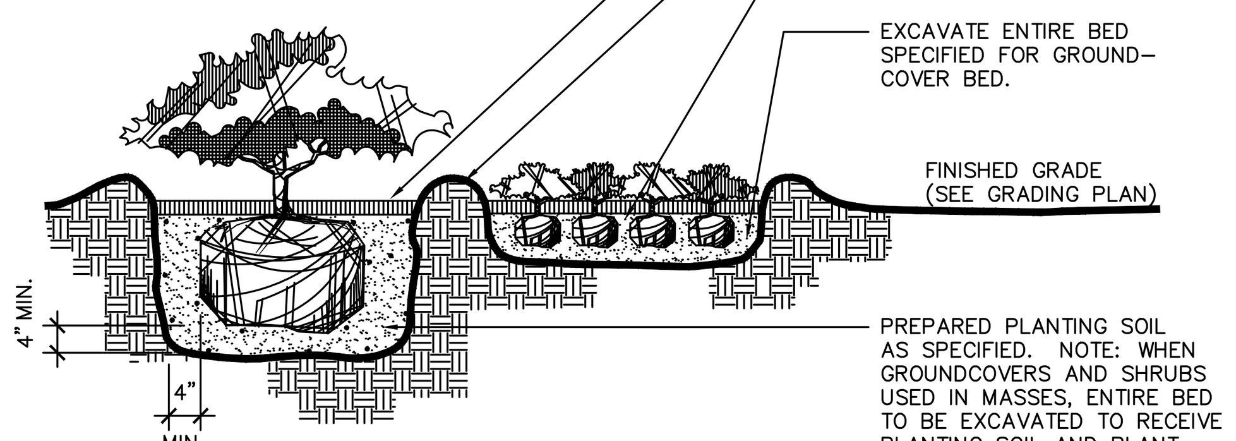
IRRIGATION SOURCE: REUSE MAIN
IF NO REUSE MAIN IS AVAILABLE, A WELL AND/OR STORM WATER POND SHALL BE UTILIZED

Typical Irrigation Plan Detail
2 SCALE: NTS

C

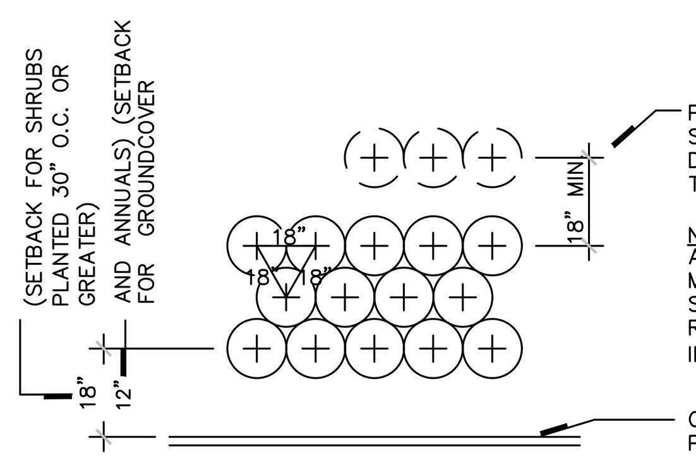
NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS/BEDS PRIOR TO INSTALLATION.

NOTE: PLANT MATERIAL SHALL BE PLANTED 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOT BALL.



Shrub and Groundcover Planting Detail
3 SCALE: NTS

B

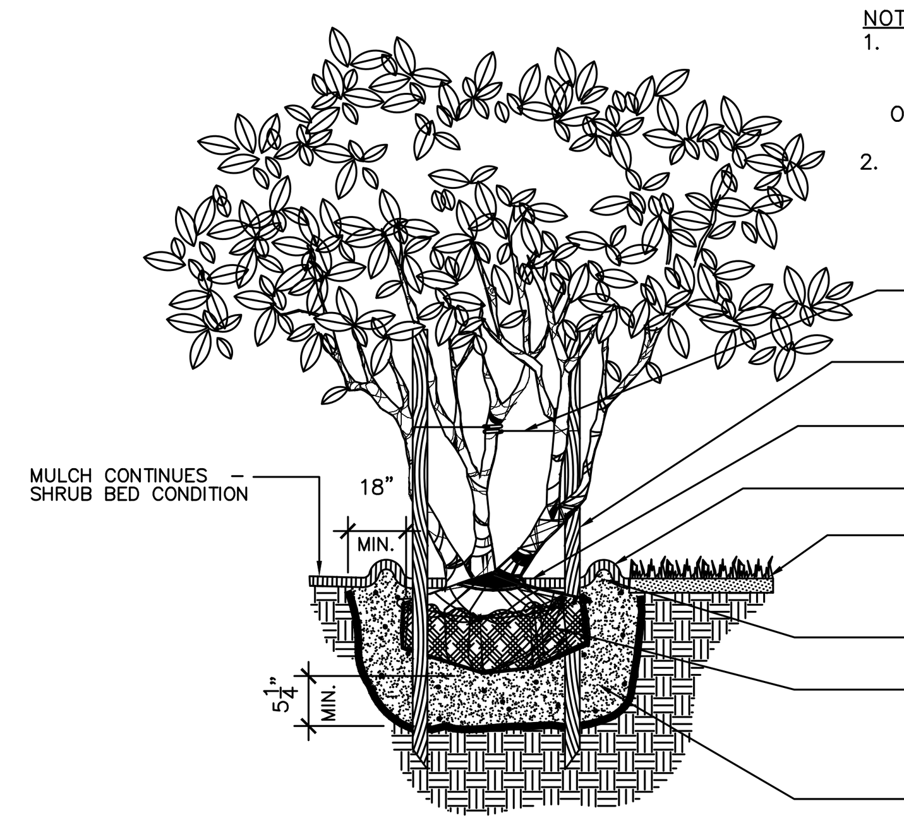


NOTE: ALL SHRUBS AND GROUNDCOVER MASSES TO USE TRIANGULAR SPACING EXCEPT WHERE NOTED REFER TO PLANT LIST FOR INDIVIDUAL PLANT SPACING 'X'.

Groundcover Spacing Plan Detail
4 SCALE: NTS

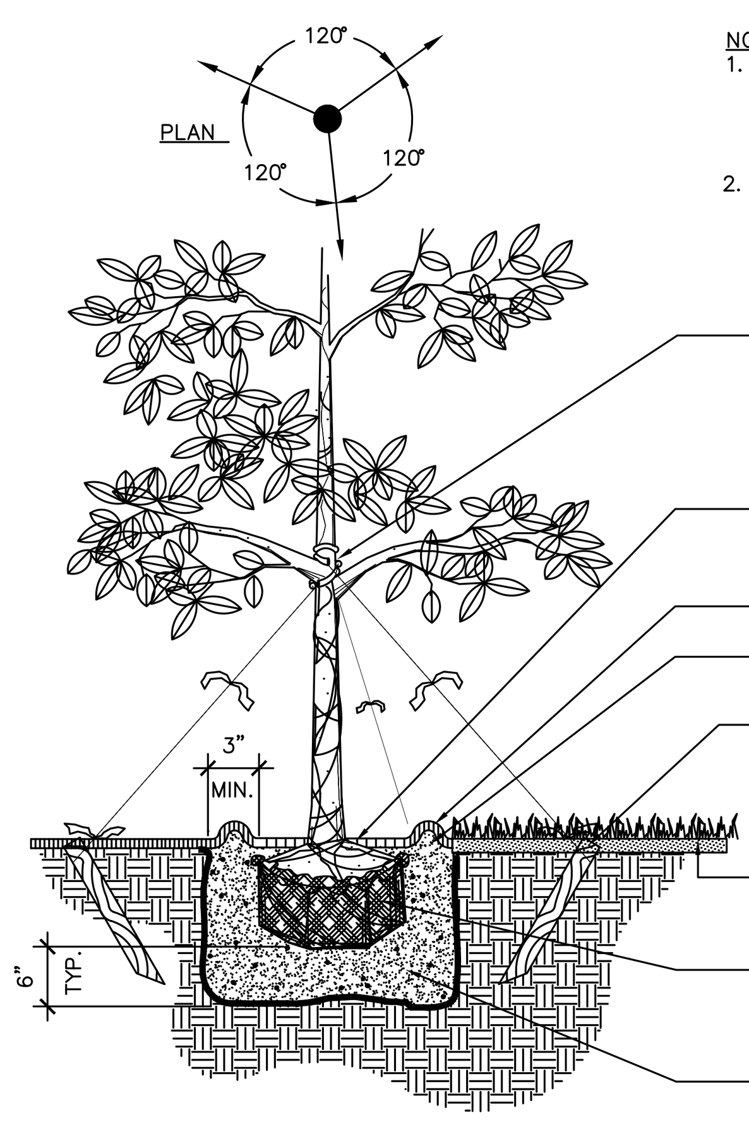
A

NOTE:
1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE OWNER OR REPRESENTATIVE.
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



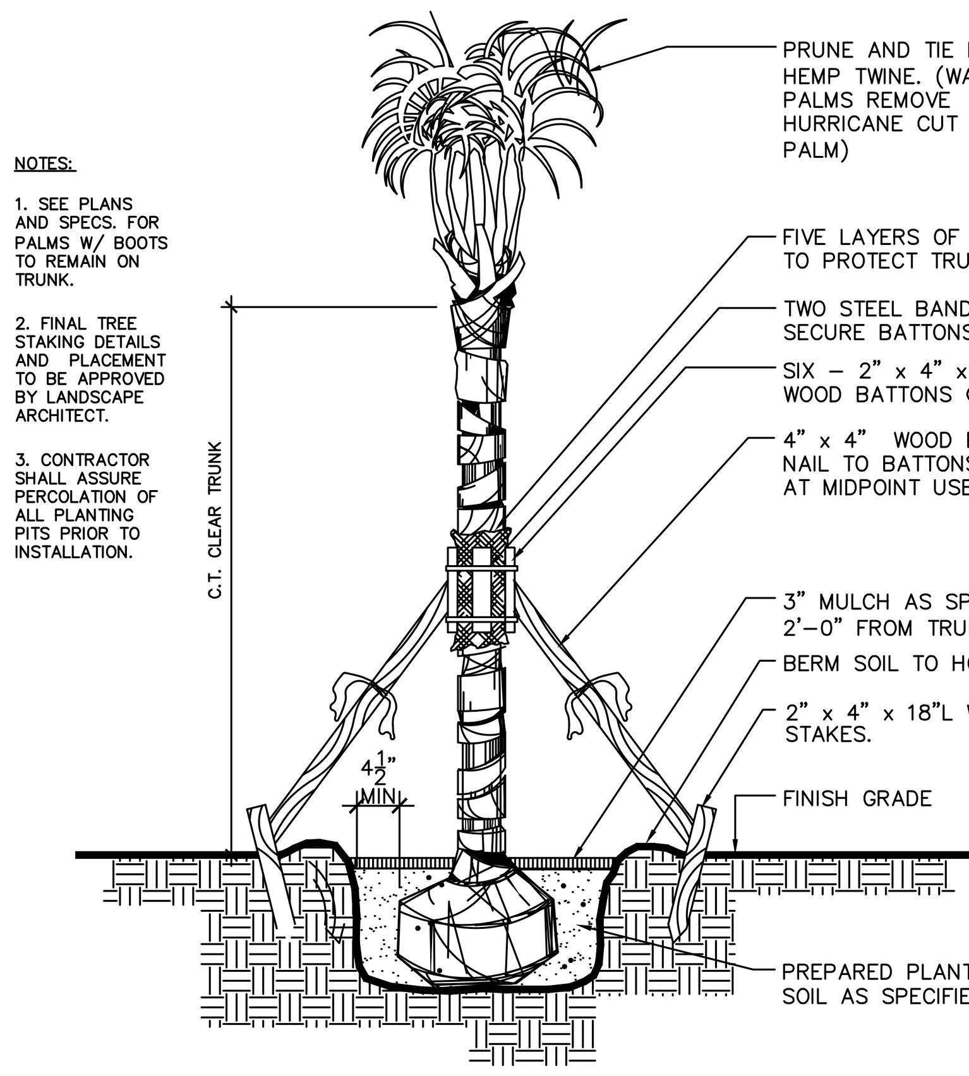
Multi-Trunk Tree
5 SCALE: NTS

NOTE:
1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE OWNER OR REPRESENTATIVE.
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



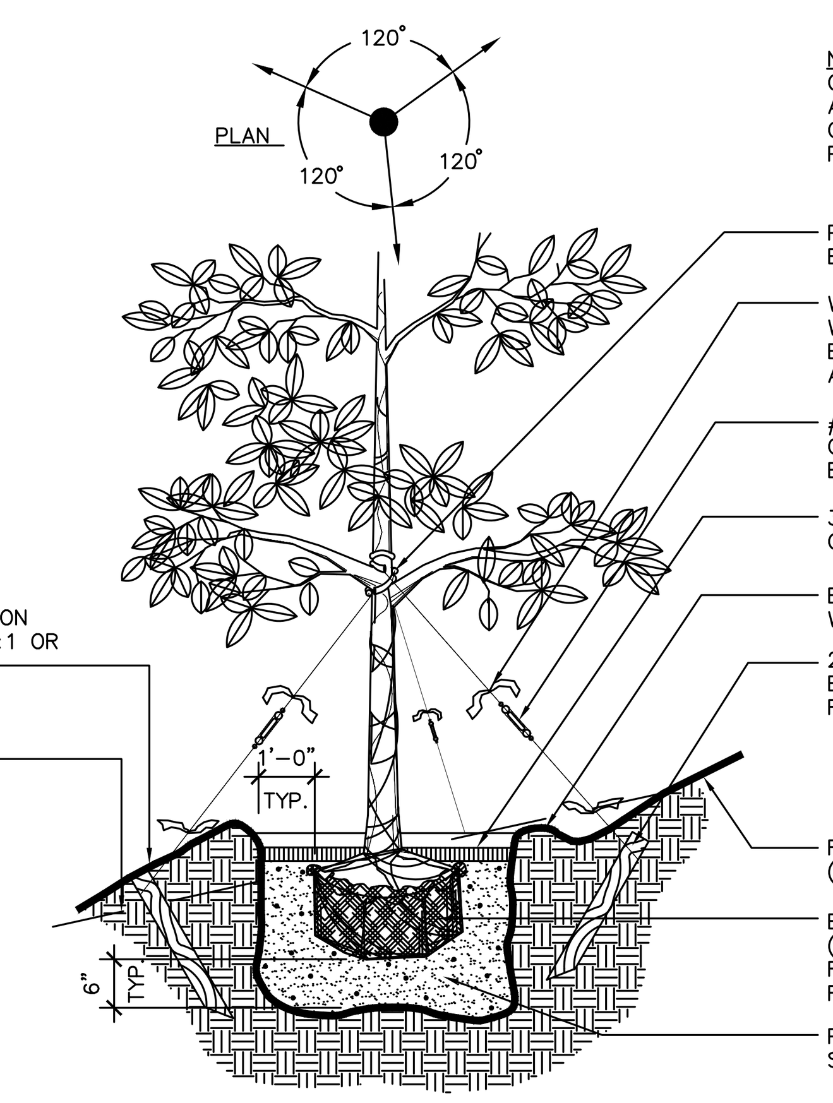
Canopy Tree Planting Detail
6 SCALE: NTS

NOTES:
1. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.
2. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



Palm
7 SCALE: NTS

NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



Canopy Tree on Slope Planting Detail
8 SCALE: NTS

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Stantec
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Sarasota, Florida, 34240-8414
Tel: 941-907-6910
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CHRISTOPHER H. SUTTON, RLA
FL LICENSE NO. LA6667123

Client/Project
MANATEE COUNTY SHERIFFS OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD
MANATEE COUNTY, FLORIDA

Project No.: 215618385
File Name: 215618385-01L-LP501

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

LANDSCAPE DETAILS

Revision:

DRAWING NO.
LP-501

LANDSCAPE NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION PRIOR TO INITIATING PLANTING INSTALLATION.
2. CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES. PLANS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING THESE DOCUMENTS.
3. THE CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGINNING INSTALLATION. ALL EXISTING SITE IMPROVEMENTS, PAVING, LANDSCAPE, LIGHTING, AND OTHER SITE ELEMENTS TO REMAIN SHALL BE PROTECTED FROM DAMAGE UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE NOTED, THE LIMITS OF CONSTRUCTION ARE THE CLEARING LIMITS NOTED ON THE PLANS.
5. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER TO NOT IMPEDE THE PROGRESS OF WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL EXISTING GROUND COVERS FOR ALL NEW PLANTING BEDS BY APPROVED MEANS PRIOR TO PLANTING INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL PORTIONS OF EXISTING PLANTING OR LAWN AREAS INDICATED TO REMAIN WHILE COMPLETING NEW PLANTING INSTALLATION WORK WITH SAME KIND OF PLANTS OR GRASS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
8. THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH SOIL TESTING AND SOIL AMENDMENTS AS REQUIRED AS A RESULT OF THE SOIL TESTING LABORATORY'S RECOMMENDATIONS. PRIOR TO INITIATING INSTALLATION THE CONTRACTOR SHALL PROVIDE SOIL TEST FOR AT LEAST TWO ON-SITE LOCATIONS.
9. ALL PLANT CONTAINER SIZES NOTED ON THE PLANT LIST/MATERIAL SCHEDULE ARE MINIMUM. INCREASE SIZE OF CONTAINERS IF NECESSARY TO CONFORM TO THE PLANT SIZE AND SPECIFICATIONS.
10. EROSION CONTROL FABRIC SHALL BE INSTALLED IN ALL SHRUB AND GROUND COVER PLANTING AREAS AS PER THE DETAILS AND/OR SPECIFICATIONS FOR ALL SLOPES THAT ARE GREATER THAN 3:1 (SLOPES 1' VERTICAL FOR EVERY 3' HORIZONTAL). SEE CIVIL ENGINEERING PLANS FOR LOCATIONS WHERE SLOPES ARE GREATER THAN 3:1.
11. SHRUB AND GROUND COVER PLANTINGS ARE TYPICALLY SHOWN ON THE PLANS IN MASS PLANTING BEDS. PLANTS SHALL BE SET IN A TRIANGULAR SPACING PATTERN (STAGGERED SPACING). PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE INDICATED IN THE PLANT LIST.
12. LANDSCAPE CONTRACTOR SHALL FIELD ADJUST THE LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING TREES AND UNDERSTORY VEGETATION TO REMAIN, UNDERGROUND AND ABOVE GROUND UTILITIES AND ALL OTHER ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INITIATING ANY CHANGES.
13. WHEN NECESSARY, PLANTING WITHIN THE DRIPLINE/CANOPY OF EXISTING TREES SHOULD BE DONE IN THE MOST SENSITIVE MANNER POSSIBLE IN ORDER TO AVOID ROOT DAMAGE. ALL NEW PLANTINGS WITHIN THE DRIPLINE/CANOPY SHOULD BE HAND-DUG AND FIELD ADJUSTED TO AVOID ROOTS AS NECESSARY.
14. ANY SUBSTITUTIONS TO PLANT MATERIAL SIZE OR TYPE MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. LANDSCAPE CONTRACTOR SHALL NOT MAKE ANY SUBSTITUTIONS OR ALTERATIONS TO THE LANDSCAPE PLANTING PLANS OR PLANT LIST & MATERIALS WITHOUT THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. ANY LANDSCAPE PLANTING INSTALLED THAT DOES NOT CONFORM TO THE PLANS, PLANT LIST AND SPECIFICATIONS SHALL BE REPLACED IMMEDIATELY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AS REQUIRED TO MAINTAIN AND ESTABLISH ALL PLANTING (NEW, EXISTING TO BE RELOCATED, AND EXISTING PLANTINGS TO REMAIN WHILE IRRIGATION SYSTEM IS BEING INSTALLED OR REPAIRED) TO SUPPLEMENT IRRIGATION AND RAINFALL. THE IRRIGATION SYSTEM IS DESIGNED TO MAINTAIN THE LANDSCAPE PLANTINGS AND NOT ESTABLISH THEM. THE CONTRACTOR IS RESPONSIBLE FOR WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION SYSTEMS.
16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, IN FULL, ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, AND WEEDING, ETC.) UNTIL THE JOB IS ACCEPTED.
17. CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. CORRECT IF REQUIRED TO ASSURE PERCOLATION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS LOST DUE TO INADEQUATE DRAINAGE CONDITIONS.
18. CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. LANDSCAPE RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OR RECYCLED OFF-SITE DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT STORED ON-SITE SHALL BE KEPT IN AN ORGANIZED MANNER DAILY.
19. CONTRACTOR SHALL RE-GRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR FROM INSTALLATION WORK. THE CONTRACTOR SHALL REPLACE BY EQUAL SIZE AND QUALITY ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANTING REMOVAL, RELOCATION, AND/OR INSTALLATION.
20. EXISTING TREES OR OTHER PLANT MATERIAL INDICATED ON THE PLANS TO BE RELOCATED SHALL BE HANDLED, CARED FOR, AND MAINTAINED AS NEW PLANTINGS. THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED ROOT PRUNING, WRAPPING, TREE SPADING OR BALL AND BURLAPPING, ADDITIONAL SUPPLEMENTAL HAND WATERING, IRRIGATION MISTERS INSTALLED AT THE TREE CANOPY, OR ANY OTHER SOUND HORTICULTURAL PRACTICE REQUIRED TO ENSURE THE SURVIVAL OF ALL RELOCATED PLANT MATERIAL.
21. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, SPECIFICATIONS, PLANT LIST AND PLANS FOR FURTHER AND COMPLETE PLANTING INSTALLATION INSTRUCTIONS.
22. LANDSCAPE CONTRACTOR SHALL FULLY FAMILIARIZE HIMSELF / HERSELF WITH THE PROJECT PRIOR TO BIDDING THE WORK.
23. FOR SITE GRADING AND CONTOUR INFORMATION, EXISTING VEGETATION TO REMAIN, BUILDINGS AND OTHER SITE FEATURE LOCATIONS AND THE LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES SEE THE MOST CURRENT AND UP TO DATE ARCHITECTURAL, CIVIL, ELECTRICAL, STRUCTURAL AND MECHANICAL ENGINEERING DRAWINGS AS PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD LOCATE ALL UNDERGROUND UTILITIES, EXISTING VEGETATION TO REMAIN AND ANY OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO INITIATING ANY LANDSCAPE PLANTING OR IRRIGATION INSTALLATION WORK. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGE COMMITTED TO EXISTING OR PROPOSED ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVE.
24. LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL AND EDGES OF PLANTING BEDS FOR THE REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INITIATING ANY INSTALLATION OF THE LANDSCAPE PLANTINGS.
25. LANDSCAPE CONTRACTOR SHALL COORDINATE WORK WITH THE IRRIGATION CONTRACTOR AND ALL OTHER TRADES AS REQUIRED.
26. THE CONTRACTOR SHALL REQUEST INSPECTION OF THE PROJECT IN WRITING. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE THE WORK SUBSTANTIALLY COMPLETE. THE CONTRACTOR IS TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE (1) WEEK OF NOTICE.
27. GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACE OF THE TREE OR PALM. PLANT MATERIAL REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. REMOVAL OF ALL STAKING AND GUYING OF TREES AND PALMS AFTER FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE OWNER.
28. ALL PLANT MATERIAL SHALL BE FLORIDA NO.1 OR BETTER AT TIME OF INSTALLATION AND SHALL BE MAINTAINED IN THIS SAME CONDITION UNTIL FINAL ACCEPTANCE. THE CONTRACTOR GUARANTEES THE PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR FOLLOWING DATE OF SUBSTANTIAL COMPLETION.
29. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE TO FLORIDA NO.1 GRADE, ACCORDING TO THE *GRADES AND STANDARDS FOR NURSERY PLANTS*, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIAL IN SOME INSTANCES EXCEED NO.1 GRADE IN ORDER TO MEET THE MINIMUM REQUIREMENTS OF THIS PROJECT.

IRRIGATION NOTES

A. ALL PROPOSED LANDSCAPING TO IRRIGATED BY A 100% AUTOMATIC SYSTEM.

B. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING PLANT COMMUNITIES.

C. IRRIGATION SPRINKLER ZONES TO BE SEPARATE FOR HIGH AND LOW WATER REQUIREMENT PLANT AREAS AND OPERATED ON DIFFERENT WATERING SCHEDULES.

D. IRRIGATION OVERTHROW TO NON-PERVIOUS AND NATURAL AREAS TO MINIMIZED.

E. A RAIN SENSOR IS TO BE INSTALLED WITH THE IRRIGATION SYSTEM CONTROLLER.

F. IRRIGATION PIPINGTO BE LOCATED WITHIN PLANTING OR SOD AREAS WHEREVER FEASIBLE. PIPING UNDER ROADS TO BE INSTALLED WITHIN SCHEDULE 40 PVC SLEEVE.

G. ALL TREE, SHRUB, AND GROUNDCOVER AREAS ARE TO BE FULLY IRRIGATED WITH DRIP / MICRO IRRIGATION, LOW-VOLUME EMITTERS. ALL SOD AREAS TO BE IRRIGATED WITH ROTOR OR SPRAY HEAD SPRINKLERS SPACED TO PROVIDE 100% COVERAGE.

H. A "Y" TYPE FILTER SHALL BE INSTALLED AT THE HEAD END OF LOW VOLUME LINES AND IN-LINE PRESSURE REGULATORS TO REDUCE PRESSURE NO MORE THAN 15 PSI SHALL BE UTILIZED.

I. NON-POTABLE IRRIGATION LINES TO BE PURPLE IN COLOR.

J. WHEN NECESSARY, IRRIGATION INSTALLATION WITHIN THE DRIPLINE/CANOPY OF EXISTING TREES SHOULD BE DONE IN THE MOST SENSITIVE MANNER POSSIBLE IN ORDER TO AVOID ROOT DAMAGE. PROPOSED IRRIGATION WITHIN THE DRIPLINE/CANOPY SHOULD BE 'MICRO-SPRAY' LOCATED ABOVE EXISTING GRADE.

K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE COMPLETE DESIGN AND CONSTRUCTION OF AN IRRIGATION SYSTEM FOR THE PROJECT, INCLUDING ALL PIPING, VALVES, HEADS, SLEEVES, AND WIRING. THE CONTRACTOR SHALL ALSO PERMIT AND PROVIDE AN IRRIGATION WELL AND CONTROLLER SYSTEM INCLUDING ALL NECESSARY POWER. THE SYSTEM SHALL BE DESIGNED TO SUPPLY SUFFICIENT IRRIGATION TO ALL PLANTING AREAS ACROSS THE ENTIRE SITE TO SUPPORT THE GROWTH AND MAINTENANCE OF THE LANDSCAPING. THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT, AS SHOP-DRAWING, THE DETAILED LAYOUT OF THE SYSTEM FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.

TREE PROTECTION NOTES

A. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.

B. PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (I.E., HAY BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.

C. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

D. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.

E. INSTALL TREE BARRICADES TO THE FULLEST EXTENT OF THE DRIPLINE OF ALL TREES/PALMS AS POSSIBLE AND/OR TO THE MAXIMUM LIMIT OF IMPROVEMENT(S) AS POSSIBLE (OF COURSE REALIZING THAT THE TREE BARRICADES MAY HAVE TO BE "BACKED OFF" THE IMPROVEMENT(S) BY 1' TO 2' MAXIMUM TO INSTALL THE IMPROVEMENT(S). DO NOT INSTALL TREE BARRICADES (SPECIFICALLY SILT FENCING MATERIAL) BY TRENCHING WITHIN THE DRIPLINE OF EXISTING TREES/PALMS.

F. LAND ALTERATION AND CONSTRUCTION ACTIVITIES SHALL BE APPROVED WITHIN THE DRIPLINE OF A TREE TO BE RETAINED ON THE SITE PROVIDED DESIGN TECHNIQUES ARE USED THAT MINIMIZE DAMAGE TO THE ROOT SYSTEM OF THE TREE (E.G., RETAINING WALLS, TREE WELLS, ROOT AERATION DEVICES, PERVIOUS PAVERS, PERVIOUS CONCRETE, GREEN SPACE, AS APPROPRIATE). WHERE IT IS NOT PRACTICAL FOR UNDERGROUND UTILITY LINES TO BE ROUTED AROUND THE DRIPLINE, TUNNELING SHALL BE EMPLOYED TO ROUTE THE LINES THROUGH THIS AREA.

G. PRUNING OF A GRAND OAK, WITH THE EXCEPTION OF MINOR PRUNING, IS PROHIBITED UNLESS CONDUCTED IN ACCORDANCE WITH THE ANSI A-300 PRUNING STANDARDS, AND PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR A REGISTERED CONSULTING ARBORIST WITH THE AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA). MINOR PRUNING IS THE PRUNING OF A TREE BY THE REMOVAL OF BRANCHES NO GREATER THAN THREE (3) INCHES IN DIAMETER AT THE POINT OF CONNECTION TO A SUPPORTING BRANCH AND SHALL BE IN ACCORDANCE WITH THE ANSI A-300 PRUNING STANDARDS. A NOTARIZED AFFIDAVIT AFFIRMING AN ISA CERTIFIED ARBORIST OR AN ASCA REGISTERED CONSULTING ARBORIST WILL CONDUCT OR PROVIDE ONSITE SUPERVISION OF THE PRUNING SHALL BE SUBMITTED TO THE COUNTY PRIOR TO THE PRUNING OF A GRAND OAK. AN ISA CERTIFIED ARBORIST OR AN ASCA REGISTERED CONSULTING ARBORIST CONTRACTED BY A PROPERTY OWNER TO PRUNE A GRAND OAK SHALL ASSUME FULL RESPONSIBILITY FOR ALL PRUNING ACTIVITIES DETERMINED IN NONCOMPLIANCE WITH STANDARDS SPECIFIED WITHIN THE LAND DEVELOPMENT CODE.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CAL	SIZE		QTY	REMARKS
TREES								
	BNA	Betula nigra `BNMTF` TM Native	Dura Heat River Birch	.	12`-14` Ht. x 5`-6` Spr., Triple		3	Native
	PEL	Pinus elliotti Native	Slash Pine	2.5" Cal.	10`-12` Ht. x 4`-5` Spr.		16	Native
	PLO	Platanus occidentalis Native	American Sycamore	2.5" Cal.	10`-12` Ht. x 4`-5` Spr.		5	Native
PALMS								
	LNX	Livistona nitida Florida Friendly	Carnavon Palm	N/A	12` CT Ht., Matched, Single Straight Trunk, Diamond Cut		3	Florida Friendly
	SPX	Sabal palmetto Native	Cabbage Palmetto	N/A	12`, 15`, 18` CT Mix, Booted, Stagger Hts.		27	Native
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE		QTY	REMARKS
SHRUBS								
	POD	Podocarpus macrophyllus Florida Friendly	Podocarpus	3 Gal.	24" Ht. x 18" Spr., Full		228	Florida Friendly
	SER	Serenoa repens Native	Green Saw Palmetto	25 Gal.	36" Ht. x 36" Spr., Full		12	Native
	VIB	Viburnum odoritissimum Florida Friendly	Sweet Viburnum	3 Gal.	18"-24" Ht. x 18" Spr, Full		50	Florida Friendly
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	QTY	REMARKS
SHRUBS / GROUNDCOVERS								
	CAM	Carissa macrocarpa `Emerald Blanket` Florida Friendly	Emerald Blanket Natal Plum	3 Gal.	12" Ht. x 12" Spr., Full	24" o.c.	809	Florida Friendly
	DII	Dietes iridioides Florida Friendly	African Iris	3 Gal.	10"-14" Ht., Full	24" o.c.	301	Florida Friendly
	SPB	Spartina bakeri Native	Sand Cordgrass	3 Gal.	18"-24" Ht., Full	30" o.c.	589	Native
	TRA	Trachelospermum jasminoides `Variegatum` Florida Friendly	Variegated Confederate Jasmine	3 Gal.	12" Ht. x 12" Spr., Full	24" o.c.	554	Florida Friendly
	TRD	Tripsacum dactyloides Native	Fakahatchee Grass	3 Gal.	18"-24" Ht., Full	30" o.c.	111	Native
	VIO	Viburnum obovatum `Mrs. Schillers Delight` Native	Mrs. Schillers Delight Walter`s Viburnum	3 Gal.	14"-16" Ht. x 14"-16" Spr., Full	30" o.c.	120	Native
SOD / MULCH / OTHER								
	MULCH	Pine Bark Nuggets Contractor to Verify Quantity (CY)		1"-1.5" Size	3" Depth, All Areas Unless Otherwise Noted			Contractor to Verify Quantity (CY)
	SOD A	Cynodon dactylon `Celebration`	Celebration Bermuda Grass	Solid Sod				
	SOD B	Paspalum notatum	Bahia Grass	Solid Sod				

PLANT LISTS ARE FOR REVIEW AND APPROVAL PURPOSES ONLY. LANDSCAPE ARCHITECT TO PROVIDE FINAL PLAN TO CLIENT FOR BIDDING AND CONSTRUCTION PURPOSES UPON APPROVAL.

PLANT MATERIALS SHOWN ARE TO DEMONSTRATE INTENT TO COMPLY WITH LAND DEVELOPMENT CODE ONLY. THESE LANDSCAPE PLANS ARE NOT FOR CONSTRUCTION. ALL BUFFERS PROVIDED WILL MEET OR EXCEED COUNTY REQUIREMENTS; APPLICANT RESERVES THE RIGHT TO SUBSTITUTE SPECIES SHOWN FOR OTHERS THAT MEET CODE REQUIREMENTS DURING CONSTRUCTION.

MANATEE COUNTY PLANT SPECIES NOTES

A MAXIMUM OF FORTY (40) PERCENT OF ALL REQUIRED TREES MAY BE PALM TREES. WHEN PALM TREES ARE UTILIZED AS CANOPY TREES, A MINIMUM OF TWO (2) PALMS MUST BE GROUPED TO SERVE AS A CANOPY TREE. EACH PALM TREE GROUP WILL COUNT AS ONE (1) CANOPY TREE (LDC SECTION 701.8.A.17).

A MINIMUM OF THIRTY (30) PERCENT OF ALL PLANTS SHALL BE NATIVE SPECIES. PLEASE ADD A COLUMN ON THE PLANT MATERIALS LIST INDICATING WHICH SPECIES ARE NATIVE (LDC SECTION 701.8.A.4).

MANATEE COUNTY UTILITY NOTES:

A. THERE SHALL BE 3’ MINIMUM CLEARANCE FROM LANDSCAPE PLANTS AND THE EDGE OF THE METER SLAB FOR METERS LESS THAN 3” AND 6’ FOR METERS LARGER THAN 3”, AND FOR FIRE LINE BACKFLOW PREVENTION ASSEMBLIES.

B. THERE SHALL BE 10’ MINIMUM CLEARANCE BETWEEN TREES AND METER ASSEMBLIES, METER ASSEMBLY SLABS, AND FIRE LINE BACKFLOW PREVENTION ASSEMBLIES.

C. THERE MUST BE A CLEARANCE OF 7.5’ MINIMUM FROM THE FRONT AND BOTH SIDES, AND 4’ TO THE REAR OF ALL FIRE HYDRANTS AND ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC.

D. STREET SIDE OF METER ASSEMBLIES AND FIRE LINE BACKFLOW PREVENTION ASSEMBLIES SHALL REMAIN OPEN AND FREE OF LANDSCAPING.

E. TREES SHALL NOT BE PLANTED OR LOCATED WITHIN 10 FEET OF ANY POTABLE WATER MAIN, RECLAIMED WATER MAIN, SANITARY FORCE MAIN, GRAVITY SANITARY SEWER MAIN, SANITARY CLEANOUTS, OR POTABLE/RECLAIMED/FORCE MAIN APPURTENANCES SUCH AS METERS, HYDRANTS, BACKFLOW PREVENTION ASSEMBLIES, ETC. THAT ARE OWNED AND MAINTAINED BY MANATEE COUNTY. AN APPROVED ROOT BARRIER SHALL BE USED WHERE TREES ARE PLANTED CLOSER THAN 10 FEET.

MANATEE COUNTY ENVIRONMENTAL NOTE:

THE CONTINUED REMOVAL OF NUISANCE, EXOTIC PLANT SPECIES THAT BECOME REESTABLISHED SHALL BE ACCOMPLISHED PER SECTION 701.4 (715.4) OF THE LDC.

Stantec
6320 Proffesional Parkway East
Sarasota, Florida, 34240-8414
Tel: 941-907-6910
www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
90% Permit Set	CHS	CHS	2024.02.07

Permit/Seal

CHRISTOPHER H. SUTTON, RLA
FL LICENSE NO. LA6667123

Client/Project
MANATEE COUNTY SHERIFFS OFFICE
AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

MANATEE COUNTY, FLORIDA

Project No.: 215618385
File Name: 215618385-01L-LP601

Scale:

CHS	CHS	SAB	2024.01.31
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

LANDSCAPE NOTES

Revision:
DRAWING NO.
LP-601

AB	- ANCHOR BOLT
A/C	- AIR CONDITIONING
ACOUS	- ACOUSTICAL
ADA	- AMERICAN DISABILITY ACT
ADJ	- ADJUSTABLE
AFF	- ABOVE FINISH FLOOR
AHU	- AIR HANDLER UNIT
ALT	- ALTERNATE
ALUM	- ALUMINUM
ANOD	- ANODIZED
APPROX	- APPROXIMATE
ARCH	- ARCHITECTURAL
ACT	- ACOUSTICAL CEILING TILE
AUTO	- AUTOMATIC
AV	- AUDIO VISUAL
B	- BASE
BD	- BOARD
BLDG	- BUILDING
BRG	- BEARING
BRK	- BRICK
BTM	- BOTTOM
CAB	- CABINET
CAT	- CATEGORY
CER	- CERAMIC
CHAN	- CHANNEL
CI	- CAST IRON
CIP	- CAST IN PLACE
CJ	- CONTROL JOINT
CLG	- CEILING
CLO	- CLOSET
CLR	- CLEAR
CMU	- CONCRETE MASONRY UNIT
CO	- CLEAN-OUT
COL	- COLUMN
CONC	- CONCRETE
COND	- CONDENSER OR CONDITION
CONST	- CONSTRUCTION
CONT	- CONTINUOUS
COORD	- COORDINATE
CPT	- CARPET
CUST	- CUSTODIAL
CW	- COLD WATER
D	- DEEP, DEPTH
DBL	- DOUBLE
DEMO	- DEMOLITION
DEPT	- DEPARTMENT
DET	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DISP	- DISPENSER
DN	- DOWN
DR	- DOOR OR DRAIN
DS	- DOWNSPOUT
DW	- DISHWASHER
DWG	- DRAWING
E	- EAST
EA	- EACH
EB	- EXPANSION BOLT
EIFS	- EXTERIOR INSULATION FINISH SYSTEM
EJ	- EXPANSION JOINT
ELEC	- ELECTRICAL
ELEV	- ELEVATION OR ELEVATOR
EMERG	- EMERGENCY
ENCL	- ENCLOSURE
EQ	- EQUAL
EQUIP	- EQUIPMENT
EW	- EACH WAY
EWC	- ELECTRICAL WATER COOLER
EXIST	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FA	- FIRE ALARM
FAAP	- FIRE ALARM ANNUNCIATOR PANEL
FACP	- FIRE ALARM CONTROL PANEL
FD	- FLOOR DRAIN
FDC	- FIRE DEPARTMENT CONNECTION
FE	- FIRE EXTINGUISHER
FEC	- FIRE EXTINGUISHER CABINET
FF	- FINISHED FLOOR
FF & E	- FURNITURE, FINISHES & EQUIPMENT
FG	- FIBERGLASS
FIN	- FINISH
FIXT	- FIXTURE
FJ	- FINGER JOINT
FLR	- FLOOR
FLUOR	- FLUORESCENT
FT	- FOOT / FEET
FTG	- FOOTING
FURN	- FURNITURE
GA	- GAUGE
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
GL	- GLASS
GRD	- GROUND
GYP.BD.	- GYPSUM WALLBOARD
H	- HIGH OR HEIGHT
HB	- HOSE BIBB
HC	- HOLLOW CORE
HDW	- HARDWARE
HM	- HOLLOW METAL (STEEL FRAME)
HO	- HOLD-OPEN
HORIZ	- HORIZONTAL
HR	- HOUR
HVAC	- HEATING, VENTILATION, AIR CONDITIONING
HW	- HOT WATER
IN	- INCH
INCL	- INCLUDED OR INCLUDING
INFO	- INFORMATION
INSUL	- INSULATION
INT	- INTERIOR
INV	- INVERT
JAN	- JANITOR
JT	- JOINT
K	- KIP (1000 LBS)
KO	- KNOCKOUT
L	- LONG
LAB	- LABORATORY
LAM	- LAMINATE OR LAMINATION
LAV	- LAVATORY
LB	- POUND
LF	- LINEAR FOOT
M	- METER
MAINT	- MAINTENANCE
MAS	- MASONRY
MATL	- MATERIAL
MAX	- MAXIMUM
MC	- MEDICINE CABINET
MDF	- MEDIUM DENSITY FIBERBOARD
MDO	- MEDIUM DENSITY OVERLAY PLYWOOD
MECH	- MECHANICAL
MEZZ	- MEZZANINE
MF	- MISC. FLOORING
MFR	- MANUFACTURER
MICRO	- MICROWAVE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
MKBD	- MARKERBOARD
MM	- MILLIMETER
MNT	- MOUNT
MO	- MASONRY OPENING
MR	- MOISTURE RESISTANT
MTL	- METAL
MUL	- MULLION
N	- NORTH
N/A	- NOT APPLICABLE
NIC	- NOT IN CONTRACT
NOM	- NOMINAL
NTS	- NOT TO SCALE
NO	- NUMBER
OC	- ON CENTER
OD	- OUTSIDE DIAMETER/DIMENSION
OFCI	- OWNER FURNISHED/CONTRACTOR INSTALLED
OFF	- OFFICE
OTS	- OPEN TO STRUCTURE
OPNG	- OPENING
OPP	- OPPOSITE
OVHD	- OVERHEAD
P	- PAINT
PC	- PRECAST CONCRETE
PERP	- PERPENDICULAR
PH	- PHONE
PL	- PLASTIC LAMINATE
PLF	- POUNDS PER LINEAR FOOT
PLUMB	- PLUMBING
PLYWD	- PLYWOOD
PR	- PAIR
PREFAB	- PREFABRICATED
PROJ	- PROJECT
PSF	- POUNDS PER SQUARE FOOT
PT	- PRESSURE TREATED
QTY	- QUANTITY
R	- RISER OR RADIUS
RA	- RETURN AIR
RCP	- REFLECTED CEILING PLAN
RD	- ROOF DRAIN
REBAR	- REINFORCING STEEL BAR
REF	- REFRIGERATOR
REINF	- REINFORCED OR REINFORCING
REQ'D	- REQUIRED
REV	- REVISION OR REVISED
RF	- RUBBER FLOORING
RM	- ROOM
RO	- ROUGH OPENING
RR	- RESTROOM
RS	- ROUGH SAW
RWL	- RAIN WATER LEADER
S	- SOUTH
SAN	- SANITARY
SC	- SOLID CORE
SCHED	- SCHEDULE
SD	- STORM DRAIN OR SOAP DISPENSER
SECT	- SECTION
SF	- SQUARE FEET / FOOT
SHR	- SHOWER
SHT	- SHEET
SIM	- SIMILAR
SM	- SOLID SURFACE MATERIAL
SP	- SPECIALTY
SPEC	- SPECIFICATION
SPKLR	- SPRINKLER
SPKR	- SPEAKER
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STL	- STEEL
STOR	- STORAGE
STRUCT	- STRUCTURAL
SUSP	- SUSPENDED
T	- TREAD OR THICKNESS
TEMP	- TEMPERED
THRU	- THROUGH
TKBD	- TACKBOARD
TM	- TRIMS & MILLWORK
TR	- FLOOR TRANSITION
TS	- TUBE STEEL
TV	- TELEVISION
TYP	- TYPICAL
T&G	- TONGUE & GROOVE
UNO	- UNLESS NOTED OTHERWISE
UL	- UNDERWRITER'S LABORATORY
UR	- URINAL
VF	- VINYL FLOORING
VERT	- VERTICAL
VIF	- VERIFY IN FIELD
W	- WIDE OR WIDTH
W/	- WITH
WC	- WATER CLOSET
WD	- WOOD
WDF	- WOOD FLOORING
WF	- WALL FINISH
WH	- WATER HEATER
WIN	- WINDOW TREATMENT
W/O	- WITHOUT
WP	- WATERPROOFING
WT	- WEIGHT
WWM	- WELDED WIRE MESH
&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
⊏	CHANNEL
°	DEGREE
∅	DIAMETER OR ROUND
#	NUMBER
P	PLATE
⌖	SQUARE FOOT (FEET)
⊥	STRUCTURAL TEE

ARCH/INTERIOR ABBREVIATIONS | 4

A. GENERAL NOTES:

1. PROVIDE COMPLETE PROJECT SYSTEMS AND COMPONENTS INDICATED ON THE PROJECT DOCUMENTS.
2. THE CONTRACTOR SHALL WORK WITHIN THE AREA BOUNDARIES INDICATED IN THE PROJECT DOCUMENTS, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODE, REGULATION, & ORDINANCE REQUIREMENTS. OCCUPANTS ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS AND COORDINATION WITH THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE WORK WITH ALL REQUIREMENTS INDICATED IN THE PROJECT DOCUMENTS.
5. THE CONTRACTOR SHALL PERFORM THE WORK AT THE PROJECT SITE DURING NORMAL BUSINESS HOURS, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS, AND SYSTEMS PROVIDED BY THE OWNER.

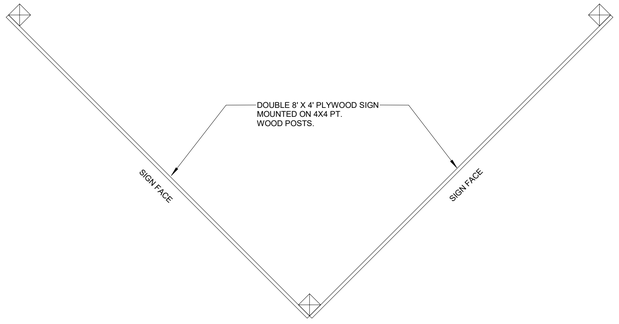
B. DEFINITIONS:

1. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEM FOR THE CONDITION NOTED.
2. "SIMILAR" OR "SIM" INDICATES COMPLETE SYSTEM AND COMPONENTS COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
3. "AS REQUIRED" OR "REQ'D" INDICATES CONTRACTOR SHALL PROVIDE COMPONENTS REQUIRED TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS.
4. "ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION ADJACENT MATERIALS.

C. DIMENSIONS:

1. DIMENSIONS ARE INDICATED TO THE CENTERLINE OF THE STRUCTURAL GRID, FACE OF UNFINISHED CONCRETE WALL, NOMINAL FACE OF C.M.U. WALL OR FACE OF UNFINISHED PARTITION AS SCHEDULED, UNLESS OTHERWISE NOTED.
2. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB. ANY DISCREPANCY IN DIMENSIONS BETWEEN PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.
4. FLOOR ELEVATIONS ARE INDICATED AT THE FACE OF THE STRUCTURAL SLAB, UNLESS OTHERWISE NOTED.
5. CEILING HEIGHTS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF FINISH MATERIAL, UNLESS OTHERWISE NOTED.
6. DOOR JAMBS IN STUD WALLS SHALL BE LOCATED 4 INCHES FROM ADJACENT WALLS UNLESS OTHERWISE NOTED. DOOR JAMBS IN CMU WALLS SHALL BE LOCATED 8 INCHES FROM ADJACENT WALLS UNLESS OTHERWISE NOTED.

GENERAL NOTES | 8



DOUBLE 4' X 8' JOB SIGN TO BE FURNISHED BY THE ARCHITECT WITH APPROPRIATE LOGO AND INFORMATION AT TIME OF ACCEPTANCE. ARCHITECT TO COORDINATE SIGN DESIGN, SIZE OF LETTERING AND LOCATION OF SIGN WITH CONTRACTOR"

ALTERNATE: SINGLE 4' X 8' JOB SIGN (SIGN FACE ON STREET SIDE OF SIGN) TO BE PROVIDED AS NOTED ABOVE.

CONTRACTOR TO INCORPORATE ARCHITECT LOGO INTO JOB SIGN IF NO DEDICATED ARCHITECT SIGN PROVIDED.

FAWLEY BRYANT ARCHITECTURE | SMART BEAUTIFUL SPACES

FAWLEY-BRYANT.COM 941.343.4070 FL Lic. AA 0002506

SIGNAGE | 3

A. THE DRAWINGS IN THIS SET ARE ORGANIZED AS FOLLOWS:
EACH DRAWING IS IDENTIFIED BY THE SHEET NUMBER IN THE LOWER RIGHT HAND CORNER OF THE TITLEBLOCK.
EXAMPLE: A3.1.2

1. DISCIPLINE: THE FIRST LETTER INDICATES THE DISCIPLINE THAT CREATED THE DRAWING (I.E. A = ARCHITECTURAL).

2. DETAIL IDENTIFICATION: THE LETTER OR NUMBER AT THE END OF A DETAIL REFERENCE SYMBOL A1/A3.1.2 INDICATES REFERENCE TO A SPECIFIC DRAWING OR DETAIL POSITION ON THE SHEET.

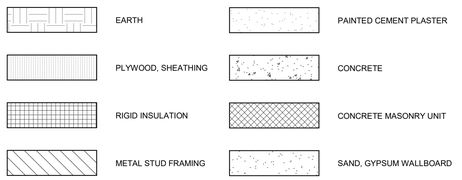
B. DISCIPLINES ARE ORGANIZED IN THE FOLLOWING MANNER (AS REQUIRED):

C.	CIVIL
L.	LANDSCAPE
IR.	IRRIGATION
A.	ARCHITECTURAL
I.	INTERIOR DESIGN
S.	STRUCTURAL
FS.	FOOD SERVICE
M.	MECHANICAL / HVAC
P.	PLUMBING
F.	FIRE PROTECTION
E.	ELECTRICAL
T.	TECHNOLOGY / DATA DISTRIBUTION

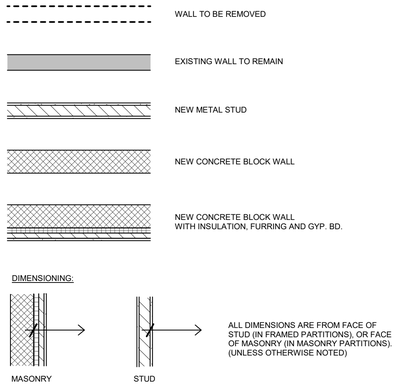
C. ARCHITECTURAL CATEGORIES ARE TYPICALLY ORGANIZED IN THE FOLLOWING MANNER (AS REQUIRED):

A0	GENERAL
A1	SITE PLANS & DETAILS
A2	LIFE SAFETY PLANS & CODE INFORMATION
A3	FLOOR PLANS (DEMOLITION, FLOOR, FINISH, REFLECTED CEILING)
A4	ROOF PLANS, ROOF DETAILS
A5	EXTERIOR ELEVATIONS
A6	BUILDING SECTIONS, WALL SECTIONS, DETAILS, STAIR PLANS & DETAILS
A7	WALL TYPES, WALL DETAILS
A8	DOOR, FRAMES & WINDOW DETAILS
A9	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

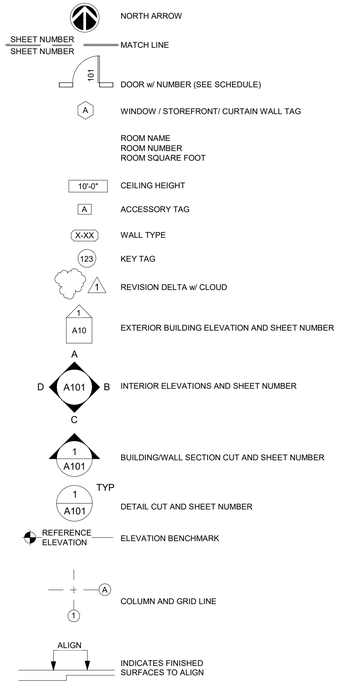
DRAWING ORGANIZATION | 7



MATERIAL INDICATIONS | 6

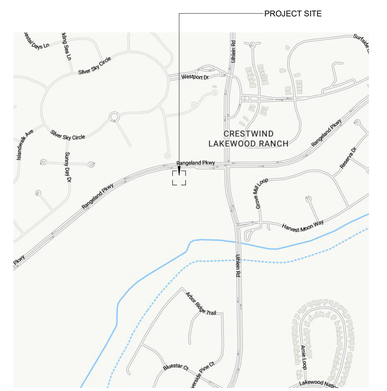


WALL LEGEND | 2



SYMBOLS | 5

1/8" = 1'-0"



LOCATION MAP | 1

FAWLEY BRYANT ARCHITECTURE | SMART BEAUTIFUL SPACES

FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S.
Checked By	J.H.
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
AR96481
REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

90% PERMIT SET

A0.1

ABBREVIATIONS, NOTES & SYMBOLS

Originals printed at 24" x 36" scale as required

Autodesk Docs://22009.01 MCSO at Premier/22009.01 MCSO_CENTRAL CD 01.10.24.rvt
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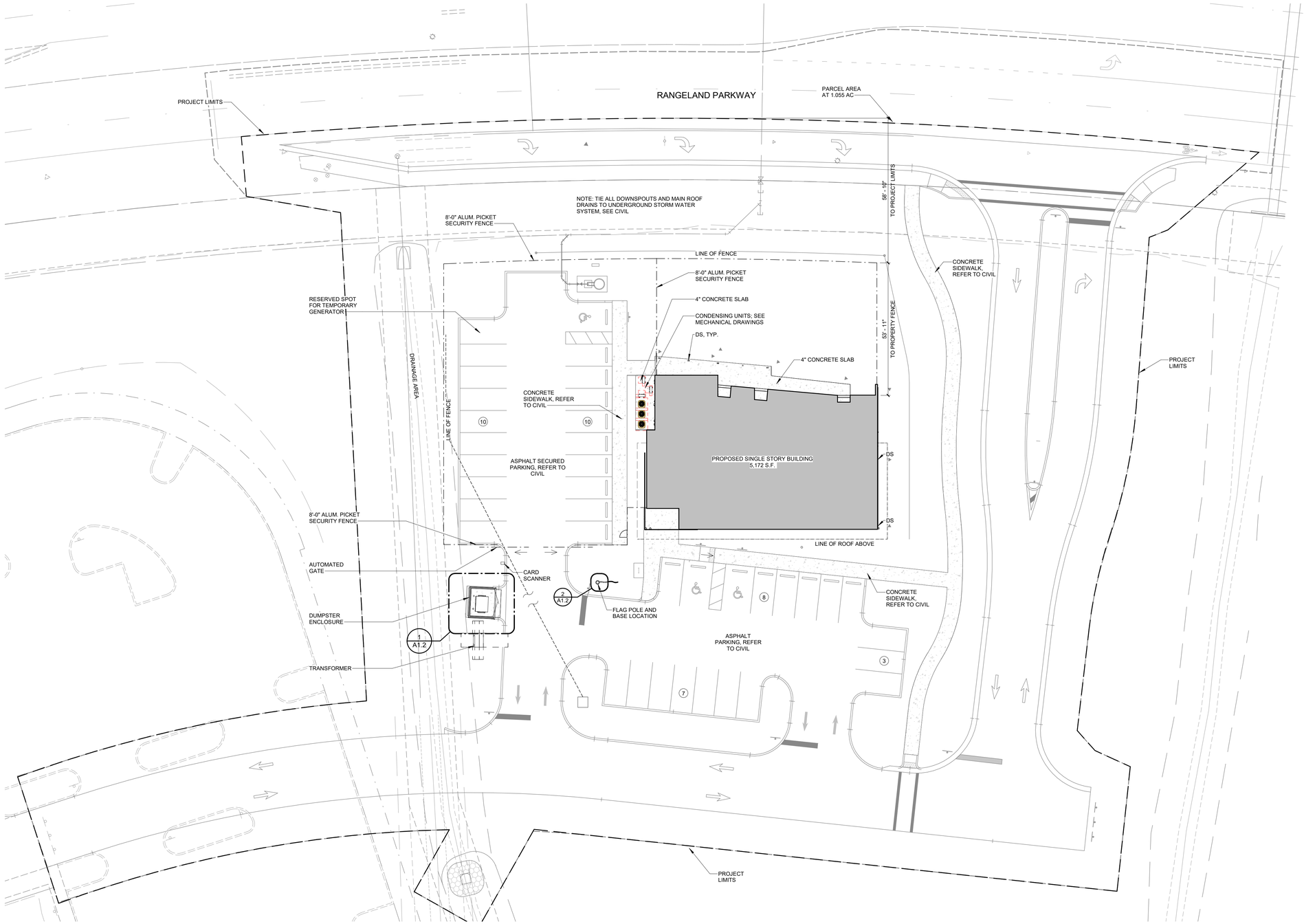

ARCHITECTURAL SITE PLAN | 1

1" = 20'-0"

FAWLEY BRYANT ARCHITECTURE
SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	JW
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
AR96481
REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

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90% PERMIT SET

A1.1
ARCHITECTURAL SITE PLAN

Originals printed at 24" x 36"
scale as required

Autodesk Docs://22009.01 MCSO at Premier/22009.01 MCSO_CENTRAL CD 01.10.24.rvt
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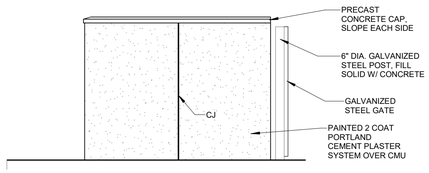
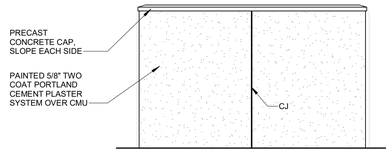


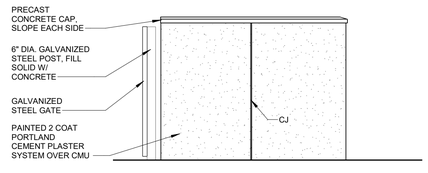
SOUTH ENCLOSURE ELEVATION | 10

1/4" = 1'-0"



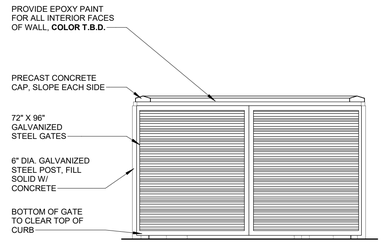
WEST ENCLOSURE ELEVATION | 9

1/4" = 1'-0"



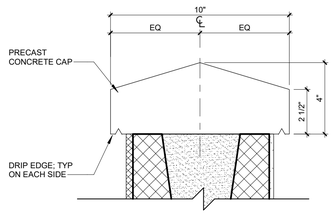
NORTH ENCLOSURE ELEVATION | 8

1/4" = 1'-0"



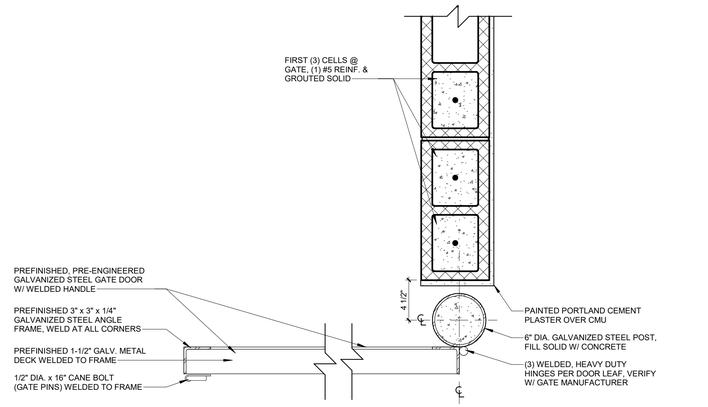
EAST ENCLOSURE ELEVATION | 7

1/4" = 1'-0"



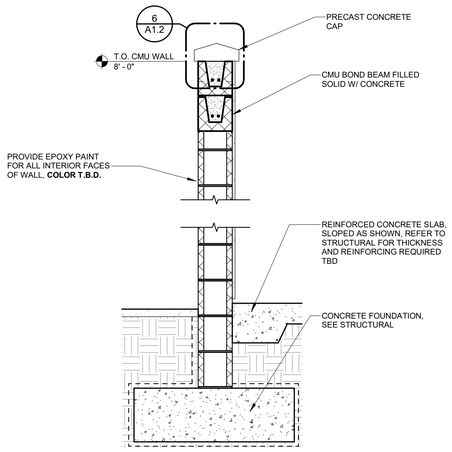
PRECAST CONCRETE CAP DETAIL | 6

3" = 1'-0"



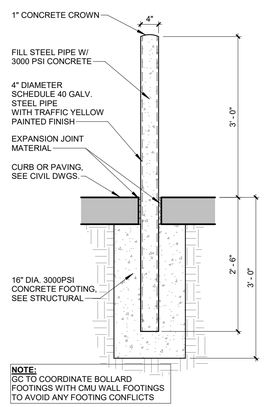
TYP. GATE HINGE | 5

1 1/2" = 1'-0"



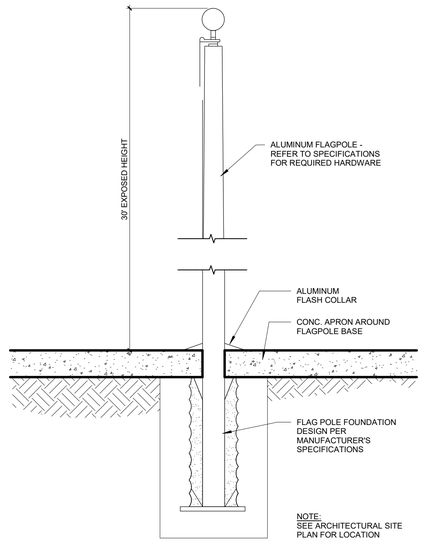
ENCLOSURE WALL SECTION | 4

3/4" = 1'-0"



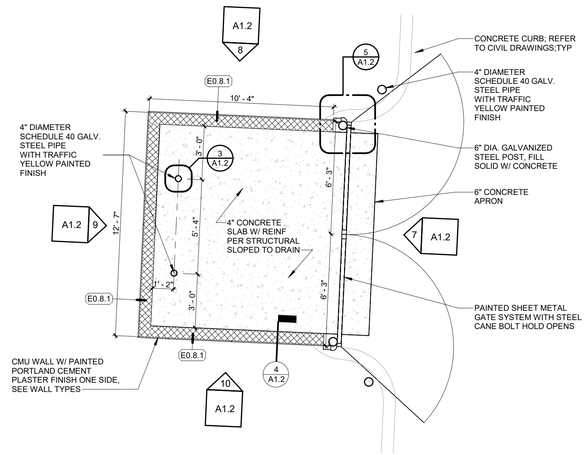
TYP. BOLLARD DETAIL | 3

3/4" = 1'-0"



FLAG POLE DETAIL | 2

3/4" = 1'-0"



ENCLOSURE ENLARGED PLAN | 1

1/4" = 1'-0"

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A1.2

ENCLOSURE PLANS, ELEVATIONS, AND DETAILS

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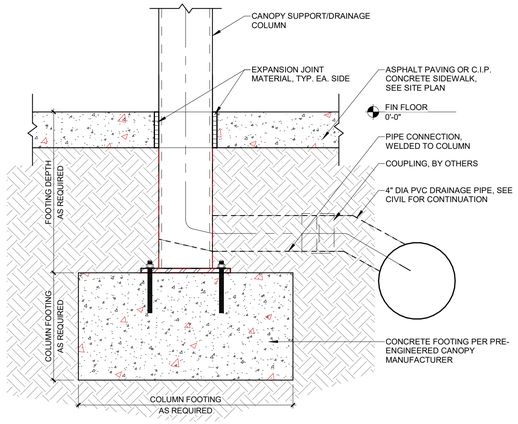
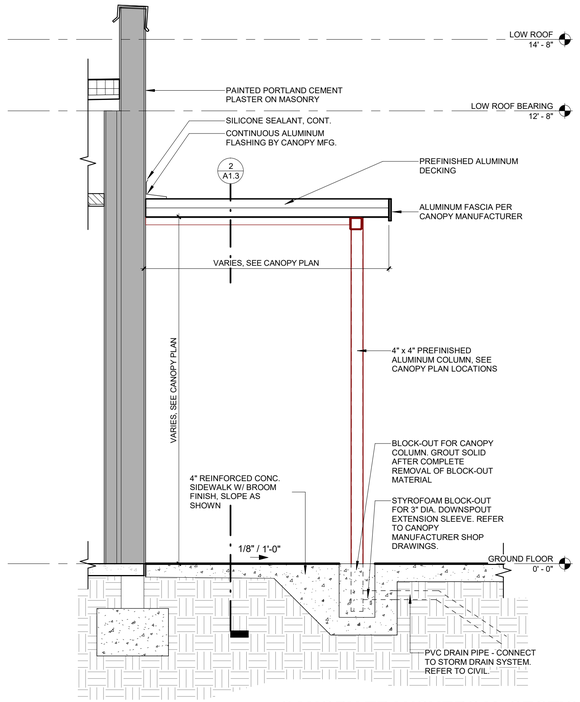


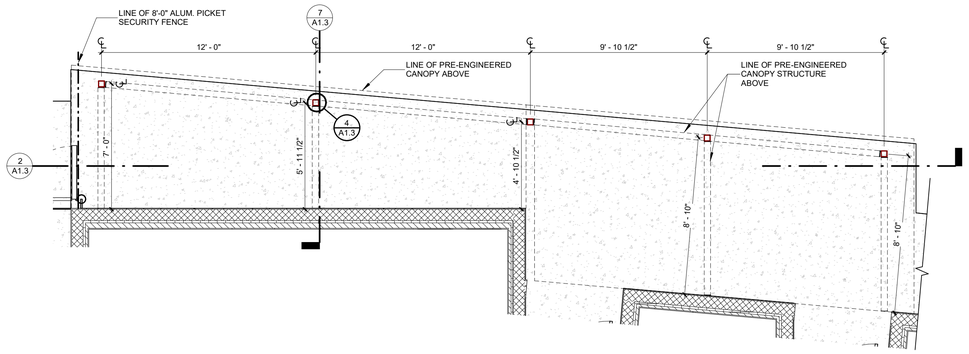
CANOPY DRAIN DETAIL | 8

1 1/2" = 1'-0"



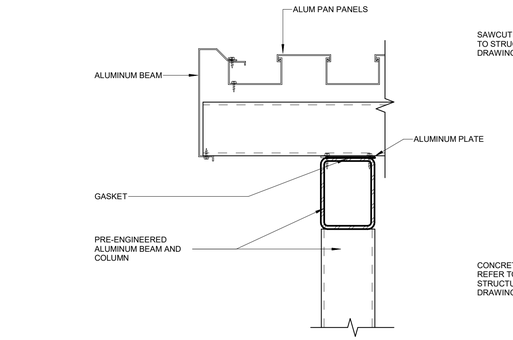
CANOPY TRANSVERSAL SECTION | 7

1/2" = 1'-0"



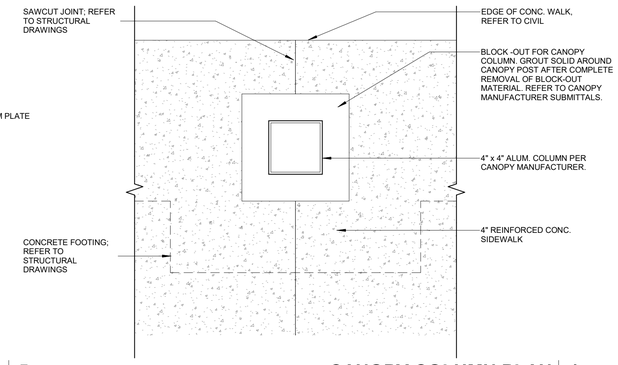
ENLARGED CANOPY AREA PLAN | 6

1/4" = 1'-0"



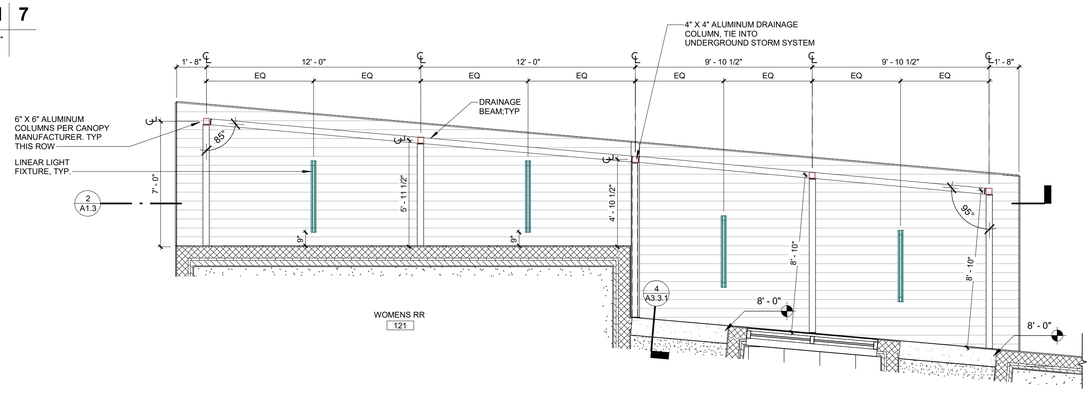
CANOPY EAVE DETAIL | 5

1 1/2" = 1'-0"



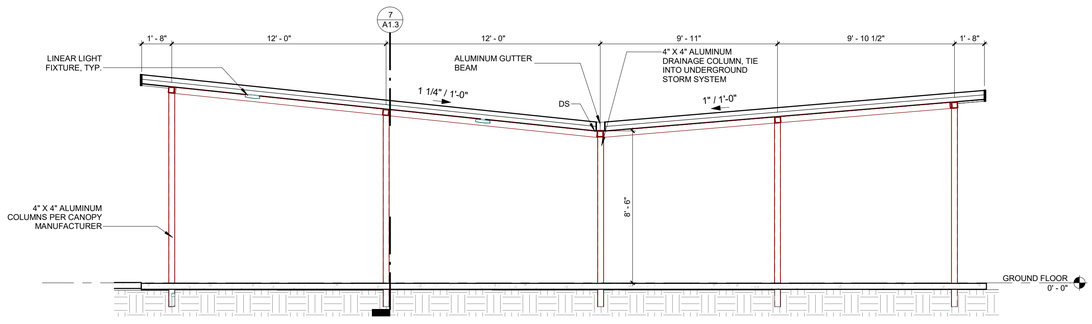
CANOPY COLUMN PLAN | 4

1 1/2" = 1'-0"



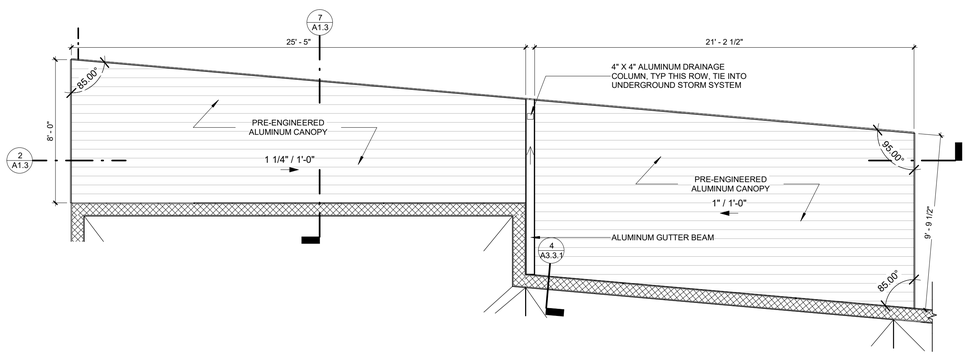
WALKWAY CANOPY PLAN/ RCP | 3

1/4" = 1'-0"



CANOPY LONGITUDINAL SECTION | 2

1/4" = 1'-0"



ENLARGED CANOPY ROOF PLAN | 1

1/4" = 1'-0"

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WALKWAY CANOPY PLAN AND DETAILS

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BUSINESS B

BUILDING CODE ANALYSIS

BUILDING CODE	CODE REFERENCES	FLORIDA BUILDING CODE, 8th EDITION (2023) FLORIDA BUILDING CODE - PLUMBING 8th EDITION (2023) FLORIDA BUILDING CODE - MECHANICAL 8th EDITION (2023) FLORIDA FIRE PREVENTION CODE, 8th EDITION (2023) 2017 NEC (NFPA 70)
	USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)	BUSINESS GROUP B
	TYPE OF CONSTRUCTION (CHAPTER 6)	TYPE II-B ESSENTIAL FACILITY RISK CATAGORY IV
	AUTOMATIC FIRE SPRINKLER SYSTEM	PROVIDED
	ALLOWABLE HEIGHT (CHAPTER 5 - TABLES 504.3a AND 504.4)	BUSINESS GROUP B (TYPE II-B) ALLOWABLE HEIGHT: 4 STORIES; 75' MAX HEIGHT - SPRINKLERED
	ACTUAL HEIGHT	ACTUAL HEIGHT: 1 STORIES, 25'-2" TOTAL HEIGHT
	ALLOWABLE AREA (CHAPTER 5 - TABLE 506.2)	BUSINESS GROUP B (TYPE II-B) ALLOWABLE AREA: 92,000 S.F. GROUND FLOOR - SPRINKLERED
	ACTUAL AREA	TOTAL BUILDING AREA: 5,172 S.F.
FIRE RESISTANCE	FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)	TYPE II-B CONSTRUCTION
	STRUCTURAL FRAME - INCLUDING COLUMNS, GIRDERS, TRUSSES	0 HOURS
	BEARING WALLS: EXTERIOR INTERIOR	 0 HOURS 0 HOURS
	NONBEARING WALLS AND PARTITIONS: INTERIOR	 0 HOURS
	FLOOR CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS
	ROOF CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS
	FIRE SEPARATION DISTANCE (FBC TABLE 705.5) EXTERIOR WALLS	OCCUPANCY GROUP B — FIRE SEPARATION DISTANCE = 30'+ X < 5: 1 HOUR 5 ≤ X < 10: 1 HOUR 10 ≤ X < 30: 0 HOUR X ≥ 30: 0 HOURS
	SEPARATION OF OCCUPANCIES (CHAPTER 5 - TABLE 508.4)	NO SEPARATION REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.
MEANS OF EGRESS	OCCUPANT LOAD: (TABLE 1004.5)	MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT: BUSINESS AREAS 150 GROSS ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS) 15 NET FIRST FLOOR BUSINESS 4,764 GROSS S.F. = 32 OCC ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS) 408 S.F. = 28 OCC **TOTAL NUMBER OF OCCUPANTS 60 OCC**
	MEANS OF EGRESS SIZING (SECTION 1005) EGRESS WIDTH PER OCCUPANT SERVED	OTHER EGRESS COMPONENTS: 0.2 (INCHES PER OCCUPANT) OCCUPANT LOAD: 32 PERSONS 0.2 / (60) = 300 INCHES TOTAL EGRESS REQUIRED **SEE LIFE SAFETY PLAN ON SHEET A2.1**
	EXIT ACCESS (SECTION 1006) COMMON PATH OF TRAVEL (TABLE 1006.2.1)	LENGTH OF COMMON PATH OF TRAVEL - BUSINESS = 100 FEET - SPRINKLERED
	MINIMUM NUMBER OF EXITS (SECTION 1006.3.2)	1-500 OCCUPANTS. MIN NUMBER OF EXITS PER STORY = 2 501-1,000 OCCUPANTS. MIN NUMBER OF EXITS PER STORY = 3 67 FIRST FLOOR OCCUPANTS **4 EXITS PROVIDED**
	EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)	MAXIMUM EGRESS DISTANCE: 300' SPRINKLERED
	CORRIDORS (SECTION 1020.2) CORRIDOR FIRE RESISTANCE RATING (TABLE 1020.1)	FIRE RESISTANCE RATING REQUIRED: 0 HOURS SPRINKLERED
	CORRIDORS (SECTION 1020) DEAD ENDS (SECTION 1020.5)	DEAD END CORRIDOR LENGTH SHALL NOT EXCEED 50' SPRINKLERED

PLUMBING

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES FOR BUSINESS OCCUPANCY (TABLE 2902.1) BUSINESS)

TOTAL OCCUPANTS: 60 (30 PER SEX)

W.C. 1/25 FOR THE FIRST 50, 1/50 FOR EXCEEDING		LAVATORY 1/40 FOR THE FIRST 80, 1/80 FOR EXCEEDING		MENS URINAL	UNISEX RR	D.F. 1 PER 100	SERVICE SINK
M	F	M	F				
1	1	1	1	N/A	N/A	1	1

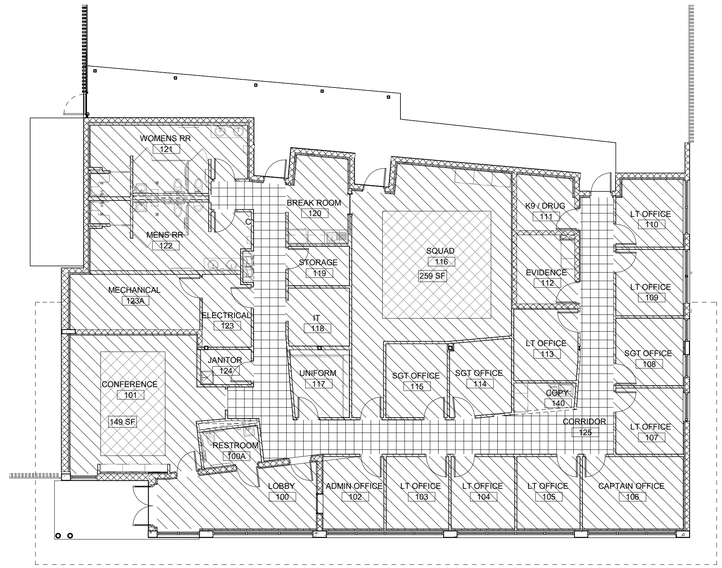
PLUMBING FIXTURES PROVIDED:

W.C.		LAVATORY		MENS URINAL	UNISEX RR	D.F.	SERVICE SINK
M	F	M	F				
1	2	3	3	1	1	1	1

*MENS RR WC. COUNT INCLUDES 1 URINAL IN # COUNT ABOVE FOR REQUIRED FOR PLUMBING FIXTURES

OCCUPANCY DIAGRAM LEGEND

MARK	OCCUPANCY TYPE
	ASSEMBLY UNCONCENTRATED TABLES & CHAIRS
	BUSINESS
	CIRCULATION



OCCUPANCY DIAGRAM 1

3/32" = 1'-0"

FLORIDA PRODUCT APPROVAL MATRIX

CATEGORY	SUBCATEGORY	MANUFACTURER / PRODUCT NAME / NUMBER	DOCUMENTATION TYPE (PER FLORIDA ADMINISTRATIVE CODE 9B-72.070) STATE OF FLORIDA APPROVAL NO.	METHOD (1 OR 2), LETTER CODE	IMPACT RESISTANT	DESIGN PRESSURE	EXPIRATION DATE
WINDOWS	EXTERIOR STOREFRONT	YKK AP AMERICA 'YHS 50 FI' ALUMINUM STOREFRONT SYSTEM	FL 14218.5 R13	METHOD 1, OPTION D	YES	N/A	12-31-2026
SKYLIGHTS		NO PRODUCTS IN THIS CATEGORY.					
EXTERIOR DOORS	SWINGING EXTERIOR DOOR ASSEMBLIES	YKK AP AMERICA '35H' LARGE MISSLE (LEVEL E) IMPACT	FL 16554.2 R12	METHOD 1, OPTION D	YES	+90.0 -90.0	12-31-2026
		ALLEGION-SCHLAGE LOCK COMPANY, LLC.	FL 12400.1 R14	METHOD 1, OPTION D	YES	+60.0 -60.0	12-31-2026
SHUTTERS		NO PRODUCTS IN THIS CATEGORY.					
ROOFING	SINGLE PLY ROOFING SYSTEM	HOLCIM SOLUTIONS AND PRODUCTS US, LLC ELEVATE ULTRAPLY TP ROOF SYSTEMS (HVHZ)	FL 10264.1 R18	METHOD 1, OPTION D	NO	+ N/S - 495	10-21-2025
PANEL WALLS	EXTERIOR INSULATION FINISH SYSTEM	GEORGIA PACIFIC-GYPSUM 'DENSGLASS' EXTERIOR WALL SHEATHING	FL 2524.1 R9	METHOD 1, OPTION C	NO	+N/A -N/A	12-31-2027
	PANEL SIDING	HARDIE REVEAL PANEL SYSTEM	FL 19901.1	METHOD 1, OPTION A	NO	+N/A -N/A	12-31-2026

GENERAL NOTES:

1. INCLUSION OF "APPROVED PRODUCTS" OR ASSOCIATED INFORMATION AND DOCUMENTATION IN THIS SCHEDULE OR BY REFERENCE IN THE CONSTRUCTION DOCUMENTS DOES NOT IMPLY THAT FAWLEY BRYANT OR ITS SUBCONSULTANTS HAVE EITHER PRODUCED OR CREATED THE INFORMATION CONTAINED HEREIN. CONSEQUENTLY, FAWLEY BRYANT AND ITS SUBCONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY INFORMATION GIVEN RELATIVE TO "APPROVED PRODUCTS."

2. RESPONSIBILITY FOR ANY PRODUCT'S PERFORMANCE RELATIVE TO STRUCTURAL INTEGRITY DURING HURRICANES BASED ON EVALUATIONS OF CODE COMPLIANCE CONDUCTED BY STATE APPROVED ENTITIES LIES SOLELY WITH THE MANUFACTURERS OF THE ABOVE LISTED PRODUCTS.

3. INCLUSION OF A PRODUCT IN THIS SCHEDULE DOES NOT IMPLY OR PRESUME THAT THE PRODUCT LISTED WILL BE INSTALLED IN THIS PROJECT. ALTERNATE PRODUCTS COMPLYING WITH CODE REQUIREMENTS MAY BE UTILIZED UPON EVAULATION, ACCEPTANCE, AND APPROVAL BY THE BUILDING DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT INFORMATION AND DOCUMENTATION THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE ALTERNATE PRODUCT'S EVALUATION AND APPROVAL.

4. REFER TO STRUCTURAL DRAWINGS FOR APPLICABLE WIND SPEED CLASSIFICATION OF PROJECT.

5. PROVIDE HARDWARE OR GLAZING THAT HAS BEEN TESTED WITH AND INCLUDED IN EACH SPECIFIC FLORIDA PRODUCT APPROVAL, AND ABLE TO WITHSTAND THE APPLICABLE WIND PRESSURE INDICATED ON THE STRUCTURAL DRAWINGS - NO EXCEPTIONS.

6. SOFFIT PANEL DESIGN PRESSURES TO BE SUBMITTED BY SOFFIT MANUFACTURER. SHOP DRAWINGS TO BE REVIEWED BY ARCHITECT AND SUBMITTED TO BUILDING DEPARTMENT.

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CODE ANALYSIS

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LIFE SAFETY PLAN | 1

1/8" = 1'-0"

EGRESS LEGEND

3'-0" DOOR	34"	34" / .20" PER OCCUPANT = 170 OCCUPANTS TOTAL
PAIR 3'-0" DOOR	68"	68" / .20" PER OCCUPANT = 340 OCCUPANTS TOTAL
4'-0" DOOR	46"	46" / .20" PER OCCUPANT = 230 OCCUPANTS TOTAL
PAIR 4'-0" DOOR	92"	92" / .20" PER OCCUPANT = 460 OCCUPANTS TOTAL

SIGNAGE LEGEND

PROVIDE CODE MINIMUM SIGNAGE

LINE TYPE AND SYMBOL LEGEND

- EMERGENCY LIGHT
- EMERGENCY EXIT SIGN
- P — FIRE ALARM PULL STATION
- F — HORN / STROBE ALARM
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR (AED) CABINET SEMI-RECESSED MODEL: LIFESTART 1436F12

NOTE: REFER TO ELECTRICAL FOR FIRE ALARM MODIFICATIONS.

- SMOKE RATED WALL
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- EGRESS PATH

FIRE EXTINGUISHER LEGEND

GENERAL / MULTI-PURPOSE

FIRE EXTINGUISHER - BRACKET MOUNTED

(B) TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., MP10-A WITH UL RATING OF 3A-40B:C OR EQUAL

FIRE EXTINGUISHER - SEMI RECESSED MOUNTED

(C) CABINET SEMI-RECESSED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., MP10-A WITH UL RATING OF 3A-40B:C OR EQUAL

ELECTRICAL ROOMS

FIRE EXTINGUISHER - BRACKET MOUNTED

(E) TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF 2A WITH 75' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., HT5 WITH UL RATING OF 5B:C OR EQUAL

KITCHEN

FIRE EXTINGUISHER - BRACKET MOUNTED

(K) TYPICAL BRACKET MOUNTED FIRE EXTINGUISHER TO BE A MINIMUM UL RATING OF K WITH 30' TRAVEL DISTANCE - PROVIDE LARSEN'S MFG., WC-6L WITH UL RATING OF 2A:K OR EQUAL

NOTES

NOTE:

1. FIRE EXTINGUISHERS AND CABINETS TO BE PROVIDED AND INSTALLED BY CONSTRUCTION MANAGER.
2. FIRE EXTINGUISHER SELECTION AND INSTALLATION SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE 8th EDITION 2023.
3. FIRE EXTINGUISHERS SHALL BE MOUNTED AT A MAX HEIGHT OF 48" TO THE HANDLE OF THE EXTINGUISHER.

SECURITY LEGEND

- EC — ELEVATOR CONTROL
- DR — DOOR RELEASE
- CR — CARD READER
- ACP — ALARM CONTROL PANEL (SEE LIFE SAFETY PLAN)
- SC — SECURITY CAMERA

LIFE SAFETY LEGEND

1/8" = 1'-0"

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LIFE SAFETY PLAN

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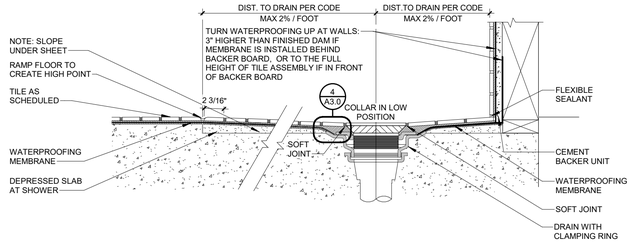

TYPICAL DRAIN DETAIL | 5

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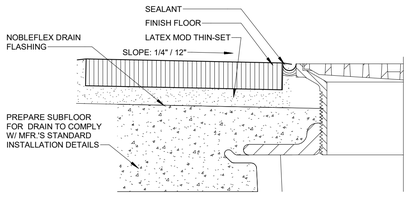
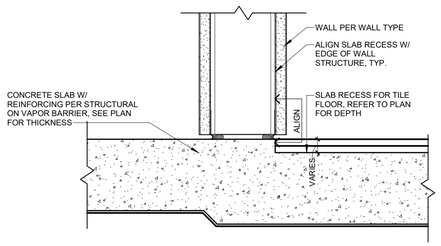


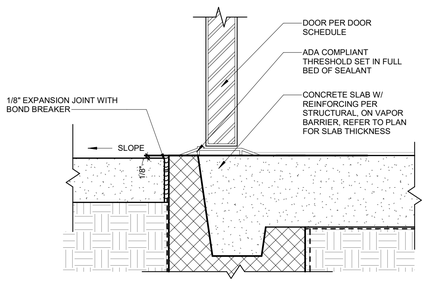
SQUARE DRAIN ENLARGED DETAIL | 4

6" = 1'-0"



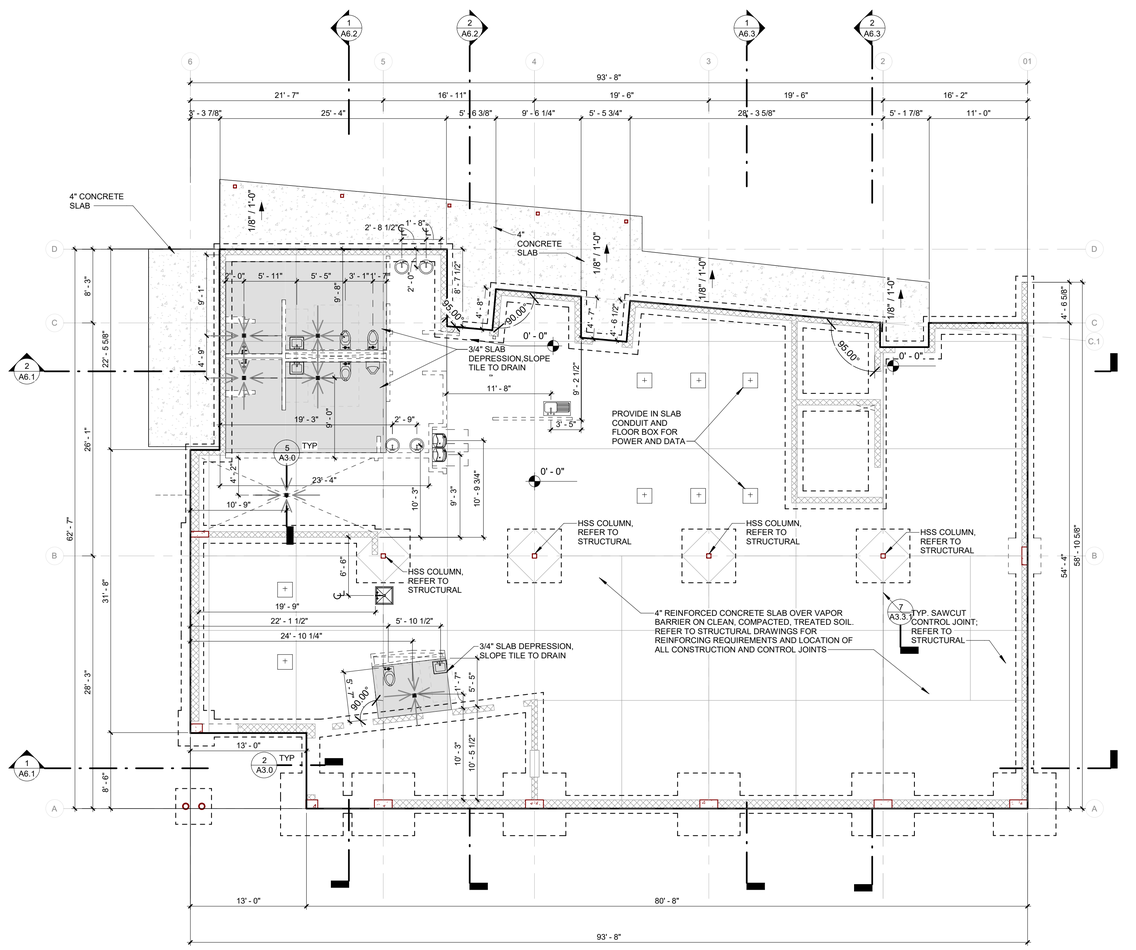
SLAB DETAIL - RECESSED SLAB | 3

3" = 1'-0"



SLAB DETAIL - SLAB TRANSITION | 2

3" = 1'-0"



SLAB AND GRID FLOOR PLAN | 1

1/8" = 1'-0"

SMART BEAUTIFUL SPACES

FAWLEY BRYANT
ARCHITECTURE

FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	JW
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
AR96481
REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

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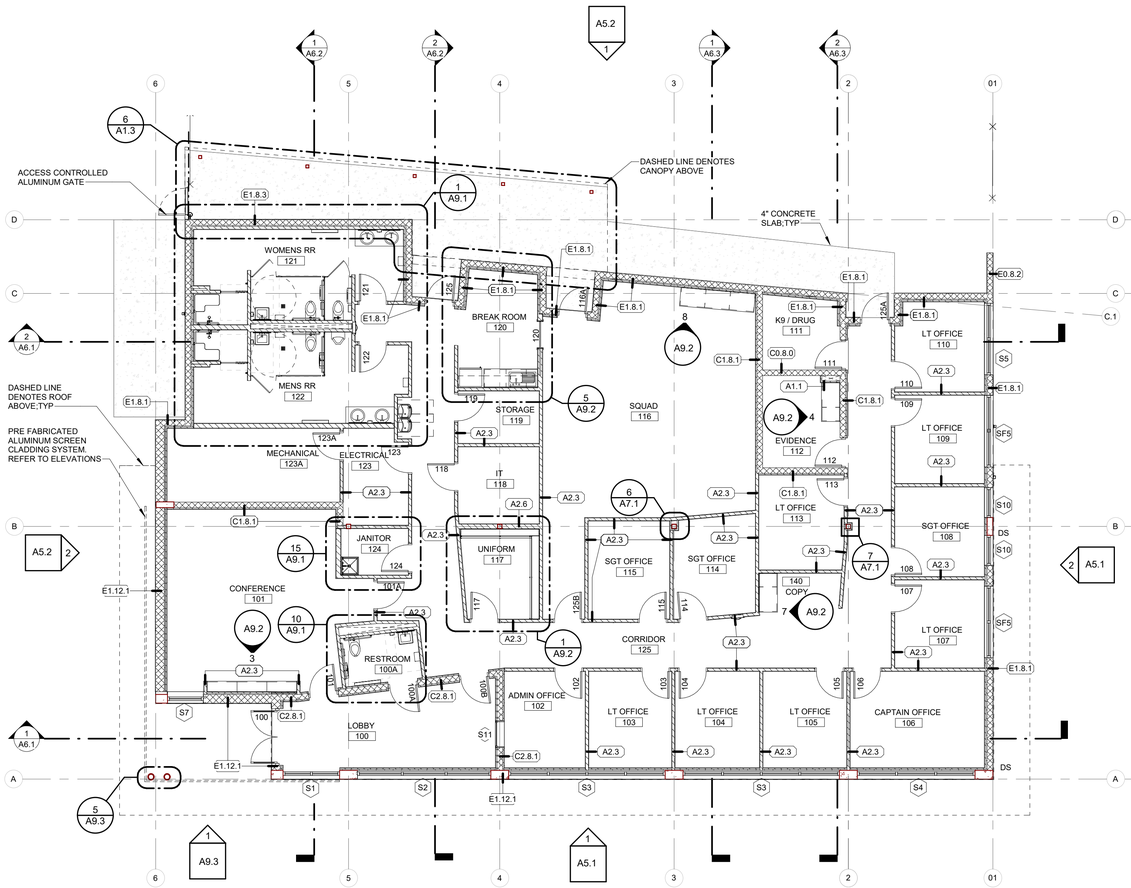
90% PERMIT SET

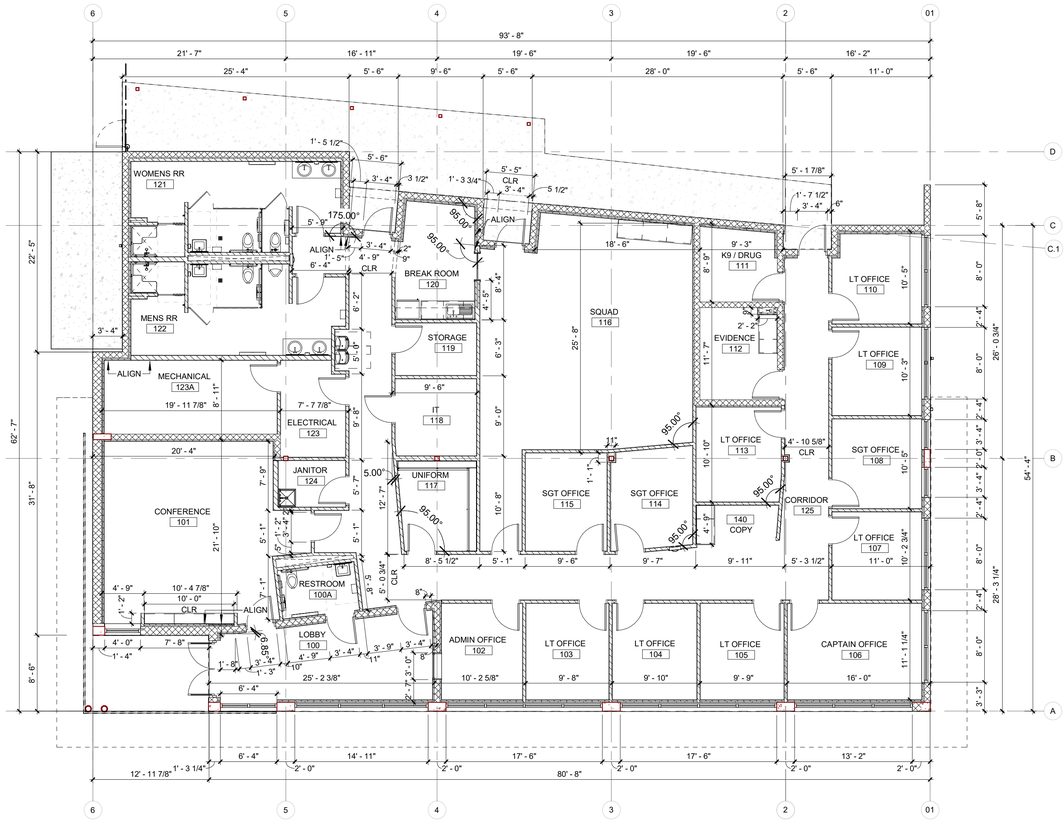
A3.0

SLAB AND GRID PLAN



NOTES AND TAGS FLOOR PLAN | 2

1/8" = 1'-0"



DIMENSIONS FLOOR PLAN | 1

1/8" = 1'-0"

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A3.1

DIMENSIONS, NOTES & TAGS PLAN

Originals printed at 24" x 36"
scale as required

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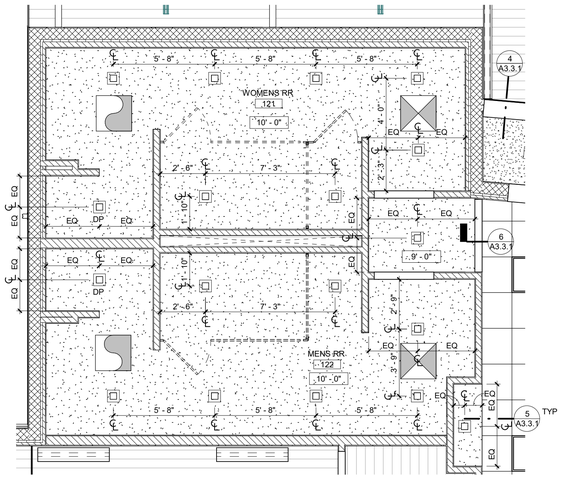
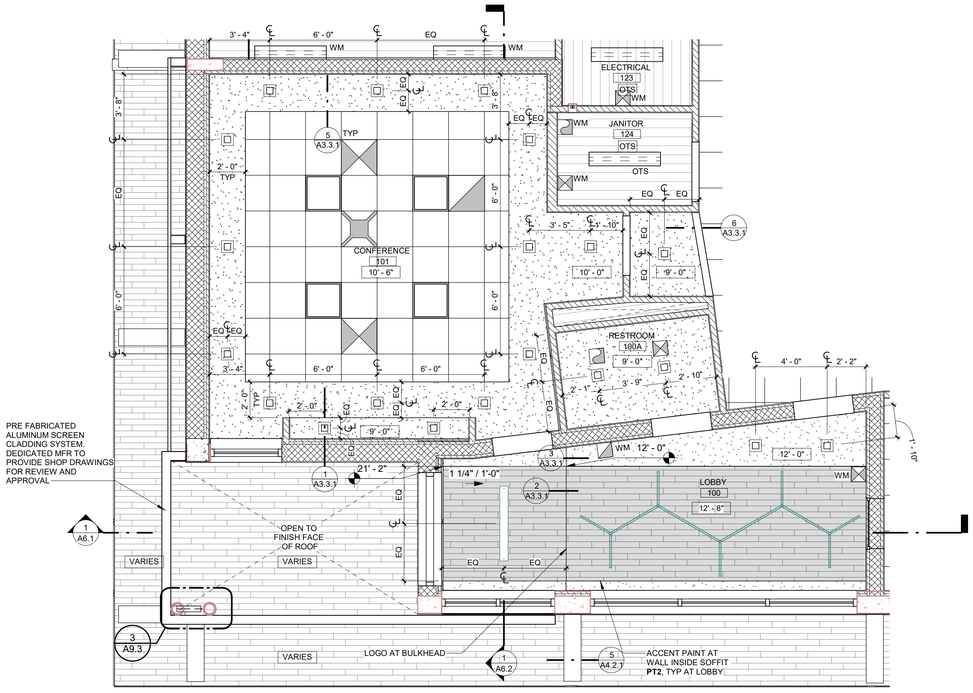


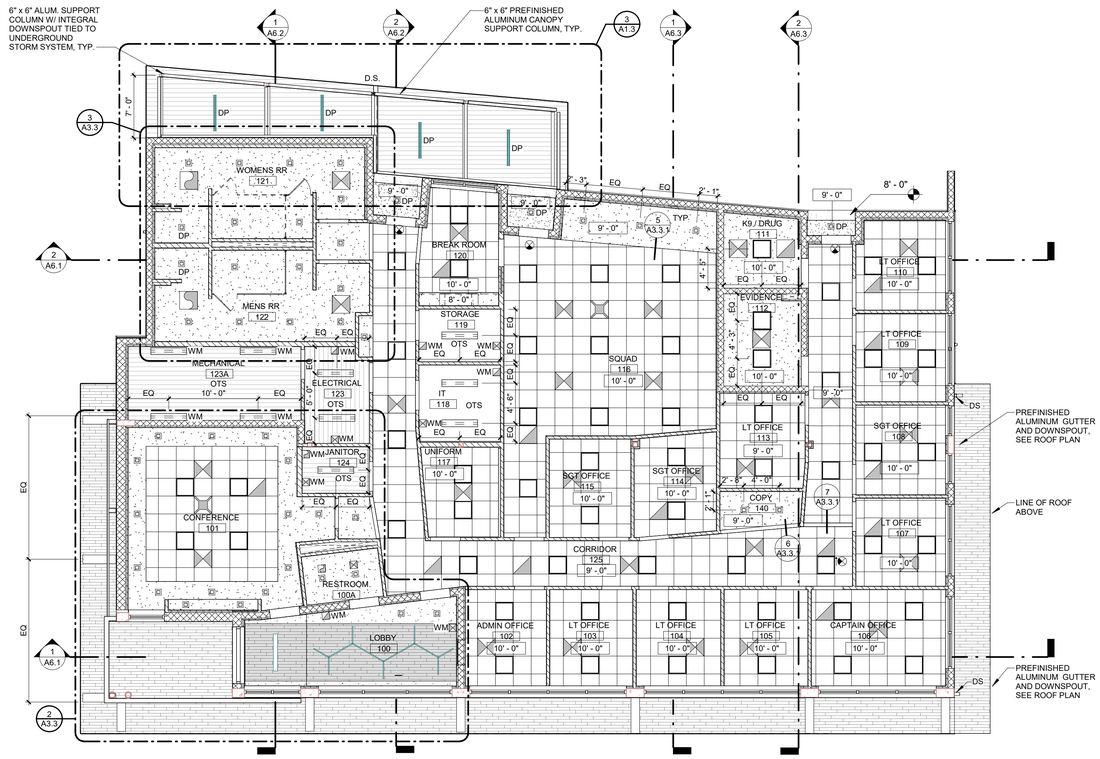
ENLARGED REFLECTED CEILING PLAN | 3

1/4" = 1'-0"



ENLARGED CONFERENCE REFLECTED CEILING PLAN | 2

1/4" = 1'-0"



REFLECTED CEILING PLAN | 1

1/8" = 1'-0"

ALUMINUM CANOPY	48" LINEAR PENDANT LIGHT
	2'x2' LAY-IN FIXTURE
2'x2' ACOUSTIC TILE CEILING IN SUSPENDED GRID	RECESSED SQUARE CAN LIGHT
	48" SUSPENDED LINEAR FIXTURE
	LED LINEAR COMPONET FIXTURE
PAINTED GYPSUM WALLBOARD CEILING	48" EXTERIOR RATED LED LINEAR FIXTURE
	SUPPLY (REFER TO MEP PLANS FOR INFO)
WOOD LOOK EXTERIOR PLANKS	RETURN (REFER TO MEP PLANS FOR INFO)
	EXHAUST (REFER TO MEP PLANS FOR INFO)
WOOD LOOK INTERIOR ACOUSTIC MICRO PERFORATED CEILING PLANKS	FRESH AIR FIXTURE (REFER TO MEP PLANS FOR INFO)
	EMERGENCY EXIT SIGN

GENERAL NOTES:
1. CENTER LIGHT FIXTURE IN ROOM AND/OR AREA, U.N.O.
2. FIXTURES TO BE EQUALLY SPACED, U.N.O.
3. CENTER WALL SCONCE ON WALLS OR OVER PLUMBING FIXTURES, U.N.O.
4. WALL MOUNTED COMPONETS ARE NOTE WITH A "WM"
5. DP INDICATES DAMP PROOF LIGHT
6. REFER TO MEP PLANS FOR MORE LIGHT FIXTURE INFORMATION

CEILING LEGEND

FAWLEY BRYANT ARCHITECTURE
SMART BEAUTIFUL SPACES
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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

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A3.3
REFLECTED CEILING PLAN

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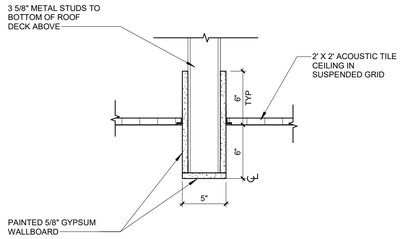
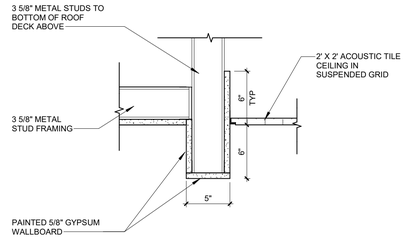


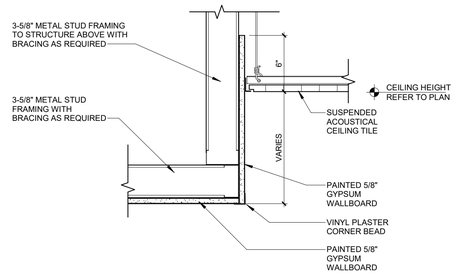
BULKHEAD DETAIL | 7

1 1/2" = 1'-0"



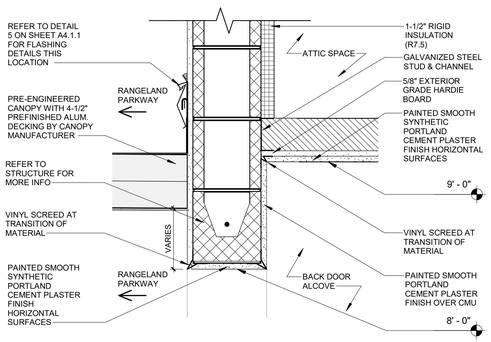
BULKHEAD DETAIL | 6

1 1/2" = 1'-0"



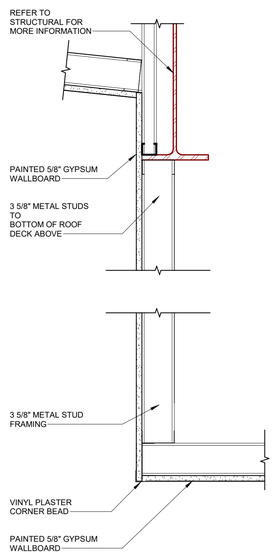
SOFFIT DETAIL | 5

1 1/2" = 1'-0"



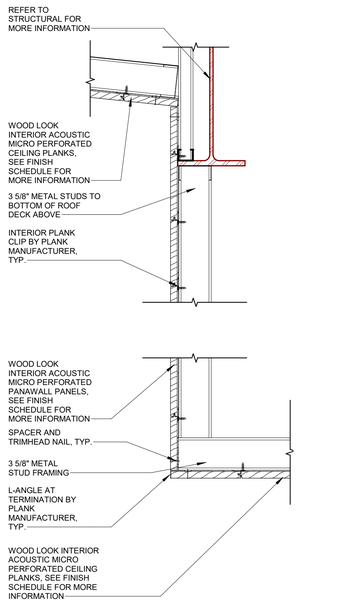
EXTERIOR BULKHEAD DETAIL | 4

1 1/2" = 1'-0"



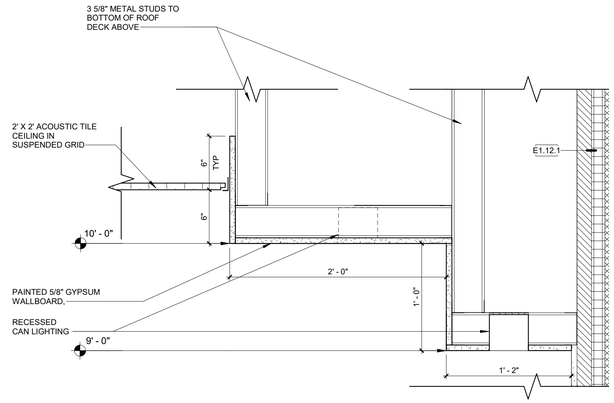
LOBBY SOFFIT DETAIL | 3

1 1/2" = 1'-0"



LOBBY SOFFIT DETAIL | 2

1 1/2" = 1'-0"



CONFERENCE ROOM SOFFIT DETAIL | 1

1 1/2" = 1'-0"

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FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	REMARKS
100	LOBBY	LVT1/LVT2/LVT3	VB	PT1	PT2/WD1	PT1	PT1	WD2/PT5	RANDOM MIX OF 50% LVT1, 25% LVT2 AND 25% LVT3, WD1 AT BULKHEAD BETWEEN WD2 CEILINGS
100A	RESTROOM	TL1	CB	TL5	TL3/TL4	TL3/TL4	TL3/TL4	EP2	WALLS WITH TL3/TL4 TO RECEIVE RANDOM EQUAL MIX OF COLORS
101	CONFERENCE	C1/C2	VB	PT1	PT1	PT1/PT2	PT1	ACT/PT5	RANDOM MIX OF 75% C1 AND 25% C2
102	ADMIN OFFICE	C3	VB	PT1	PT3	PT1	PT1	ACT	
103	LT OFFICE	C3	VB	PT1	PT3	PT1	PT1	ACT	
104	LT OFFICE	C3	VB	PT1	PT1	PT1	PT3	ACT	
105	LT OFFICE	C3	VB	PT1	PT3	PT1	PT1	ACT	
106	CAPTAIN OFFICE	C3	VB	PT1	PT1	PT1	PT3	ACT	
107	LT OFFICE	C3	VB	PT3	PT1	PT1	PT1	ACT	
108	SGT OFFICE	C3	VB	PT1	PT1	PT3	PT1	ACT	
109	LT OFFICE	C3	VB	PT3	PT1	PT1	PT1	ACT	
110	LT OFFICE	C3	VB	PT1	PT1	PT3	PT1	ACT	
111	K9 / DRUG	LVT1	VB	PT1	PT1	PT1	PT1	PT5	
112	EVIDENCE	LVT1	VB	PT1	PT1	PT1	PT1	PT5	
113	LT OFFICE	C3	VB	PT1	PT3	PT1	PT1	ACT	
114	SGT OFFICE	C3	VB	PT1	PT1	PT1	PT3	ACT	
115	SGT OFFICE	C3	VB	PT1	PT3	PT1	PT1	ACT	
116	SQUAD	C1/C2/LVT1/LVT2/LVT3	VB	PT1/WP1	PT1/PT2	PT1	PT1/WP	ACT	RANDOM MIX OF 75% C1 AND 25% C2, RANDOM MIX OF 50% LVT1, 25% LVT2 AND 25% LVT3, SEE FINISH FLOOR PLAN FOR LOCATIONS
117	UNIFORM	LVT1	VB	PT1	PT1	PT1	PT1	ACT	
118	IT	SC	VB	PT1	PT1	PT1	PT1	PT5	
119	STORAGE	SC	VB	PT1	PT1	PT1	PT1	PT5	
120	BREAK ROOM	LVT1/LVT2/LVT3	VB	PT2	PT1	PT1	PT1	ACT	RANDOM MIX OF 50% LVT1, 25% LVT2 AND 25% LVT3
121	WOMENS RR	TL1/TL2	CB	TL5, TL3/TL4	TL3/TL4	TL6	TL3/TL4	EP2	TL2 ONLY AT SHOWER FLOOR, WALLS WITH TL3/TL4 TO RECEIVE RANDOM EQUAL MIX OF COLORS
122	MENS RR	TL1/TL2	CB	TL6	TL3/TL4	TL5, TL3/TL4	TL3/TL4	EP2	TL2 ONLY AT SHOWER FLOOR, WALLS WITH TL3/TL4 TO RECEIVE RANDOM EQUAL MIX OF COLORS
123	ELECTRICAL	SC	VB	PT1	PT1	PT1	PT1	PT5	
123A	MECHANICAL	SC	VB	PT1	PT1	PT1	PT1	PT5	
124	JANITOR	SC	VB	EP1	EP1	WP/EP1	WP/EP1	EP2	
125	CORRIDOR	LVT1/LVT2/LVT3	VB	PT1	PT1	PT1	PT1	ACT	RANDOM MIX OF 50% LVT1, 25% LVT2 AND 25% LVT3
140	COPY	LVT2	VB	PT1	PT1	PT1	PT1	PT5	

NOTES

1. All materials and fixtures are to be fabricated and/or installed per manufacturers' instructions for commercial applications.

2. All fabrication and/ or installation are to be done in a manner consistent with manufacturers warranties.

3. Questions on any manner of installation, method of fabrication, or material use and information should be forwarded to the architect before purchase, fabrication, and/ or installation.

4. Contractor will order materials in time to not delay construction. No substitutions are permitted, based on the failure to order materials on time, it is the contractor's responsibility to pay for express shipping to maintain the design intent and project schedule.

5. On this Finish Schedule, North refers to the top of the sheet. East refers to the right of the sheet. South refers to the bottom of the sheet. West refers to the left of the sheet.

6. All tile to be installed in accordance with TCNA guidelines.

FINISH LEGEND:

FLOORING

C1 CARPET TILE
Manufacturer: SHAW
Collection: VIRTUAL SPACES
Style: AUGMENT TILE
Color: AMPLIFY 64549
Yarn Content: SOLUTION DYED, SOLUTION Q EXTREME NYLON
Size: 24" x 24"
Backing: SYNTHETIC, ECOWORX TILE
Construction: MULTI-LEVEL PATTERN LOOP
Installation Pattern: BRICK ASHLAR
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

C2 CARPET TILE (ACCENT)
Manufacturer: SHAW
Collection: VIRTUAL SPACES
Style: AUGMENT TILE
Color: MAGNIFY 64530
Yarn Content: SOLUTION DYED, SOLUTION Q EXTREME NYLON
Size: 24" x 24"
Backing: SYNTHETIC, ECOWORX TILE
Construction: MULTI-LEVEL PATTERN LOOP
Installation Pattern: BRICK ASHLAR
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

C3 CARPET TILE
Manufacturer: INTERFACE
Collection: RISING SIGNS
Style: SPANDREL
Color: PHOSPHORUS 107154
Yarn Content: SOLUTION DYED, RECYCLED CONTENT NYLON
Size: 9.845" x 39.38"
Backing: CQUEST GB
Construction: TUFTED SHEARED
Installation Pattern: BRICK ASHLAR
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

LVT1 LUXURY VINYL TILE
Manufacturer: SHAW
Style: COVE
Color: SILT 27504
Size: 9" x 48"
Installation Pattern: RUNNING BOND 1/3 OFFSET
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

LVT2 LUXURY VINYL TILE (ACCENT)
Manufacturer: SHAW
Style: COVE
Color: GRAZE 27326
Size: 9" x 48"
Installation Pattern: RUNNING BOND 1/3 OFFSET
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

LVT3 LUXURY VINYL TILE (ACCENT)
Manufacturer: SHAW
Style: COVE
Color: POUR 27530
Size: 9" x 48"
Installation Pattern: RUNNING BOND 1/3 OFFSET
Contact: KAYDEE YOUNG
(941) 221-0676
kaydee.young@shawcontract.com

SC SEALED CONCRETE

TL1 FLOOR TILE
Manufacturer: CROSSVILLE
Style: NOTORIOUS
Color: LEADING MAN
Size: 24" x 24"
Installation Pattern: STACKED
Contact: ANNETTE GABRELCIK
(727) 808-5131
agabrelcik@crossvillestudios.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/8"
Grout Color: TBD
SaniGlaze Joint treatment

TL2 FLOOR TILE (AT SHOWERS)
Manufacturer: CROSSVILLE
Style: NOTORIOUS
Color: LEADING MAN
Size: 12" x 12" MOSAIC
Installation Pattern: STACKED
Contact: ANNETTE GABRELCIK
(727) 808-5131
agabrelcik@crossvillestudios.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/8"
Grout Color: TBD
SaniGlaze Joint treatment

FLOOR TRANSITIONS

TR1 TRANSITION (LVT TO CARPET)
Manufacturer: JOHNSONITE
Profile: SLT-48-A
Color: 48 GREY
Contact: ALISON SHAW
(941) 932-3245
alison.akers@tarkett.com

TR2 TRANSITION (LVT TO TILE)
Manufacturer: DALTILE
Style: 4" x 4" x 3/4" DOUBLE BEVEL
Finish: MARBLE
Contact: SAVANNAH ROSE RESCH
(813) 886-2222
savannah.resch@daltile.com

TR3 TRANSITION (LVT TO SC)
Manufacturer: JOHNSONITE
Profile: SLT-48-L
Color: 48 GREY
Contact: ALISON SHAW
(941) 932-3245
alison.akers@tarkett.com

WALL BASE

CB COVE BASE
Manufacturer: SCHLUTER
Style: DILEX-AHK
Finish: SATIN ANODIZED ALUMINUM

VB VINYL BASE
Manufacturer: JOHNSONITE
Size: 4"
Profile: STANDARD WITH TOE
Color: 48 GREY
Contact: ALISON SHAW
(941) 932-3245
alison.akers@tarkett.com

MOULDINGS, MILLWORK, CASEWORK

PL HIGH PRESSURE PLASTIC LAMINATE (CABINETRY)
Manufacturer: FORMICA
Color: WHEAT STRAND
Finish: MATTE
Installation: VERTICAL GRAIN
Contact: TAMARA IRELAND
(727) 200-1872
tamara.ireland@a-msupply.com

SS SOLID SURFACE (COUNTERTOPS)
Manufacturer: DUPONT
Style: CORIAN
Color: WHITE JASMINE
Edge Profile: EASED WITH ROUNDED CORNERS
Thickness: 3/4" AT COUNTER, 1/4" AT BACKSPLASH
Contact: JOHN CANNON
(800) 237-0229
john.cannon@parksite.com

INTERIOR WALL FINISHES

EP1 EPOXY PAINT (MAIN PAINT)
Manufacturer: FLORIDA PAINTS
Finish: SATIN
Color: TO MATCH SHERWIN WILLIAMS SW7009 PEARLY WHITE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

PT1 LOW VOC LATEX PAINT (MAIN PAINT)
Manufacturer: FLORIDA PAINTS
Finish: SATIN
Color: TO MATCH SHERWIN WILLIAMS SW7009 PEARLY WHITE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

PT2 LOW VOC LATEX PAINT (ACCENT PAINT)
Manufacturer: FLORIDA PAINTS
Finish: SATIN
Color: TO MATCH SHERWIN WILLIAMS SW6446 ARUGULA
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

PT3 LOW VOC LATEX PAINT (ACCENT PAINT)
Manufacturer: FLORIDA PAINTS
Finish: SATIN
Color: TO MATCH SHERWIN WILLIAMS SW6177 SOFTENED GREEN
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

WD1 WOOD LOOK INTERIOR ACOUSTIC MICRO PERFORATED PANAWALL PANELS
Manufacturer: AMERICAN ARCHITECTURAL PRODUCTS GROUP
Material: CARBON ZERO HPL
Size: 7-1/4" x 96"
Color: AAM1085
Contact: ANITA HLISTER
(813) 802-8211
ahlister@aapgco.com

WP WALL PROTECTION
Manufacturer: CONSTRUCTION SPECIALTIES
Collection: ACROVYN
Style: WALL COVERING
Color: MISSION WHITE
Size: 4' x 8'
Installation: HORIZONTAL
Contact: KELSEY TRACY
(813) 831-3344
ktracy@cas-corp.com

TL3 WALL TILE
Manufacturer: DALTILE
Style: MYTHOLOGY WAVE CREST
Color: SANTORINI
Size: 4" x 12"
Installation Pattern: RUNNING BOND 1/3 OFFSET
Contact: SAVANNAH RESCH
(813) 886-2222
savannah.resch@daltile.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/16"
Grout Color: TBD
SaniGlaze Joint treatment

TL4 WALL TILE
Manufacturer: DALTILE
Style: MYTHOLOGY WAVE CREST
Color: OLYMPUS
Size: 4" x 12"
Installation Pattern: RUNNING BOND 1/3 OFFSET
Contact: SAVANNAH RESCH
(813) 886-2222
savannah.resch@daltile.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/16"
Grout Color: TBD
SaniGlaze Joint treatment

TL5 WALL TILE (ACCENT)
Manufacturer: FLORIM USA - MILESTONE
Style: TYCOON LEAF MOSAIC
Color: GREY MIX
Size: 12.5" x 15"
Installation Pattern: HORIZONTAL RUN
Contact: DICK PATRICK
(407) 509-8368
dpatrick@trinitysurfaces.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/16"
Grout Color: TBD
SaniGlaze Joint treatment

TL6 WALL TILE (ACCENT)
Manufacturer: GARDEN STATE TILE
Style: MARZO
Color: FERN
Size: 4" x 8"
Installation Pattern: BRICK
Contact: MIKE HUBBERT
(407) 982-0430
mhubert@gstile.com
EPOXY GROUT
Grout Manufacturer: LATICRETE
Grout Style: SPECTRA-LOCK
Grout Joints: 1/16"
Grout Color: TBD
SaniGlaze Joint treatment

DOORS & FRAMES

PT4 PAINTED HOLLOW METAL DOOR FRAMES
Manufacturer: FLORIDA PAINTS
Finish: SEMI-GLOSS
Color: TO MATCH SHERWIN WILLIAMS SW7067 CITYSCAPE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

PT6 PAINTED HOLLOW METAL DOORS
Manufacturer: FLORIDA PAINTS
Finish: SEMI-GLOSS
Color: TO MATCH SHERWIN WILLIAMS SW9163 TIN LIZZIE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

ST1 STAINED WOOD DOORS
Color: ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS

CEILINGS & SOFFITS

ACT ACOUSTIC CEILING TILE
Grid Manufacturer: ARMSTRONG
Grid Style: PRELUDE XL
Grid Size: 15/16"
Grid Color: WHITE
Tile Manufacturer: ARMSTRONG
Tile Style: ULTIMA
Tile Size: 24"x24"
Tile Color: WHITE
Edge Detail: BEVELED TEGULAR
Contact: KAITLYN MALONEY
(813) 734-5412
kemaloney@armstrongceilings.com

EP2 EPOXY PAINT (CEILINGS)
(Unless noted otherwise. See Finish Schedule)
Manufacturer: FLORIDA PAINTS
Finish: FLAT ON GYP., SEMI-GLOSS ON EXPOSED STRUCTURE AND DECK
Color: TO MATCH SHERWIN WILLIAMS SW7007 BRIGHT WHITE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

PT5 LOW VOC LATEX PAINT (CEILINGS)
(Unless noted otherwise. See Finish Schedule)
Manufacturer: FLORIDA PAINTS
Finish: FLAT ON GYP., SEMI-GLOSS ON EXPOSED STRUCTURE AND DECK
Color: TO MATCH SHERWIN WILLIAMS SW7007 BRIGHT WHITE
Coats: 1 PRIMER, 2 FINISH
Contact: ADAM PACHECO
(727) 423-4246
a.pacheco@floridapaints.com

WD2 WOOD LOOK INTERIOR ACOUSTIC MICRO PERFORATED CEILING PLANKS
Manufacturer: AMERICAN ARCHITECTURAL PRODUCTS GROUP
Material: CARBON ZERO HPL
Size: 7-1/4" x 96"
Color: AAM1085
Contact: ANITA HLISTER
(813) 802-8211
ahlister@aapgco.com

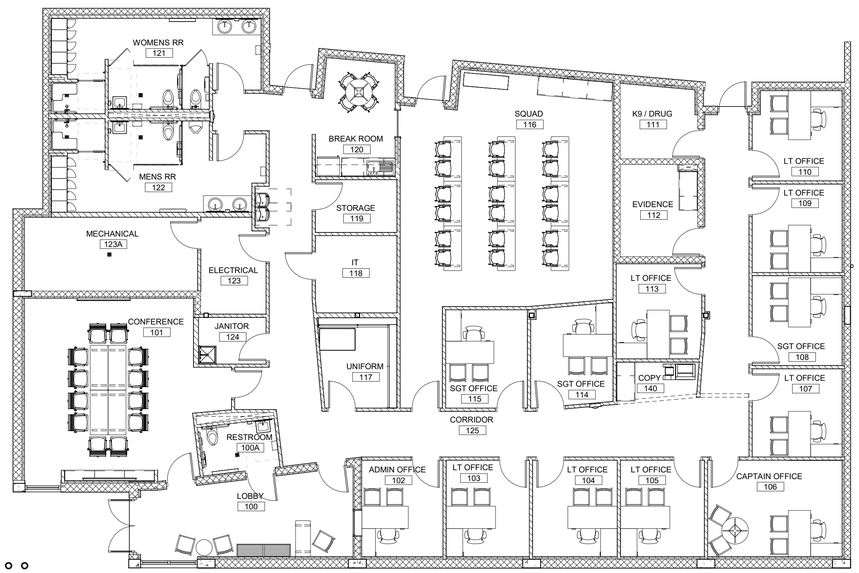
MISCELLANEOUS

CG CORNER GUARDS (AT ALL GYP. OUTSIDE CORNERS)
Manufacturer: CONSTRUCTION SPECIALTIES
Collection: ACROVYN
Model: VA SERIES VA-200N
Installation: FULL HEIGHT
Color: MISSION WHITE
Contact: KELSEY TRACY
(813) 831-3344
ktracy@cas-corp.com

MT METAL TRIM STRIP (AT ALL TILE OUTSIDE CORNERS & EXPOSED EDGES)
Manufacturer: SCHLUTER
Style: JOLLY
Finish: SATIN ANODIZED ALUMINUM

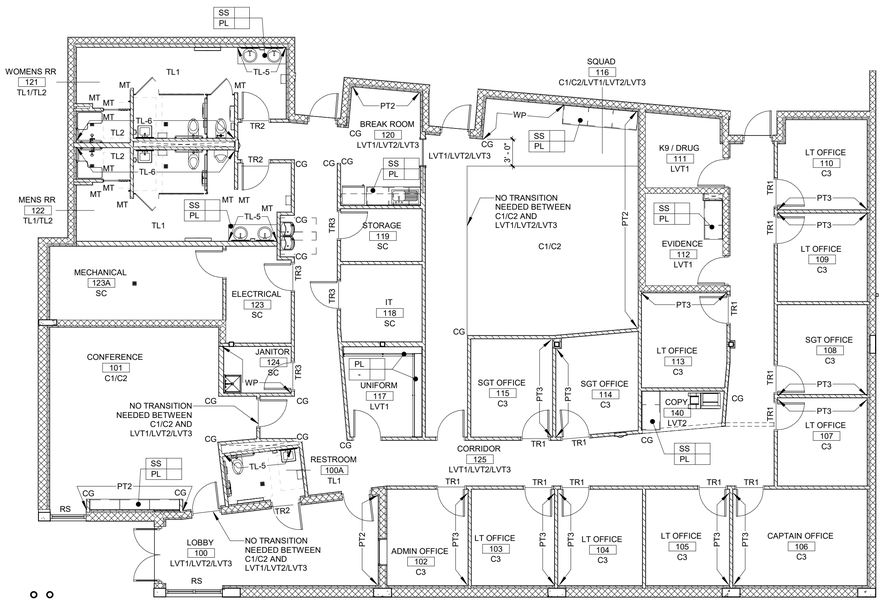
RS ROLLER SHADES (AT ALL EXTERIOR WINDOWS)
Manufacturer: APERTURE
Mount: INSIDE MOUNT WITH GREY FASCIA
Hardware: GREY PLASTIC
Fabric: VERONA 5% OPENNESS, BLACKOUT AT CONFERENCE ROOM
Color: FLINT
Contact: CAROLE DAME
(561) 252-5738
CDame@csamelson.com

TP TOILET PARTITIONS
Manufacturer: SCRANTON PRODUCTS
Style: FLOOR MOUNTED OVERHEAD-BRACED
Color: SHALE
Finish: ORANGE PEEL
Shoes: STAINLESS STEEL
Contact: TAYLOR WILHELM
(813) 836-9346
taylor@ssarchsales.com



FURNITURE FLOOR PLAN | 2

1/8" = 1'-0"



FINISH FLOOR PLAN | 1

1/8" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S.
Checked By	J.H.
Date	02.02.24

Revisions:

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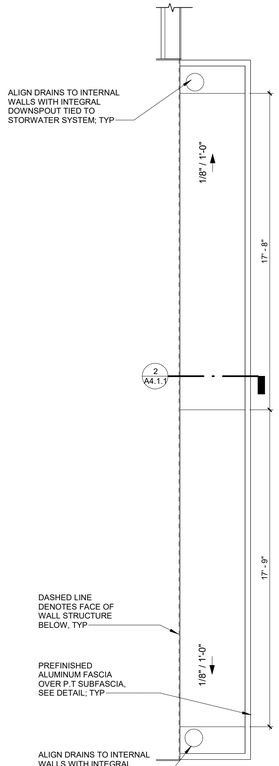
A3.5

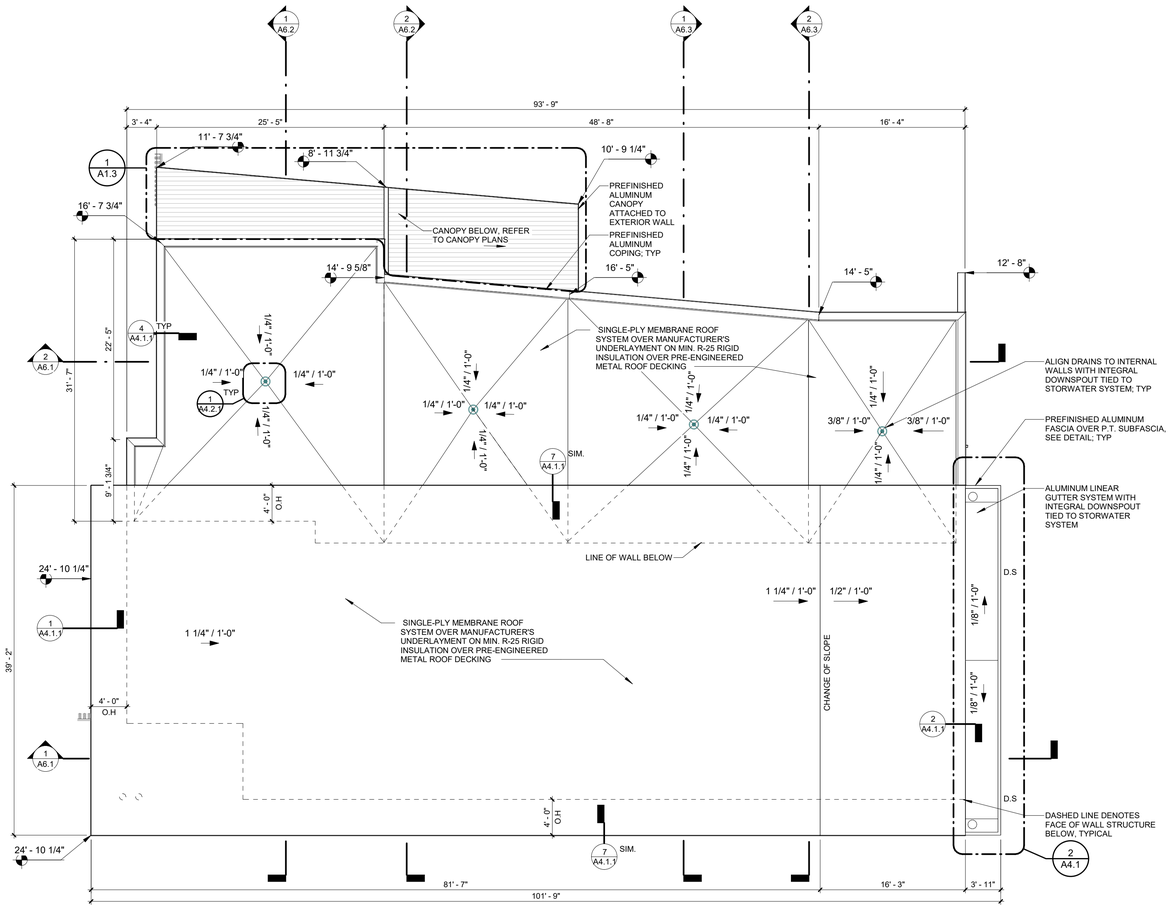
FINISH AND FURNITURE PLAN

Originals printed at 24" x 36" scale as required



ENLARGED ROOF DRAIN | 2

1/4" = 1'-0"



ROOF PLAN | 1

1/8" = 1'-0"

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A4.1
ROOF PLAN

Originals printed at 24" x 36"
scale as required

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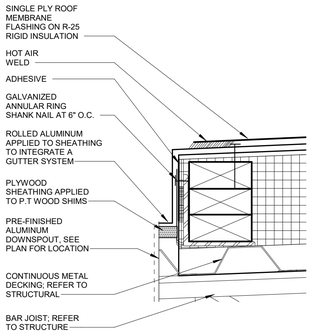
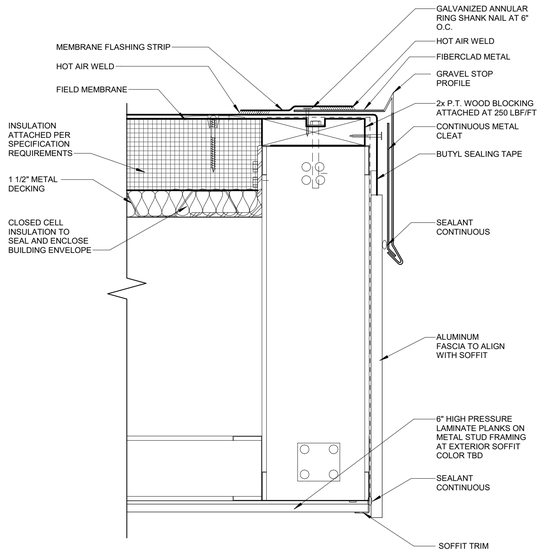


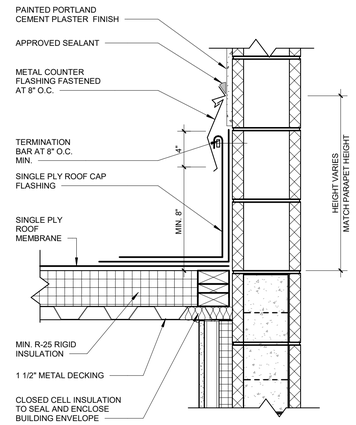
GUTTER FLASHING DETAIL | 8

3" = 1'-0"



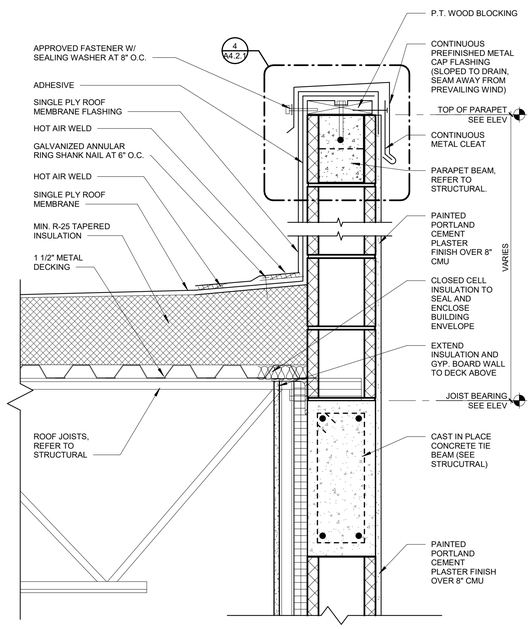
EAVE DETAIL WITH SOFFIT | 7

3" = 1'-0"



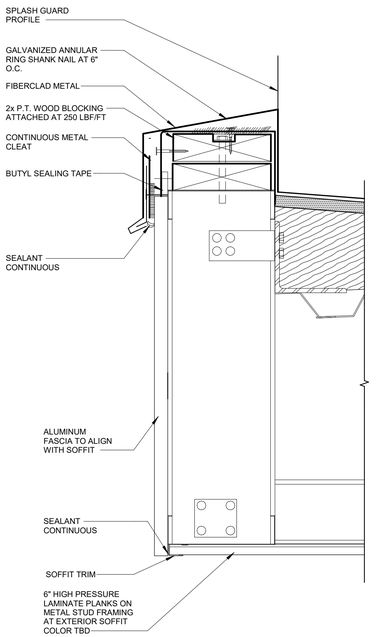
PARAPET FLASHING | 5

1 1/2" = 1'-0"



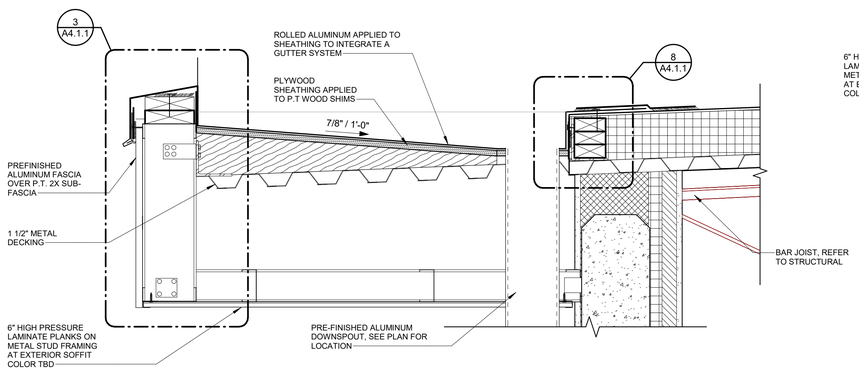
PARAPET DETAIL | 4

1 1/2" = 1'-0"



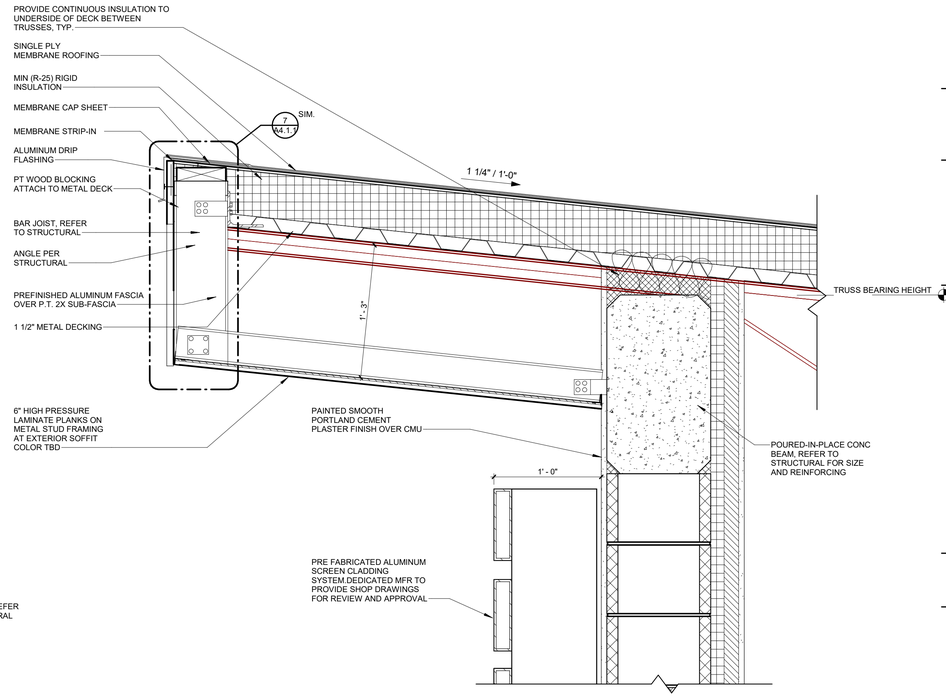
EAVE DETAIL | 3

3" = 1'-0"



ROOF GUTTER SECTION | 2

1 1/2" = 1'-0"



HIGH ROOF EDGE DETAIL | 1

1 1/2" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	JW
Date	02.02.24

Revisions:

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A4.1.1

ROOF DETAILS

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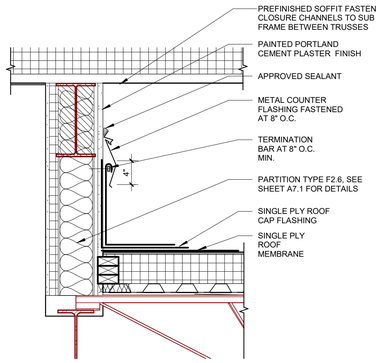
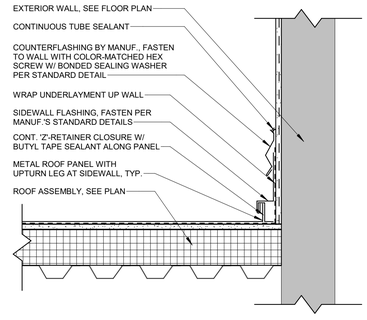
scale as required



REGLET/COUNTER FLASHING AT STUD WALL | 7

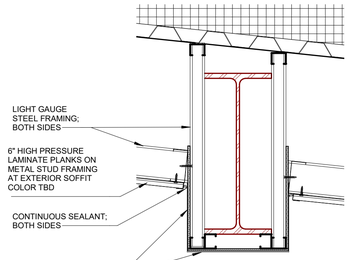
1" = 1'-0"



BASIS OF DESIGN: ENGLERT SERIES 2500
STANDING SEAM ROOF, COLOR T.B.D.

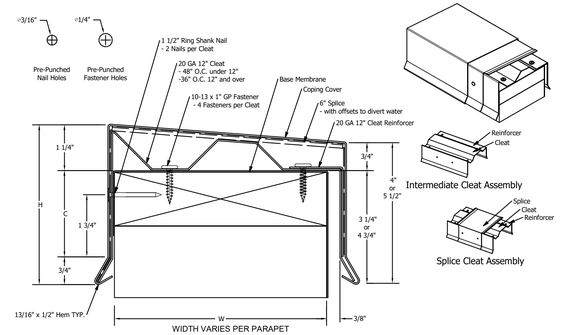
ROOF TERMINATION @ SIDEWALL | 6

1 1/2" = 1'-0"



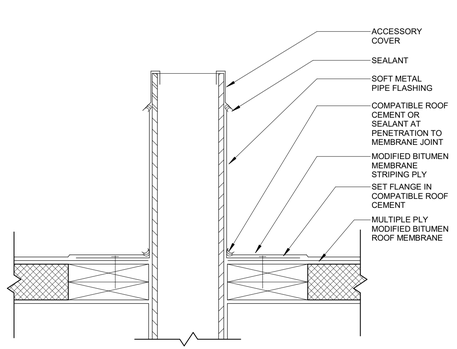
FASCIA WRAP DETAIL | 5

1 1/2" = 1'-0"



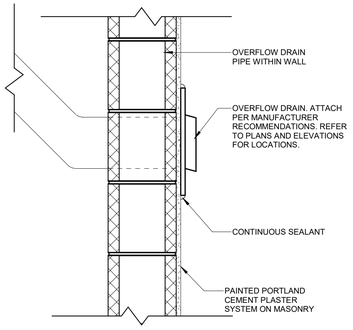
COPING DETAIL | 4

6" = 1'-0"



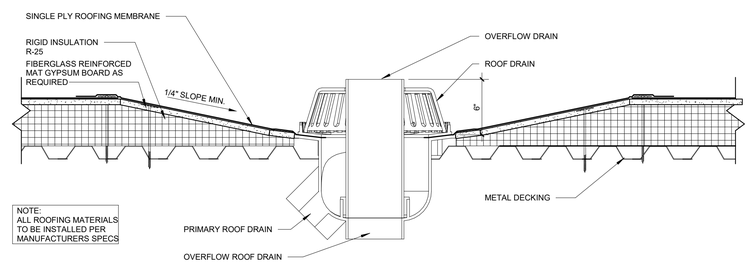
TYPICAL VTR DETAIL | 3

3" = 1'-0"



OVERFLOW DRAIN | 2

1 1/2" = 1'-0"



TYP. ROOF DRAIN | 1

1 1/2" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	Author
Checked By	Checker
Date	02.02.24

Revisions:

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A4.2.1
ROOF DETAILS

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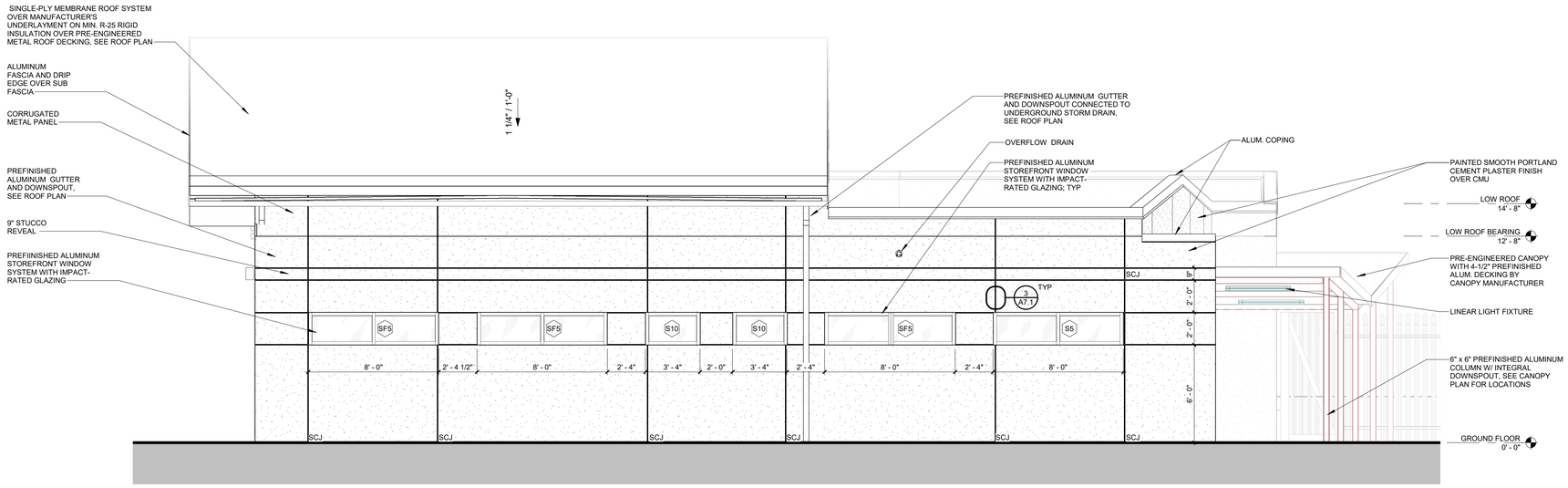
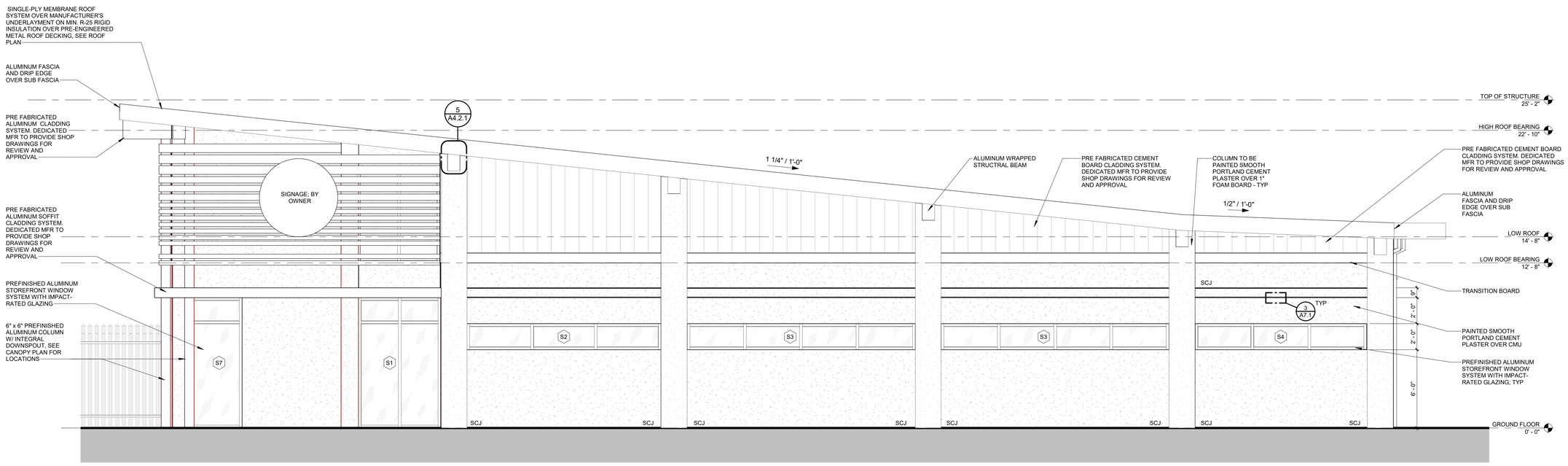
scale as required



EAST ELEVATION | **2**

1/4" = 1'-0"



SOUTH ELEVATION | **1**

1/4" = 1'-0"

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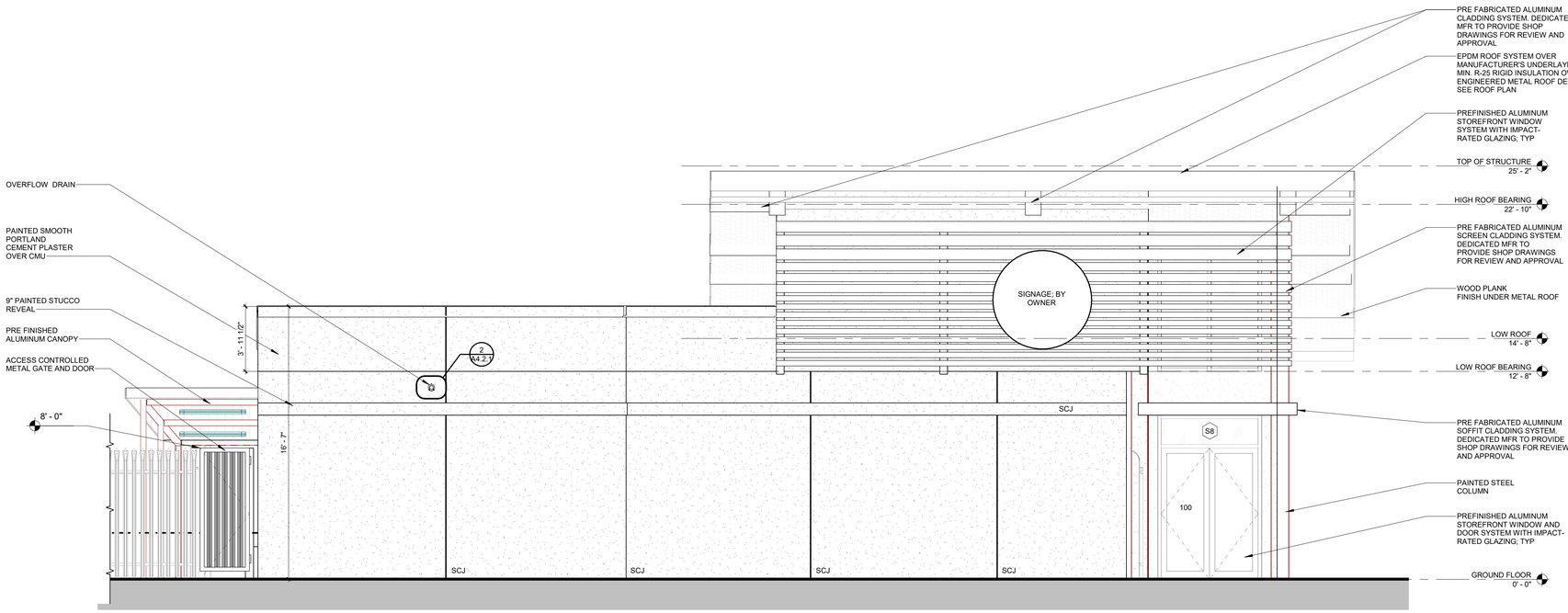
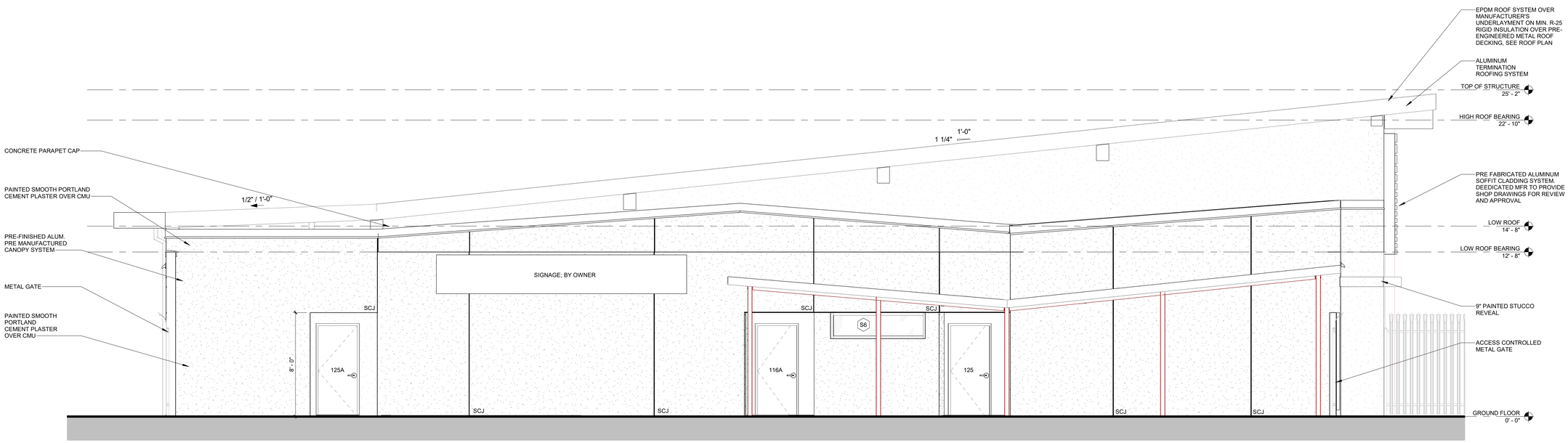
A5.1
EXTERIOR ELEVATIONS

Originals printed at 24" x 36"
scale as required



WEST ELEVATION | **2**

1/4" = 1'-0"



NORTH ELEVATION | **1**

1/4" = 1'-0"

SMART BEAUTIFUL SPACES

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A5.2
EXTERIOR ELEVATIONS

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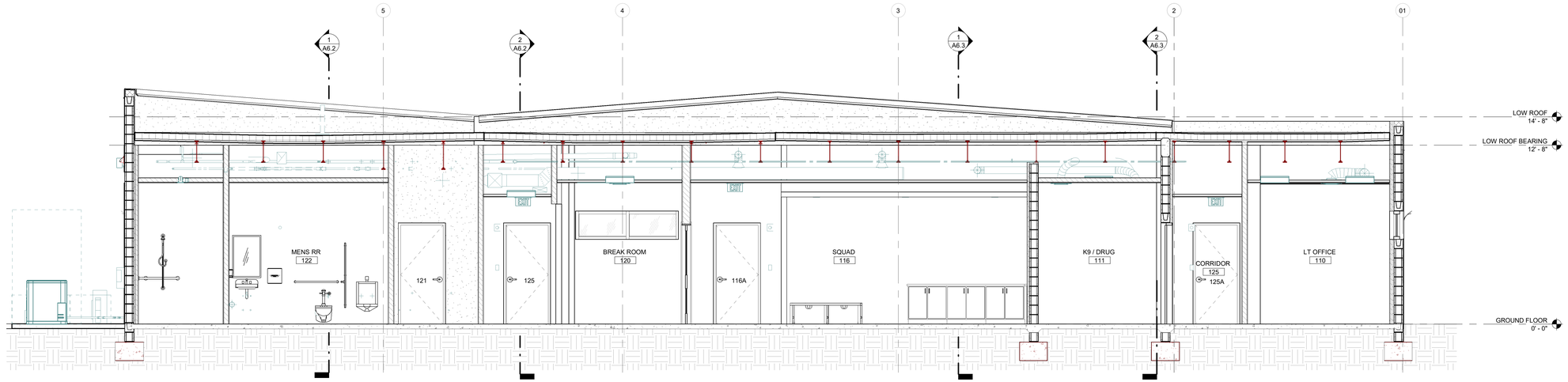
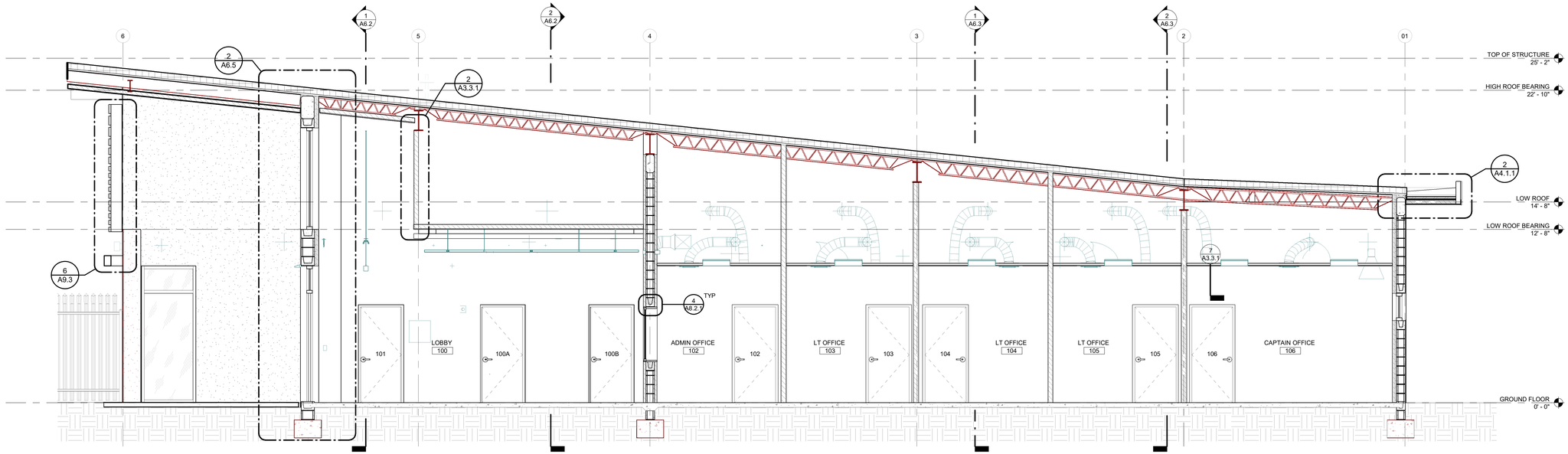


BUILDING SECTION | 2

1/4" = 1'-0"



BUILDING SECTION | 1

1/4" = 1'-0"

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A6.1

BUILDING SECTIONS

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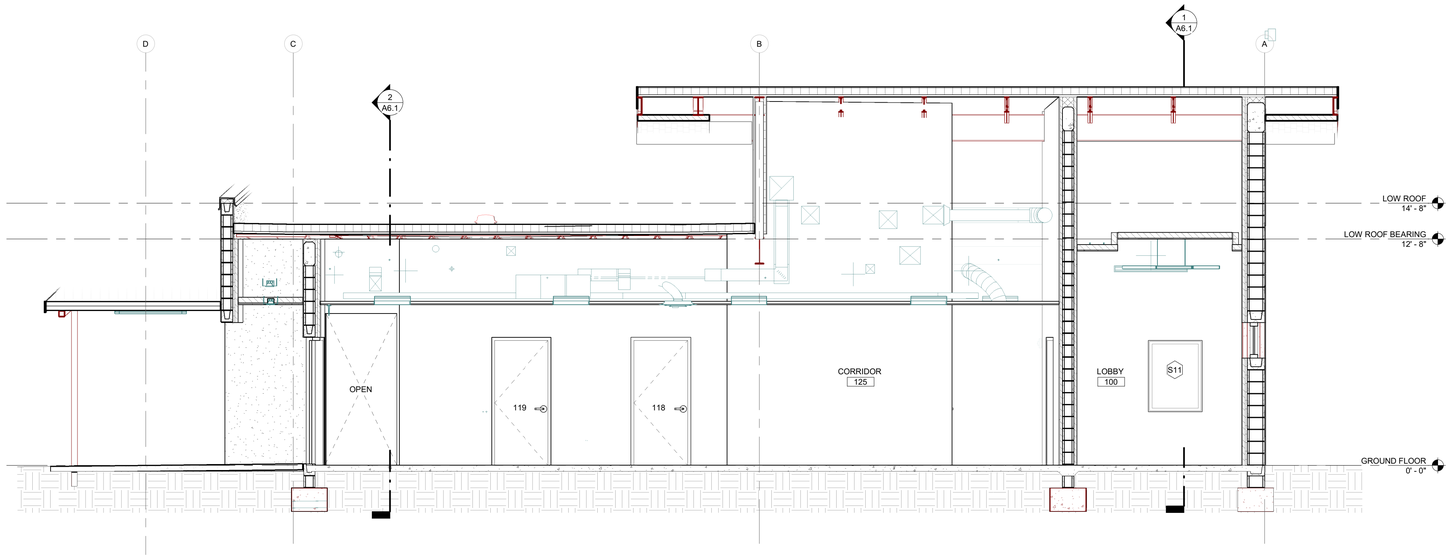
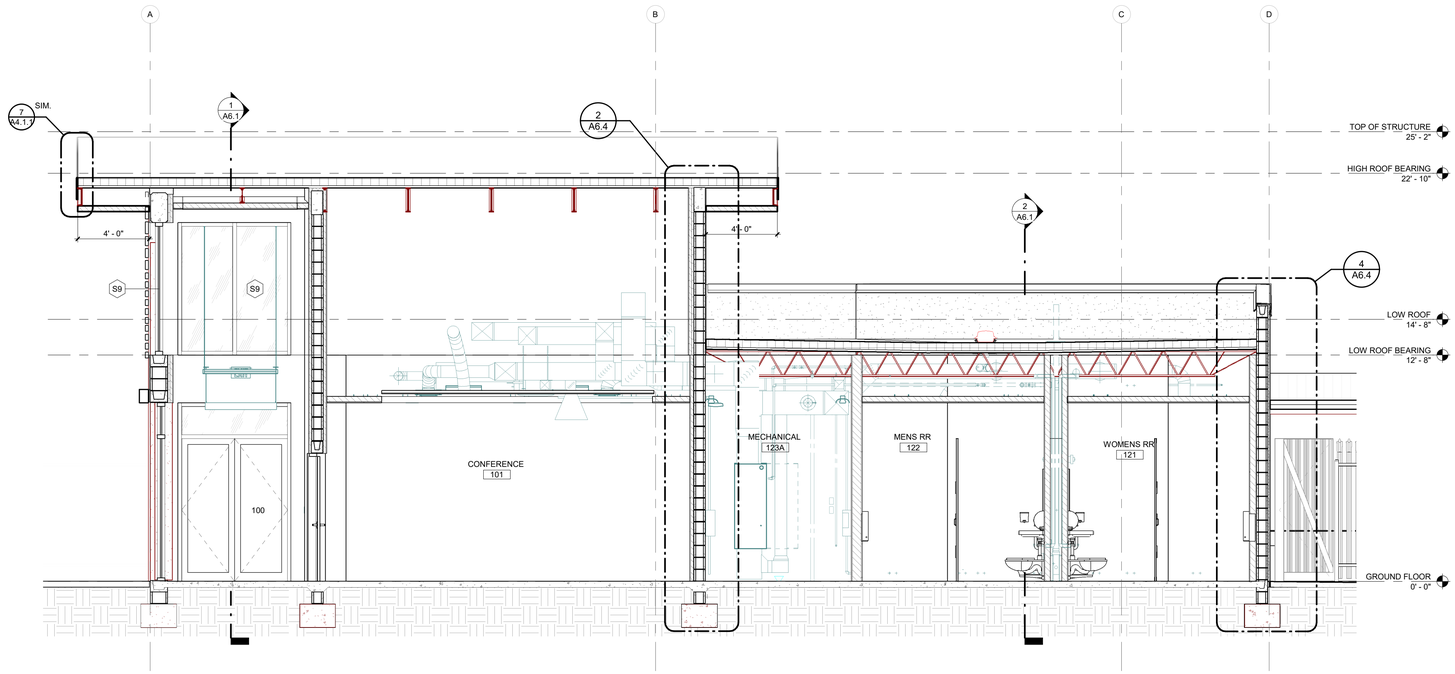


BUILDING SECTION | **2**

1/4" = 1'-0"



BUILDING SECTION | **1**

1/4" = 1'-0"

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A6.2

BUILDING SECTIONS

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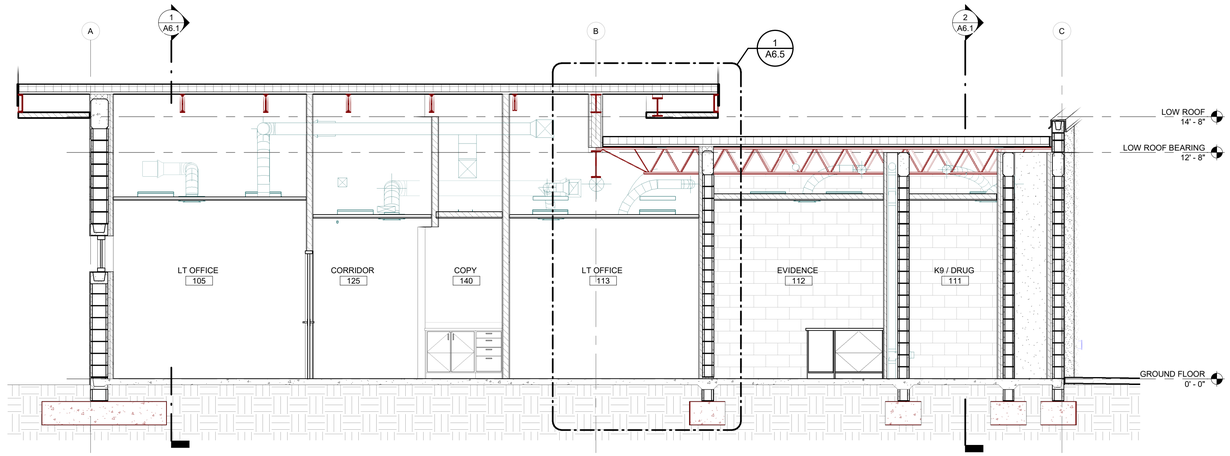
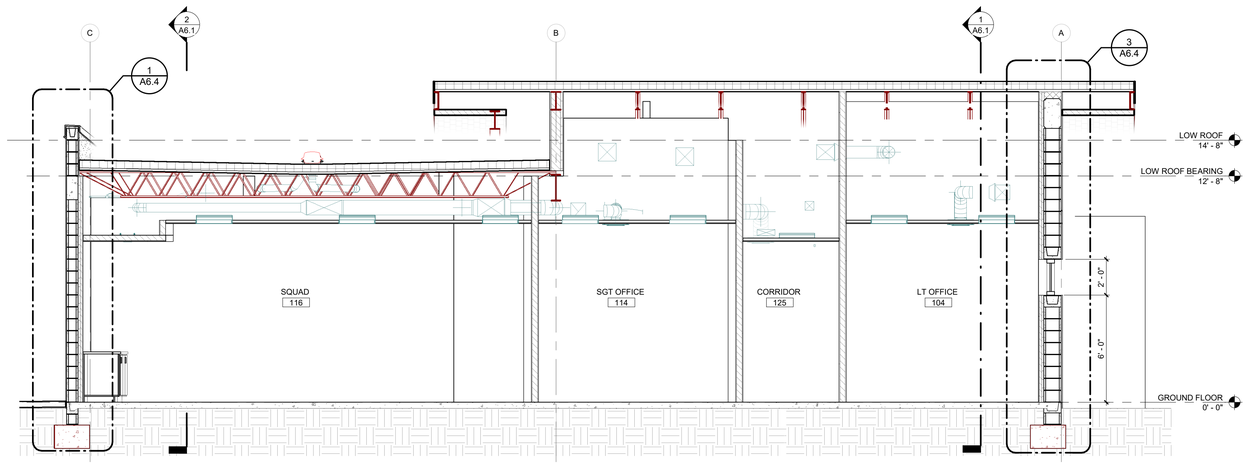


BUILDING SECTION 2

1/4" = 1'-0"



BUILDING SECTION 1

1/4" = 1'-0"

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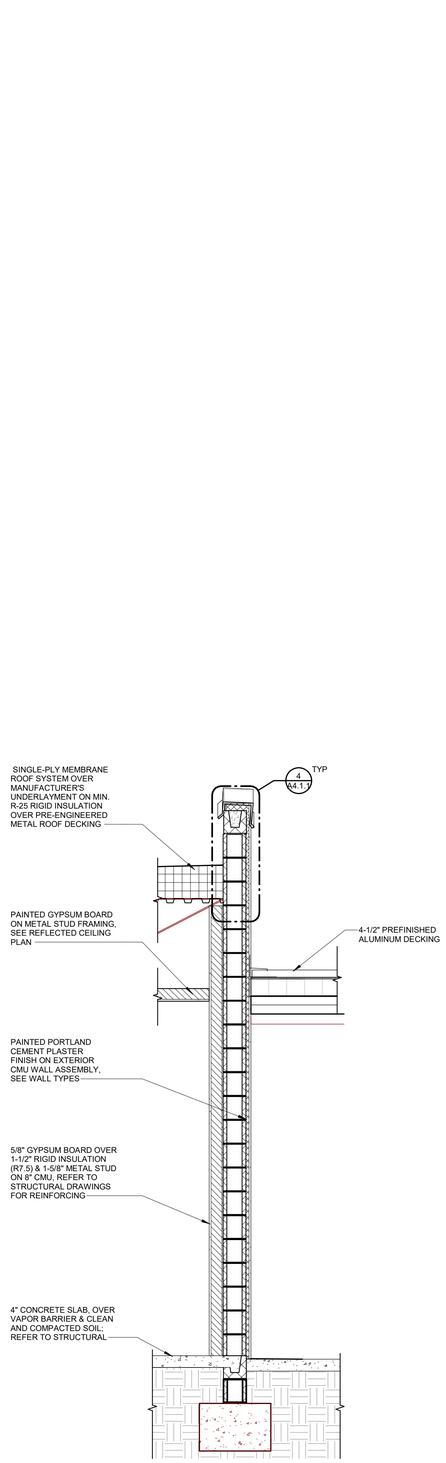
90% PERMIT SET

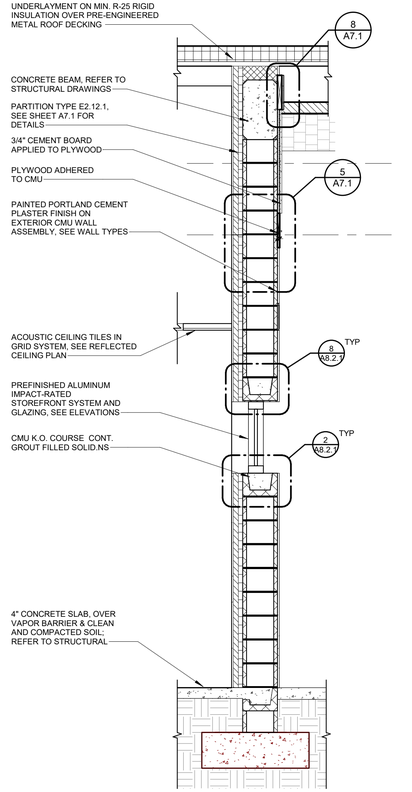
A6.3
BUILDING SECTIONS

Originals printed at 24" x 36"
scale as required



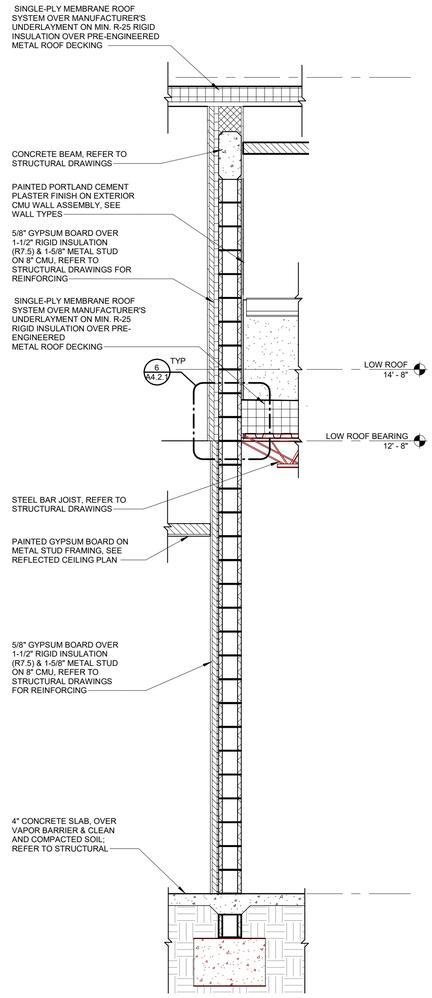
WALL SECTION AT ROOF EDGE | 4

1/2" = 1'-0"



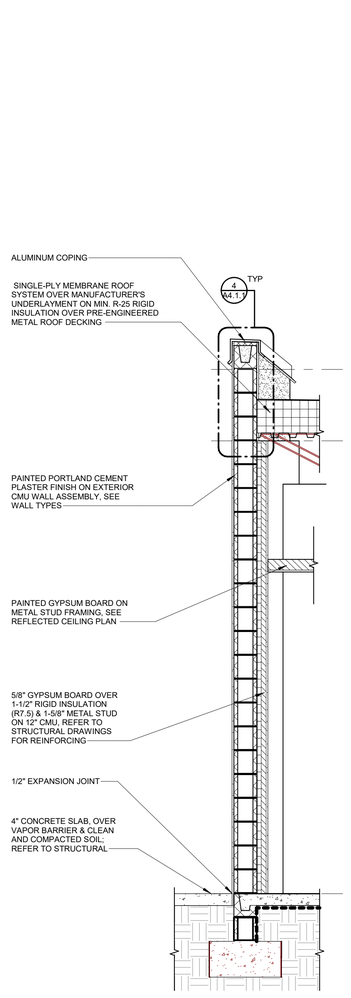
SOUTH CLERESTORY WALL SECTION | 3

1/2" = 1'-0"



WALL SECTION | 2

1/2" = 1'-0"



ORNAMENTAL WALL SECTION | 1

1/2" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	J.H.
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
AR96481
REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

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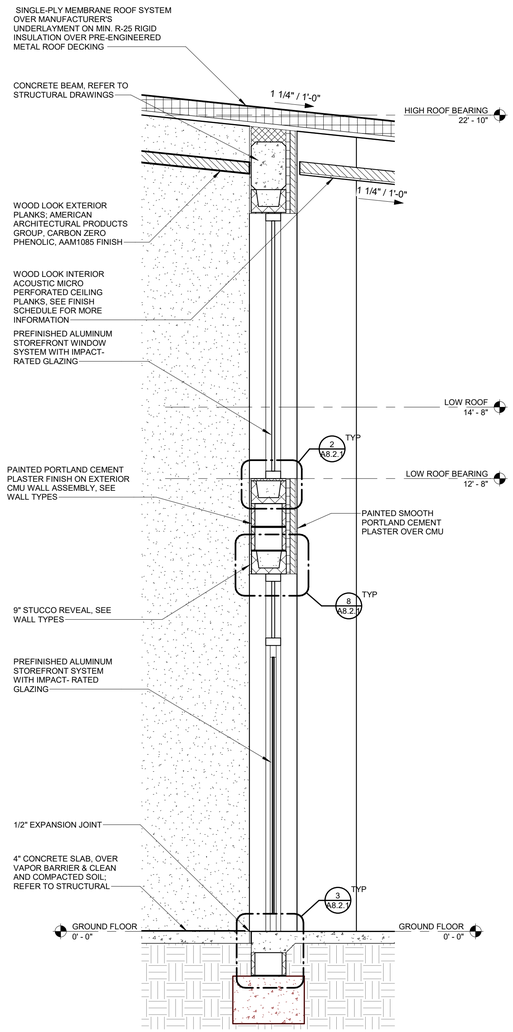
90% PERMIT SET

A6.4

WALL SECTIONS

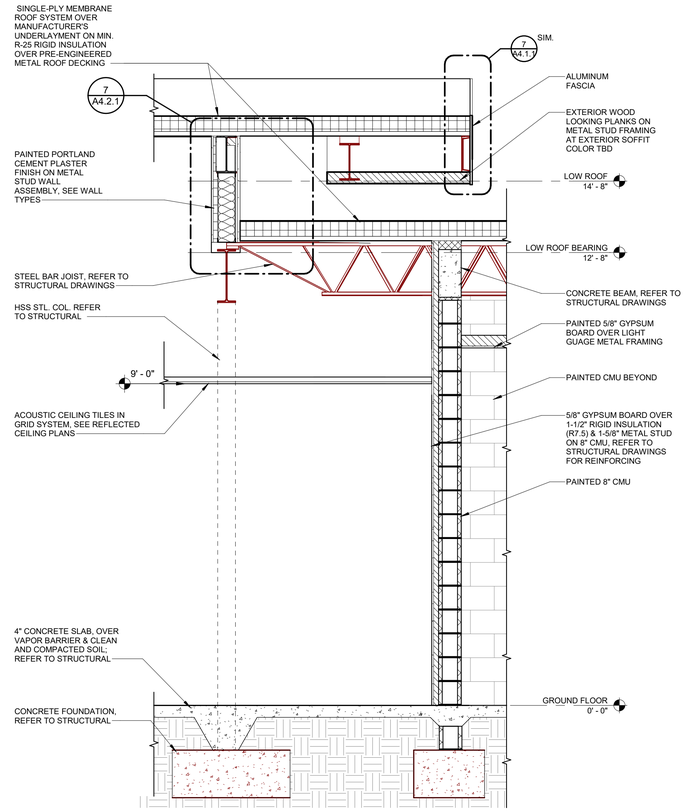
Originals printed at 24" x 36"
scale as required

Autodesk Docs://22009.01 MCSO at Premier/22009.01 MCSO_CENTRAL CD 01 10.24.rvt
2/9/2024 1:18:56 PM



CEILING TRANSITION DETAIL | 2

1/2" = 1'-0"



ROOF TRANSITION WALL SECTION | 1

1/2" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S
Checked By	J.H.
Date	02.02.24

Revisions:

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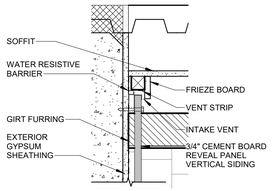
90% PERMIT SET

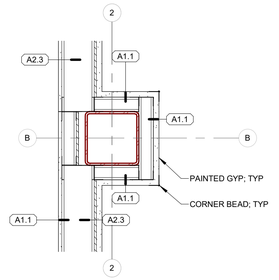
A6.5
WALL SECTIONS

Originals printed at 24" x 36"
scale as required



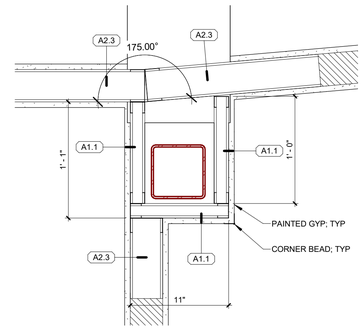
UPPER CEMENT BOARD CONNECTION DETAIL | 8

1 1/2" = 1'-0"



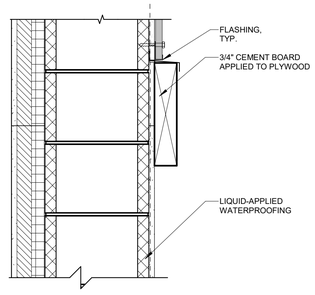
COLUMN WRAP DETAIL | 7

1 1/2" = 1'-0"



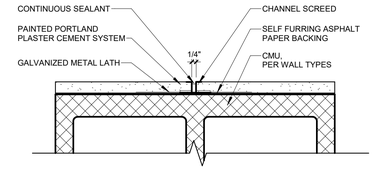
COLUMN WRAP DETAIL | 6

1 1/2" = 1'-0"



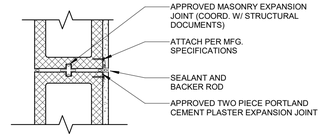
CEMENT BOARD / REVEAL CONNECTION DETAIL | 5

1 1/2" = 1'-0"



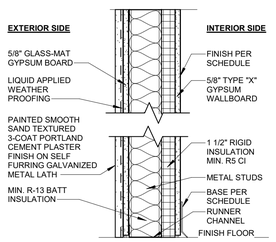
PLASTER CONTROL JOINT | 3

3" = 1'-0"

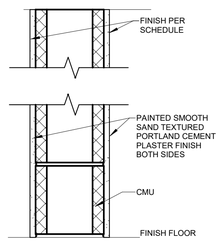


MASONRY CONTROL JOINT | 2

1 1/2" = 1'-0"

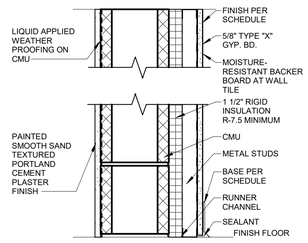


F2.6 EXTERIOR PARTITION
WITH 6" METAL STUDS



E0.8.1 EXTERIOR CMU WALL
8"x8"x16" CMU WITH PAINTED PORTLAND CEMET PLASTER, 1 SIDE

E0.8.2 EXTERIOR CMU WALL
8"x8"x16" CMU WITH PAINTED PORTLAND CEMENT PLASTER, BOTH SIDES



E1.8.1 EXTERIOR CMU WALL
8"x8"x16" CMU WITH 1-5/8" METAL STUD

E1.8.3 EXTERIOR CMU WALL
8"x8"x16" CMU WITH 3-5/8" METAL STUD

E1.12.1 EXTERIOR CMU WALL
12"x8"x16" CMU WITH 1-5/8" METAL STUD

E2.12.1 EXTERIOR CMU WALL
12"x8"x16" CMU WITH 1-5/8" METAL STUD IN LIEU OF PAINTED PLASTER USE METAL WALL PANELS

PARTITION TYPES NOTES

1. PARTITION TYPES ARE INDICATED ON THE FLOOR PLANS.

2. ALL PARTITIONS SHALL EXTEND FROM FLOOR SLAB OR DECK TO THE UNDERSIDE OF THE STRUCTURAL DECK TO ACHIEVE COMPLETE CLOSURE, UNLESS NOTED OTHERWISE.

3. CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINISHING OF GYPSUM BOARD FOR FULL HEIGHT TO STRUCTURE ABOVE, SHALL BE IN ACCORDANCE WITH U.L. SYSTEM ASSEMBLY OR OTHER APPROVED ASSEMBLY SYSTEM TO ACHIEVE THE RATING INDICATED.

4. PROVIDE FULL HEIGHT ACOUSTICAL SOUND BATT INSULATION AT ALL INTERIOR METAL STUD PARTITIONS, UNLESS NOTED OTHERWISE. SOUND ISOLATION PARTITIONS SHALL BE SEALED FULL HEIGHT. TAPE AND FINISH ALL GYPSUM BOARD JOINTS AND FASTENERS, PROVIDE SEALANT AT PERIMETER AND AT ALL PENETRATIONS.

5. WHERE WOOD BLOCKING IS REQUIRED IN NON-COMBUSTIBLE CONSTRUCTION, PROVIDE FIRE-RETARDANT TREATED WOOD BLOCKING FOR PARTITION MOUNTED EQUIPMENT AND CASEWORK.

6. PARTITION TYPES DESCRIBE THE PRIMARY MEMBER AND SHEATHING. REFER TO FINISH SCHEDULE FOR ALL PARTITION FINISH DESIGNATIONS.

7. PROVIDE TYPE 'WR' WATER RESISTANT GYPSUM BACKING BOARD IN ALL WET AREAS SUCH AS TOILET, LOCKER, AND SHOWER ROOMS. PROVIDE 5/8" CEMENTITIOUS BACKING BOARD AT ALL CERAMIC TILE FINISHES TO ALIGN WITH 5/8" TYPE 'WR' GYPSUM BOARD ABOVE.

8. PROVIDE SLIP JOINT CONNECTIONS AT THE TOPS OF ALL PARTITIONS WHICH INTERSECT THE STRUCTURE ABOVE. PROVIDE FIRE SAFING AT ALL SLIP JOINT CONNECTIONS IN FIRE RATED PARTITIONS.

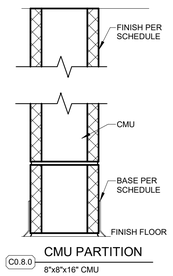
9. PROVIDE GYPSUM BOARD CONTROL JOINTS WHERE DESIGNATED ON THE INTERIOR ELEVATIONS AND ANYWHERE THERE IS A CONTINUOUS RUN OF GYPSUM BOARD THAT IS GREATER THAN 30'-0" IN LENGTH. CONFIRM THE LOCATION OF ADDITIONAL CONTROL JOINTS WITH THE ARCHITECT PRIOR TO INSTALLATION.

LIGHT GAUGE STEEL GENERAL NOTE

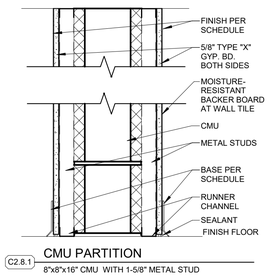
LIGHT GAUGE STEEL EXTERIOR AND, WHERE REQUIRED, INTERIOR WALL AND CEILING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER. DELEGATED ENGINEER SHALL POSSESS CURRENT PROFESSIONAL LICENSURE IN THE JURISDICTION OF THE PROJECT, AND SHALL MAINTAIN MINIMUM LIABILITY INSURANCE OF $1,000,000.

EXTERIOR WALL INSULATION

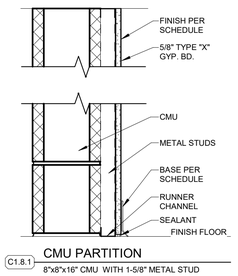
PROVIDE FULL HEIGHT RIGID OR BATT INSULATION TO CREATE A COMPLETE THERMAL ENCLOSURE. ALL 1-1/2" RIGID INSULATION IS TO BE SEMI-PERMEABLE AND NON-FACED. INSULATION TO EXTEND TO UNDERSIDE OF STRUCTURE OR DECK AS INDICATED ON BUILDING AND/OR WALL SECTIONS. ALL INSULATION SHALL BE COVERED BY MIN 5/8" GYPSUM BOARD.



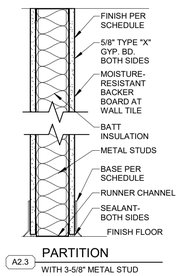
C0.8.0 CMU PARTITION
8"x8"x16" CMU



C2.8.1 CMU PARTITION
8"x8"x16" CMU WITH 1-5/8" METAL STUD

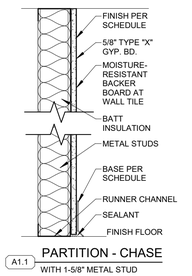


C1.8.1 CMU PARTITION
8"x8"x16" CMU WITH 1-5/8" METAL STUD



A2.3 PARTITION
WITH 3-5/8" METAL STUD

A2.6 PARTITION
WITH 6" METAL STUD



A1.1 PARTITION - CHASE
WITH 1-5/8" METAL STUD

A1.3 PARTITION - CHASE
WITH 3-5/8" METAL STUD

WALL TYPES | 1

1 1/2" = 1'-0"

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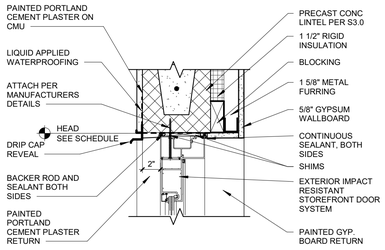
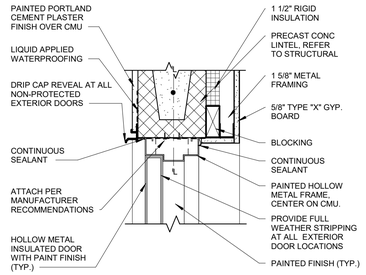
90% PERMIT SET

A7.1
WALL TYPES



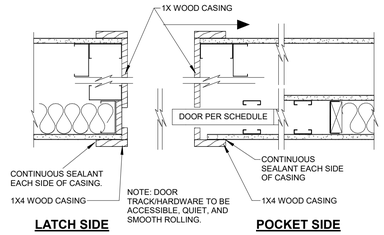
EXTERIOR STOREFRONT DOOR HEAD @ CMU DETAIL | 10

1 1/2" = 1'-0"



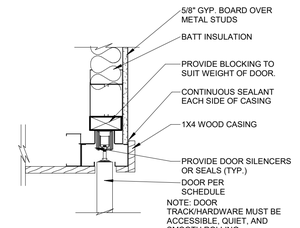
EXTERIOR H.M. DOOR HEAD @ CMU DETAIL | 9

1 1/2" = 1'-0"



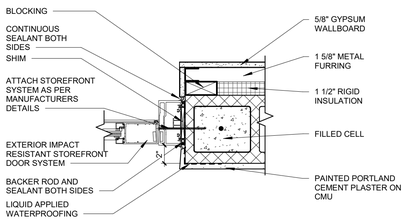
POCKET DOOR JAMB DETAIL | 8

1 1/2" = 1'-0"



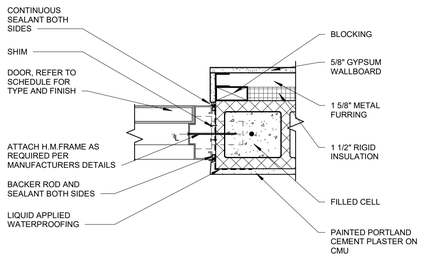
POCKET DOOR HEAD DETAIL | 7

1 1/2" = 1'-0"



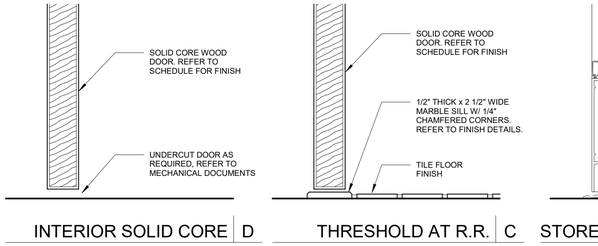
EXTERIOR STOREFRONT DOOR JAMB @ CMU DETAIL | 6

1 1/2" = 1'-0"



EXTERIOR H.M. DOOR JAMB @ CMU DETAIL | 5

1 1/2" = 1'-0"

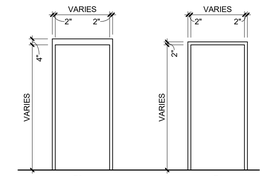


INTERIOR SOLID CORE | D

THRESHOLD AT R.R. | C

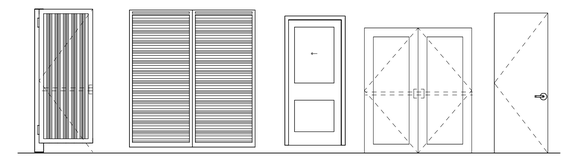
STOREFRONT THRESHOLD | B

H.M. DOOR THRESHOLD | A



DOOR FRAMES

1/4" = 1'-0"

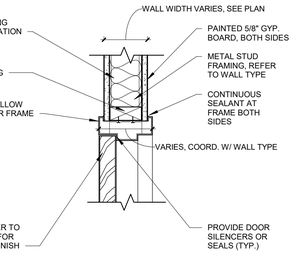


DOOR LEGEND

1/4" = 1'-0"

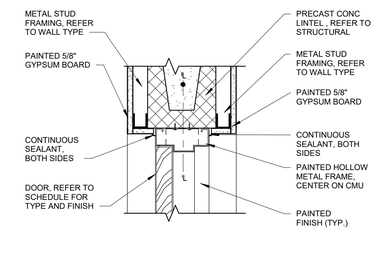
DOOR SCHEDULE

Door #	Type Mark	Width	Height	Thickness	Door Mat'l	Door Finish	Frame Type	Frame Mat'l	Frame Finish	Head Detail	Jamb Detail	Comments
100	D2	5' - 11"	8' - 0"		ALUM/GLASS		SF	ALUM	FACTORY	10/A8.1	6/A.8.1	
100A	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	3/A8.1	1/A.8.1	
100B	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	3/A8.1	1/A.8.1	
101	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	3/A8.1	1/A.8.1	ACCESS CONTROL
101A	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
102	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
103	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
104	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
105	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
106	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
107	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
108	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
109	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
110	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
111	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F2	H.M.	PAINT	3/A8.1	1/A.8.1	ACCESS CONTROL
112	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F2	H.M.	PAINT	3/A8.1	1/A.8.1	ACCESS CONTROL
113	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
114	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
115	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
116A	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F2	H.M.	PAINT	9/A8.1	5/A.8.1	ACCESS CONTROL
117	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
118	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
119	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
120	D3	3' - 0"	7' - 0"	1 3/8"	S.C. WOOD	STAIN	FACTORY	FACTORY	FACTORY	8/A8.1	7/A.8.1	
121	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
122	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
123	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
123A	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
124	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
125	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F2	H.M.	PAINT	9/A8.1	5/A.8.1	ACCESS CONTROL
125A	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	PAINT	F2	H.M.	PAINT	9/A8.1	5/A.8.1	ACCESS CONTROL
125B	D1	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	PAINT	F1	H.M.	PAINT	4/A8.1	2/A.8.1	
126	D4	12' - 6 1/2"	7' - 7"	2"		PAINT						
127	D5	3' - 0"	8' - 0"	2"	STEEL	PAINT	FACTORY	FACTORY	FACTORY			ACCESS CONTROL



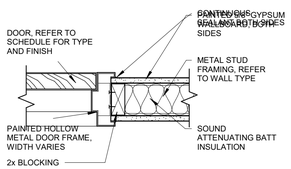
INTERIOR H.M. DOOR HEAD @ METAL STUDS DETAIL | 4

1 1/2" = 1'-0"



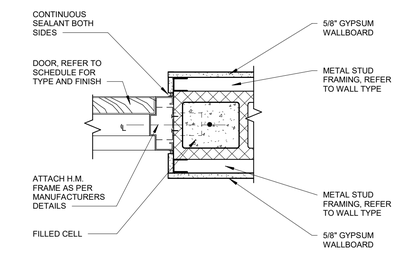
INTERIOR H.M. DOOR HEAD @ CMU DETAIL | 3

1 1/2" = 1'-0"



INTERIOR H.M. DOOR JAMB @ METAL STUD DETAIL | 2

1 1/2" = 1'-0"



INTERIOR H.M. DOOR JAMB @ CMU DETAIL | 1

1 1/2" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S
Checked By	J.H.
Date	02.02.24

Revisions:

STATE OF FLORIDA
Stuart A. Henderson
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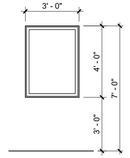
90% PERMIT SET

A8.1

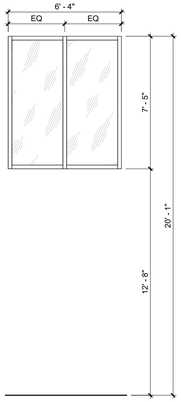
DOOR SCHEDULE, TYPES & DETAILS

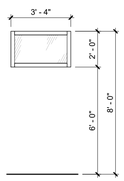
Originals printed at 24" x 36" scale as required



INTERIOR STOREFRONT ELEVATION | **S11**

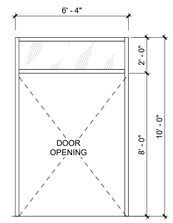
1/4" = 1'-0"





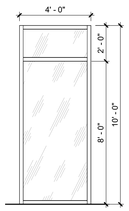
EXTERIOR STOREFRONT ELEVATION | **S10**

1/4" = 1'-0"



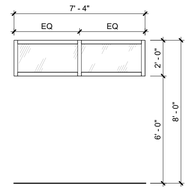
EXTERIOR STOREFRONT ELEVATION | **S9**

1/4" = 1'-0"



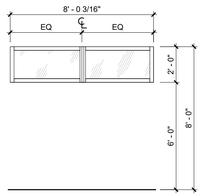
EXTERIOR STOREFRONT ELEVATION | **S8**

1/4" = 1'-0"



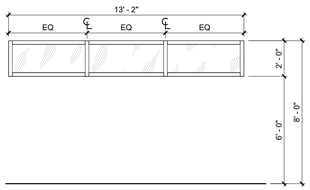
EXTERIOR STOREFRONT ELEVATION | **S7**

1/4" = 1'-0"



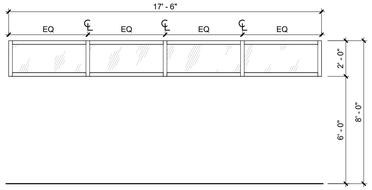
EXTERIOR STOREFRONT ELEVATION | **S6**

1/4" = 1'-0"



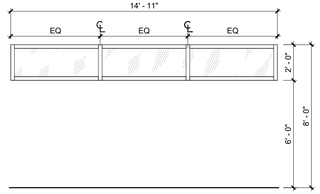
EXTERIOR STOREFRONT ELEVATION | **SF5**

1/4" = 1'-0"



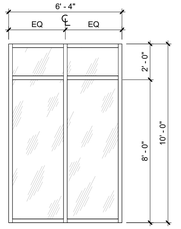
EXTERIOR STOREFRONT ELEVATION | **S4**

1/4" = 1'-0"



EXTERIOR STOREFRONT ELEVATION | **S3**

1/4" = 1'-0"



EXTERIOR STOREFRONT ELEVATION | **S2**

1/4" = 1'-0"

EXTERIOR STOREFRONT ELEVATION | **S1**

1/4" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S
Checked By	J.H.
Date	02.02.24

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A8.2
STOREFRONT ELEVATIONS

Originals printed at 24" x 36"
scale as required

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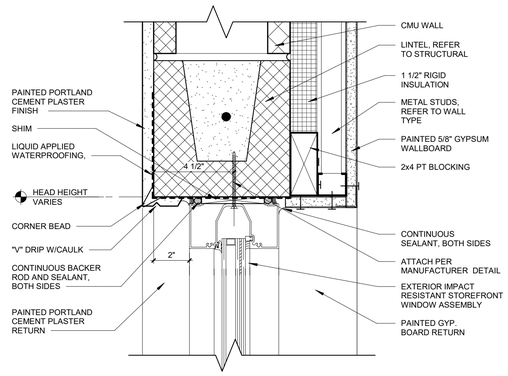
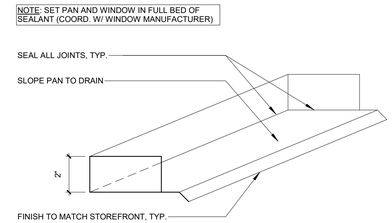


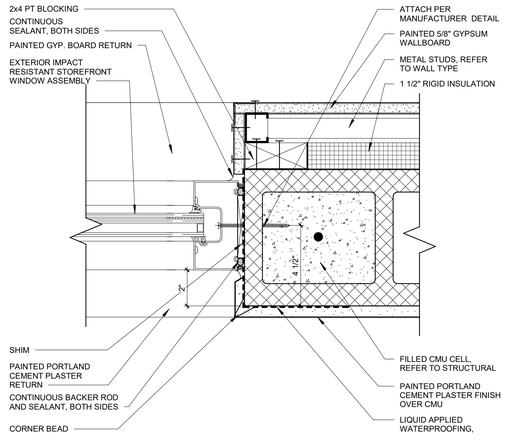
EXTERIOR STOREFRONT HEAD @ CMU DETAIL | 8

3" = 1'-0"



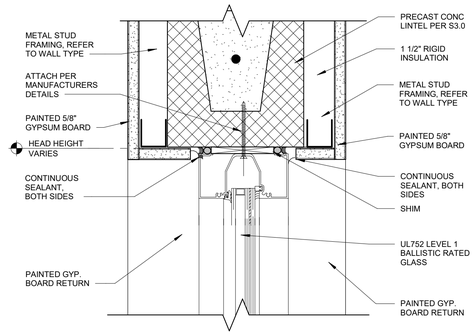
SILL PAN DETAIL | 7

3" = 1'-0"



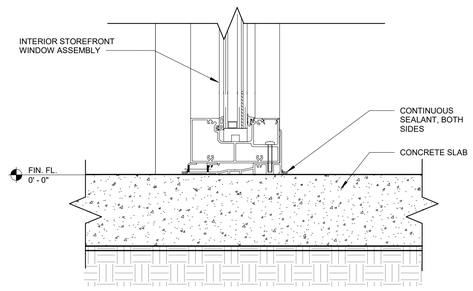
EXTERIOR STOREFRONT JAMB @ CMU DETAIL | 5

3" = 1'-0"



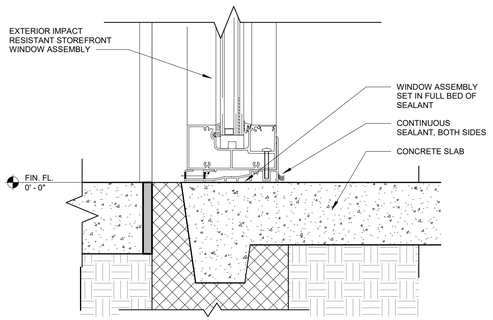
INTERIOR STOREFRONT HEAD DETAIL @ CMU | 4

3" = 1'-0"



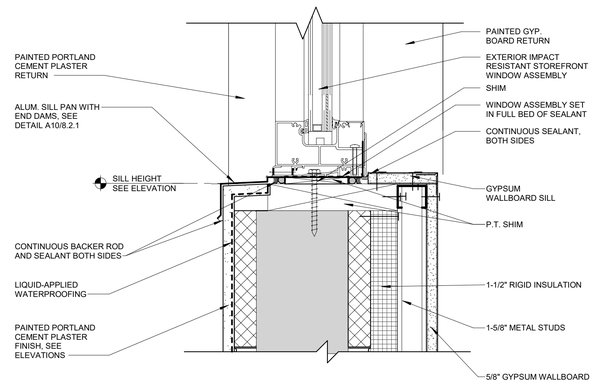
INTERIOR STOREFRONT SILL @ SLAB DETAIL | 6

3" = 1'-0"



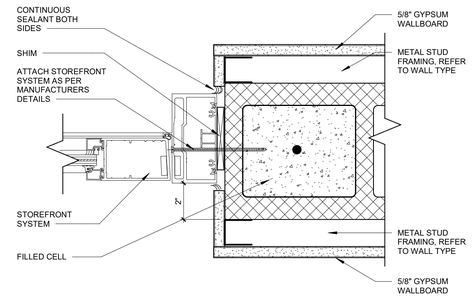
EXTERIOR STOREFRONT SILL @ SLAB DETAIL | 3

3" = 1'-0"



EXTERIOR STOREFRONT SILL @ CMU DETAIL | 2

3" = 1'-0"



INTERIOR STOREFRONT JAMB DETAIL @ CMU | 1

3" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	J.H.
Date	02.02.24

Revisions:

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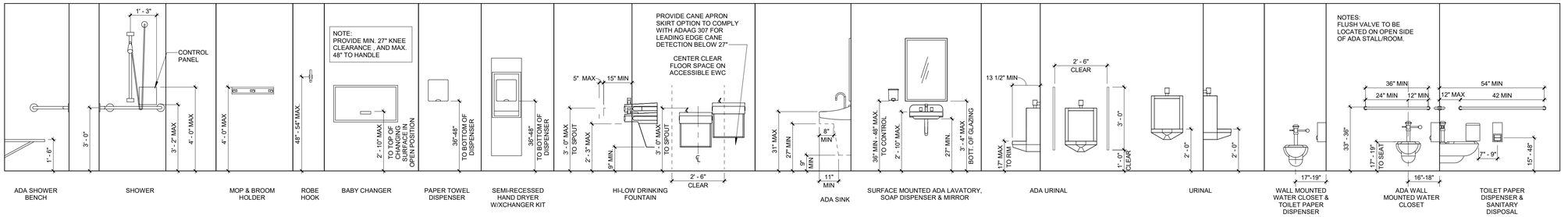
90% PERMIT SET

A8.2.1

STOREFRONT AND GLAZING DETAILS

Originals printed at 24" x 36"
scale as required

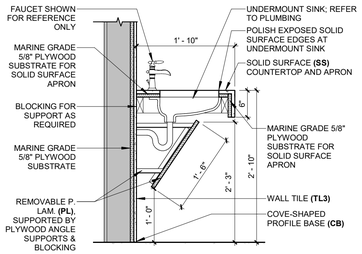


RESTROOM TYPICAL ELEVATIONS

3/8" = 1'-0"

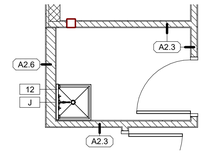
RESTROOM ACCESSORY SCHEDULE			RESTROOM FIXTURE SCHEDULE		
No	ACCESSORY	MANUFACTURER	No	FIXTURE	MANUFACTURER
1	ADA 48" GRAB BAR	BOBRICK B-6806 SERIES	A	ADA TOILET	REFER TO PLUMBING DRAWINGS
2	ADA 36" GRAB BAR	BOBRICK B-6806 SERIES	B	TOILET	REFER TO PLUMBING DRAWINGS
3	TOILET PAPER DISPENSER - SURFACE MOUNTED	SAN JAMAR R4000TBK	C	NOT USED	
4	FEMININE DISPOSAL - SURFACE MOUNTED	RUBBERMAID 6140WHI	D	URINAL	REFER TO PLUMBING DRAWINGS
5	COAT HOOK WITH BUMPER	BOBRICK B-212	E	SINK	REFER TO PLUMBING DRAWINGS
6	24" X 36" FRAMED MIRROR	BOBRICK B-165 SERIES	F	WALL MOUNT SINK	REFER TO PLUMBING DRAWINGS
7	SOAP DISPENSER - SURFACE MOUNTED	MICRELL 800 SERIES	G	FAUCET	REFER TO PLUMBING DRAWINGS
8	OVERHEAD-BRACED TOILET PARTITION	REFER TO FINISH LEGEND	H	ELEC. WATER COOLER	REFER TO PLUMBING DRAWINGS
9	NOT USED		J	MOP SINK	REFER TO PLUMBING DRAWINGS
10	HAND DRYER	EXCEL XLERATOR	K	METAL LOCKERS	REFER TO PLUMBING DRAWINGS
11	BABY CHANGER & LINERS - SURFACE MOUNTED	KOALA KARE KB200-05	L	ADA HANDHELD SHOWER HEAD	REFER TO PLUMBING DRAWINGS
12	MOP AND BROOM HOLDER	BOBRICK B-223 x 36			
13	SAFETY COVER FOR EXPOSED PIPES	SEE SPECIFICATIONS			
14	ADA SHOWER GRAB BAR	BOBRICK B-6861			
15	SHOWER CURTAIN, ROD AND HOOKS	BOBRICK B-204-2, B-207 AND B-204-1			
16	ADA SHOWER BENCH	BOBRICK B-5181			
17	COAT HOOK	BOBRICK B-6707			

NOTE: PROVIDE BLOCKING AT ALL WALL MOUNT FIXTURE ACCESSORIES



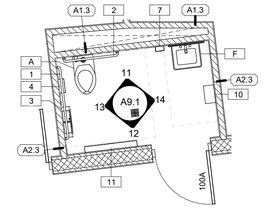
COUNTER AT LAVATORY | 16

3/4" = 1'-0"



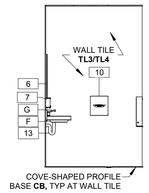
ENLARGED JANITOR PLAN | 15

1/4" = 1'-0"



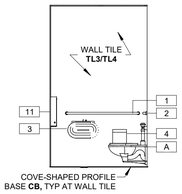
ENLARGED SINGLE RESTROOM | 10

1/4" = 1'-0"



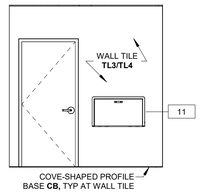
INTERIOR ELEVATION | 14

1/4" = 1'-0"



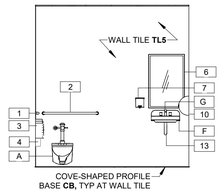
INTERIOR ELEVATION | 13

1/4" = 1'-0"



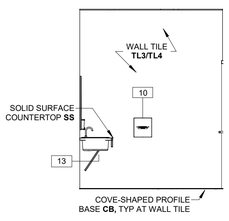
INTERIOR ELEVATION | 12

1/4" = 1'-0"



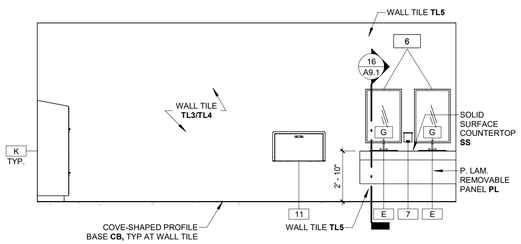
INTERIOR ELEVATION | 11

1/4" = 1'-0"



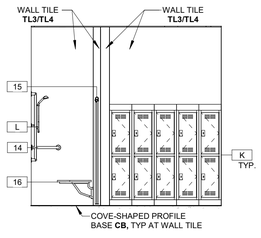
INTERIOR ELEVATION | 9

1/4" = 1'-0"



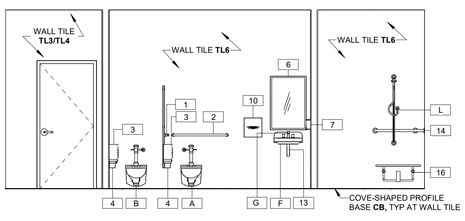
INTERIOR ELEVATION | 8

1/4" = 1'-0"



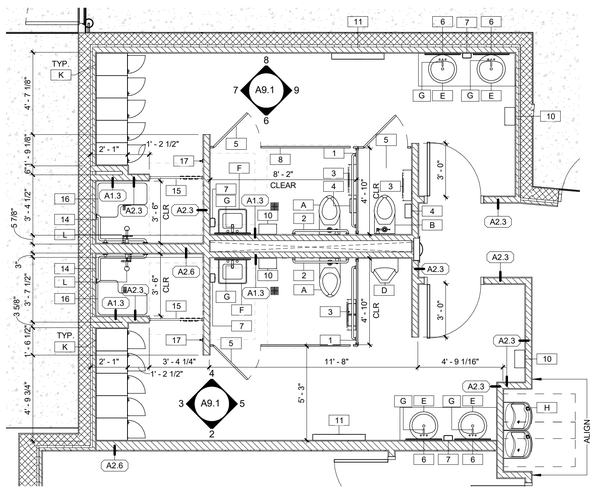
INTERIOR ELEVATION | 7

1/4" = 1'-0"



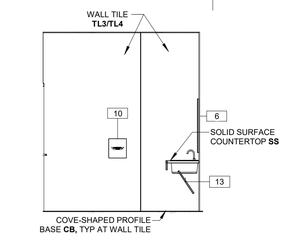
INTERIOR ELEVATION | 6

1/4" = 1'-0"



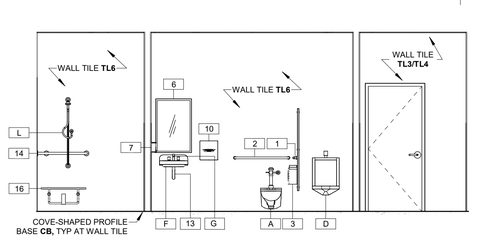
ENLARGED RESTROOM BLOCK | 1

1/4" = 1'-0"



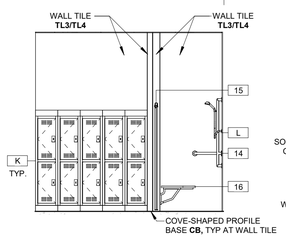
INTERIOR ELEVATION | 5

1/4" = 1'-0"



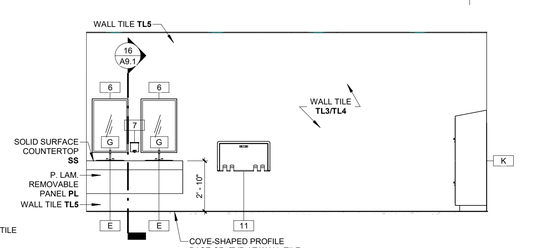
INTERIOR ELEVATION | 4

1/4" = 1'-0"



INTERIOR ELEVATION | 3

1/4" = 1'-0"



INTERIOR ELEVATION | 2

1/4" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	A.S
Checked By	J.H.
Date	02.02.24

Revisions:

STATE OF FLORIDA — Stuart A. Henderson — AR96481 — REGISTERED ARCHITECT

Stuart A. Henderson
AR 96481

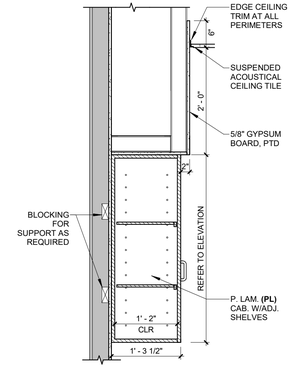
"To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and applicable fire safety standards as determined by local authority in accordance with Chapter 553 and 663 of Florida Statutes."

90% PERMIT SET

A9.1

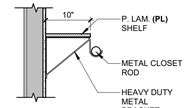
ENLARGED PARTIAL FLOOR PLANS & ELEVATIONS

Originals printed at 24" x 36"
scale as required



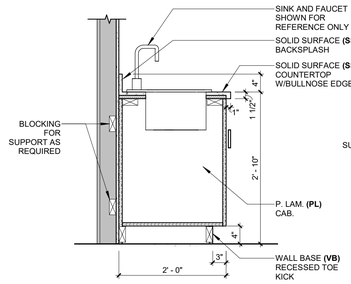
UPPER CABINET | 13

3/4" = 1'-0"



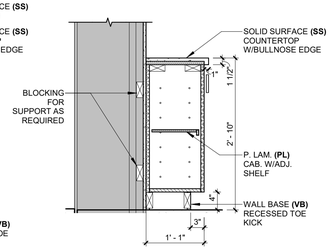
SHELF AND ROD | 14

3/4" = 1'-0"



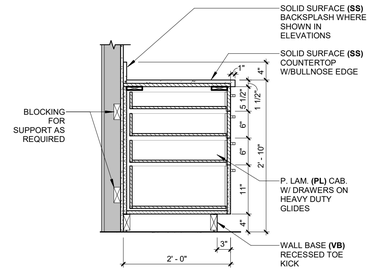
BASE CABINET AT SINK | 12

3/4" = 1'-0"



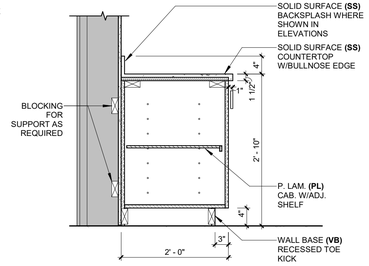
BASE CABINET - NARROW | 11

3/4" = 1'-0"



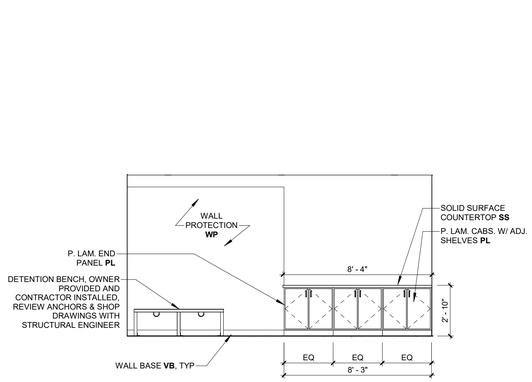
BASE CABINET W/ DRAWERS | 10

3/4" = 1'-0"



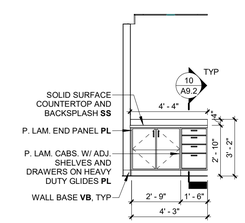
BASE CABINET | 9

3/4" = 1'-0"



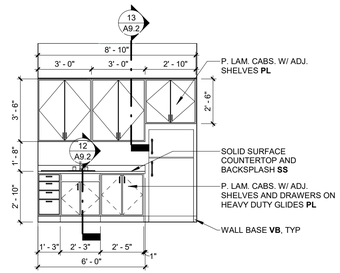
SQUAD ELEVATION | 8

1/4" = 1'-0"



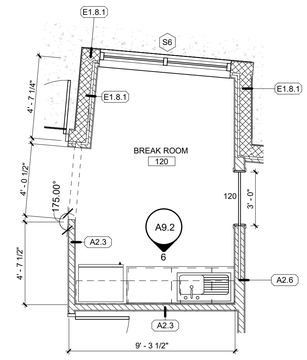
COPIER ELEVATION | 7

1/4" = 1'-0"



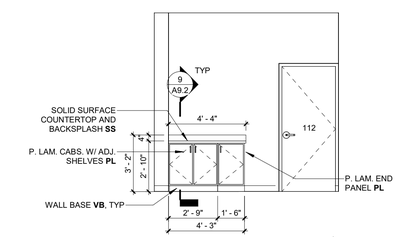
BREAK ROOM ELEVATION | 6

1/4" = 1'-0"



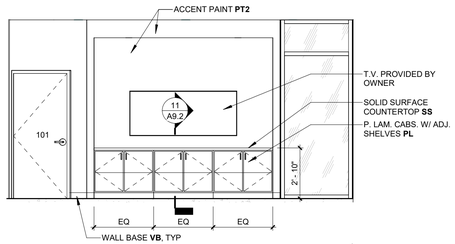
ENLARGED BREAK PLAN | 5

1/4" = 1'-0"



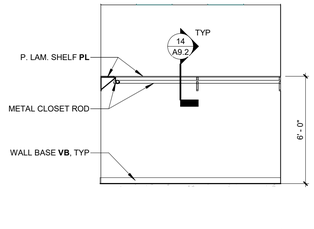
EVIDENCE ELEVATION | 4

1/4" = 1'-0"



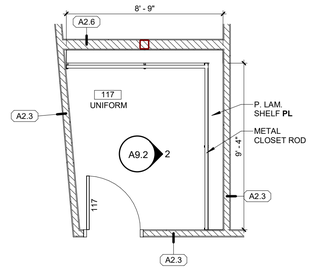
CONFERENCE ELEVATION | 3

1/4" = 1'-0"



UNIFORM SOUTH ELEVATION | 2

1/4" = 1'-0"



ENLARGED UNIFORM PLAN | 1

1/4" = 1'-0"

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RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	J.H.
Date	02.02.24

Revisions:

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A9.2

ENLARGED PARTIAL FLOOR PLANS & ELEVATIONS

Originals printed at 24" x 36" scale as required

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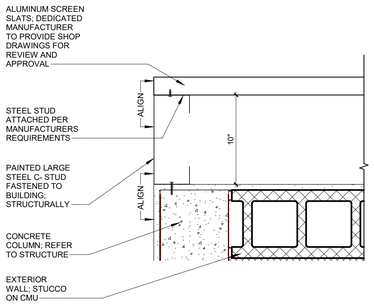
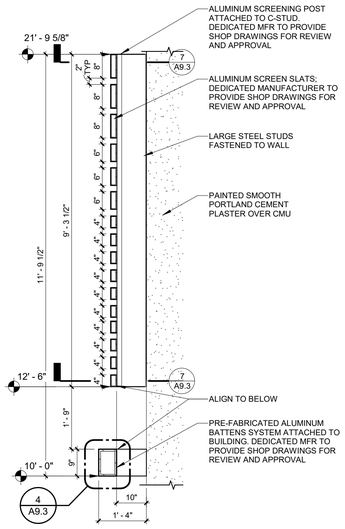


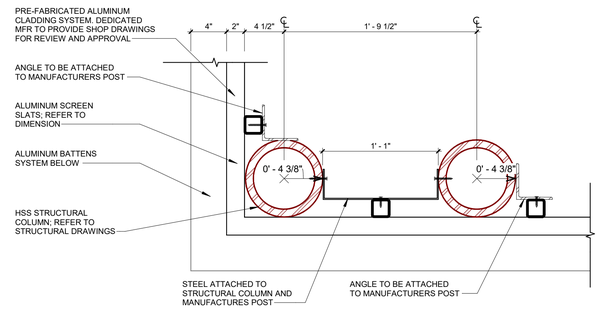
SCREEN ATTACHMENT DETAIL | 7

1 1/2" = 1'-0"



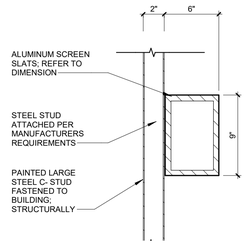
SCREEN WALL SECTION DETAIL | 6

1/2" = 1'-0"



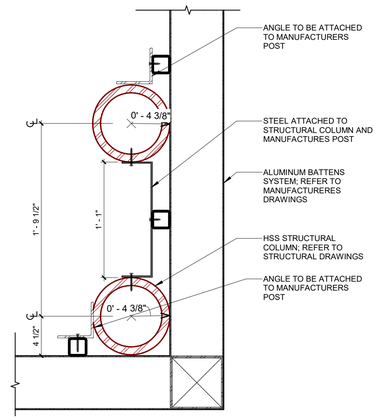
COLUMN METAL PANEL CONNECTION | 5

1 1/2" = 1'-0"



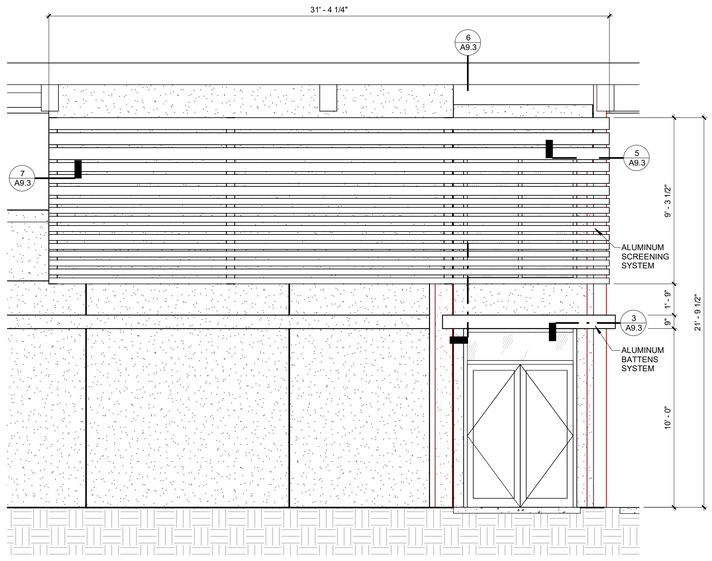
CLADDING ATTACHMENT DETAIL | 4

1 1/2" = 1'-0"



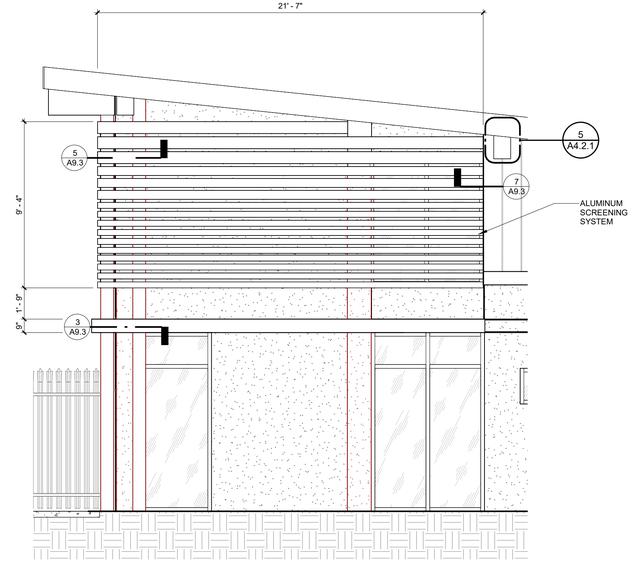
CLADDING ATTACHMENT DETAIL | 3

1 1/2" = 1'-0"



WEST SCREEN WALL ELEVATION | 2

1/4" = 1'-0"



SOUTH SCREEN WALL ELEVATION | 1

1/4" = 1'-0"

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PARKWAY AND UIHLEIN ROAD

Project No.	22009.01
Drawn By	BG
Checked By	JW
Date	02.02.24

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A9.3

SCREEN PANEL PLANS, SECTIONS & DETAILS

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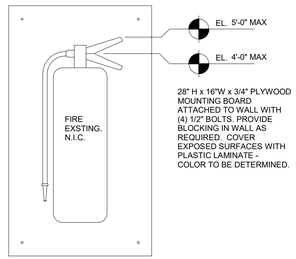
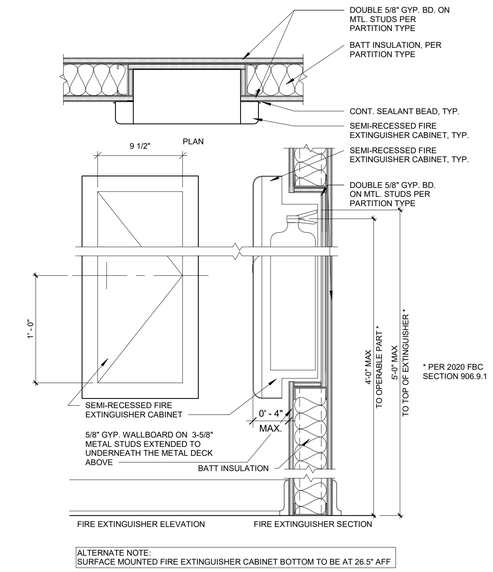


WALL MOUNTED FIRE EXT. | 3

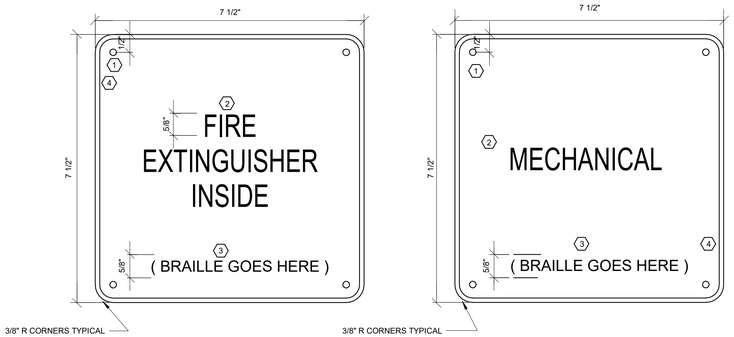
1 1/2" = 1'-0"



ALTERNATE NOTE:
SURFACE MOUNTED FIRE EXTINGUISHER CABINET BOTTOM TO BE AT 26.5" AFF

FIRE EXTINGUISHER CABINET | 2

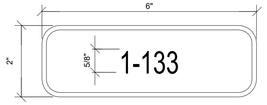
1 1/2" = 1'-0"



1. 3/16" SCREW HOLES, 1/2" O.C.
2. SANS SERIF TYPE (ROOM NAME)- 5/8" HIGH (MIN.). CENTER JUSTIFIED
3. GRADE 2 BRAILLE STATING SPELLING "MECHANICAL", CENTER JUSTIFIED
4. 1/8" THICK BORDER

1. 3/16" SCREW HOLES, 1/2" O.C.
2. SANS SERIF TYPE (ROOM NAME)- 5/8" HIGH (MIN.). CENTER JUSTIFIED
3. GRADE 2 BRAILLE STATING SPELLING "MECHANICAL", CENTER JUSTIFIED
4. 1/8" THICK BORDER

1. 1/8" THICK BORDER
2. INTERNATIONAL 'DISABLED' SYMBOL
3. INTERNATIONAL 'MEN' SYMBOL
4. 3/16" SCREW HOLES, 1/2" O.C.
5. SANS SERIF TYPE (ROOM NAME)- 5/8" HIGH (MIN.) CENTER JUSTIFIED
6. GRADE 2 BRAILLE STATING SPELLING "MEN", CENTER JUSTIFIED



LETTERS AND NUMERALS OF DOE FISH NUMBERS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE. RAISED CHARACTERS SHALL BE 5/8" (16mm) HIGH BUT NO HIGHER THAN 2" (50mm).
PROVIDE FOR ALL ROOMS AND MOUNT THEM PER DETAIL 1C/A11.2. DOORS NOT REQUIRING ROOM NUMBERS SHALL BE DOORS IN OPERABLE PARTITIONS AND DOORS BETWEEN ADJACENT CLASSROOMS.

ALL SIGNAGE COVERED IN THE SIGNAGE SCHEDULE SHALL BE IN ACCORDANCE WITH FL. BLDG. CODE-2020 ACCESSIBILITY SECTION 703:
LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" (16mm) HIGH BUT NO HIGHER THAN 2" (50mm). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6"(152mm) MIN. IN HEIGHT.

SIGNAGE FINISH AND CONTRAST PER FL. BLDG. CODE-2014 ACCESSIBILITY SECTION 703:
CHARACTERS & BACKGROUND OF SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. "CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND. COLOR TO BE SELECTED BY ARCHITECT / INTERIOR DESIGNER AND OWNER.

ROOM SIGN DETAIL | 1

6" = 1'-0"

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A10
INTERIOR ELEVATIONS & DETAILS

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STRUCTURAL NOTES:

ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF BENNETT & PLESS, INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF BENNETT & PLESS, INC. ENGINEER, ENGINEER OF RECORD, AND DELEGATED ENGINEER SHALL BE LICENSED AS A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.

GENERAL NOTES:

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2023 EDITION. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

ROOF JOISTS:
LIVE LOAD - 20 psf.
DEAD LOAD - 25 psf.
- 5 psf TO RESIST UPLIFT

WIND:
Vult=165 MPH, Vasd=128 MPH EXPOSURE C, RISK CATEGORY IV, INT. PRESS. COEFF. ±0.18 THIS STRUCTURE IS DESIGNED AS AN ENCLOSED STRUCTURE.

SNOW & SEISMIC (FLORIDA):
IN ACCORDANCE WITH CHAPTER 1 SECTION 101.2 OF THE 2023 FLORIDA BUILDING CODE, SEISMIC AND SNOW LOADS WERE NOT UTILIZED FOR THIS PROJECT:
"CODE REQUIREMENTS THAT ADDRESS SNOW LOADS AND EARTHQUAKE LOADS ARE PERVASIVE; THEY ARE LEFT IN PLACE BUT SHALL NOT BE UTILIZED OR ENFORCED BECAUSE FLORIDA HAS NO SNOW LOAD OR EARTHQUAKE THREAT."

SHOP DRAWING REVIEW:

SHOP DRAWINGS WILL BE PROVIDED FOR ALL WORK AND WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND OWNER'S REP PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED. SHOP DRAWING SUBMITTALS, IF NOT SUBMITTED ELECTRONICALLY, SHALL INCLUDE THREE SETS OF PRINTS. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS AS REQUIRED FOR DISTRIBUTION. IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHALL BE SUBMITTED TO B&P WITH 10 BUSINESS DAYS AS A MINIMUM TIME TO BE REVIEWED (MAXIMUM SHEET OR PAGE COUNT OF 30). IN THE CASE OF A LARGE SUBMITTAL, OR MORE THAN 1 SUBMITTAL FOR THE SAME PROJECT, AN ADDITIONAL BUSINESS DAY SHALL BE REQUIRED FOR EVERY 5 PAGES/SHEETS OVER 30. THE TIME INDICATED ABOVE IS FOR B&P'S REVIEW ONLY; IN ORDER TO MEET PROJECT SCHEDULES, THE CONTRACTOR MUST INCLUDE ENOUGH TIME FOR DELIVERY, ARCHITECTURAL REVIEW, AND OWNER'S REVIEW.

THERE SHALL BE NO DEVIATION FROM THESE STRUCTURAL CONSTRUCTION DOCUMENTS. IF THE CONTRACTOR OR PROVIDER OF THE SHOP DRAWINGS PROPOSE ANY CHANGES, THOSE CHANGES SHALL BE CLEARLY INDICATED, AND SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER SUBMITTED. ANY CHANGES NOT APPROVED OR SUBMITTED WITHOUT THE PROPER DOCUMENTATION INDICATED PREVIOUSLY, WILL RESULT IN REVISIONS BY THE ENGINEER OR ARCHITECT-OF-RECORD. THE COST FOR SAID REVISIONS, INCLUDING ENGINEERING AND ARCHITECTURAL FEES SHALL BE BORNE BY THE CONTRACTOR.

SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:

ALL SPECIALTY ENGINEERED PRODUCTS OR SYSTEMS REQUIRE SIGNED & SEALED CALCULATIONS AND FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER.

THIS INCLUDES BUT IS NOT LIMITED TO CARBON FIBER CONCRETE REINFORCING SYSTEMS, CANOPIES AND THEIR FOUNDATIONS, SPECIALTY PILE FOUNDATION SYSTEMS, PRE-ENGINEERED TRUSSES, ICF WALL SYSTEMS, ALL LIGHT GAUGE METAL STUD FRAMING SYSTEMS, ALUMINUM WALL SYSTEMS, GLAZED CURTAIN WALLS, PREFABRICATED STEEL STAIRS & RAILINGS, ARCHITECTURAL PRECAST CONCRETE ELEMENTS, STRUCTURAL PRECAST OR TILT-UP SYSTEMS, GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS, OPEN WEB STEEL JOISTS, STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING, TILT-WALL ERECTION DRAWINGS, GLULAM BEAMS, TECTUM PLANKS, PEMB, ETC.

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER.

COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE PRINT FOR RECORD.

DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

a) THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.

b) THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.

c) THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).

d) THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL NOT BE REVIEWED.

FOUNDATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 psf ON COMPACTED FILL. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

FORMWORK AND SHORING:

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

PLUMBING SLEEVE:

MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO CONSTRUCTION SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY THE ENGINEER.

EMBEDDED CONDUITS:

LOCATIONS AND SIZES OF CONDUIT MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. WITHIN SLABS, BEAMS OR WALLS, CONDUIT SHALL OCCUPY ONLY THE MIDDLE ONE THIRD OF THE MEMBER DEPTH OR THICKNESS. MAXIMUM CONDUIT O.D. FOR SINGLE CONDUITS OR SUM OF O.D.'S FOR MULTIPLE CONDUITS THAT CROSS SHALL BE NO LARGER THAN ONE THIRD THE SLAB DEPTH. PARALLEL CONDUITS SHALL BE SPACED WITH A MINIMUM OF 3 DIAMETERS CLEAR. CONDUITS SHALL BE A MINIMUM OF ONE DIAMETER AWAY FROM AND SHALL NOT INTERFERE WITH OR DISPLACE ANY REINFORCING. CONDUIT SHALL NOT BE TIED TO REINFORCING. CONDUITS SHALL NOT OCCUR WITHIN COLUMN ZONES OF SLABS AND OR TRANSFER GIRDERS. CONDUIT PLACEMENT SHALL NOT IMPAIR THE STRENGTH OF THE CONSTRUCTION AS JUDGED BY THE ENGINEER.

REINFORCING STEEL:

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

WELDED WIRE FABRIC:

TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. USE OF FLAT MANUFACTURED SHEETS IS RECOMMENDED.

CONCRETE:

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

5000psi CONCRETE BEAMS AND COLUMNS
4000psi EXTERIOR SLABS
3000psi FOR ALL OTHER CONCRETE

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE,THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

CONSTRUCTION OR CONTROL JOINTS SHALL BE PROVIDED IN SLABS ON GRADE SO THAT THE MAXIMUM AREA OF THE SLAB BETWEEN JOINTS SHALL BE 144 SQUARE FEET, OR AS SHOWN ON THE PLANS. SAW CUT CONTROL JOINTS SHALL BE MADE AS SOON AS SLAB WILL SAFELY SUPPORT MEN AND EQUIPMENT AND THE SLAB WILL NOT BE DAMAGED BY EQUIPMENT, BUT NO LATER THAN 24 HOURS. ASPECT RATIO (LONGSIDE TO SHORTSIDE OF CONCRETE AREA) SHALL NOT EXCEED 1.5. NO EMBEDDED ANGLES OR OTHER FIXED METAL ITEMS SHALL EXTEND THROUGH JOINTS, UNLESS OTHERWISE NOTED. EMBEDDED ANGLES AND OTHER FIXED METAL ITEMS SHALL BE CONTINUOUS BETWEEN CONCRETE JOINTS, UNLESS OTHERWISE NOTED. ENGINEER SHALL APPROVE LOCATION OF ALL JOINTS NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. IF ACCEPTED, PEA ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.

CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.

WATER/CEMENT RATIO FOR CONCRETE AT EXTERIOR BALCONIES OR CONCRETE EXPOSED TO WEATHER SHALL NOT EXCEED 0.40 BY WEIGHT.

CONCRETE COVER FOR REINFORCING	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER #6 THRU #18 BARS #5 BAR, W31 OR D31 WIRE, AND SMALLER	 2" 1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS AND WALLS: #11 AND SMALLER BEAMS, COLUMNS: PRIMARY REINF, TIES, STIRRUPS	 3/4" 1 1/2"

CONCRETE TESTING:

AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

A) ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP RANGE SHALL BE 3 TO 4 INCHES.

B) ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

1 AT 7 DAYS
2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.

MASONRY WALLS:

MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 psi ON THE NET AREA (f'm = 1900 psi). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. GROUT SHALL BE 2000 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476. PROVIDE HOOKED DOWELS IN FOOTINGS FOR VERTICAL REINFORCING ABOVE. LAP SPLICES 48 BAR DIAMETERS.

BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS OVER 4 FEET WIDE, AND AS SHOWN ON THE PLANS. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA REQUIRED. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. INTERSECTING WALLS SHALL BE INTERLOCKED WITH RUNNING BOND UNLESS NOTED OTHERWISE.

PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES.

WALL CONTROL JOINTS SHALL BE PROVIDED IN CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS. IF THEY ARE NOT SHOWN, LOCATE WALL CONTROL JOINTS AT 24'-0" o.c. MAXIMUM AND SHOW LOCATIONS ON SHOP DRAWINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. BOND BEAM, TIE BEAM OR KNOCK-OUT BLOCK BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.

SUBMIT PROPOSED GROUT MIX DESIGN FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. GROUT SLUMP SHALL BE BETWEEN 8 AND 11 INCHES. USE OF SUPERPLASTICIZER IS PROHIBITED.

CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS. THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING, AFTER INSPECTION. PLACE METAL LATH OR WIRE SCREEN OVER CORES NOT TO BE FILLED (SHEET METAL AND FELT PROHIBITED).

VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS. CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY VIBRATING BEFORE PLASTICITY IS LOST.

WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, THE GROUT SHALL BE PLACED IN 4 FOOT LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).

WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.

WALL CONSTRUCTION JOINTS SHALL BE SPACED @ 24'-0" O.C. MAX. WITH TYP. VERT. REINF. AT EA. SIDE OF JOINT. HORIZONTAL JOINT REINF. SHALL TERMINATE 2" FROM EA. SIDE OF JOINT. BOND BEAM/TIE BEAM REINF. SHALL BE CONTINUOUS THROUGH WALL C.J.

INTERIOR CMU WALLS SHALL HAVE SMOOTH SURFACE. SEE ARCH'L.
FOR FINISHING REQUIRED. SEE ARCH'L SPECIFICATIONS FOR MASONRY VENEER REQUIREMENTS.

LINTELS FOR MASONRY:
OPENINGS NOT PROVIDED WITH CONCRETE BEAMS SHALL BE SPANNED WITH PRECAST CONCRETE LINTELS WITH A WIDTH TO MATCH WALL WIDTH AND WITH 2#5 REINF. BARS, MIN.. ALL PRECAST LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END. PRECASTER TO DESIGN PRECAST LINTELS FOR LOADS NOTED ON THIS SHEET.

STRUCTURAL STEEL:

WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A-572 OR A-992 GRADE 50 AND OTHER SHAPES SHALL CONFORM TO ASTM A36 AND "THE SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS. STEEL SHALL RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZING IS INDICATED ON THE DRAWINGS.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE B, Fy = 46 ksi. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE B, TYPE E OR S, Fy = 35 ksi. BEAM CONNECTIONS TO TUBE COLUMNS SHALL BE A.I.S.C. THRU-PLATE TYPE UNLESS SHOWN OTHERWISE.

BOLTED CONNECTIONS SHALL CONSIST OF MINIMUM 3/4 INCH DIAMETER ASTM A-325N HIGH STRENGTH BOLTS. BEAM CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED AND INSURED TO PRACTICE IN THE STATE OF FLORIDA FOR THE REACTIONS SHOWN ON THE PLANS. IF NOT SHOWN, THE ENGINEER SHALL DESIGN THE NON-COMPOSITE BEAM CONNECTIONS TO SUPPORT AN END REACTION OF W/2 KIPS AND COMPOSITE BEAM CONNECTIONS TO SUPPORT AN END REACTION OF 1.5W/2 FROM THE TABLES 3-6 "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" OF THE MANUAL OF STEEL CONSTRUCTION (15TH EDITION), BUT CONNECTIONS SHALL NOT HAVE LESS THAN 2 ROWS OF BOLTS. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 OR A-36 (THREADED ROD). A SIGNED & SEALED CALCULATION SUBMITTAL SHALL BE ISSUED WITH SHOP DRAWINGS FOR REVIEW BY THE ENGINEER-OF-RECORD. ALL BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED. TWENTY FIVE PERCENT OF ALL BOLTED CONNECTIONS SHALL BE TESTED.

STRUCTURAL STEEL JOISTS AND JOIST GIRDERS SHALL BE FABRICATED AND ERECTED IN STRICT CONFORMANCE TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE STANDARDS. JOIST AND JOIST GIRDER ERECTION PROCEDURE SHALL CONFORM STRICTLY TO S.J.I. STANDARDS. CONTRACTOR IS TO SUBMIT DESIGN CALCULATIONS FOR ALL JOIST AND JOIST GIRDERS WITH CONCENTRATED LOADS FROM OTHER STRUCTURAL COMPONENTS AND EQUIPMENT, AND UPLIFT LOADS. PROVIDE SPECIAL MARKINGS FOR THESE SPECIAL JOISTS. DESIGN CALCULATIONS ARE TO BE SUBMITTED WITH SHOP DRAWINGS.

JOISTS SHALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE DESIGNED, FABRICATED, INSTALLED AND BRIDGED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. ENDS OF BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. MINIMUM JOIST BRIDGING TERMINATION CONNECTIONS TO MASONRY SHALL BE L3 X 3 X 1/4 X 3" LONG WITH (1) 1/2" DIAMETER ANCHOR BOLT OR 1/4 X 4 X 4 WITH (1) 1/2" X 5" HEADED STUD TO CONCRETE. BRIDGING SHALL BE WELDED OR BOLTED AT POINTS OF CONTACT. WELD SHALL NOT DAMAGE THE JOIST. CROSS BRIDGING SHALL BE WELDED OR BOLTED AT ITS CENTER POINT.

K SERIES JOISTS SHALL BEAR A MINIMUM OF 2 1/2" ON STEEL BEAMS AND 4" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM 3/8" X 4" X 7 1/2" WITH (2) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK SINGLE JOISTS SHALL BE MINIMUM 3/8" X 7 1/2" X 7 1/2" WITH (4) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATES WITH A MINIMUM OF (2) 1/8" FILLET WELDS, UNLESS NOTED OTHERWISE.

LH SERIES JOISTS SHALL BEAR A MINIMUM OF 4" ON STEEL BEAMS AND 6" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM 3/8" X 6" X 9" WITH (2) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK SINGLE JOISTS SHALL BE MINIMUM 3/8" X 9" X 11 5/8" WITH (4) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATE WITH A MINIMUM OF (2) 1/4" FILLET WELDS, UNLESS NOTED OTHERWISE. BACK TO BACK JOISTS SHALL BE OFFSET IF CONCRETE BEAM IS LESS THAN 12" NOMINAL WIDTH OR STEEL BEAM IS LESS THAN 8" WIDE.

SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND PERTINENT SECTIONS AND DETAILS. SUBMITTALS FOR JOISTS, OTHER THAN STANDARD SJI CATALOG SELECTIONS WHICH HAVE BEEN CHECKED BY SJI, SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

PROVIDE CEILING EXTENSIONS AT CONTACT CEILINGS-SEE ARCHITECTURAL DRAWINGS. JOISTS SHALL BE CAMBERED FOR DEAD LOAD.

ALL DAMAGED JOISTS DELIVERED TO THE JOB SITE SHALL BE REJECTED OR REPAIRED BY THE JOIST MANUFACTURER. REPAIR METHODS SHALL BE SUBMITTED FOR APPROVAL AND SEALED BY A PROFESSIONAL ENGINEER.

WHERE BAR JOISTS ARE UTILIZED, AND COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A BAR JOIST NEAREST TO THE COLUMN SHALL BE FIELD BOLTED (EACH END OF JOIST) TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION. EXTEND BOTTOM CHORDS OF ALL JOISTS AT COLUMN LINES OR NEAR COLUMN IF JOIST IS NOT ON CENTERLINE COLUMN, AND WELD TO COLUMNS OR BEAM AFTER ALL DEAD LOAD IS IN PLACE. PROVIDE JOIST BRIDGING AND JOIST GIRDER BRACING PER ASTC AND S.J.I. REQUIREMENTS. NOTHING SHALL BE SUSPENDED FROM THE DECK AND BRIDGING.

WELDING:

WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION USING ASTM E70 SERIES ELECTRODE FOR SHOP WELDING A36 STEEL, AND E70 SERIES LOW HYDROGEN ELECTRODES FOR ALL WELDING OF HIGH STRENGTH STEELS AND FOR FIELD WELDING.

WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.

ALL FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE REMAINING WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.

PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

STEEL ROOF DECK:

SHALL BE AS NOTED ON PLAN AND SHALL CONFORM TO PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL ROOF DECK AND BE PLACED IN 3-SPAN LAYOUT, MIN. WELD PATTERN SHALL BE A MINIMUM 36/7 UNLESS NOTED OTHERWISE. FASTEN SIDE LAPS WITH (6) #10 SCREW PER SPAN U.N.O. ON PLAN. NOTHING SHALL BE SUSPENDED FROM THE METAL DECK.

POST-INSTALLED ANCHORS:

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN FLORIDA. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. USE THE ANCHORS SPECIFIED ON THE PLANS & SECTIONS, U.N.O.

CONCRETE ANCHORS:
MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPRIVED MECHANICAL ANCHORS INCLUDE:

1. SIMPSON STRONG-TIE 'STRONG-BOLT' (ICC-ES ESR-1771)
2. SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-2713)

ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS. AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER EACH CERTIFIED INSTALLER WILL BE ISSUED A CERTIFICATION CARD TO VERIFY THEIR TRAINING AND SHALL BE REQUIRED TO CARRY THEIR CERTIFICATION CARD ON THEIR PERSON. CERTIFIED INSTALLERS SHALL PROVIDED WRITTEN DOCUMENTATION THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC306. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

1. SIMPSON STRONG-TIE 'SET-XP' (ICC-ES ESR-2508)
2. HILTI HIT-RE 500 SD (ICC-ES ESR-2322)

MASONRY ANCHORS:
ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY.

MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'WEDGE-ALL; (ICC-ES ESR-1396)
SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772)
SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ESR-1056)
HILTI HIT HY-70 (ICC-ES ER-5193)

ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY

SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS WITH SCREEN TUBES FOR USE IN HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:

SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772)
SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ER-5791)
SIMPSON STRONG-TIE 'E' (ICC-ES ER-4945)

POWER-ACTUATED FASTENERS (PAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2138) OR ENGINEER-APPROVED EQUAL.

GAS-ACTUATED FASTENERS (GAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2811) OR ENGINEER-APPROVED EQUAL.

ABBREVIATIONS

A.B.	ANCHOR BOLT	K	KIPS (1000#)
A.F.F.	ABOVE FINISHED FLOOR	KSI	KIPS PER SQUARE INCH
AL.	ALUMINUM	KFS	KIPS PER SQUARE FOOT
ALT.	ALTERNATE	#	POUND
&	AND	LLH	LONG LEG HORIZONTAL
APPROX.	APPROXIMATE	LLV	LONG LEG VERTICAL
APPVD.	APPROVED	MAX.	MAXIMUM
@	AT	MEZZ.	MEZZANINE
AVG.	AVERAGE	MFR.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BOTT.	BOTTOM	MISC.	MISCELLANEOUS
C.L.	CENTERLINE	NS	NEAR SIDE
CL. OR CLR.	CLEAR OR CLEARANCE	N.T.S.	NOT TO SCALE
CONN.	CONNECTION	#	NUMBER OR REBAR SIZE
CMU	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
CONST.	CONSTRUCTION	O.C.	ON CENTER
CONT.	CONTINUOUS	P.A.F.	POWDER ACTUATED FASTENER
C.J.	CONSTRUCTION OR CONTROL JOINT	PLF	POUNDS PER LINEAR FOOT
CONC.	CONCRETE	PCF	POUNDS PER CUBIC FOOT
COL.	COLUMN	PCI	POUNDS PER CUBIC INCH
CTR.	CENTER	PSF	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSI	POUNDS PER SQUARE INCH
O OR DIAM.	DIAMETER	P.T.	POST TENSIONED
DIM.	DIMENSION	PROJ.	PROJECTION
DWG	DRAWING	REV.	REVISION
DBA	DEFORMED BAR ANCHOR	REF.	REFERENCE
EA.	EACH	REINF.	REINFORCING
E.E.	EACH END	REQ'D	REQUIRED
E.F.	EACH FACE	SIM.	SIMILAR
E.J.	EXPANSION JOINT	SCHED.	SCHEDULE
E.S.	EACH SIDE	SLH	SHORT LEG HORIZONTAL
E.W.	EACH WAY	SLV	SHORT LEG VERTICAL
ELAV.	ELEVATION	SPEC.	SPECIFICATION
ELEC.	ELECTRICAL	SQ.	SQUARE
EMBED.	EMBEDMENT	SF	SQUARE FEET
= OR EQ.	EQUAL	S.S.	STAINLESS STEEL
EQUIP.	EQUIPMENT	STD.	STANDARD
EXIST.	EXISTING	STIFF.	STIFFENER
EXP.	EXPANSION	STL.	STEEL
EXT.	EXTENDED	STRUCT.	STRUCTURAL
F.F.	FINISHED FLOOR	SYM.	SYMMETRICAL
FLR.	FLOOR	T.E.	THICKENED EDGE
FT.	FEET OR FOOT	THD.	THREAD
F.S.	FAR SIDE	THK.	THICK
FTG.	FOOTING	TRD.	TREAD
FOUND.	FOUNDATION	T/WALL	TOP OF WALL
Fy OR fy	YIELD STRENGTH	TEMP.	TEMPORARY
f'c	28 DAY COMPRESSIVE STRENGTH	THRU	THROUGH
GA.	GAUGE OR GAGE	T.O.S.	TOP OF STEEL
GALV.	GALVANIZED	TYP.	TYPICAL
GEN.	GENERAL	U.N.O.	UNLESS NOTED OTHERWISE
HGT.	HEIGHT	W.C.J.	WALL CONTROL JOINT
HORIZ.	HORIZONTAL	WT.	WEIGHT
IN.	INCH OR INCHES	W/	WITH
I.J.	ISOLATION JOINT	W/O	WITHOUT
		WWF	WELDED WIRE FABRIC

LEGEND

ITEM	SYMBOL
CONCRETE	
GROUT	
EARTH	
CONCRETE BLOCK (CMU)	
SECTION INDICATOR	1 / S2
DETAIL INDICATOR	B / S2
COLUMN TYPE FOOTING TYPE TOP OF FOOTING ELEVATION	C1 F2.0A -2'-0"
SPOT ELEVATION TOP OF CONCRETE	+0'-0"
STEP IN FTG. OR GRADE BM. TO CLG. PLUMB.	8"
CENTERLINE BEAM SPLICE	
AND	&
PLATE	ℙ
CENTERLINE	℄
NUMBER (PRECEDING)	#, NO.
PLUS OR TENSION	+
MINUS OR COMPRESSION	-
POUNDS (FOLLOWING)	#
STEP IN STRUCTURE OR DEPRESSED SLAB	1"
TOP OF STEEL ELEVATION	T/S EL. +20'-8" OR (+20'-0")

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GENERAL NOTES & INFORMATION

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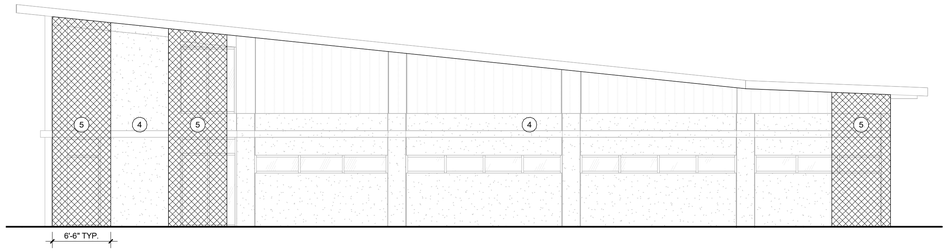
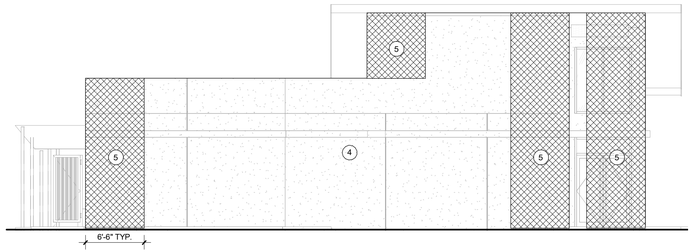


ELEVATION
1/8" = 1'-0"



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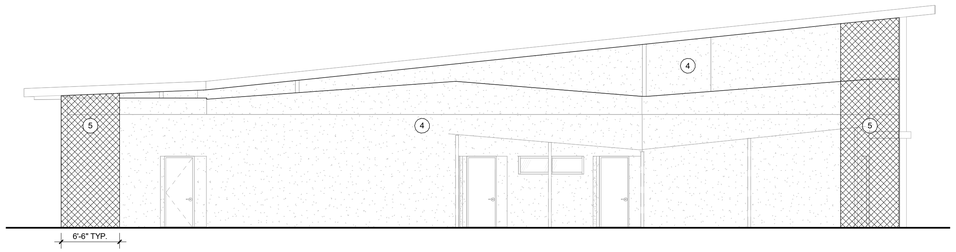

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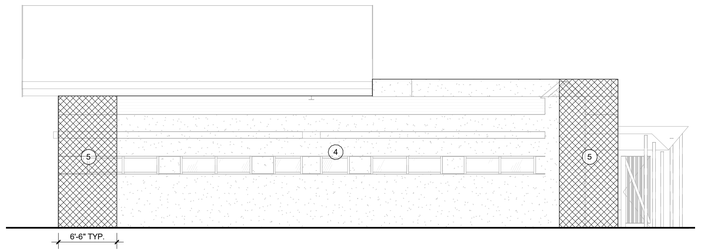

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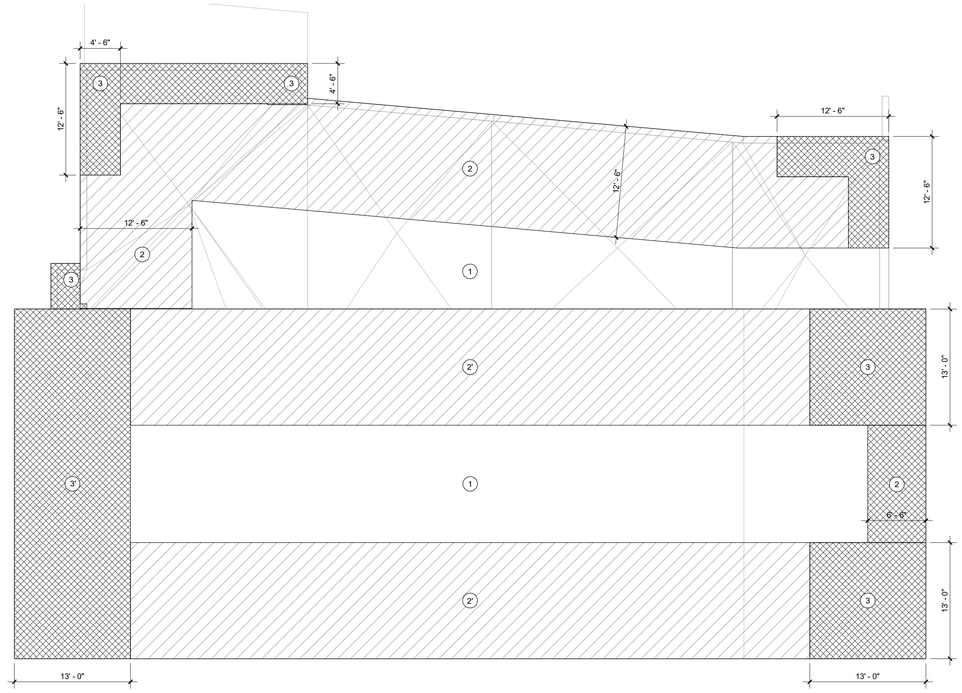

ROOF PLAN
1/8" = 1'-0"

WIND: 2023 FLORIDA BUILDING CODE: SECTION 1609,
Vult= 165 MPH, Vasd =128 MPH, EXPOSURE: C, RISK CATEGORY IV

COMPONENT AND CLADDING WIND PRESSURES (FLAT ROOF) (ALLOWABLE)

	COMPONANT LOCATION (ZONES)	POSITIVE PRESSURE (psf)				NEGATIVE PRESSURE (psf)			
		Ae= 10SF	Ae= 20SF	Ae= 50SF	Ae= 100SF	Ae= 10SF	Ae= 20SF	Ae= 50SF	Ae= 100SF
ROOFS	ELSEWHERE - ZONE 1	15.5	14.6	13.3	12.3	-35.0	-35.0	-35.0	-35.0
	ZONE 1	15.5	14.6	13.3	12.3	-60.9	-56.9	-51.6	-47.5
	ZONE 2	15.5	14.6	13.3	12.3	-80.3	-75.2	-68.3	-63.2
	ZONE 3	15.5	14.6	13.3	12.3	-109.5	-99.1	-85.5	-75.2
	AT OVERHANGS-ZONE 1 & 1'					-55.1	-54.1	-52.8	-51.8
	AT OVERHANGS-ZONE 2					-74.5	-67.6	-58.5	-51.6
	ZONE 3					-103.6	-91.6	-75.7	-63.6
WALLS	ELSEWHERE - ZONE 4	35.0	33.4	31.4	29.8	-37.9	-36.3	-34.3	-32.7
	WITHIN 6.5ft. FROM CORNERS-ZONE 5	35.0	33.4	31.4	29.8	-46.6	-43.5	-39.4	-36.3

NOTE: 1) Ae: EFFECTIVE AREA
2) PRESSURES ARE FOR "ENCLOSED" CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF ± 0.18
3) PRESSURES CALCULATED WITH Kd=0.85
4) DO NOT MULTIPLY VALUES IN TABLE BY 0.6

WIND: 2023 FLORIDA BUILDING CODE: SECTION 1609,
Vult= 165 MPH, Vasd =128 MPH, EXPOSURE: C, RISK CATEGORY IV

COMPONENT AND CLADDING WIND PRESSURES (SLOPED ROOF) (ALLOWABLE)

	COMPONANT LOCATION (ZONES)	POSITIVE PRESSURE (psf)				NEGATIVE PRESSURE (psf)			
		Ae= 10SF	Ae= 20SF	Ae= 50SF	Ae= 100SF	Ae= 10SF	Ae= 20SF	Ae= 50SF	Ae= 100SF
ROOFS	ELSEWHERE - ZONE 1	15.5	14.6	13.3	12.3	-41.5	-41.5	-41.5	-41.5
	LOW-END ROOF EDGE ZONE 2	15.5	14.6	13.3	12.3	-47.9	-47.0	-45.7	-44.7
	HIGH-END ROOF EDGE ZONE 2'	15.5	14.6	13.3	12.3	-57.7	-56.7	-55.4	-54.4
	END ZONE 3	15.5	14.6	13.3	12.3	-64.1	-58.3	-50.5	-44.7
	ROOF CORNERS HIGH-END ZONE 3'	15.5	14.6	13.3	12.3	-90.0	-80.3	-67.4	-57.7
	AT OVERHANGS-ZONE 2					-74.2	-71.7	-68.3	-65.8
	AT OVERHANGS-ZONE 2'					-83.9	-81.4	-78.1	-75.5
	AT OVERHANGS-ZONE 3					-99.2	-90.2	-78.4	-69.4
	AT OVERHANGS-ZONE 3'					-125.1	-112.2	-95.2	-82.4
WALLS	ELSEWHERE - ZONE 4	35.0	33.4	31.4	29.8	-37.9	-36.3	-34.3	-32.7
	WITHIN 6.5ft. FROM CORNERS-ZONE 5	35.0	33.4	31.4	29.8	-46.6	-43.5	-39.4	-36.3

NOTE: 1) Ae: EFFECTIVE AREA
2) PRESSURES ARE FOR "ENCLOSED" CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF ± 0.18
3) PRESSURES CALCULATED WITH Kd=0.85
4) DO NOT MULTIPLY VALUES IN TABLE BY 0.6

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WIND DESIGN DATA

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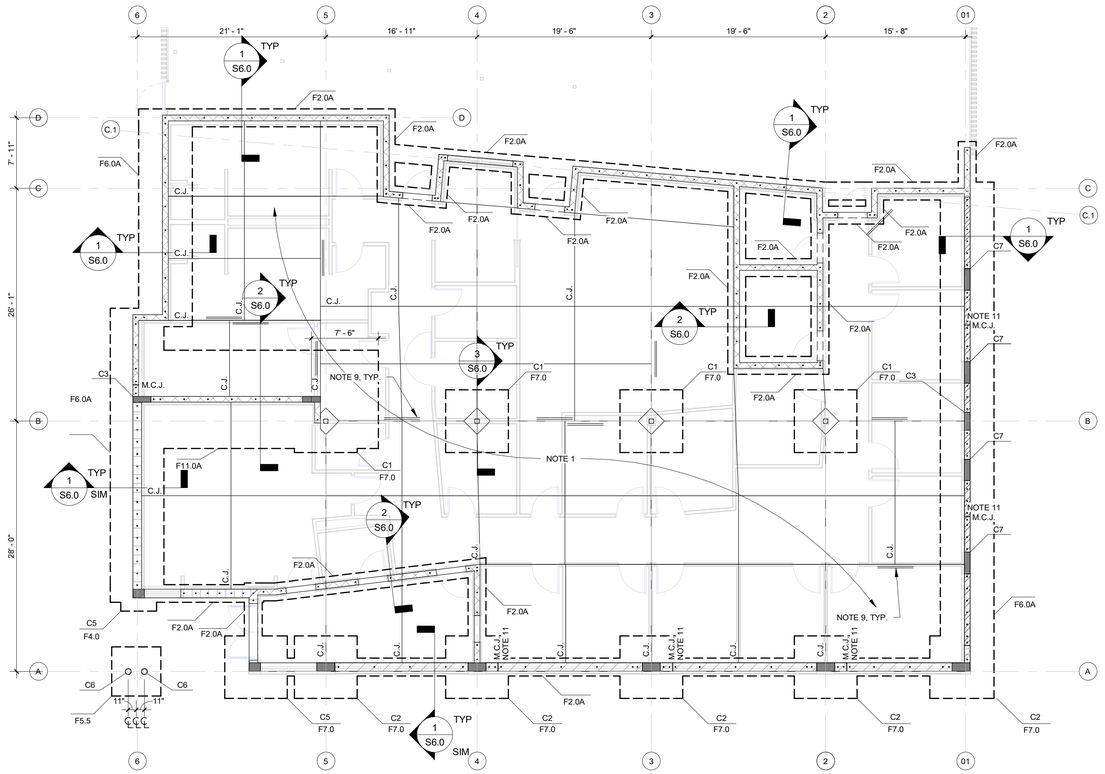

FOUNDATION PLAN | 1

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. 4" CONCRETE SLAB W/ 6x6 W1.4xW1.4 W.W.F. ON 15MIL. VAPOR BARRIER ON PREPARED SUBGRADE
2. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION SEE ARCHITECTURAL DRAWINGS.
3. FOR DIMENSIONS NOT SHOWN, SEE OTHER STRUCTURAL DRAWINGS AND VERIFY WITH ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
4. SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS AND DRAIN LOCATIONS IN FLOOR SLABS.
5. TOP OF NEW FOOTINGS TO BE AT -1'-4" BELOW GRADE, U.N.O.
6. ELEVATIONS SHOWN REFERENCE SLAB-ON-GRADE, EL. 0'-0"
7. ALL WALLS AND COLUMNS SHALL BE CENTERED ON THEIR FOOTINGS U.N.O, TYP.
8. KEY ALL INTERSECTING WALLS TOGETHER.
9. (2) #4 x 4'-0" @ 1" O.C. RE-ENTRANT BARS CENTERED IN SLAB.
10. FOR COLUMN AND FOOTING SIZES AND REINFORCEMENT, SEE SCHEDULES ON S6.0.
11. MASONRY CONTROL JOINTS TO BE DISCONTINUOUS AT SILLS, LINTELS, AND CONCRETE BEAMS.

C.J. : INDICATES CONTROL JOINT. SEE DETAILS ON S5.0.

11 5/8" CMU W/ (1) #6 IN EACH OF 1ST CELL [(1) #6 TOTAL] GROUTED SOLID AT ENDS OF WALLS, CORNERS, TEES, E.E. OF WALL CONTROL JOINTS & E.S. OF OPENINGS. REINF. CELL SHALL BE FULL HEIGHT OF WALL. IN ADDITION ADD #6 IN GROUTED CELLS @ 16" O.C. MAX BETWEEN, TYP. U.N.O. TYP. ABOVE AND BELOW ALL OPENINGS AS WELL.

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FOUNDATION PLAN

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STRONGER AS ONE

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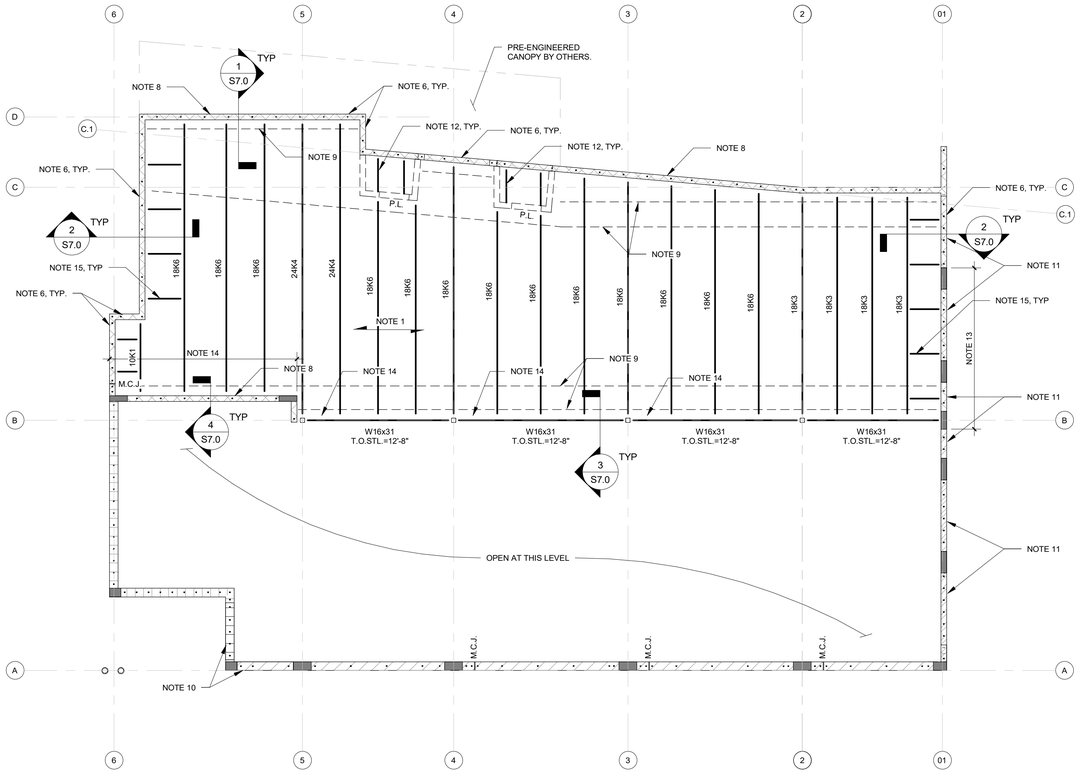

LOW ROOF FRAMING PLAN | 1

1/8" = 1'-0"

LOW ROOF FRAMING PLAN NOTES:

1. INDICATES DIRECTION OF SPAN OF 1 1/2"x20 GA. TYPE "B" ROOF DECK. (3-SPAN MIN.) ATTACH TO SUPPORTS W/ 5/8"Ø PUDDLE WELDS & (4) WELDED SIDELAPS IN A 36/7 PATTERN.
2. VERIFY DIMENSIONS & ELEVATIONS W/ ARCH'L DRAWINGS BEFORE COMMENCING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER. FOR ANY ADDITIONAL INFORMATION SEE ARCH'L DRAWINGS.
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4. SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS AND DRAIN LOCATIONS IN FLOOR SLABS & ROOF.
5. CENTERLINES OF COLUMNS, WALLS, AND BEAMS SHALL COINCIDE WITH FOUNDATION CENTERLINES, U.N.O.
6. 7 5/8" x 16" DEEP CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 14" O.C. MAX (6" O.C. WHEN AN OPENING IS LOCATED ANYWHERE BELOW BEAM.)
7. 11 5/8" x 24" DEEP CONCRETE BEAM W/ (2)#6 TOP, MID AND BOTTOM W/ #3 STIRRUPS @ 10" O.C. MAX DIRECTLY OVER OPENING.
8. JOIST BEARING ALONG THIS WALL = 12'-8".
9. TYP. DENOTES BRIDGING PER SJI REQUIREMENTS. BOTT. CHORD BRIDGING FOR UPLIFT TO BE DESIGNED FOR THE WIND LOADS AS INDICATED ON SHEET S1.01. AS A MINIMUM, PROVIDE SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE 1ST BOTTOM CHORD PANEL POINT EACH END OF EACH JOIST.
10. 11 5/8" x 32" DEEP CONCRETE BEAM W/ (2)#5 TOP, MID AND BOTTOM W/ #3 STIRRUPS @ 10" O.C. MAX DIRECTLY OVER OPENING.
11. 7 5/8" x 16" DEEP CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 6" O.C. MAX DIRECTLY OVER OPENING.
12. 2.5K1 SUBSTITUTES @ 5'-0" O.C. MAX.
13. 7 5/8"x24" CONC. BEAM W/ (2)#6 TOP AND BOTTOM W/ #3 STIRRUPS AT 6" O.C. MAX. HOOK REINFORCEMENT AT ENDS. TOP OF BEAM = 12'-8".
14. 7 5/8"x32" CONC. BEAM W/ (2)#7 TOP AND BOTTOM W/ #3 STIRRUPS AT 6" O.C. MAX. HOOK REINFORCEMENT AT ENDS. TOP OF BEAM = 12'-8".
15. L3x3x1/4" @ 5'-0" O.C. MAX. SNUG TO UNDERSIDE OF DECK. ATTACH BRACE TO DECK W/ 5/8"Ø PUDDLE WELD @ 6" O.C. MAX. [(3) MIN].

P.L. = 7 5/8" x8" PRECAST LINTEL W/ (2)#5 CONT, GROUT FILLED SOLID.

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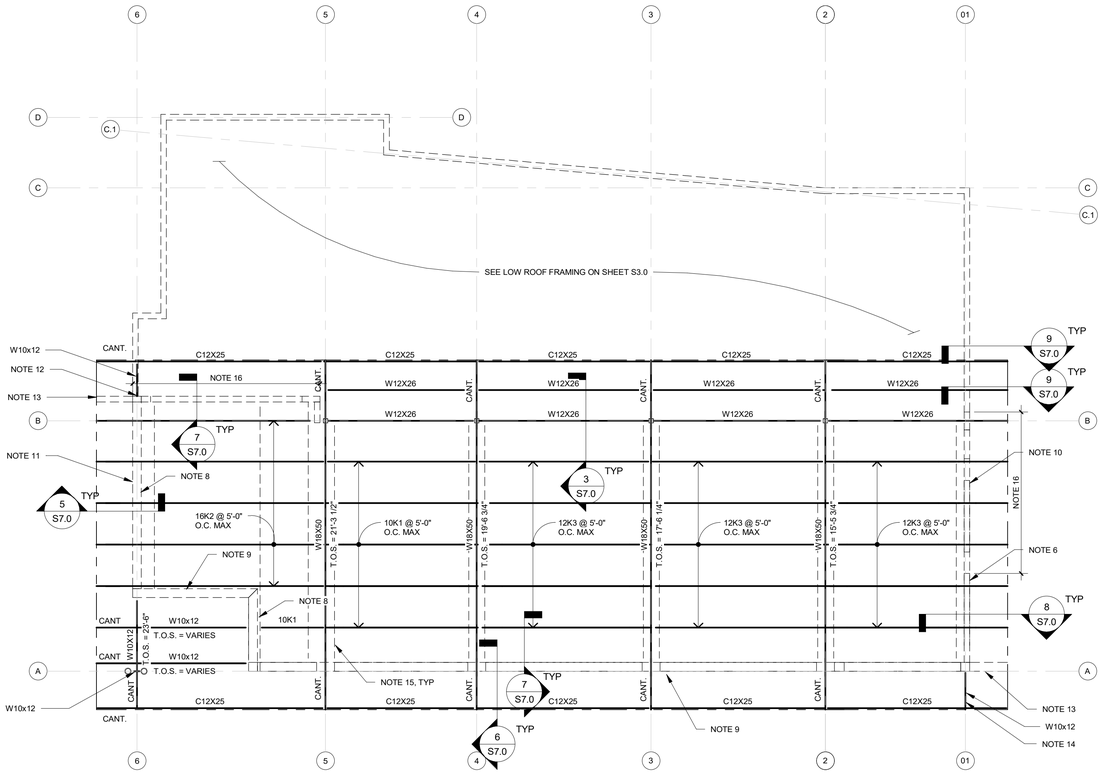

HIGH ROOF FRAMING PLAN | 1

1/8" = 1'-0"

HIGH ROOF FRAMING PLAN NOTES:

1. ◢——————◣ INDICATES DIRECTION OF SPAN OF 1 1/2"x20 GA. TYPE "B" ROOF DECK. (3-SPAN MIN.) ATTACH TO SUPPORTS W/ 5/8"Ø PUDDLE WELDS & (4) WELDED SIDELAPS IN A 36/7 PATTERN.
2. VERIFY DIMENSIONS & ELEVATIONS W/ ARCH'L DRAWINGS BEFORE COMMENCING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER. FOR ANY ADDITIONAL INFORMATION SEE ARCH'L DRAWINGS.
3. FOR DIMENSIONS NOT SHOWN, SEE OTHER STRUCTURAL DRAWINGS AND VERIFY WITH ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
4. SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS AND DRAIN LOCATIONS IN FLOOR SLABS & ROOF.
5. CENTERLINES OF COLUMNS, WALLS, AND BEAMS SHALL COINCIDE WITH FOUNDATION CENTERLINES, U.N.O.
6. 7 5/8" x 16" DEEP CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 14" O.C. MAX (6" O.C. WHEN AN OPENING IS LOCATED ANYWHERE BELOW BEAM.)
7. 7 5/8" x 16" DEEP RAKED CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 14" O.C. MAX (6" O.C. WHEN AN OPENING IS LOCATED ANYWHERE BELOW BEAM.)
8. 11 5/8" x 16" DEEP CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 14" O.C. MAX (6" O.C. WHEN AN OPENING IS LOCATED ANYWHERE BELOW BEAM.)
9. 11 5/8" x 16" DEEP RAKED CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM W/ #3 STIRRUPS @ 14" O.C. MAX (6" O.C. WHEN AN OPENING IS LOCATED ANYWHERE BELOW BEAM.)
10. JOIST BEARING ALONG THIS WALL = 14'-8".
11. JOIST BEARING ALONG THIS WALL = 23'-6".
12. SEE "EP1 DETAIL" ON S5.1
13. 7 5/8" x 16" CONCRETE TIE BEAM W/ (2)#5 TOP AND BOTTOM CONT W/ #3 STIRRUPS @ 6" O.C TO CANT. OUT TO SUPPORT STEEL DECK. EXTEND CONT REINFORCEMNT INTO TIE BEAM AT TOP OF WALL 50" MIN.
14. SEE "EP2 DETAIL" ON S5.1
15. TYP. DENOTES BRIDGING PER SJI REQUIREMENTS. BOTT. CHORD BRIDGING FOR UPLIFT TO BE DESIGNED FOR THE WIND LOADS AS INDICATED ON SHEET S1.01, AS A MINIMUM. PROVIDE SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE 1ST BOTTOM CHORD PANEL POINT EACH END OF EACH JOIST.
16. 7 5/8" x 24" DEEP CONCRETE BEAM W/ (2)#6 TOP AND BOTTOM W/ #3 TIES AT 10" O.C. MAX. TOP OF BEAM = 14'-8".

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	DEM
Checked By	TCW
Date	02.02.24

Revisions:

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S4.0
HIGH ROOF FRAMING PLAN

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B&P JOB NUMBER 23HA078

NOTE:

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STRONGER AS ONE

Originals printed at 24" x 36" scale as required

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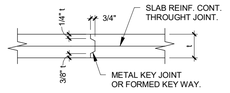
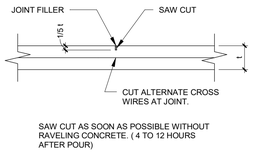
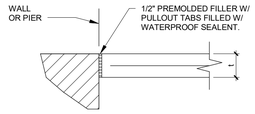


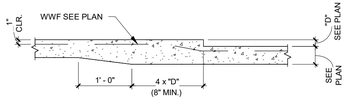
CONSTRUCTION JOINT (C.J.)
1" = 1'-0"



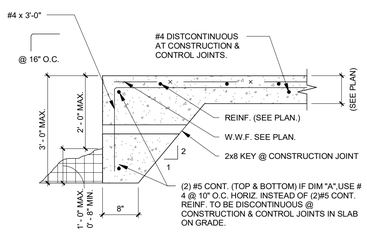
CONTROL JOINT (C.J.)
1" = 1'-0"



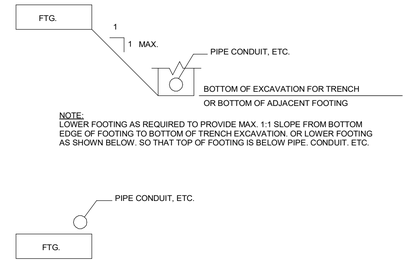
ISOLATION JOINT (I.J.)
1" = 1'-0"



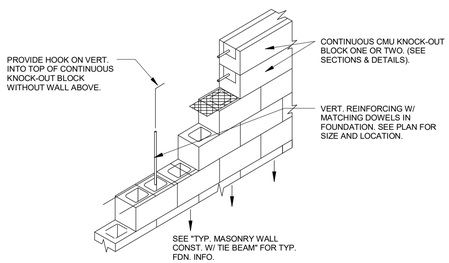
TYPICAL DEPRESSED SLABS ON GRADE
3/4" = 1'-0"



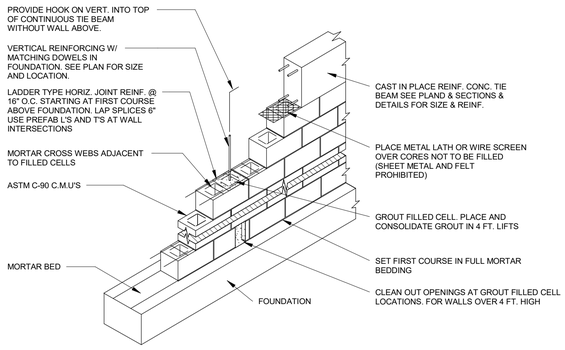
TYPICAL THICKENED EDGE
3/4" = 1'-0"



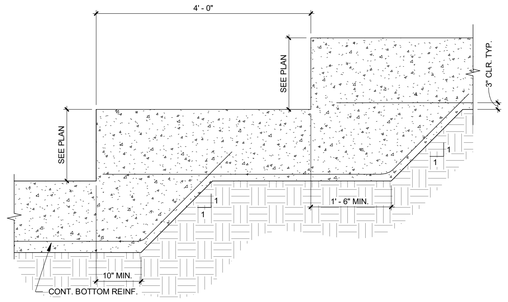
TYPICAL FOUNDATION INFLUENCE DETAIL
3/4" = 1'-0"



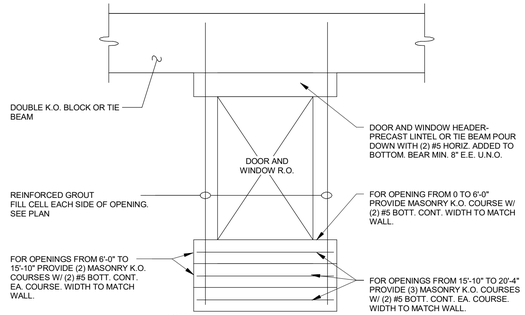
TYPICAL MASONRY WALL CONST. W/ KNOCK-OUT BEAM
1/4" = 1'-0"



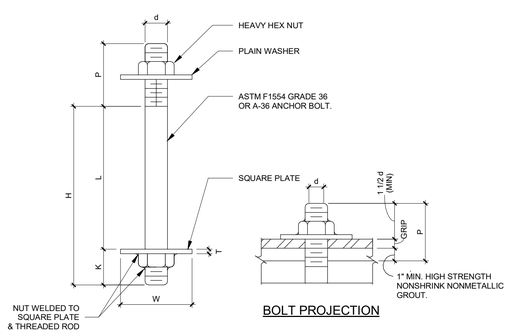
TYPICAL MASONRY WALL CONST. W/ TIE BEAM
1/4" = 1'-0"



TYPICAL STEPPED FOOTING SECTION
3/4" = 1'-0"



M.O. FRAMING DETAIL (U.N.O)
1/2" = 1'-0"



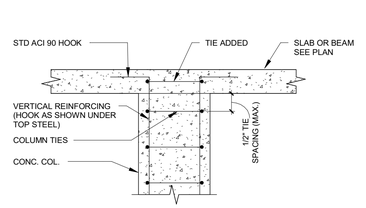
BOLT PROJECTION

BOLT LENGTH = H+P

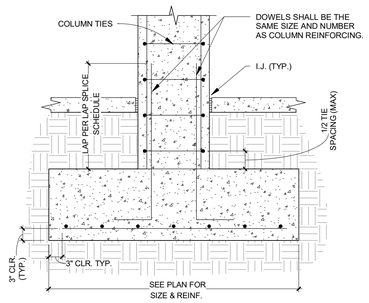
LETTERED DIMENSIONS		BOLT DIAMETER							
		1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4
SQUARE PLATE	W	3	3 1/2	3 1/2	4	4 1/2	5 1/2	6	7
	T	3/8	1/2	1/2	5/8	3/4	3/4	1	1
	HOLE Ø	5/8	3/4	7/8	1	1 1/8	1 3/8	1 5/8	1 7/8
L		5 1/2	7 1/2	7 1/2	7 1/2	11	11	-	16
H		7	9	12	12	13	13 1/2	19	19 1/2
K		1 1/2	1 1/2	1 1/2	2	2	2 1/2	3	3 1/2
P (MIN)		2 1/2		3 1/2			4 1/2		
PLAIN WASHER		LIGHT					MEDIUM		

NOTE: WHERE ANCHOR BOLTS ARE SPACED SO THAT PLATE WASHERS OVERLAP, USE PLATE WASHER FOR ANCHOR BOLT GROUP AND PROVIDE 2" EDGE DISTANCE FROM CENTERLINE OF A.B. TO EDGE OF PLATE ALL AROUND. FOR ANCHOR BOLTS LARGER THAN 3/4"Ø UP TO 1 3/4"Ø PROVIDE 3 1/2" EDGE DISTANCE FROM CENTERLINE OF A.B. TO EDGE OF PLATE ALL AROUND. AS ALTERNATE, STAGGER LENGTH OF ANCHOR BOLTS TO AVOID CONGESTION, USING THE ABOVE LENGTHS AS A MINIMUM LENGTH.

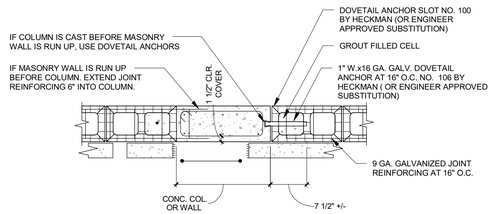
DIMENSIONS OF ANCHOR BOLT ASSEMBLY
1/2" = 1'-0"



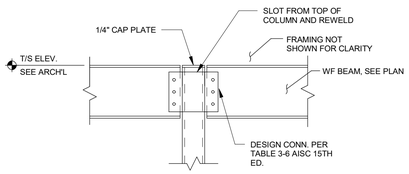
CONCRETE COLUMN TERMINATION @ SLAB OR BEAM
3/4" = 1'-0"



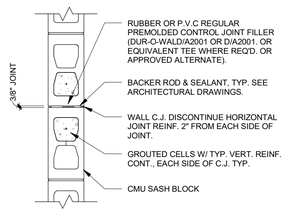
CONCRETE COLUMN BASE
3/4" = 1'-0"



DOVETAIL ANCHOR DETAIL
3/4" = 1'-0"

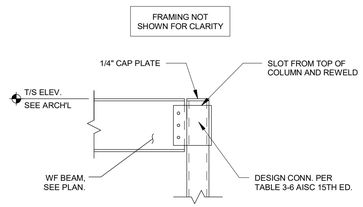


STEEL BEAM TO STEEL COLUMN CONNECTION
3/4" = 1'-0"



NOTE:
BOND BEAM REINF. SHALL BE CONT. THROUGH W.C.J. @ TOP OF WALL SEE ARCH'L FOR W.C.J. LOCATIONS. DO NOT PUT W.C.J's AT EDGE OF MASONRY OPENINGS.

TYPICAL CMU CONTROL JOINT DETAIL
3/4" = 1'-0"



STEEL BEAM TO STEEL COLUMN CONNECTION ONE SIDE
3/4" = 1'-0"

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Revisions:

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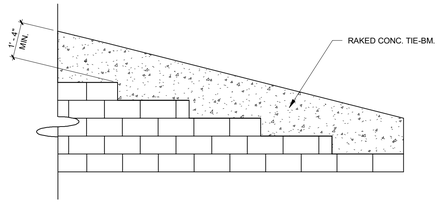
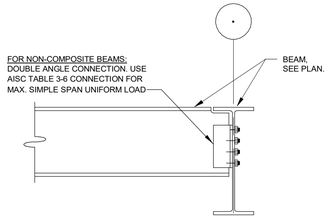
S5.0
TYPICAL DETAILS



TYPICAL RAKED CONCRETE TIE BEAM DETAIL
3/8" = 1'-0"



STEEL BEAM TO STEEL BEAM CONN.
3/4" = 1'-0"

f'c = 3000

LAP SPLICE SCHEDULE				
NO. BAR	TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	22	32
#4	37	56	29	43
#5	47	70	36	54
#6	56	84	43	65
#7	81	122	63	94
#8	93	139	72	107

LAP SPLICE SCHEDULE NOTES:

1. GRADE 60 REINFORCEMENT
2. f'c = 3000 psi
3. STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM.
4. CASE 1:
   - 4.1. CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN BAR DIAMETER, AND
   - 4.2. CLEAR COVER IN ACCORDANCE WITH ACI 318 (TYP)
5. CASE 2: IF CASE 1 IS NOT MET

f'c = 4000

LAP SPLICE SCHEDULE				
NO. BAR	TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	24	37	19	28
#4	33	49	25	37
#5	41	61	31	47
#6	49	73	37	56
#7	71	106	54	81
#8	81	121	62	93

LAP SPLICE SCHEDULE NOTES:

1. GRADE 60 REINFORCEMENT
2. f'c = 4000 psi
3. STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM.
4. CASE 1:
   - 4.1. CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN BAR DIAMETER, AND
   - 4.2. CLEAR COVER IN ACCORDANCE WITH ACI 318 (TYP)
5. CASE 2: IF CASE 1 IS NOT MET

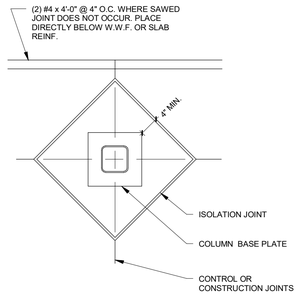
f'c = 5000

LAP SPLICE SCHEDULE				
NO. BAR	TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	22	33	17	25
#4	29	43	23	34
#5	36	54	28	42
#6	43	65	34	50
#7	63	95	49	73
#8	72	108	56	83

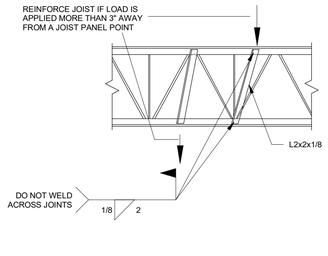
LAP SPLICE SCHEDULE NOTES:

1. GRADE 60 REINFORCEMENT
2. f'c = 5000 psi
3. STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM.
4. CASE 1:
   - 4.1. CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN BAR DIAMETER, AND
   - 4.2. CLEAR COVER IN ACCORDANCE WITH ACI 318 (TYP)
5. CASE 2: IF CASE 1 IS NOT MET

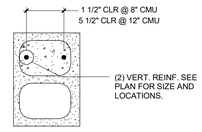
LAP SPLICE SCHEDULES
3/16" = 1'-0"



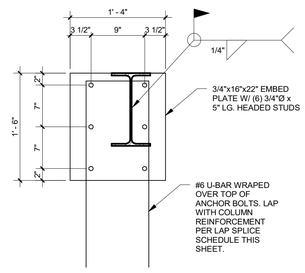
TYPICAL INTERIOR SLAB ISOLATION JOINT
3/4" = 1'-0"



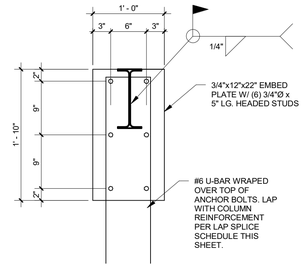
TYPICAL JOIST REINF. DETAIL AT CONCENTRATED LOADS
3/4" = 1'-0"



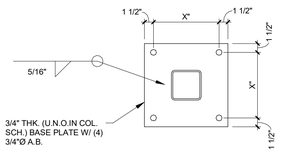
CMU WALL DETAIL 2 BARS IN (1) CELL
1" = 1'-0"



EP1 DETAIL
1" = 1'-0"

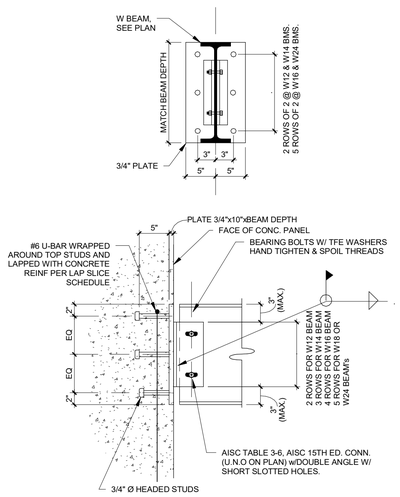


EP2 DETAIL
1" = 1'-0"

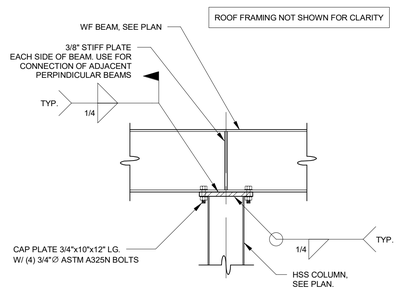


BASE PLATE SCHEDULE	
COL. SIZE	"X" DIM.
HSS 4x4	7"
HSS 5x5	9"
HSS 6x6	9"
HSS 8x8 8" DIA PIPE	11"
HSS 9x9	13"

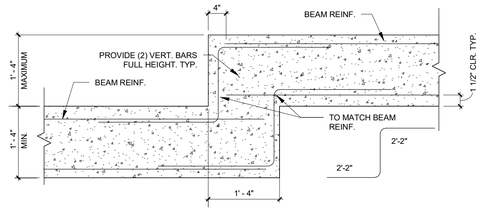
BASE PLATE ONE (BP1)
1" = 1'-0"



STEEL BEAM TO CONC. DETAIL (U.N.O.)
1" = 1'-0"



TYPICAL CANTILEVER BEAM CONNECTION
3/4" = 1'-0"



TYPICAL STEP IN TIE BEAM OR K.O. BLOCK
3/4" = 1'-0"

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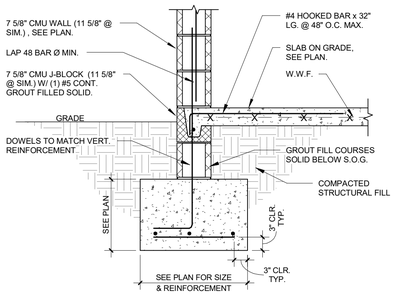
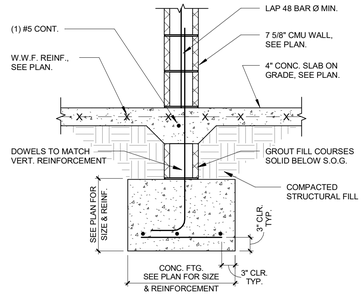
90% PERMIT SET

S5.1
TYPICAL DETAILS

Originals printed at 24" x 36"
scale as required



1 S6.0 SECTION
3/4" = 1'-0"



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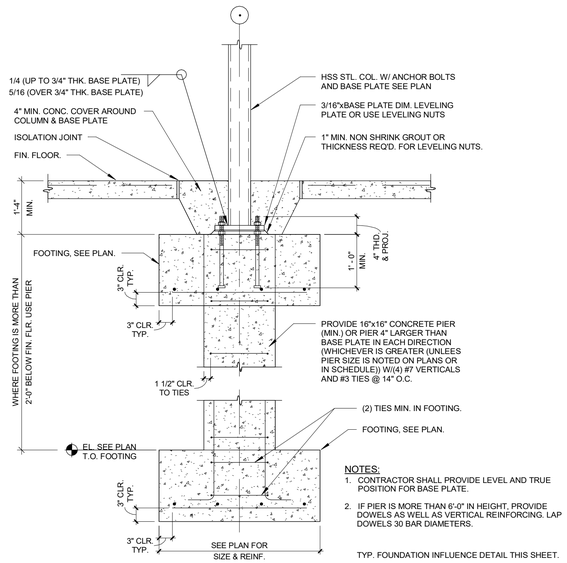
3/4" = 1'-0"



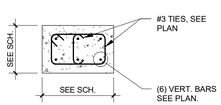
NOTES:
1. CONTRACTOR SHALL PROVIDE LEVEL AND TRUE POSITION FOR BASE PLATE.
2. IF PIER IS MORE THAN 6'-0" IN HEIGHT, PROVIDE DOWELS AS WELL AS VERTICAL REINFORCING. LAP DOWELS 30 BAR DIAMETERS.

TYP. FOUNDATION INFLUENCE DETAIL THIS SHEET.

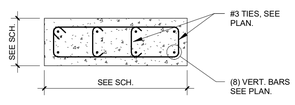
3 S6.0 SECTION
3/4" = 1'-0"

COLUMN SCHEDULE

COULMN TYPE	C1	C2	C3	C4	C5	C6	C7
COLUMN SIZE	HSS 6x6x5/8"	11 5/8"x24"	7 5/8"x24"	11 5/8"x12"	11 5/8"x15 3/8"	8 XXS PIPE	7 5/8"x29"
BASEPLATE FOUNDATION	3/4" x 12 x 12					3/4" x 14 x 14	
ANCHOR BOLTS	(4) 3/4" DIA					(4) 3/4" DIA	
VERT. REINF.		(8) #6 VERT.	(8) #6 VERT.	(6) #6 VERT.	(6) #6 VERT.		(6) #6 VERT.
TIE REINF.		#3 TIES @ 11" O.C.	#3 TIES @ 7" O.C.	#3 TIES @ 11" O.C.	#3 TIES @ 11" O.C.		#3 TIES @ 7" O.C.
REMARKS	SEE BP1 DETAIL					SEE BP1 DETAIL	



(6) BARS



(8) BARS

CONC. COLUMN DETAILS
1" = 1'-0"

FOOTING SCHEDULE
(2000 PSF MIN. BEARING CAPACITY)

MARK	F2.0A	F2.5A	F6.0A	F11.0A	F3.0	F3.5	F4.0	F5.5	F6.0	F7.0
FOOTING SIZE	2'-0" x CONT. x 16"THK.	2'-6" x CONT. x 16"THK.	6'-0" x CONT. x 16"THK.	11'-0" x CONT. x 16"THK.	3'-0" x 3'-0" x 16"THK.	3'-6" x 3'-6" x 16"THK.	4'-0" x 4'-0" x 16"THK.	5'-6" x 5'-6" x 16"THK.	6'-0" x 6'-0" x 16"THK.	7'-0" x 7'-0" x 16"THK.
REINF. E.W. BOTT. (UNO)	(3) #5 TOP & BOTT. CONT. W/ #5 @ 10" O.C. TOP & BOTT. TRANS.	(3) #5 TOP & BOTT. CONT. W/ #5 @ 10" O.C. TOP & BOTT. TRANS.	(7) #5 TOP & BOTT. CONT. W/ #5 @ 10" O.C. TOP & BOTT. TRANS.	(13) #5 TOP & BOTT. CONT. W/ #5 @ 10" O.C. TOP & BOTT. TRANS.	(4) #5 TOP & BOTT. EACH WAY	(4) #5 TOP & BOTT. EACH WAY	(5) #5 TOP & BOTT. EACH WAY	(7) #5 TOP & BOTT. EACH WAY	(7) #5 TOP & BOTT. EACH WAY	(8) #5 TOP & BOTT. EACH WAY
REMARKS										

NOTE: ALL WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH PAD FOOTING WHERE APPLICABLE.

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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No. 22009.01
Drawn By DEM
Checked By TCW
Date 02.02.24

Revisions:

90% PERMIT SET

S6.0
SECTIONS & DETAILS

bennett & pless, inc.
1381 Fifth Street • Sarasota, Florida 34236
Telephone: (941) 955-4555 • Fax: (941) 955-9333
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NOTE:

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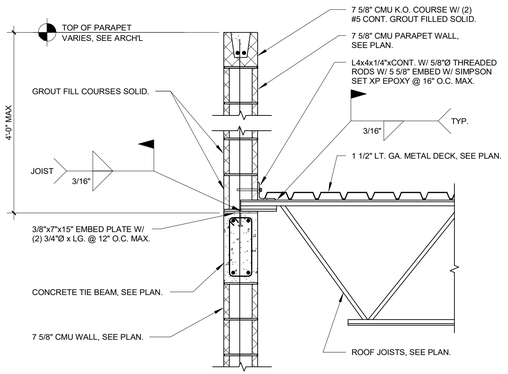
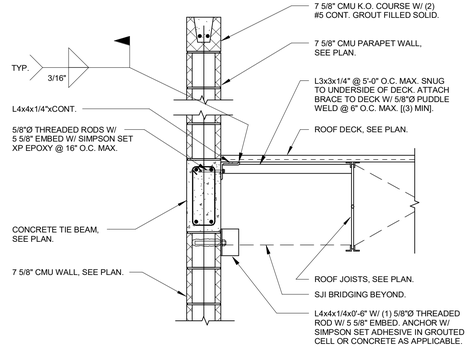


1 SECTION S7.0 3/4" = 1'-0"



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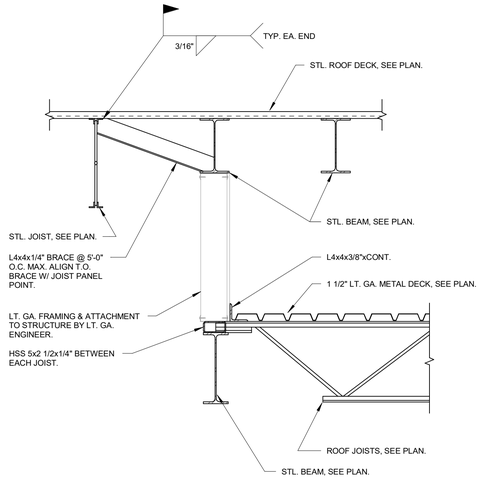

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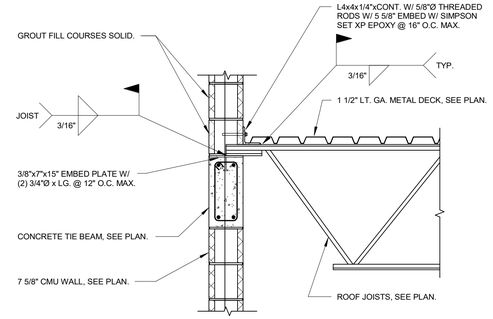

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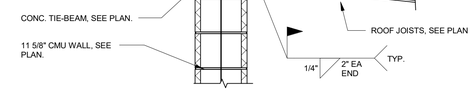

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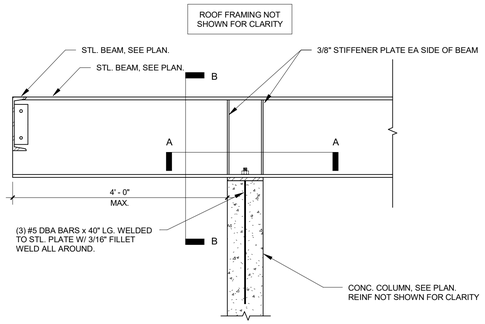

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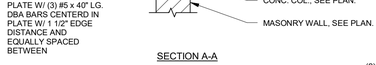
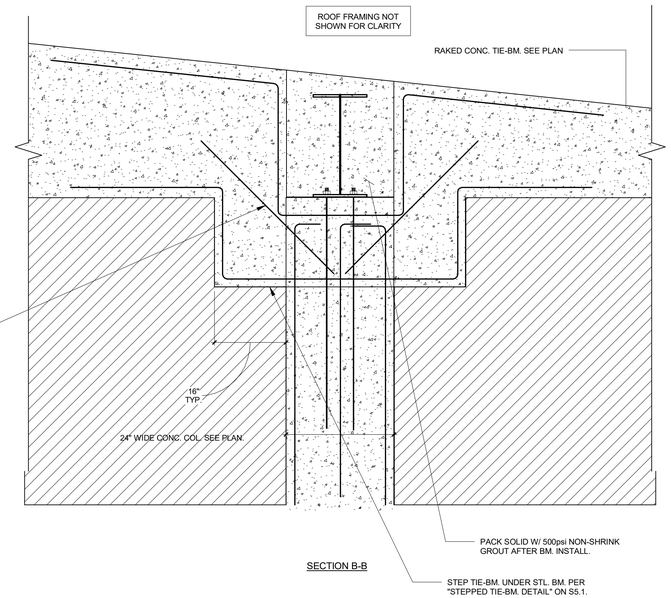
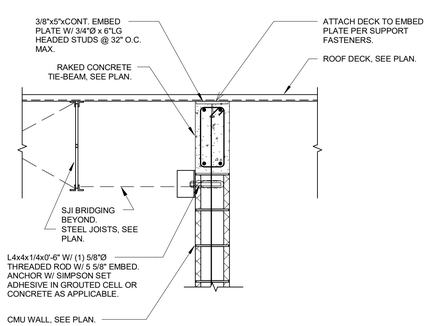


SECTION A-A



SECTION B-B



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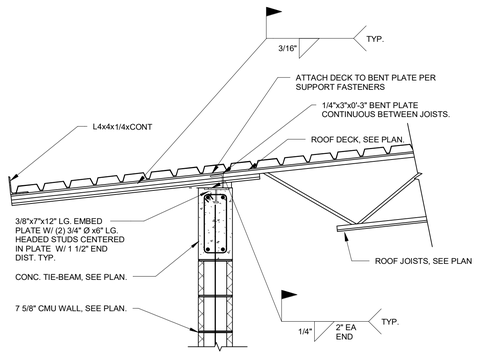
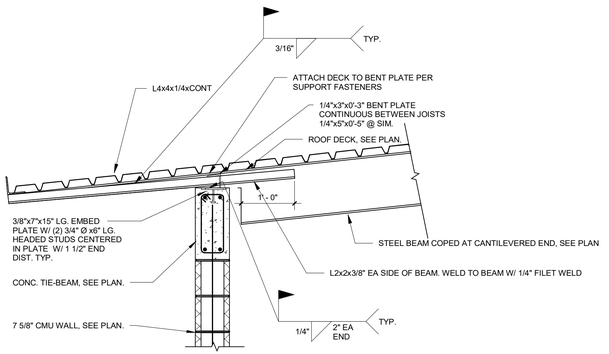


8 SECTION S7.0 3/4" = 1'-0"



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RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	DEM
Checked By	TCW
Date	02.02.24

Revisions:

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S7.0
SECTIONS & DETAILS

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MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	COMBINATION MAGNETIC MOTOR STARTER
	FUSIBLE DISCONNECT SWITCH
	THERMOMETER WITH NEEDLE VALVE
	PRESSURE OR VACUUM GAGE WITH NEEDLE VALVE
C	COMPOUND PRESSURE OR VACUUM GAGE WITH NEEDLE VALVE
FM	FLOW MONITOR
FS	FLOW SWITCH
	CIRCULATING PUMP
	SHOCK ARRESTOR
P/T	PRESSURE /TEMPERATURE PLUG
	GAS PLUG VALVE
	NEEDLE VALVE
	SIGNAL TYPE (AI,AO,DI,DO) FUNCTIONAL DESCRIPTION
	"AND" LOGIC GATE
	THREE INPUT "AND" LOGIC GATE
	"OR" LOGIC GATE
	TWO INPUT "OR " LOGIC GATE
DO	SIGNAL OUT OF DIGITAL (EMCS) SOFTWARE INTO HARDWARE
DI	SIGNAL OUT OF HARDWARE INTO DIGITAL (EMCS) SOFTWARE
CI	CONTROL RELAY HOLDING COIL
	NORMALLY OPEN CONTROL RELAY CONTACT
	NORMALLY CLOSED CONTROL RELAY CONTACT
T	THERMOSTAT – CLOSE ON TEMPERATURE RISE
	SINGLE POLE SWITCH
	'NOT' INPUT LOGIC

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	BRANCH CONNECTION OFF TOP
	BRANCH CONNECTION OFF BOTTOM
	45 DEGREE OFFSET
	PIPE ANCHOR
	PIPE EXPANSION GUIDES
	BRANCH CONNECTION OFF SIDE
	CAP ON END OF PIPE
	DIRECTION OF FLOW
	PIPE TRANSITION
	LUGGED BUTTERFLY VALVE
	LUGGED BUTTERFLY VALVE IN RISE
	GATE VALVE IN RISE
	FLANGED CONNECTION
	PIPE UNION
	SUCTION DIFFUSER
	ANGLE GATE VALVE W/ HOSE BIB
	PRESSURE REDUCING VALVE
	GATE TYPE SHUT–OFF VALVE
	GLOBE VALVE
	COMBINATION CALIBRATED BALANCING VALVE WITH MEMORY STOP AND SHUT–OFF VALVE
	TRIPLE DUTY VALVE (CALIBRATED BALANCING, SHUT–OFF AND CHECK)
	3–WAY CONTROL VALVE
	2–WAY CONTROL VALVE
	LUGGED BUTTERFLY TYPE SHUT–OFF VALVE
	SWING CHECK VALVE
	SHUT–OFF VALVE IN VALVE BOX
	ASME TEMPERATURE AND PRESSURE RELIEF VALVE
	SPRING CHECK VALVE
	Y–TYPE STRAINER WITH BLOW DOWN AND VALVE
	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	VIBRATION ISOLATOR
F	FLOAT TRAP
F/T	FLOAT AND THERMOSTATIC TRAP
T	THERMOSTATIC TRAP
D	THERMO–DYNAMIC DISC TRAP
	DRYER
	FILTER
	EXPANSION VALVE (THERMOSTATIC)
	SIGHT GLASS
	BALL SHUT–OFF VALVE
	LIQUID CHARGING VALVE
	LIQUID SHUT–OFF VALVE
	HOT GAS BYPASS VALVE
	HOT GAS TEE

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
AH 1	EQUIPMENT TAG (I.E. AIR HANDLER NUMBER 1) REFER TO MECHANICAL ABBREVIATIONS FOR REFERENCE
A 105	AIR DEVICE TAG (I.E. DEVICE MARK "A" WITH 105 CFM) REFER TO MECHANICAL AIR DEVICE SCHEDULE FOR INFORMATION
M3.1	SECTION NUMBER DRAWING NUMBER
1 M3.1	DETAIL NUMBER DRAWING NUMBER
	CONNECTION POINT OF NEW TO EXISTING
5	KEYED NOTE
1	REVISION MARKER (I.E. REVISION 1)
S	SMOKE DETECTOR IN DUCT W/ 6" X 6" ACCESS DOOR
T	THERMOSTAT/ TEMPERATURE SENSOR
H	HUMIDISTAT/ HUMIDITY SENSOR
CO_2	CO2 SENSOR
	EXISTING DEVICES OR EQUIPMENT TO REMAIN
	EXISTING DEVICES OR EQUIPMENT TO BE REMOVED
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	SUPPLY AIR DEVICE
	SUPPLY AIR DEVICE W/ 90° SECTORIZED BAFFLES PROVIDED IN SHADED QUADRANTS
	RETURN AIR DEVICE
	SUPPLY AIR DUCT SECTION DOWN/UP
	RETURN AIR DUCT SECTION DOWN/UP
	EXHAUST AIR DUCT SECTION DOWN/UP
	AIR FLOW
L	LOUVERED DOOR; LOUVERED DOOR SHALL BE MINIMUM 12" X 12" UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE ALL DOOR LOUVERS WITH DOOR INSTALLATION CONTRACTOR PRIOR TO BID.
U	UNDERCUT DOOR, DOORS SHALL HAVE A 1 INCH UNDERCUT. CONTRACTOR SHALL COORDINATE ALL DOOR UNDERCUTS WITH DOOR INSTALLATION CONTRACTOR PRIOR TO BID.
R	RISE IN DUCT ELEVATION IN DIRECTION OF AIRFLOW
D	DROP IN DUCT ELEVATION IN DIRECTION OF AIRFLOW
TV	90 DEGREE SQUARE ELBOW WITH TURNING VANES (DOUBLE LINE/SINGLE LINE)
	RADIUSED ELBOW WITH TURNING VANES (DOUBLE LINE/SINGLE LINE)
TV	DUCT TEE WITH TURNING VANES AND SPLITTER DAMPER (DOUBLE LINE/SINGLE LINE)
	NESTED RECTANGULAR BRANCH TAKE–OFF (DOUBLE LINE/SINGLE LINE)
	NESTED RADIUS BRANCH TAKE–OFF (DOUBLE LINE/SINGLE LINE)
	NESTED RADIUS TEE (DOUBLE LINE/SINGLE LINE)
	BRANCH TAKE OFF WITH SHOE FITTING (DOUBLE LINE/SINGLE LINE)
	SPIN–IN FITTING WITH VOLUME DAMPER (DOUBLE LINE/SINGLE LINE)
	CAP ON END OF DUCT (DOUBLE LINE/SINGLE LINE)
	DUCT TRANSITION (DOUBLE LINE/SINGLE LINE)
	RECTANGULAR TO ROUND TRANSITION (DOUBLE LINE/SINGLE LINE)
	RIGID TO FLEXIBLE DUCT (DOUBLE LINE/SINGLE LINE)
VD VD	VOLUME DAMPER (DOUBLE LINE/SINGLE LINE)
FD/AD	FIRE DAMPER WITH ACCESS DOOR
SD/AD	SMOKE DAMPER WITH ACCESS DOOR
FSD/AD	COMBINATION FIRE–SMOKE DAMPER WITH ACCESS DOOR
M	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER
AD	ACCESS DOOR IN DUCT
AD	ACCESS DOOR IN SIDE OF DUCT (DOUBLE LINE)
AD	ACCESS DOOR IN BOTTOM OF DUCT

MECHANICAL ABBREVIATIONS

EQUIPMENT

ABBREVIATION	DESCRIPTION
AC	MINI–SPLIT AIR HANDLER
CU	SPLIT SYSTEM CONDENSING UNIT
AM	AIR MONITOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
IV	INTAKE VENT
RF	RELIEF FAN

MECHANICAL ABBREVIATIONS

GENERAL

ABBREVIATION	DESCRIPTION
ø	DIAMETER/ELECTRICAL PHASE
(N)	NEW
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AL.	ALUMINUM
APPROX	APPROXIMATE
AUTO	AUTOMATIC
BMS	BUILDING MANAGEMENT SYSTEM
BC (BI)	BACKWARDS INCLINED (BACKWARDS CURVED)
C.	COMMON (ALWAYS OPEN)
C.D.	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CO2	CARBON DIOXIDE SENSOR/TRANSMITTER
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	PRESSURE DIFFERENTIAL SWITCH
DWG	DRAWING
E/A OR E.A.	EXHAUST AIR
E.G.	ELECTRICAL GROUND
FC	FORWARD CURVED OR FAIL CLOSED
FF	FLOW FEEDBACK/STATUS SIGNAL
FO	FAIL OPEN
FPM	FEET PER MINUTE
G.T.	GREATER THAN
H	HUMIDITY SENSOR/TRANSMITTER
HS	HUMIDISTAT
LS	LIMIT SWITCH
MD	MOTORIZED DAMPER ACTUATOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N.T.S	NOT TO SCALE
O/A OR O.A.	OUTSIDE AIR
O.B.D.	OPPOSED BLADE DAMPER
P	PRESSURE SENSOR/TRANSMITTER
PID	PROPORTIONAL INTEGRAL DERIVATIVE
R/A OR R.A.	RETURN AIR
S	WALL SWITCH 48" A.F.F. U.O.N.
S/A OR S.A.	SUPPLY AIR
S/S	STAINLESS STEEL
SP	SET POINT
SS	START/STOP SIGNAL
SQFT.	SQUARE FEET
PF	PROPORTIONAL, LINEARIZED FEEDBACK 4–20 mA SIGNAL
T	TEMPERATURE SENSOR OR TRANSMITTER 48" A.F.F. U.O.N.
TAB	TEST AND BALANCE
TD	TIME DELAY (RELAY OR SOFTWARE LATCH)
TS	THERMOSTAT
U.O.N.	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
VM	PID VALVE MODULATION
W/	WITH
W/O	WITHOUT
WR	CHW RESET SIGNAL 4–20 mA

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Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	TJC
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

M0.0
MECHANICAL LEGENDS

Originals printed at 24" x 36"
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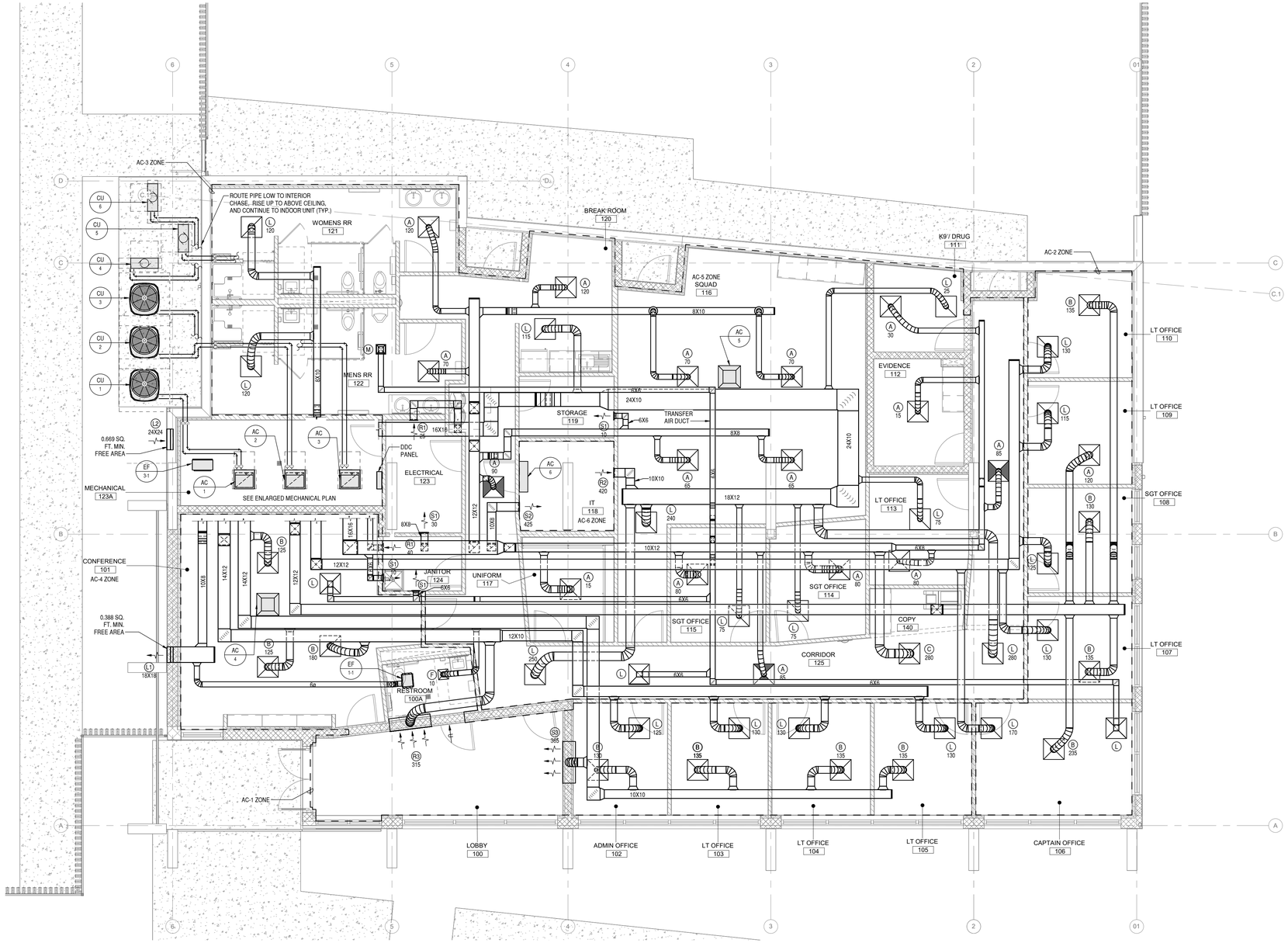
N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\MECHANICAL\M0.0 - MEHCANICAL LEGENDS.DWG
9/5/2023 6:39:50 AM 2/9/2024 9:45:22 AM

GENERAL NOTES

1. CONTRACTOR SHALL INSTALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSITIONS, FITTINGS, ELBOWS, DUCTWORK, PIPING, SUPPORTS, ETC. NECESSARY FOR A PROPER INSTALLATION AND OPERATION FOR A NEW HVAC SYSTEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSTALLATION WORK WITH OTHER TRADES TO AVOID CONFLICTS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH NEW LIGHT LOCATIONS AND NEW CEILING TILE LOCATIONS. REFER TO ARCHITECT'S REFLECTED CEILING PLAN LAYOUT.
5. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
6. DUCT SMOKE DETECTORS SHOWN ON PLANS ARE DIAGRAMMATIC. REFER TO MANUFACTURER'S INSTRUCTIONS FOR EXACT/OPTIMUM LOCATION IN DUCT.

BRANCH DUCT NOTES

1. ALL BRANCH DUCTWORK SHALL BE EQUIPPED WITH A CONICAL, BELLMOUTH OR 45 DEGREE TAKEOFF WITH VOLUME DAMPER. DAMPER SHALL BE STANDOFF TYPE WITH INDICATING AND LOCKING QUADRANT HANDLE. REFER TO MECHANICAL DETAILS FOR APPROVED BRANCH DUCT TYPES.
2. PROVIDE OPPOSED BLADE DAMPER, ADJUSTABLE FROM FACE OF AIR DEVICE, FOR ALL DEVICES LOCATED IN HARD CEILINGS.
3. BRANCH DUCTS ARE SHOWN DIAGRAMMATICALLY. WHERE SIDE DIMENSION OF DUCT DOES NOT ACCOMMODATE HEIGHT OF TAKE-OFF, CONTRACTOR MAY CONNECT TO BOTTOM OR TOP OF MAIN DUCT.



FLOOR PLAN - MECHANICAL | **1**

3/16" = 1'-0"

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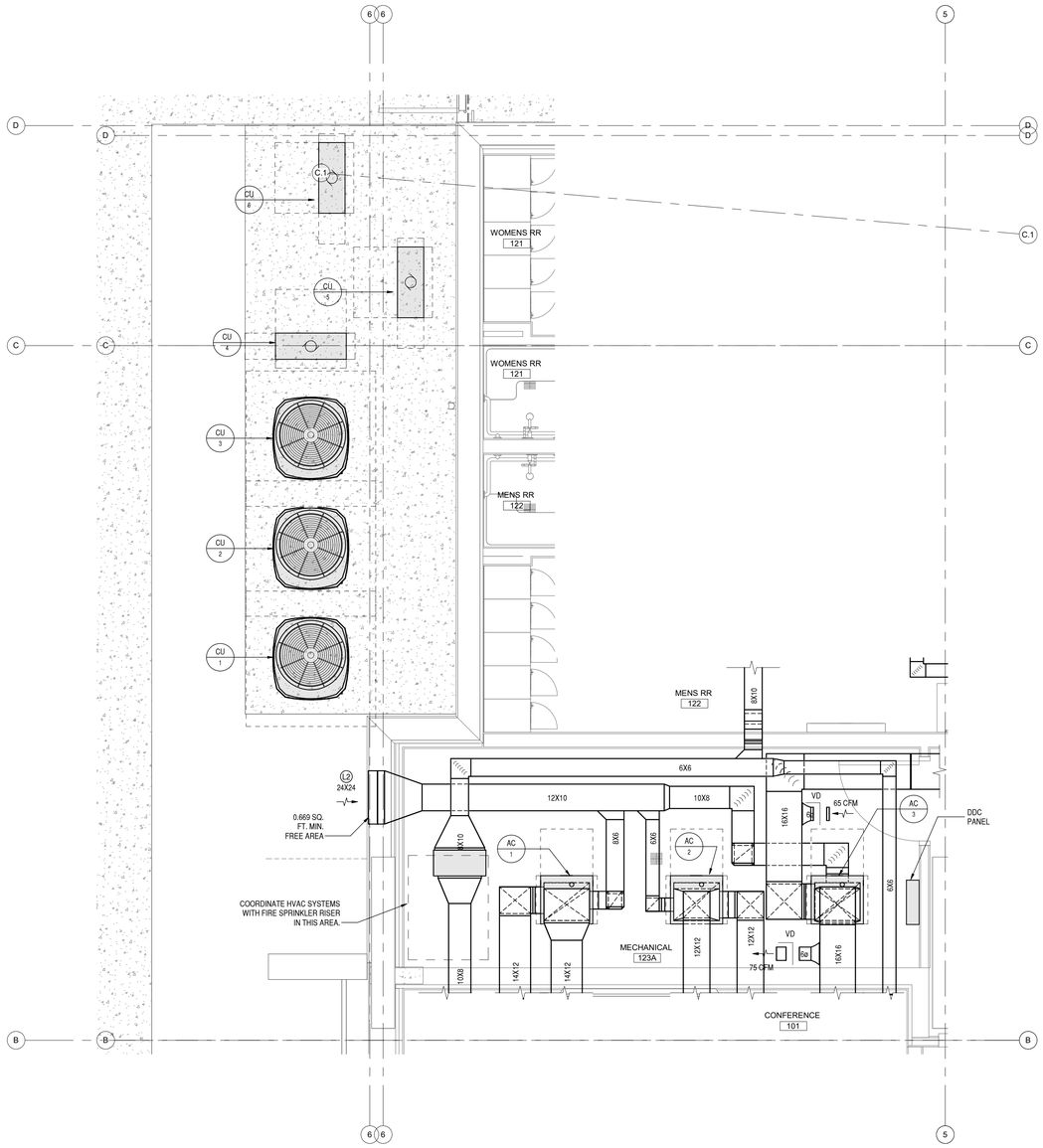
M2.1

FLOOR PLAN - MECHANICAL



ENLARGED FLOOR PLAN - MECH. RM & EQUIP. YD. | 1

3/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL INSTALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSITIONS, FITTINGS, ELBOWS, DUCTWORK, PIPING, SUPPORTS, ETC. NECESSARY FOR A PROPER INSTALLATION AND OPERATION FOR A NEW HVAC SYSTEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSTALLATION WORK WITH OTHER TRADES TO AVOID CONFLICTS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH NEW LIGHT LOCATIONS AND NEW CEILING TILE LOCATIONS. REFER TO ARCHITECT'S REFLECTED CEILING PLAN LAYOUT.
5. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
6. DUCT SMOKE DETECTORS SHOWN ON PLANS ARE DIAGRAMMATIC. REFER TO MANUFACTURER'S INSTRUCTIONS FOR EXACT/OPTIMUM LOCATION IN DUCT.

BRANCH DUCT NOTES

1. ALL BRANCH DUCTWORK SHALL BE EQUIPPED WITH A CONICAL, BELLMOUTH OR 45 DEGREE TAKEOFF WITH VOLUME DAMPER. DAMPER SHALL BE STANDOFF TYPE WITH INDICATING AND LOCKING QUADRANT HANDLE. REFER TO MECHANICAL DETAILS FOR APPROVED BRANCH DUCT TYPES.
2. PROVIDE OPPOSED BLADE DAMPER, ADJUSTABLE FROM FACE OF AIR DEVICE, FOR ALL DEVICES LOCATED IN HARD CEILINGS.
3. BRANCH DUCTS ARE SHOWN DIAGRAMMATICALLY. WHERE SIDE DIMENSION OF DUCT DOES NOT ACCOMMODATE HEIGHT OF TAKE-OFF, CONTRACTOR MAY CONNECT TO BOTTOM OR TOP OF MAIN DUCT.

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3391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 840, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

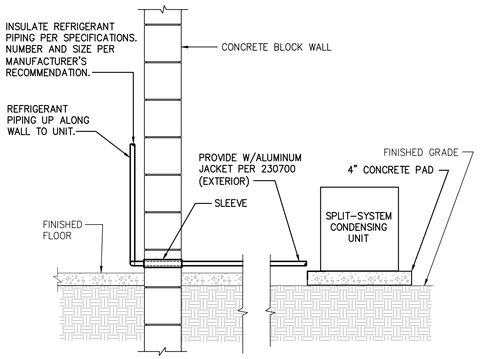
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	TJC/NSW
Checked By	JSW
Date	02.02.24

Revisions:

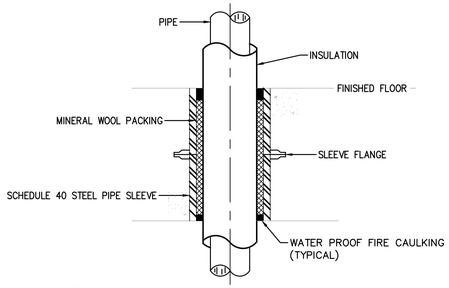
90% PERMIT SET

M2.2
ENLARGED FLOOR PLAN - MECHANICAL



REFRIGERANT PIPING DETAIL

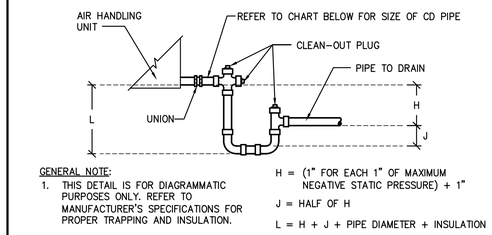
NO SCALE TYP. OF XXX



NOTE:
1. ALTERNATE: SCHEDULE 40 STEEL SLEEVE W/ANCHOR FLANGE & LINK SEAL AS MANUFACTURED BY THUNDERLINE CORP. OR EQUAL
2. CONTRACTOR SHALL SUBMIT U.L. APPROVED PENETRATION DETAIL FOR PENETRATIONS IN RATED WALLS AND FLOORS.

WATERTIGHT SLEEVE DETAIL

NO SCALE

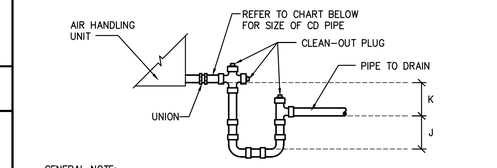


GENERAL NOTE:
1. THIS DETAIL IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO MANUFACTURER'S SPECIFICATIONS FOR PROPER TRAPPING AND INSULATION.

H = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1"
J = HALF OF H
L = H + J + PIPE DIAMETER + INSULATION

DRAW-THRU COIL CONFIGURATION

TYP. OF XXX



GENERAL NOTE:
1. THIS DETAIL IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO MANUFACTURER'S SPECIFICATIONS FOR PROPER TRAPPING AND INSULATION.

K = MINIMUM 1/2"
J = 1/2" PLUS MAX TOTAL STATIC PRESSURE DROP

BLOW-THRU COIL CONFIGURATION

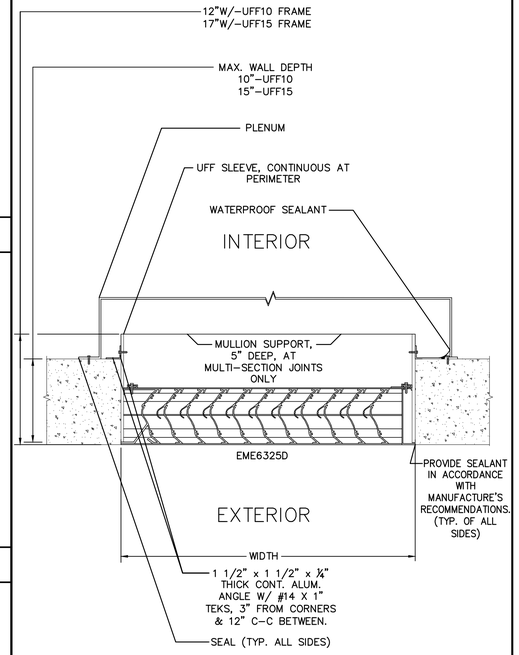
TYP. OF XXX

CONDENSATE PIPE SIZE	
COOLING COIL MBH (TON)	DIAMETER (INCH)
UP TO 240 (20)	¾
UP TO 480 (40)	1
UP TO 1080 (90)	1¼
UP TO 1500 (125)	1½
UP TO 3000 (250)	2
NOTES	①

KEYED NOTE:
① REFER TO AIR HANDLER SCHEDULE FOR COOLING COIL MBH/TON.

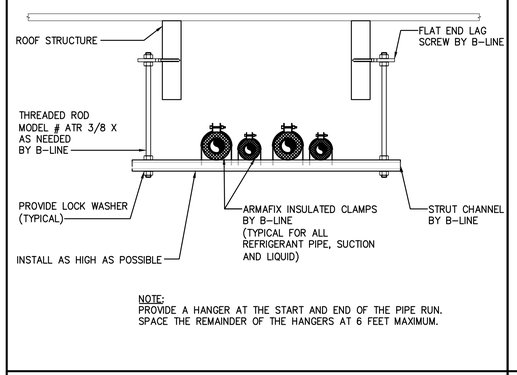
TYPICAL CONDENSATE DRAIN AND TRAP DETAIL

NO SCALE



RUSKIN EME6325D LOUVER FRAME INSTALLATION DETAIL

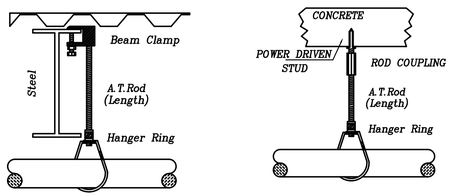
NO SCALE



NOTE:
PROVIDE A HANGER AT THE START AND END OF THE PIPE RUN. SPACE THE REMAINDER OF THE HANGERS AT 6 FEET MAXIMUM.

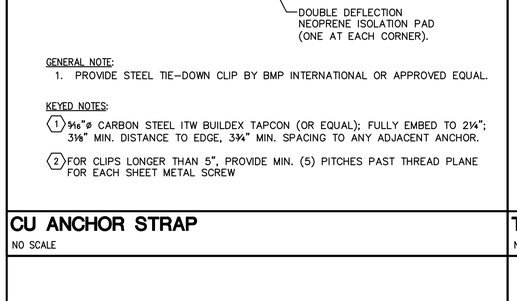
REFRIGERANT PIPE HANGER DETAIL

NO SCALE



HANGER DETAILS

NO SCALE

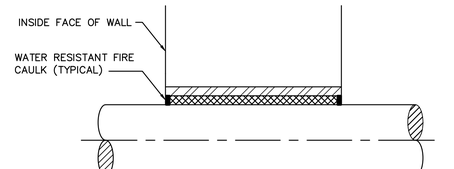


GENERAL NOTE:
1. PROVIDE STEEL TIE–DOWN CLIP BY BMP INTERNATIONAL OR APPROVED EQUAL.

KEYED NOTES:
① 5/16"ø CARBON STEEL ITW BUILDEX TAPCON (OR EQUAL); FULLY EMBED TO 2¼"; 3⅛" MIN. DISTANCE TO EDGE, 3¾" MIN. SPACING TO ANY ADJACENT ANCHOR.
② FOR CLIPS LONGER THAN 5", PROVIDE MIN. (5) PITCHES PAST THREAD PLANE FOR EACH SHEET METAL SCREW

CU ANCHOR STRAP

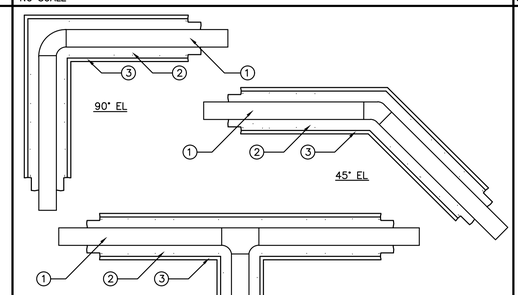
NO SCALE



NOTE:
CONTRACTOR SHALL SUBMIT U.L. APPROVED PENETRATION DETAIL FOR PENETRATIONS IN RATED WALLS AND FLOORS.

TYPICAL WALL SLEEVE DETAIL

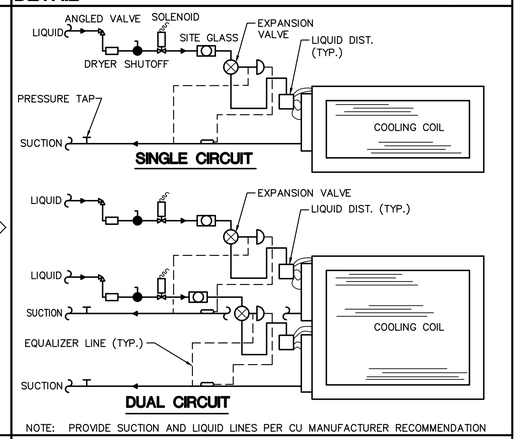
NO SCALE



NOTE:
ALL FITTINGS SHALL BE FACTORY FABRICATED BY PRE–INSULATED PIPE MANUFACTURER

TYPICAL FACTORY PRE-INSULATED PIPE FITTING DETAIL

NO SCALE



NOTE: PROVIDE SUCTION AND LIQUID LINES PER CU MANUFACTURER RECOMMENDATION

TYPICAL DX COIL PIPING DIAGRAM

NO SCALE

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FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
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RANGELAND PKWY AND UIHLEIN RD

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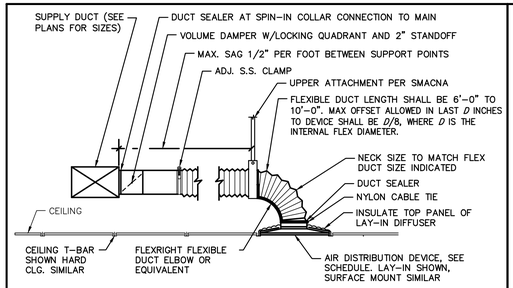
Revisions:

90% PERMIT SET

M3.1
MECHANICAL DETAILS

Originals printed at 24" x 36" scale as required

N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\MECHANICAL\M3.0 - MECHANICAL DETAILS.DWG
9/5/2023 6:39:50 AM 2/9/2024 9:45:32 AM

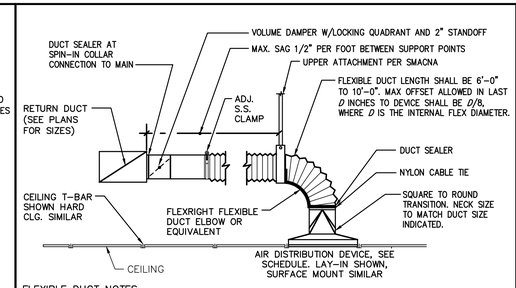


FLEXIBLE DUCT NOTES

1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. MIN. 1" WIDE 22 GALV. STRAP HANGER WITH HEMMED EDGES PER SMACNA FIGURE 3-10.
4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED WITH ELBOW RADIUS NO LESS THAN R/D = 1.0
5. HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING FLEXIBLE DUCT AND IN DIRECT CONTACT WITH IT BE LESS THAN 1½ INCHES (38mm) WIDE.

TYPICAL SUPPLY FLEXIBLE DUCT DETAIL

NO SCALE



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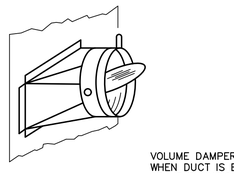
6. WHERE RECTANGULAR HARD DUCT IS SHOWN, CONTRACTOR SHALL INSTALL DUCT AS SIZED ON THE MECHANICAL FLOOR PLANS IN ACCORDANCE WITH MECHANICAL SPECIFICATIONS.

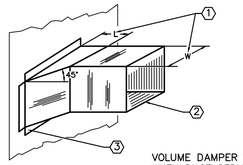
TYPICAL FLEXIBLE DUCT DETAIL FOR NON-SUPPLY AIR SYSTEMS

NO SCALE



BUCKLEY MODEL 3300D
45° BRANCH CONNECTION
NO SCALE (TYPICAL)

VOLUME DAMPER WITH EXTENDED STEM IS REQUIRED WHEN DUCT IS EXTERNALLY WRAPPED. PROVIDE WITH STAMPED, INDICATING LOCKING QUADRANT HANDLE.



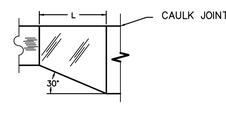
45° BRANCH CONNECTION
NO SCALE (TYPICAL)

① L = 1/4" W OR 4"MINIMUM

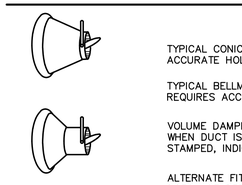
② TO BRANCH DUCT

③ CAULK AIR-JOINT AIR-TIGHT

VOLUME DAMPER WITH EXTENDED STEM IS REQUIRED WHEN DUCT SERVING SIDEWALL AIR DEVICE. PROVIDE WITH STAMPED, INDICATING LOCKING QUADRANT HANDLE.



ECCENTRIC TRANSITION
NO SCALE (TYPICAL)



TYPICAL CONICAL TAP FOR BRANCH DUCTS, REQUIRES ACCURATE HOLE CUT

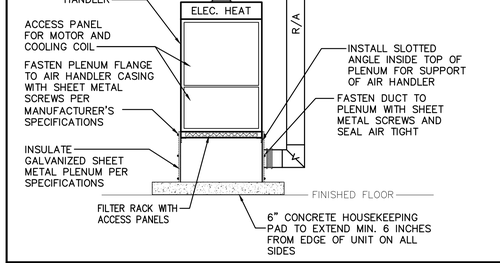
TYPICAL BELLMOUTH TAP FOR BRANCH DUCTS, REQUIRES ACCURATE HOLE CUT

VOLUME DAMPER WITH EXTENDED STEM IS REQUIRED WHEN DUCT IS EXTERNALLY WRAPPED. PROVIDE WITH STAMPED, INDICATING LOCKING QUADRANT.

ALTERNATE FITTINGS TO BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF THE FULL SIZE BELLMOUTH/CONICAL TAP INCLUDE: MINI-BELLMOUTH (M-BMD), OVAL-BELLMOUTH (FOBMD) AND STD 45° RECTANGULAR TO ROUND (3300D)

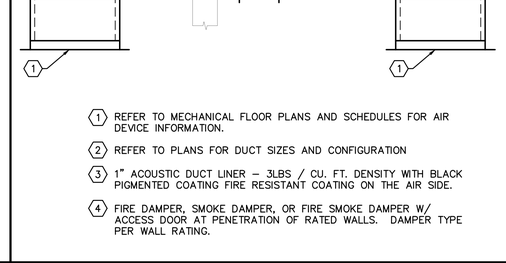
TYPICAL BRANCH TAKE-OFF DETAILS

NO SCALE



VERTICAL AIR HANDLER DETAIL

NO SCALE



1. REFER TO MECHANICAL FLOOR PLANS AND SCHEDULES FOR AIR DEVICE INFORMATION.
2. REFER TO PLANS FOR DUCT SIZES AND CONFIGURATION
3. 1" ACOUSTIC DUCT LINER - 3LBS / CU. FT. DENSITY WITH BLACK PIGMENTED COATING FIRE RESISTANT COATING ON THE AIR SIDE.
4. FIRE DAMPER, SMOKE DAMPER, OR FIRE SMOKE DAMPER W/ ACCESS DOOR AT PENETRATION OF RATED WALLS. DAMPER TYPE PER WALL RATING.

TYPICAL TRANSFER DUCT DETAIL

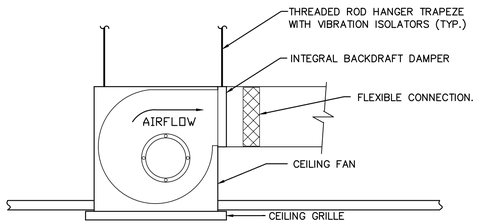
NO SCALE

NOTE:

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND MOUNTING SPECIFICATIONS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR OUTDOOR PRESSURE PORT LOCATION REQUIREMENTS.

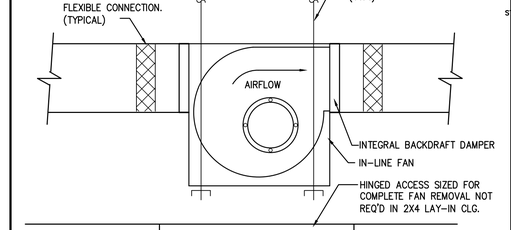
WALL MOUNTED PRESSURE PORT DETAIL

NO SCALE



TYPICAL CEILING MOUNTED FAN INSTALLATION DETAIL

NO SCALE



TYPICAL IN-LINE FAN INSTALLATION DETAIL

NO SCALE

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Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

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2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
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Revisions:

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M3.2
MECHANICAL DETAILS

FAN SCHEDULE

MARK	–	EF–1–1	EF–3–1
MANUFACTURER	–	GREENHECK	GREENHECK
MODEL NUMBER	–	SP–B110	CSP–A700–VG
AIRFLOW	CFM	50	280
EXT. STATIC PRESSURE	IN. H2O	0.60	0.78
FAN TYPE	–	FORWARD CURVED	FORWARD CURVED
DRIVE TYPE	–	DIRECT	DIRECT
MAXIMUM GENERATED NOISE	SONES	2.0	2.0
FAN SPEED	RPM	762	1,363
MOTOR SIZE	–	80 W	96 W
CONTROLS	–	INTERLOCK W/AC–1	INTERLOCK W/AC–3
LOCATION	–	ABOVE CEILING	ABOVE CEILING
ELECTRICAL CHARACTERISTICS	V/ø/HZ	115/1/60	115/1/60
NOTES	–	①②③④	①②③⑤

KEYED NOTES:

① PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO FAN.

② PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER. REFER TO MECHANICAL DETAILS FOR FURTHER DETAILS.

③ PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.

④ PROVIDE FAN WITH SPEED CONTROLLER. MOUNT SPEED CONTROLLER IN 2x4 METALLIC BOX ADJACENT TO FAN. TEST AND BALANCE CONTRACTORS SHALL ADJUST FAN PERFORMANCE THROUGH USE OF SPEED CONTROLLER.

⑤ FAN SHALL BE PROVIDED WITH VARIGREEN MOTOR AND SHALL BE CONTROLLED BY 0–10VDC CONTROL SIGNAL.

VENTILATION SCHEDULE

	PEOPLE AND AREA			EXHAUST AND PRESSURIZATION			DESIGN	
MARK	NUMBER OF PEOPLE	TOTAL AREA (SQFT)	PEOPLE + AREA OUTDOOR (CFM) ①	EXHAUST AIR (CFM)	PRESSURE AIR (CFM)	EXHAUST + PRESS AIR (CFM)	OUTDOOR AIR INTAKE (CFM)	TRANSFER AIR (CFM)
AC–1	29	1,055	150	50	50	100	150	–50
AC–2	17	570	85	0	30	30	85	–55
AC–3	31	2,855	300	280	125	405	300	+105 ②

KEYED NOTES:

① OUTDOOR AIR CALCULATION BASED ON 2020 FLORIDA BUILDING CODE – MECHANICAL, SEVENTH EDITION TABLE 403.3. VALUE LISTED IN TABLE IS THE CORRECTED O/A VALUE.

② TRANSFER/MAKEUP AIR FROM AC–1 AND AC–2 FOR RESTROOMS.

AIR DEVICE SCHEDULE

MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER AND MODEL	NOTES
A	24X24	6"ø	ALUMINUM			METALAIRE–5700	①②
B	24X24	8"ø	ALUMINUM			METALAIRE–5700	①②
C	24X24	10"ø	ALUMINUM			METALAIRE–5700	①②
D	24X24	12"ø	ALUMINUM			METALAIRE–5700	①②
E	24X24	14"ø	ALUMINUM			METALAIRE–5700	①②
F	12X12	6"ø	ALUMINUM			METALAIRE–5000	①②⑥
L	24X24	22X22	ALUMINUM			METALAIRE–7550R	③④⑤⑥
M	12X12	10X10	ALUMINUM			METALAIRE–7550R	③④⑤⑥
S1	10X10	8X8	ALUMINUM			METALAIRE–H4002	②
S2	12X12	10X10	ALUMINUM			METALAIRE–H4002	②
S3	48X4	10"ø (U.O.N)	ALUMINUM			METALAIRE–6610 (1" 2–SLOTS)	①②⑦
R1	10X10	8X8	ALUMINUM			METALAIRE–H4002R	②④
R2	12X12	10X10	ALUMINUM			METALAIRE–H4002R	②④
R3	14X14	10"ø (U.O.N)	ALUMINUM			METALAIRE–6675R (3/4" 2–SLOTS)	①②⑦

AIR DEVICE GENERAL NOTES:

1. ALL UNITS FOR LAY–IN T–BAR GRILLE SHALL BE PROVIDED WITH TYPE 6 BORDER CEILING MODULE (24X24).
2. ALL AIR DEVICES SHALL HAVE PAINTED WHITE FINISH UNLESS COLOR COORDINATED WITH ARCHITECT.
3. ALL 24X24 FACE AIR DEVICES INSTALLED IN HARD CEILINGS SHALL BE PROVIDED WITH T–BAR FRAME FOR PLASTER OR GYPSUM CEILINGS.
4. PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED FOR COORDINATION OF DUCT AND AIR DEVICE NECK.
5. COORDINATE FRAME TYPE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
6. INSULATE THE TOPS OF ALL SUPPLY AIR DEVICES, REFER TO SPECIFICATIONS.
7. AIR DEVICES LOCATED IN HARD CEILINGS, SOFFITS, OR SIDE WALLS WITH INACCESSIBLE BRANCH DUCTS, SHALL BE EQUIPPED WITH AN OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.

KEYED NOTES:

① FLEX DUCT SIZE TO MATCH NECK SIZE. MINIMUM LENGTH OF FLEX SHALL BE 6'–0"; MAXIMUM LENGTH OF FLEX DUCT SHALL BE 10'–0". BALANCE OF DUCT SHOWN ON PLAN SHALL BE EXTERNALLY INSULATED, RIGID STEEL DUCT, SAME SIZE AS NECK SIZE.

② PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS. PROVIDE MANUFACTURER'S SPECIFIED OPPOSED BLADE DAMPER FOR AIR DEVICES IN HARD CEILING.

③ ALUMINUM ½"x½"x½" GRID.

④ AIR DEVICES USED FOR THE TRANSFER OF AIR DO NOT REQUIRE OPPOSED BLADE DAMPER OR FILTER.

⑤ HORIZONTAL RUNOUT BRANCH DUCTS SERVING A SINGLE AIR DEVICE WITH:
- 95 C.F.M. OR LESS SHALL BE 6"ø RIGID STEEL DUCT AND TRANSITION TO 6"ø FLEX DUCT PRIOR TO AIR DEVICE,
- 100 TO 200 C.F.M. SHALL BE 8"ø RIGID STEEL DUCT AND TRANSITION TO 8"ø FLEX DUCT PRIOR TO AIR DEVICE,
- 205 TO 370 C.F.M. SHALL BE 10"ø RIGID STEEL DUCT AND TRANSITION TO 10"ø FLEX DUCT PRIOR TO AIR DEVICE,
- 375 TO 600 C.F.M. SHALL BE 12"ø RIGID STEEL DUCT AND TRANSITION TO 12"ø FLEX DUCT PRIOR TO AIR DEVICE,
- 605 TO 900 C.F.M. SHALL BE 14"ø RIGID STEEL DUCT AND TRANSITION TO 14"ø FLEX DUCT PRIOR TO AIR DEVICE,
- ALL ELSE SHALL BE 22X10 AND TRANSITION TO 22X22, UNLESS OTHERWISE NOTED,
- MINIMUM LENGTH OF FLEX SHALL BE 6'–0" TO MAXIMUM LENGTH OF 10'–0".

⑥ PROVIDE MANUFACTURER'S SPECIFIED SQUARE TO ROUND DUCT TRANSITION.

DX MINI–SPLIT SYSTEM A/C SCHEDULE

AIR HANDLER DATA

MARK	–	AC–4	AC–5	AC–6
AREA SERVED	–	CONFERENCE 101	SQUAD 116	IT 118
MANUFACTURER	–	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NUMBER	–	SLZ–KF–09	SLZ–KF12	PKA–A12
RATED TOTAL COOLING CAPACITY	BTUH	9,000	12,000	12,000
MAX. SENSIBLE COOLING CAPACITY	BTUH	7,830	8,880	9,720
MOTOR SIZE	W	30	56	30
S.E.E.R.	BTUH/W	22.4	22.0	20.8
FILTER TYPE	–	WASHABLE	WASHABLE	WASHABLE
WEIGHT	LBS.	30.6	30.6	29

CONDENSING UNIT DATA

MARK	–	CU–4	CU–5	CU–6
MANUFACTURER	–	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NUMBER	–	SUZ–KA09	SUZ–KA12	PUY–A12
REFRIGERANT	–	R410A	R410A	R410A
OUTDOOR TEMPERATURE	°F	95	95	95
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/1/60	208/1/60	208/1/60
MINIMUM CIRCUIT AMPACITY	AMPS	9	12	11
MAX. OVERCURRENT PROTECTION	AMPS	15	15	15
NOTES	–	① THRU ⑦	① THRU ⑦	① THRU ⑦

KEYED NOTES:

① PROVIDE THE NUMBER AND SIZE OF REFRIGERANT LINES PER THE MANUFACTURER'S RECOMMENDATIONS BASED ON LENGTH OF PIPING, CHANGES IN ELEVATION OF PIPING, PRESSURE DROP, AND REFRIGERANT TYPE.

② PROVIDE WITH MANUFACTURER'S WALL MOUNTED, HARD–WIRED, PROGRAMMABLE THERMOSTAT, INCLUDING ALL ADAPTERS, WIRES, SENSORS, ETC. AS REQUIRED TO INSTALL A FULLY FUNCTIONAL SYSTEM.

③ PROVIDE DDC TEMPERATURE SENSOR WITHIN SPACES SERVED BY MINI–SPLIT AIR CONDITIONING SYSTEM FOR MANAGEMENT OF SPACE TEMPERATURE BY DDC CONTROLS SYSTEM.

④ PROVIDE 3/4"ø CONDENSATE DRAIN. REFER TO PLUMBING FLOOR PLANS FOR PIPE ROUTING.

⑤ PROVIDE CONDENSATE OVERFLOW CUTOFF SWITCH TO SHUT UNIT DOWN UPON PRESENCE OF WATER.

⑥ PROVIDE UNIT WITH CONDENSATE PUMP BY SAUERMANN, MODEL S130. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL PIPING, PIPE FITTINGS, SUPPORTS, ETC. PER MANUFACTURER'S RECOMMENDATIONS.

⑦ PROVIDE CORROSION RESISTANT COATING FOR CONDENSER COILS (TUBES AND FINS) AND EXPOSED CABINETRY. CORROSION RESISTANT COATING SHALL:
A. BE FACTORY OR FIELD APPLIED;
B. RESULT IN LESS THAN A 1% LOSS OF RATED HEAT TRANSFER CAPACITY;
C. BE RESISTANT TO MATERIALS WITH A PH RANGE FROM 3 TO 11;
D. HAVE A SALT SPRAY TEST RATING OF AT LEAST 5,000 HOURS;
E. BE NON–FLAMMABLE.
F. ACCEPTABLE COATINGS:
1. ADSIL
2. ELECTROFIN
3. BRONZ–GLOW

LOUVER SCHEDULE

MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER AND MODEL
L1	20X20	18X18	ALUMINUM	BIRDSCREEN	70% KYNAR (2 COAT)	RUSKIN EME6325D
L2	26X26	24X24	ALUMINUM	BIRDSCREEN	70% KYNAR (2 COAT)	RUSKIN EME6325D

LOUVER SCHEDULE GENERAL NOTES

1. LOUVER SHALL HAVE FLORIDA PRODUCT APPROVAL AND BE AMCA 540 AND AMCA 550 APPROVED. WIND–DRIVEN RAIN APPROVALS SHALL NOT REQUIRE THE USE OF A CONTROL DAMPER.
2. PROVIDE WITH SHEET METAL PLENUM 12" DEEP X FACE DIMENSION FOR TRANSITION OF LOUVER TO DUCT. REFER TO MECHANICAL DETAILS FOR MORE INFORMATION.

SPLIT SYSTEM A/C SCHEDULE

AIR HANDLING UNIT DATA

MARK	–	AC–1	AC–2	AC–3
MANUFACTURER	–	TRANE	TRANE	TRANE
MODEL	–	GAM5B0B36M31	GAM5B0A24M21	GAM5B0C60M51
NET TOTAL COOLING CAPACITY	MBH	34.301	21.861	56.045
NET SENSIBLE CAPACITY	MBH	23.651	18.949	42.239
SUPPLY AIRFLOW	CFM	1,160	755	1,970
OUTSIDE AIRFLOW	CFM	150	85	300
MOTOR SIZE	HP	1/2	1/3	1
ENTERING AIR TEMP. DB/WB	°F/°F	75.20/64.50	75.90/61.20	76.60/65.00
LEAVING AIR TEMP. DB/WB	°F/°F	56.20/54.40	52.50/50.50	56.60/55.40
EXT. STATIC PRESSURE	IN. H20	0.8	0.8	0.8
ELECTRICAL	V/ø/HZ	208/3/60	208/1/60	208/3/60
ELECTRIC HEAT/STAGES OF HEAT	KW/–	7.20/1	5.76/1	10.8/1
MINIMUM CIRCUIT AMPACITY	AMPS	30.0	38.0	46.0
MAXIMUM OVERCURRENT PROTECTION	AMPS	30.0	40.0	50.0
E.E.R.	BTUH/W	11.5	12.0	11.7
FILTER	–	1" MERV 8	1" MERV 8	1" MERV 8
DIMENSIONS (WxDxH)	IN.	21x22x56	18X22X50	24X22X62
WEIGHT	LBS.	142	120	170

CONDENSING UNIT DATA

MARK	–	CU–1	CU–2	CU–3
MANUFACTURER	–	TRANE	TRANE	TRANE
MODEL	–	4TTA3036B3	4TTR4024N1	4TTA4060A3
REFRIGERANT	–	R410	R410	R410
OUTDOOR TEMPERATURE	°F	95	95	95
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/3/60	208/1/60	208/3/60
UNIT MAX OVERCURRENT PROTECTION	AMPS	20.0	25.0	35.0
CONDENSER FAN FLA (QTY/LOAD)	(–/AMPS)	1/0.7	1/0.9	1/1.05
COMPRESSOR 1 RLA	AMPS	11.5	10.9	15.9
COMPRESSOR 2 RLA	AMPS	NONE	NONE	NONE
DIMENSIONS (WxDxH)	IN.	33X30X29	29X26X29	37X34X37
WEIGHT	LBS.	201	133	211
NOTES:	–	① THRU ⑥	① THRU ⑥	① THRU ⑥

KEYED NOTES:

① PROVIDE THE NUMBER AND SIZE OF REFRIGERANT LINES PER THE MANUFACTURER'S RECOMMENDATIONS BASED ON LENGTH OF PIPING, CHANGES IN ELEVATION OF PIPING, PRESSURE DROP, AND REFRIGERANT TYPE.

② PROVIDE THREE (3) SETS OF REPLACEMENT FILTERS: ONE TO BE USED DURING CONSTRUCTION, THE SECOND SET TO BE USED AT THE START OF THE TEST AND BALANCE PROCESS AND THE FINAL SET TO BE INSTALLED AT FINAL COMPLETION.

③ PROVIDE SYSTEM WITH NECESSARY CONTROLS TO CONNECT TO MAIN BUILDING MANAGEMENT SYSTEM.

④ PROVIDE SINGLE POINT POWER CONNECTION FOR AIR HANDLERS WITH FACTORY PROVIDED ELECTRIC HEAT. CONDENSING UNIT SHALL BE LOCKED OUT IN HEATING MODE.

⑤ PROVIDE CONDENSATE OVERFLOW CUTOFF SWITCH TO SHUT UNIT DOWN UPON PRESENCE OF WATER.

⑥ PROVIDE CORROSION RESISTANT COATING FOR EVAPORATOR COILS, CONDENSER COILS (TUBES AND FINS) AND EXPOSED CABINETRY. CORROSION RESISTANT COATING SHALL:
A. BE FACTORY OR FIELD APPLIED;
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C. BE RESISTANT TO MATERIALS WITH A PH RANGE FROM 3 TO 11;
D. HAVE A SALT SPRAY TEST RATING OF AT LEAST 5,000 HOURS;
E. BE NON–FLAMMABLE.
F. ACCEPTABLE COATINGS:
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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
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EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE
AT PREMIER CAMPUS
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	TJC/NSW
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

M4.1
MECHANICAL SCHEDULES

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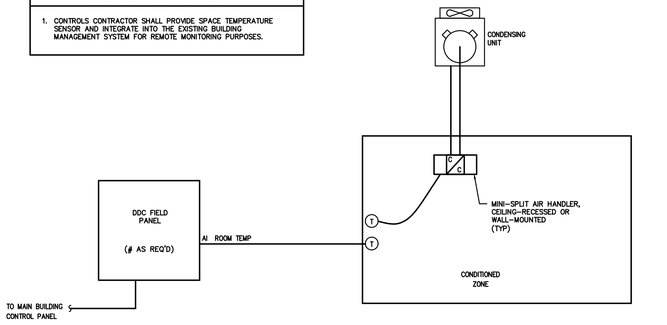
GENERAL NOTES

1. CONTROLS CONTRACTOR SHALL PROVIDE SPACE TEMPERATURE SENSOR AND INTEGRATE INTO THE EXISTING BUILDING MANAGEMENT SYSTEM FOR REMOTE MONITORING PURPOSES.



DX MINI-SPLIT SYSTEM UNIT - CONTROL SCHEMATIC AND LOGIC DIAGRAM

SCALE: NONE TYPICAL

LEAD / LAG AIR HANDLER SEQUENCE

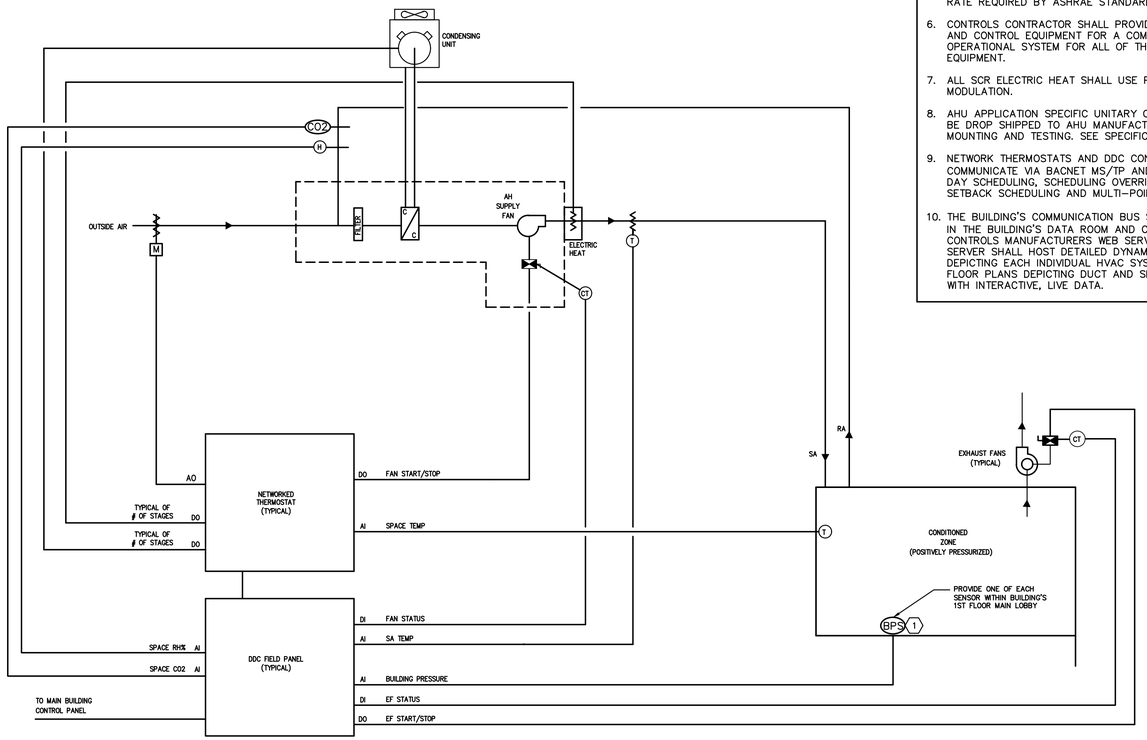
1. THE BUILDING'S CENTRAL STATION AIR HANDLERS SHALL BE DESIGNATED AS THE LEAD UNIT WITH A 74°F CLG SETPOINT (ADJ) AND 70°F HTG SETPOINT (ADJ). THE AIR HANDLER'S FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
2. MINI-SPLIT AIR CONDITIONERS (AC-4, AC-5, AND AC-6) SHALL BE DESIGNATED AS THE LAG UNIT WITH A 76°F CLG SETPOINT (ADJ.). THE AIR HANDLER'S FAN SHALL CYCLE DURING OCCUPIED HOURS TO SATISFY IT'S SPACE TEMPERATURE SETPOINT.
3. THE OUTSIDE AIR DAMPER FOR EACH LEAD UNIT SHALL OPEN DURING OCCUPIED HOURS WHEN THE AIR HANDLER FAN IS OPERATING.

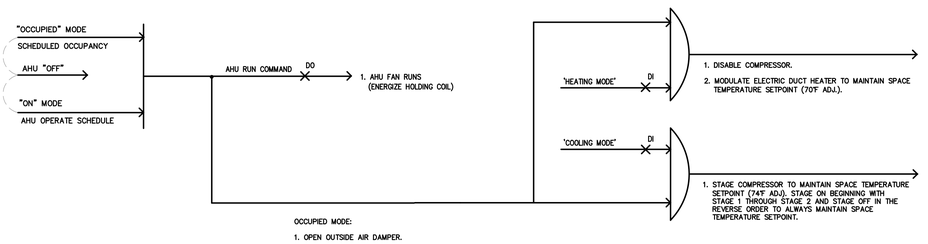
KEYED NOTES

1. PROVIDE BUILDING PRESSURIZATION SENSOR FOR THE BUILDING. REFER TO SPECIFICATIONS FOR SENSOR TYPE. POSITIVE BUILDING PRESSURE SETPOINT SHALL BE SET BASED ON THE TEST & BALANCE CONTRACTORS REPORT.

GENERAL NOTES

1. COMPRESSORS SHALL BE LOCKED OUT DURING HEATING MODE.
2. ALL COMPRESSOR TIME DELAY RELAYS AND WIRING SHALL BE PROVIDED BY AHU MANUFACTURER. CONTROLS SYSTEM SHALL SEND ON/OFF SIGNAL TO RUN COMPRESSORS.
3. SPACE TEMPERATURE SENSORS SHALL HAVE SOFTWARE LIMIT SETPOINT FOR COOLING AND HEATING.
4. CONTROLS CONTRACTOR SHALL PROVIDE PROGRAMMING AND CONTROL EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM FOR ALL OF THIS PHASE EQUIPMENT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THERMOSTATS, RELAYS, SENSORS, ACTUATORS, ETC.
5. THE CO2 SENSOR SHALL MONITOR CO2 CONCENTRATIONS IN INTERVALS NO LONGER THAN 30 MIN. AND MUST GENERATE AN ALARM AT THE MAIN CONTROL PANEL IF THE CO2 CONCENTRATION RISES MORE THAN 10% ABOVE THAT CORRESPONDING TO THE MINIMUM OUTDOOR AIR RATE REQUIRED BY ASHRAE STANDARD 62.1-2019.
6. CONTROLS CONTRACTOR SHALL PROVIDE PROGRAMMING AND CONTROL EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM FOR ALL OF THE LISTED EQUIPMENT.
7. ALL SCR ELECTRIC HEAT SHALL USE PWM FOR MODULATION.
8. AHU APPLICATION SPECIFIC UNITARY CONTROLLERS SHALL BE DROP SHIPPED TO AHU MANUFACTURER FOR FACTORY MOUNTING AND TESTING. SEE SPECIFICATIONS.
9. NETWORK THERMOSTATS AND DDC CONTROLLERS SHALL COMMUNICATE VIA BACNET MS/TP AND PROVIDE TIME OF DAY SCHEDULING, SCHEDULING OVERRIDES, TEMPERATURE SETBACK SCHEDULING AND MULTI-POINT TRENDING.
10. THE BUILDING'S COMMUNICATION BUS SHALL TERMINATE IN THE BUILDING'S DATA ROOM AND CONNECT TO THE CONTROLS MANUFACTURERS WEB SERVER. THE WEB SERVER SHALL HOST DETAILED DYNAMIC GRAPHICS DEPICTING EACH INDIVIDUAL HVAC SYSTEM AND SHOW FLOOR PLANS DEPICTING DUCT AND SENSOR LAYOUT WITH INTERACTIVE, LIVE DATA.





DX UNIT - CONSTANT VOLUME CONTROL SCHEMATIC AND LOGIC DIAGRAM

SCALE: NONE TYPICAL

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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
Email@engmtx.com / (727) 573-4656
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	TJC
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

M5.1
MECHANICAL CONTROLS

Originals printed at 24" x 36" scale as required

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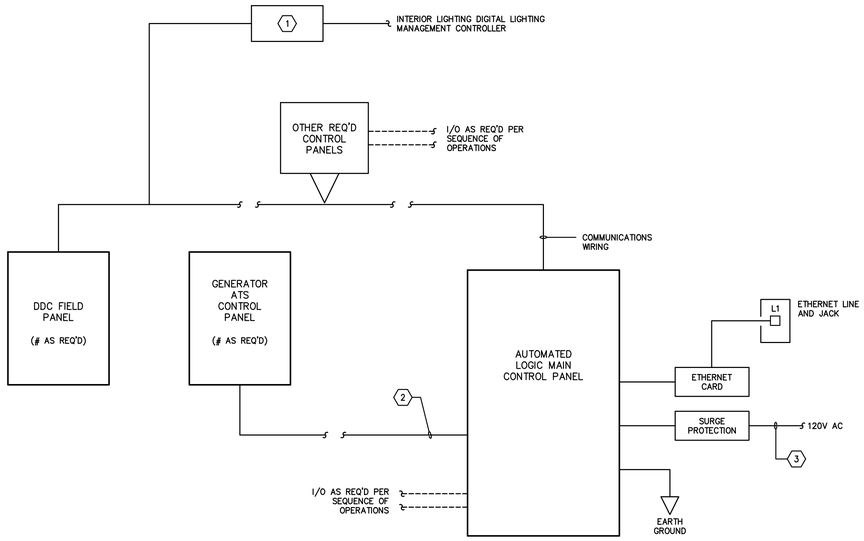


CONTROL SYSTEM SCHEMATIC DIAGRAM

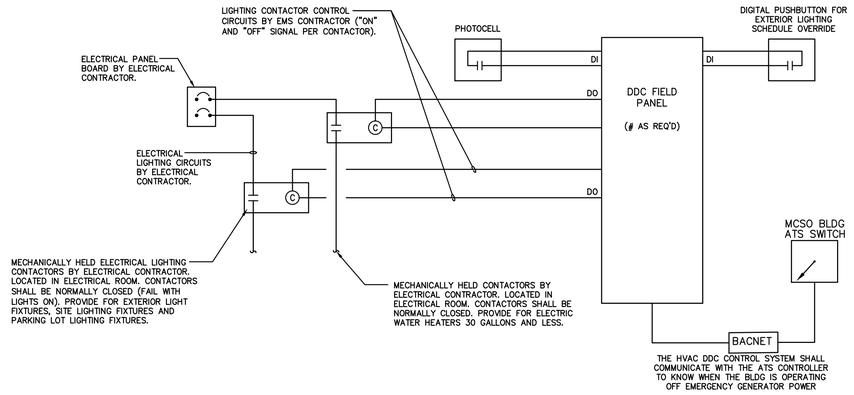
SCALE: NONE

GENERAL NOTES

1. CONTROLS CONTRACTOR SHALL PROVIDE PROGRAMMING AND CONTROL EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM.
2. PROVIDE LAPTOP FIELD CONNECTIVITY CAPABILITY.
3. PROVIDE CAPABILITY FOR CONNECTIVITY TO THE COUNTY WEB-BASED NETWORK.
4. NETWORK THERMOSTATS AND DDC CONTROLLERS SHALL COMMUNICATE VIA BACNET MS/TP AND PROVIDE TIME OF DAY SCHEDULING, SCHEDULING OVERRIDES, TEMPERATURE SETBACK SCHEDULING AND MULTI-POINT TRENDING.
5. THE BUILDING'S COMMUNICATION BUS SHALL TERMINATE IN THE 2ND FLOOR DATA ROOM AND CONNECT TO THE CONTROLS MANUFACTURERS WEB SERVER. THE WEB SERVER SHALL HOST DETAILED DYNAMIC GRAPHICS DEPICTING EACH INDIVIDUAL HVAC SYSTEM AND SHOW FLOOR PLANS DEPICTING DUCT AND SENSOR LAYOUT WITH INTERACTIVE, LIVE DATA.

KEYED NOTES

1. PROVIDE BACNET INTERFACE/ GATEWAY TO COMMUNICATE WITH DLM INDOOR LIGHTING CONTROLLER. AHU SEQUENCE OF OPERATIONS SHALL BE CAPABLE OF HAVING TEMPERATURE SET POINT ADJUSTED DURING PERIODS IN WHICH ALL ROOMS SERVICED BY AN INDIVIDUAL ZONE ARE EXPERIENCING UNOCCUPIED CONDITION SIMULTANEOUSLY (AS DETERMINED BY OCCUPANCY SENSORS).
2. PROVIDE BACNET INTERFACE/GATEWAY TO COMMUNICATE WITH FUTURE, CENTRAL GENERATOR PLANT BLDG EMERGENCY GENERATOR ATS.
3. 120V POWER BY ELECTRICAL CONTRACTOR AND COORDINATED BY THE CONTROLS CONTRACTOR.



EQUIPMENT CONTROLLED BY HVACE DDC SYSTEM SCHEMATIC DIAGRAM

SCALE: NONE

REFER TO ELECTRICAL DRAWNGS FOR A LIST OF EQUIPMENT AND CIRCUITS REQUIRING DDC CONTROL.

GENERAL NOTES

1. PROVIDE CONTROL WIRING BACK TO ENERGY MANAGEMENT SYSTEM FOR CONTROL OF EXTERIOR LIGHTS.
2. PROVIDE PHOTOCELL AND CONTROL WIRING BACK TO ENERGY MANAGEMENT SYSTEM. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL 'ON', TIME OF DAY SCHEDULE 'OFF'.
3. THE PHOTOCELL MUST BE INDICATING "DARK" AND THE DDC LIGHTING SCHEDULE MUST BE "ON" FOR THE EXTERIOR LIGHTS TO BE ENERGIZED. BOTH CONDITIONS MUST BE TRUE TO ENERGIZE EXTERIOR LIGHTS.
4. PROVIDE DIGITAL PUSHBUTTON TO PROVIDE 2-HOUR OVERRIDE (ADJ) OF EXTERIOR LIGHTING SCHEDULES FOR SERVICE AND MAINTENANCE. LOCATE PUSHBUTTON IN ELECTRICAL ROOM, ADJACENT TO LIGHTING CONTACTORS. PROVIDE IDENTIFICATION LABEL.
5. REFER TO ELECTRICAL PLANS FOR QUANTITY AND LOCATION OF CIRCUITS.

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5391 Lakewood Ranch Blvd. North, Suite 300
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M5.2
MECHANICAL CONTROLS

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PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
2. CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.
3. SANITARY PIPING 2" SHALL HAVE A 1/4" PER FT. SLOPE. PIPING 3" & LARGER SHALL HAVE A 1/8" PER FT. SLOPE MINIMUM.
4. COORDINATE SANITARY VENTS WITH HVAC O.A. INTAKES. PROVIDE AT LEAST 10'-0" DISTANCE FROM VENT STACKS AND INTAKE VENTS.
5. VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
6. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
7. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS. WATER HAMMER ARRESTORS (WHA) SHALL BE INSTALLED ON ALL GROUP TOILETS AND ON THE BRANCH LINES TO INDIVIDUAL FIXTURES. ALL APPLICATIONS SHALL BE INSTALLED AS PER STANDARD PDI-WH201. REFER TO PLUMBING FIXTURES SCHEDULE FOR SPECIFICATIONS. PROVIDE ACCESS PANELS IN THE CEILING AS REQUIRED FOR ACCESSIBILITY AND MAINTENANCE. PROVIDE & INSTALL TYPE "A" ON ALL INDIVIDUAL FIXTURES THAT ARE NOT LOCATED IN GROUP TOILETS OR NOT NOTED ON RISER DIAGRAMS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS. REFER TO DETAILS.
10. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
12. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
13. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED, OR IN MECHANICAL ROOMS.
14. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
15. SEE ARCHITECTURAL DRAWINGS FOR EXACT ROUGH-IN LOCATION OF PLUMBING FIXTURES.
16. PROVIDE A PRE MANUFACTURED DRAIN INSULATING COVER ON ALL SINKS AND LAVATORIES DESIGNATED AS A HANDICAP FIXTURE. REFER TO PLUMBING DRAWINGS AND THE ARCHITECTS DRAWINGS FOR DESIGNATIONS.
17. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
18. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
19. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
20. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL WATER PURVEYORS. PROVIDE THE FOLLOWING BACKFLOW DEVICES IF EQUIPMENT APPLIES TO THIS PROJECT:

AUTOCLAVE, STERLIZER, COMMERCIAL DISHWASHING MACHINE, COFFEE URN, COOKING KETTLE, COMMERCIAL GARBAGE DISPOSER	WATTS MODEL #288A
BEVERAGE DISPENSING MACHINE, CARBONATED BEVERAGE VENDING MACHINE, COMMERCIAL ICE MACHINE.	WATTS MODEL #SD-3

21. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ANY PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
22. THE CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO FIXTURES.
23. ASSEMBLE ALL FIXTURES AND EQUIPMENT SHIPPED LOOSE WHICH THE CONTRACTOR IS REQUIRED TO MAKE FINAL CONNECTIONS TO, WHETHER FURNISHED BY THE CONTRACTOR OR BY OTHERS, (I.E. WATER FAUCETS, TRIM OR TAILPIECE ETC.)
24. ALL INSTALLATIONS OF FLOOR DRAINS AND HUB DRAINS (LOCATED IN MECHANICAL ROOMS) SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT AND HOUSEKEEPING PADS PRIOR TO ROUGH-IN OF DRAINS.
25. PLUMBER SHALL BE LICENSED BY STATE AND LOCAL AUTHORITIES TO INSTALL GAS PIPING.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	ABBREV.
CD	CONDENSATE DRAIN	CD
ST	STORM DRAINAGE	ST
SD	SECONDARY EMERGENCY ROOF DRAINAGE	SD
S	SANITARY DRAINAGE	S
V	VENT PIPING	V
CW	COLD WATER PIPING	CW
HW	HOT WATER PIPING	HW
HWR	HOT WATER RETURN	HWR
	SWING CHECK VALVE	
	SHUTOFF VALVE	
	SHUT-OFF VALVE IN RISE	
	SOLENOID VALVE	
	BALANCING VALVE	
	ELBOW TURNED DOWN	
	ELBOW TURNED UP	
	TEE TURNED UP	
	TEE TURNED DOWN	
	P-TRAP	FD
	FLOOR DRAIN	FD
	HUB DRAIN	HD
	HOSE BIB	HB
	WALL HYDRANT	H
	ROOF DRAIN ABOVE	RD
WCO	WALL CLEANOUT	
FCO	FLOOR CLEANOUT	
CO	EXTERIOR CLEANOUT	
	T&P RELIEF VALVE (AGA RATED)	
	WATER HAMMER ARRESTOR	
#	KEYED NOTE	
	INSERT INDICATES DETAIL NUMBER INSERT INDICATES SHEET NUMBER	
	INSERT INDICATES ENLARGED PLAN NUMBER INSERT INDICATES SHEET NUMBER	
XX XXX	INSERT INDICATES RISER DIAGRAM NUMBER INSERT INDICATES SHEET NUMBER	
	INSERT INDICATES INVERT ELEVATION	I.E.
	SHUT-OFF VALVE IN VALVE BOX	
	TRAP PRIMER	TP
	ABOVE FINISHED FLOOR	AFF
	CONTINUATION	CONT.
	DISHWASHER	DW
	FROM BELOW	FB
	FROM ABOVE	FA
	BELOW FINISHED FLOOR	BFF
	BELOW GRADE	BG
	WATER FIXTURE UNIT	WFU
	DRAINAGE FIXTURE UNIT	DFU
	EXISTING CONDITION	(E)
	WALL CLEANOUT	WCO
	FLOOR CLEANOUT	FCO
	EXTERIOR CLEANOUT	ECO
	CLEANOUT	CO
	VENT THROUGH ROOF	VTR

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	SDB/SGD
Checked By	JSW
Date	02.02.24

Revisions:

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P0.0

PLUMBING LEGEND AND NOTES

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scale as required

N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\PLUMBING\23-0340_P0.0_LEGEND_NOTES.DWG
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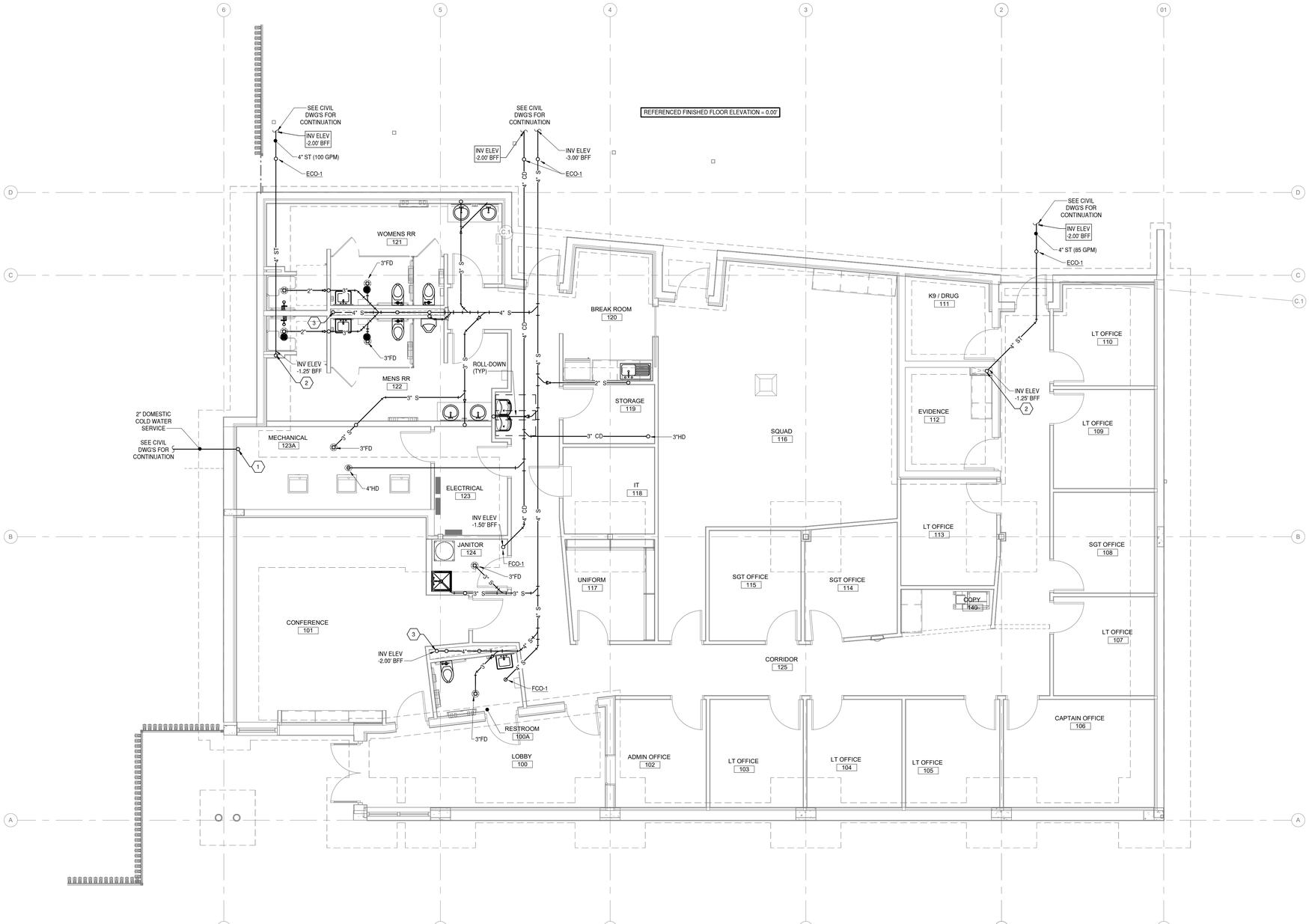
GENERAL NOTES

1. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZE CONNECTIONS TO FIXTURE.
2. REFER TO RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON PLAN.

KEYED NOTES

1. 2" DOMESTIC WATER UP TO SHUT-OFF VALVE. REFER TO PLUMBING FLOOR PLAN FOR ADDITION INFORMATION.
2. 4" STORM UP FROM BELOW GRADE.
3. 4" SANITARY UP FROM BELOW GRADE TO WALL CLEANOUT. REFER TO PLUMBING FLOOR PLAN.



UNDERGROUND PLAN - PLUMBING | 1

3/16" = 1'-0"

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UNDERGROUND PLAN - PLUMBING

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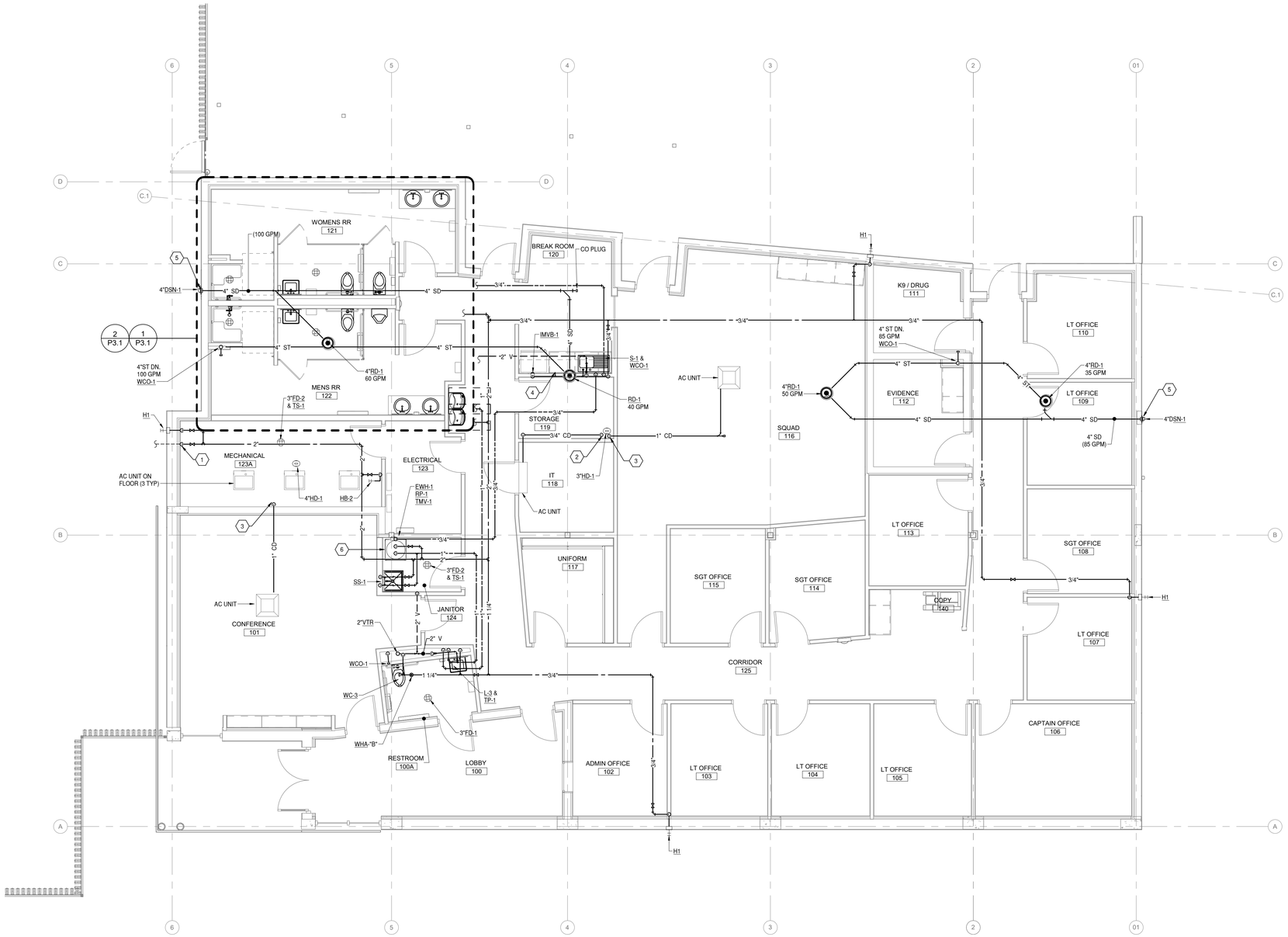
GENERAL NOTES

1. REFER TO RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON PLAN.

KEYED NOTES

1. 2" DOMESTIC WATER UP FROM BELOW GRADE. INSTALL SHUT-OFF VALVE IN RISE AT 48" A.F.F. EXTEND PIPE UP INTO CEILING SPACE.
2. 3/4" CONDENSATE DOWN WALL. EXTEND CONDENSATE PIPING TO TERMINATE OVER HUB DRAIN WITH AIR GAP PER CODE.
3. 1" CONDENSATE DOWN WALL. EXTEND CONDENSATE PIPING TO TERMINATE OVER HUB DRAIN WITH AIR GAP PER CODE.
4. PROVIDE 1/2"CW SUPPLY WITH WALL CHROME PLATED BRASS 1/4-TURN WALL STOP FOR FUTURE COFFEE MACHINE. LOCATE WALL STOP BELOW COUNTERTOP IN AN AREA THAT IS ACCESSIBLE AND WILL NOT INTERFERE WITH DRAWER OPERATION. COORDINATE FINAL LOCATION WITH OWNER AND MILLWORK CONTRACTOR.
5. INSTALL DOWNSPOUT NOZZLE AS HIGH AS POSSIBLE.
6. PROVIDE & INSTALL THERMOSTATIC MIXING VALVE ON H.W. OUTLET OF WATER HEATER. REFER TO DETAIL(S) ON SHEET P4.0 FOR PIPING DIAGRAM AND ADDITIONAL REQUIREMENTS.



FLOOR PLAN - PLUMBING 1

3/16" = 1'-0"

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FLOOR PLAN - PLUMBING

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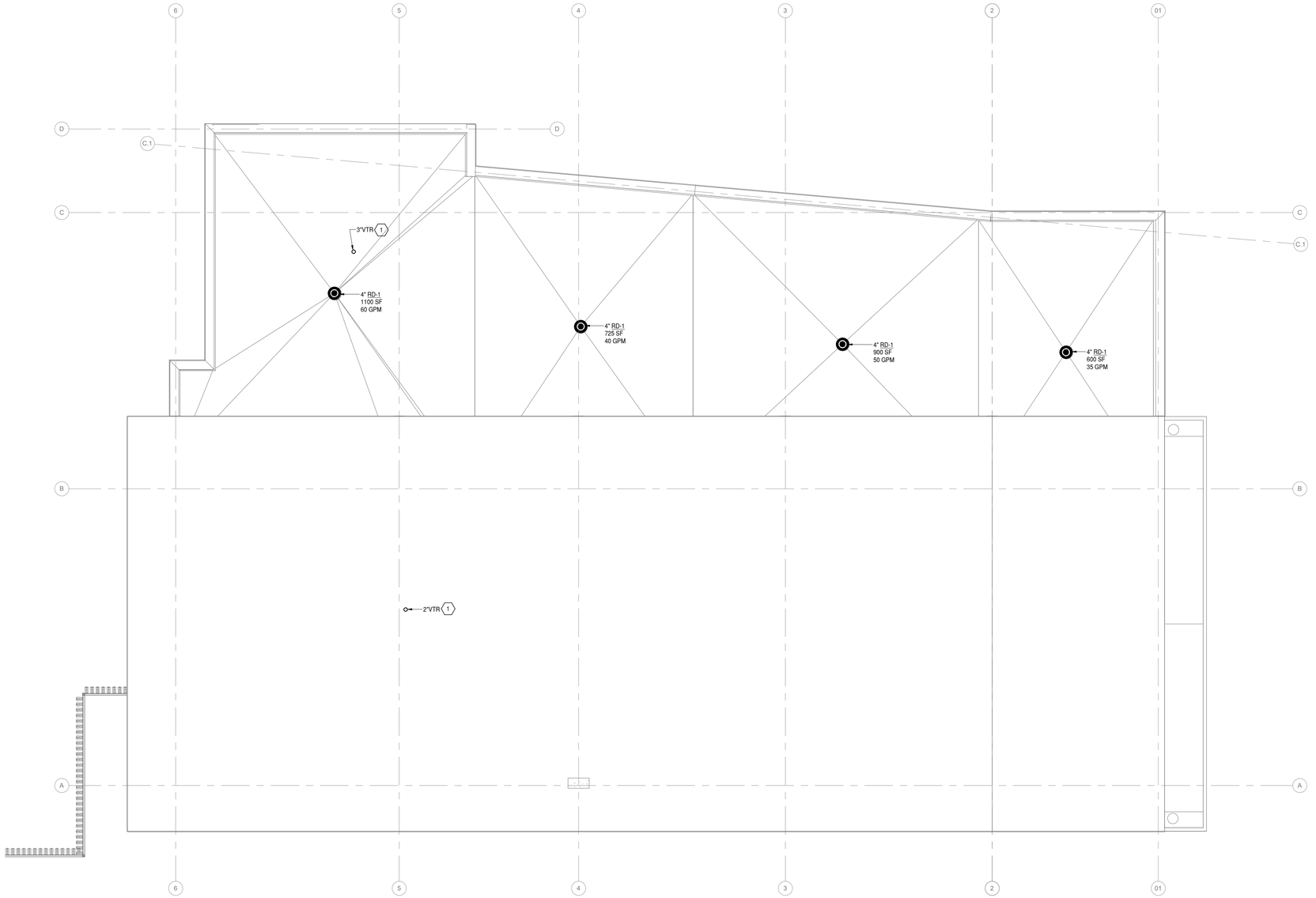

KEYED NOTES

1. LOCATE ALL SANITARY VENTS MINIMUM 10'-0" FROM AIR INTAKES.

STORM DRAIN PIPE SIZING

PIPE SIZE (INCHES)	CAPACITY GPM			
		SLOPE OF HORIZONTAL DRAIN		
	VERTICAL DRAIN	1/8 INCH PER FT	1/4 INCH PER FT	1/2 INCH PER FT
2	34	22	31	44
3	87	55	79	111
4	180	115	163	231
5	311	165	234	331
6	538	344	487	689
8	1117	714	1010	1429
10	2050	1311	1855	2623
12	3272	2093	2960	4187

THE ABOVE TABLE REFERENCES 2023 FL. BLDG. CODE TABLES 1106.2 & 1106.3 BASIS OF DESIGN FOR STORM DRAINAGE CALCULATIONS:

THE INFORMATION ABOVE IS BASED UPON 5 INCHES PER HOUR RAINFALL RATE.

RAINFALL CONVERSION DATA

RAINFALL IN INCHES PER HOUR:
GPH PER 1 SQUARE FOOT = 2.805 GPH
GPM PER 1 SQUARE FOOT = .052 GPM

ROOF PLAN - PLUMBING | 1

3/16" = 1'-0"

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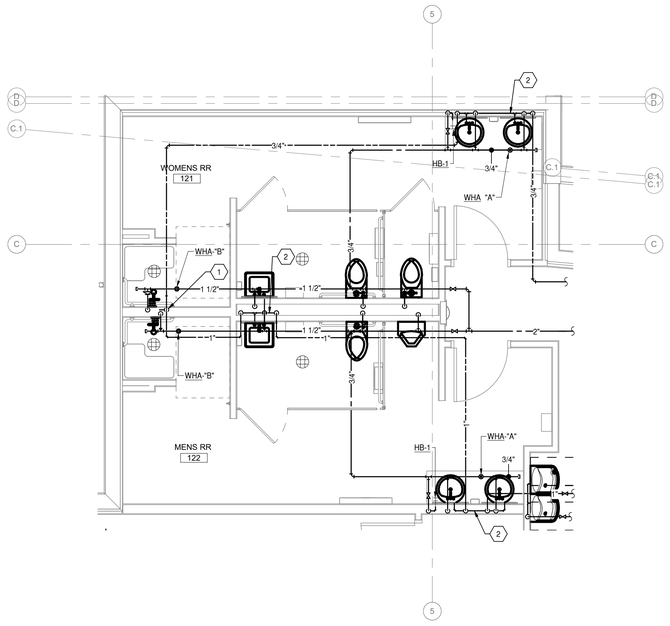
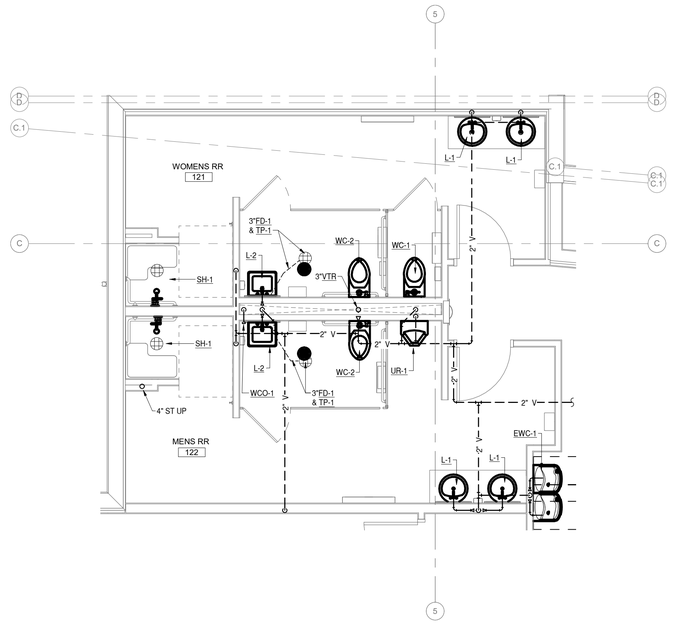
ROOF PLAN - PLUMBING



ENLARGED PLUMBING PLAN - DOMESTIC WATER | 1

1/4" = 1'-0"



ENLARGED PLUMBING PLAN - WASTE AND VENT | 2

1/4" = 1'-0"

DOMESTIC WATER RISER DIAGRAM | 3

WASTE & VENT RISER DIAGRAM | 4

GENERAL NOTES

1. REFER TO RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON PLAN.

KEYED NOTES

1. 3/4" H.W. DOWN. BRANCH 1/2" H.W. TO EACH SHOWER VALVE.
2. H.W. LOOP DOWN IN CHASE OR WALL. BRANCH 1/2" TO EACH LAVATORY SERVICE STOP.

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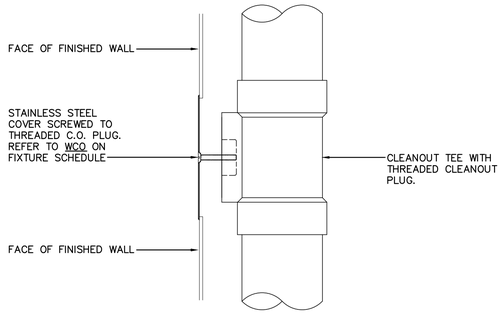
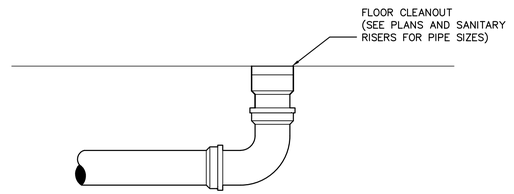
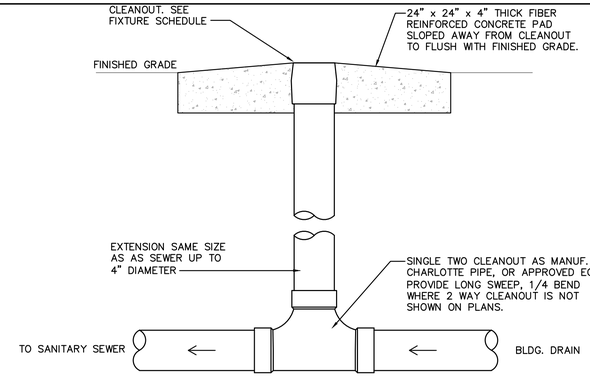
ENLARGED PLANS - PLUMBING



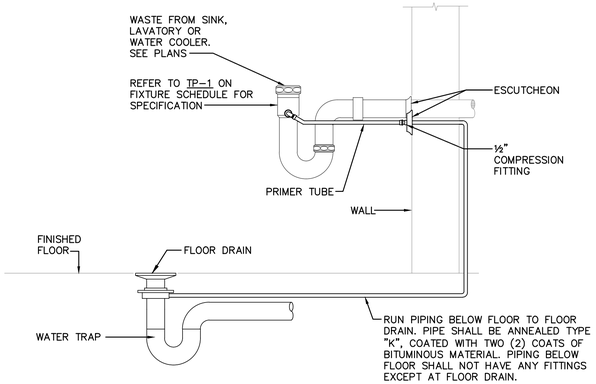
3 — **WALL CLEANOUT DETAIL**
SCALE: NONE



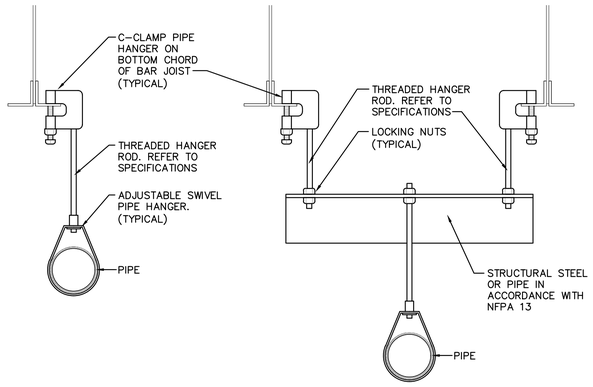
2 — **TYPICAL FLOOR CLEANOUT**
SCALE: NONE



1 — **EXTERIOR CLEANOUT DETAIL**
SCALE: NONE

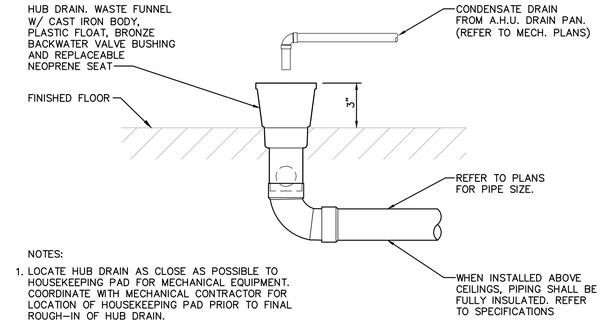


6 — **TRAP PRIMER DETAIL**
SCALE: NONE



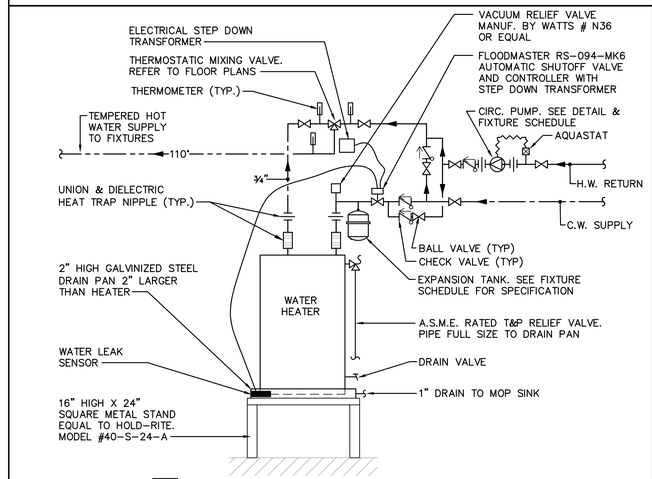
TRAPEZE PIPE HANGER

5 — **PIPE HANGER DETAIL**
SCALE: NONE

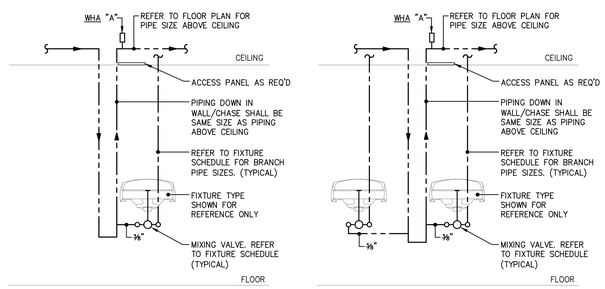


NOTES:
1. LOCATE HUB DRAIN AS CLOSE AS POSSIBLE TO HOUSEKEEPING PAD FOR MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION OF HOUSEKEEPING PAD PRIOR TO FINAL ROUGH-IN OF HUB DRAIN.

4 — **TYPICAL HUB DRAIN DETAIL**
SCALE: NONE



9 — **WATER HEATER PIPING DIAGRAM**
SCALE: NONE

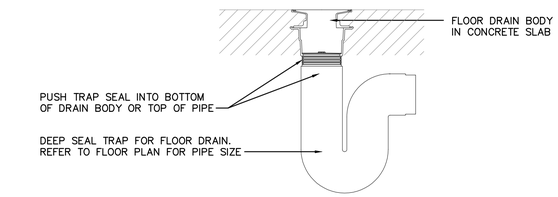


TYPICAL SINGLE LAVATORY

TYPICAL SIDE BY SIDE LAVATORIES

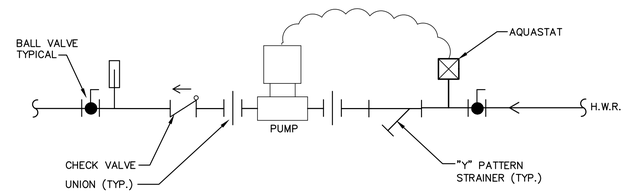
HOT WATER LOOP REQUIRED TO MEET FLORIDA BUILDING CODE – ENERGY CONSERVATION, 7TH EDITION (2020) SECTION C404, TABLE C404.5.1

8 — **HOT WATER LOOP DETAIL FOR LAVATORIES**
SCALE: NONE



REFER TO FIXTURE SCHEDULE "TS-1" FOR SPECIFICATION & ADDITIONAL INFORMATION.

7 — **TRAP SEAL WITH DEEP P-TRAP**
SCALE: NONE



NOTE.
1. PROVIDE & INSTALL AUTOMATIC TIMER KIT AQUASTAT EQUAL TO BELL & GOSSETT MODELS TC-1 & AQS-3/4: 3/4" SIZE, 115-120V, 60HZ, 1 PHASE.
2. SUPPORT PUMP INDEPENDENT OF PIPING.

10 — **CIRCULATING PUMP DETAIL**
SCALE: NONE

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PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	BRANCH CONNECTIONS (1) WASTE	C.W.	H.W.
DSN–1	DOWNSPOUT NOZZLE – ALL NICKEL BRONZE BODY, FACE OF WALL FLANGE AND OUTLET NOZZLE. PROVIDE WITH STAINLESS STEEL SCREEN.	ZURN JAY R. SMITH WATTS DRAINAGE	Z199–SS	SEE FLOOR PLAN	–	–
ECO–1	EXTERIOR CLEANOUT – DURA–COATED CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE, SECURED SCORIATED COVER. PROVIDE WITH INTERNAL CLEANOUT (Z1440) INSTALL CLEANOUT IN 12" X 12" X 4" CONCRETE FLUSH WITH GRADE.	ZURN JOSAM WATTS DRAINAGE	Z–1474–N	SEE FLOOR PLAN	–	–
EWC–1	ELECTRIC WATER COOLER – HIGH/LOW UNIT, SELF–CONTAINED WALL HUNG, REFRIGERATED CHILLING CAPACITY OF 8.0 GPH OF 50° DRINKING WATER, MECHANICAL FRONT BUBBLER BUTTON, BUILT–IN FLOW REGULATOR, FILTERED, STAINLESS STEEL BASIN WITH DRAIN, STAINLESS STEEL FINISH. BOTTLE FILLING STATION – MOUNTED ON LOWER UNIT, ELECTRONIC SENSOR W/ ELECTRONIC BOTTLE FILLER BUTTON, GREEN TICKER ELECTRICAL: 115V/60HZ, 370 WATTS CAPACITY: 8.0 GPH SUPPLIES – ANGLE STOP FITTING WITH LOOSE KEY, POLISHED CHROME PLATED SOLID BRASS CONSTRUCTION, METAL TEE HANDLE, ½" INLET & ⅜" OUTLET, MOUNTING HARDWARE. TRAP – 1 1/4" X 1 1/4" CHROME PLATED, CAST BRASS, ONE PIECE P–TRAP, CLEANOUT PLUG, NIPPLE AND CAST BRASS FLANGE, POLISHED CHROME THREADED BOTH ENDS. CARRIER – TOP & BOTTOM PLATES, DURA–COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES, MOUNTING FASTENERS. MOUNTING HEIGHT – COOLER SHALL BE INSTALLED WITH THE LOWER SPOUT AT 33" A.F.F. AND A MIN. OF 27" BETWEEN BOTTOM OF APRON AND FLOOR. REDUCE HEIGHT BY 3" FOR INSTALLATION OF CHILDREN'S ADA COOLER.	ELKAY HAWS OASIS MCGUIRE BRASSCRAFT CHICAGO MCGUIRE ZURN ZURN JOSAM J.R. SMITH	LVRCTL8WSK LFST09LK 8912C Z1225–BL	2"	½"	–
FD–1	FLOOR DRAIN – COATED CAST IRON BODY WITH NEOPRENE GASKET, COMBINATION INVERTIBLE MEMBRANE CLAMP, ½" PRIMER CONNECTION AND ADJUSTABLE NICKEL BRONZE STRAINER WITH VANDAL–PROOF SCREWS. 5" SQUARE STRAINER.	ZURN JOSAM WATTS DRAINAGE	Z415S–P–VP	PROVIDE DEEP SEAL TRAPS WHERE TRAP PRIMERS ARE NOT INDICATED.		
FD–2	FLOOR DRAIN – 9" DIAMETER STRAINER, MEDIUM DUTY, COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, MEDIUM DUTY CAST IRON SLOTTED DURESIST GRATE.	ZURN JOSAM WATTS DRAINAGE	Z–550	PROVIDE DEEP SEAL TRAPS WHERE TRAP PRIMERS ARE NOT INDICATED.		
FCO–1	FLOOR CLEANOUT – ADJUSTABLE FLOOR CLEANOUT, COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISHED FLOOR.	ZURN JOSAM WATTS DRAINAGE	ZN–1400–VP	SEE FLOOR PLAN	–	–
H–1	WALL HYDRANT – ANTI–SIPHON, MILD CLIMATE, ASSE 1011 APPROVED VACUUM BREAKER, CHROME PLATED TAMPER RESISTANT BRASS FLUSH MOUNTED WALL BOX, 3/4" INLET AND HOSE CONNECTION. PROVIDE WITH LOOSE KEY HANDLE.	WOODFORD	B24P–3/4"	–	¾"	–
HB–1	HOSE BIB – ANTI–SIPHON, MILD CLIMATE, ASSE 1011 APPROVED VACUUM BREAKER, CHROME PLATED FLUSH MOUNTED WALL BOX, 3/4" INLET AND HOSE CONNECTION, LOOSE KEY HANDLE.	WOODFORD	B75	–	¾"	–
HB–2	HOSE BIB – ANTI–SIPHON, MILD CLIMATE, ASSE 1011 APPROVED VACUUM BREAKER, 3/4" INLET AND HOSE CONNECTION, PROVIDE WITH METAL WHEEL HANDLE.	WOODFORD CHICAGO ZURN	24P–3/4"	–	¾"	–
HD–1	HUB DRAIN – 7" FUNNEL, CAST IRON BODY, PLASTIC BALL FLOAT, BRONZE BACKWATER VALVE BUSHING, REPLACEABLE NEOPRENE SEAT.	ZURN OR EQUAL	Z325	SEE FLOOR PLAN	–	–
L–1	LAVATORY – VITREOUS CHINA, UNDER COUNTER MOUNT, OVAL SHAPE, 19.25" X 15.75" X 5.5" SIZE, REAR OVERFLOW, ADA COMPLIANT, COLOR WHITE, MOUNTING KIT. FAUCET – 4" WRIST HANDLES, 4" CENTERS, POLISHED CHROME PLATED BRASS, VANDAL RESISTANT, 0.5 GPM LAMINAR SPRAY. ADA COMPLIANT, QUARTER–TURN ETERNA W/ SPRING CHECK DRAIN – 17 GAUGE CHROME PLATED CAST BRASS OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW. 1¼" SEAMLESS BRASS OFFSET TAILPIECE. SUPPLIES – LEAD–FREE, CHROME PLATED BRASS ANGLE STOP FITTING WITH SUPPLY TUBE, 1/2" NPT FLANGED FEMALE INLET, LOOSE KEY, ESCUTCHEONS, 3/8" O.D X 12" SUPPLY RISER. TRAP – CHROME PLATED CAST BRASS WITH CLEANOUT, 17 GAUGE SEAMLESS TUBULAR WALL BEAND, CAST BRASS SLIP NUTS, RUBBER WASHER, STEEL WALL FLANGE WITH SET SCREW. P–TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH MOLDED SEAMLESS ANTIMICROBIAL MATERIAL. MINIMUM 3/16" THICKNESS, COLOR WHITE. THERMOSTATIC MIXING VALVE – POINT–OF–USE, ADJUSTABLE BETWEEN 80°F & 120°F, LISTED UNDER ASSE 1070 FOR USE IN H.W. APPLICATIONS, LEAD FREE, INTEGRAL FILTERS & DUAL CHECK VALVES, ⅜" COMPRESSION CONNECTIONS.	AMERICAN STANDARD T&S BRASS MCGUIRE ZURN MCGUIRE CHICAGO BRASSCRAFT MCGUIRE ZURN BRASSCRAFT MCGUIRE TRUEBRO OR EQUAL WATTS LEONARD	9482.000 B–0890, B–0199–08–N05 155WC LFH2165LK 8872C PW 2000 WC LFUSG–B–M2	1¼"	½"	½"
L–2	LAVATORY – WALL MOUNTED 20 1/2" X 18 1/4" SIZE, VITREOUS CHINA, 4" CENTERS, SELF–DRAINING DECK, FAUCET LEDGE, FRONT OVERFLOW, CONCEALED ARM SUPPORT, INSTALL WITH 29" CLEAR FROM FLOOR TO UNDERSIDE OF LAVATORY. FAUCET – SAME AS L–1, DRAIN – SAME AS L–1, SUPPLIES – SAME AS L–1, TRAP – SAME AS L–1, CARRIER – EPOXY COATED FLOOR MOUNTED CONCEALED ARM LAVATORY CARRIER, ADJUSTABLE CAST IRON CONCEALED ARMS, SUPPORTS UP TO A 250 LB STATIC LOAD. PROVIDE BACK TO BACK UNIT WHERE APPLICABLE. P–TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH MOLDED SEAMLESS ANTIMICROBIAL MATERIAL. MINIMUM 3/16" THICKNESS, COLOR WHITE. THERMOSTATIC MIXING VALVE – POINT–OF–USE, ADJUSTABLE BETWEEN 80°F & 120°F, LISTED UNDER ASSE 1070 FOR USE IN H.W. APPLICATIONS, LEAD FREE, INTEGRAL FILTERS & DUAL CHECK VALVES, ⅜" COMPRESSION CONNECTIONS.	AMERICAN STANDARD WATTS ZURN JOSAM J.R. SMITH MCGUIRE TRUEBRO OR EQUAL WATTS LEONARD	0355.012 TCA–411/TCA–411–D PW 2000 WC LFUSG–B–M2	1¼"	½"	½"
L–3 RESTOOM 100A	LAVATORY – SAME AS L–2 FAUCET – SLOW SELF–CLOSING PUSH BUTTON METERING FAUCET, POLISHED CHROME PLATED BRASS, VANDAL RESISTANT, 0.5 GPM LAMINAR SPRAY. ADA COMPLIANT. DRAIN – SAME AS L–1. SUPPLIES – SAME AS L–1. TRAP – SAME AS L–1. CARRIER – SAME AS L–2. P–TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH MOLDED SEAMLESS ANTIMICROBIAL MATERIAL. MINIMUM 3/16" THICKNESS, COLOR WHITE. THERMOSTATIC MIXING VALVE – POINT–OF–USE, ADJUSTABLE BETWEEN 80°F & 120°F, LISTED UNDER ASSE 1070 FOR USE IN H.W. APPLICATIONS, LEAD FREE, INTEGRAL FILTERS & DUAL CHECK VALVES, ⅜" COMPRESSION CONNECTIONS.	T&S BRASS	B–0831–VF05	1¼"	½"	½"

(1) BRANCH CONNECTION SIZES ARE INTENDED FOR BRANCH SIZES FROM WATER SUPPLIES AND BUILDING DRAINS. REFER TO FLOOR PLAN AND OR RISER DIAGRAMS FOR PIPE SIZES.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	BRANCH CONNECTIONS (1) WASTE	C.W.	H.W.
SS–1	SERVICE SINK – FLOOR MOUNTED, MOLDED STONE, 24" X 24" X 10" SIZE, SQUARE MODEL, FACTORY INSTALLED STAINLESS STEEL DRAIN BODY, DOME STRAINER AND STAINLESS STEEL LINT BASKET. TRIM – SERVICE SINK FAUCET, THREADED SPOUT, POLISHED CHROME, VACUUM BREAKER, PAIL HOOK, WALL BRACE, RENEWABLE VALVES, INTEGRAL STOPS. 24" LONG X 3" WIDE, STAINLESS STEEL ATTACHED WITH THREE (3) RUBBER TOOL GRIPS. 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED, WITH 3/4" BRASS COUPLING AT ONE END. 5" LONG X 3" WIDE BRACKET, 18 GA. #302 STAINLESS STEEL WITH RUBBER GRIP STAINLESS STEEL WALL GUARDS. PROVIDE CHECK VALVES, SHUT–OFF VALVES & WATER HAMMER ARRESTOR TYPE "A" ON BOTH C.W. & H.W. WATER SUPPLIES. INSTALL ABOVE CEILING	FIAT STERN WILLIAMS FLORESTONE CHICAGO T&S BRASS ZURN FIAT T&S BRASS OR EQUAL FIAT T&S BRASS OR EQUAL FIAT OR EQUAL	MSB2424 897–CP 889–CC 832–AA MSG2424	3"	¾"	¾"
SH–1	TRIM – PRESSURE BALANCING MIXING VALVE, SINGLE BLADE HANDLE, ADJUSTABLE STOP SCREW, DIVERTER WITH INTEGRAL VOLUME CONTROL, SHOWER HEAD WITH ARM AND FLANGE, INTEGRAL SERVICE STOPS, WALL/HAND SHOWER WITH 60 INCH FLEXIBLE METAL HOSE, ADA COMPLIANT LEVER HANDLE, WALL CONNECTION AND 30" SLIDE BAR, IN–LINE VACUUM BREAKER, POLISHED CHROME FINISH, 1.5 GPM SHOWER HEAD, ½" SWEAT INLET CONNECTIONS. * PROVIDE REVERSE CORING FOR BACK–TO–BACK INSTALLATION. SHOWER DRAIN – NEO–LOC PIPE CONNECTION DRAIN, DURA–COATED CAST IRON BODY WITH NEOPRENE GASKET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE TYPE 'B' NICKEL BRONZE STRAINER. INSTALL CONTROL VALVE BETWEEN 38" & 48" ABOVE FINISHED FLOOR.	SYMMONS ZURN JOSAM WATTS DRAINAGE	C–96–500–B30–V–X–1.5–VP ZN–415 30000–5A FD–100	2"	½"	½"
S–1	SINK – UNDER COUNTER MOUNTED, SINGLE COMPARTMENT, 18 GAUGE 304 STAINLESS STEEL, 18.5" X 18.5" X 7.675" SIZE. TRIM – 8" CENTERSET EXPOSED DECK MOUNT FAUCET WITH GOOSENECK SPOUT AND 4" LEVER HANDLES IN CHROME FINISH, QUARTER–TURN CERAMIC VALVES, 1.5 GPM. DRAIN – STAINLESS STEEL BODY, STRAINER BASKET AND OFFSET BRASS TAILPIECE. SUPPLIES – ANGLE STOP (½" I.P.S.), LOOSE KEY, C.P. NIPPLES, ESCUTCHEONS, 12" X ⅜" O.D. FLEX RISER. TRAP – CHROME PLATED, CAST BRASS, ONE–PIECE CLEANOUT PLUG, OUTLET TRAPPED FOR I.P. NIPPLE AND CAST BRASS FLANGE, POLISHED CHROME PLATED THREADED BOTH ENDS. P–TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH MOLDED SEAMLESS ANTIMICROBIAL MATERIAL. MINIMUM 3/16" THICKNESS, COLOR WHITE. THERMOSTATIC MIXING VALVE – POINT–OF–USE, ADJUSTABLE BETWEEN 80°F & 120°F, LISTED UNDER ASSE 1070 FOR USE IN H.W. APPLICATIONS, LEAD FREE, INTEGRAL FILTERS & CHECK VALVES, ⅜" COMPRESSION CONNECTIONS.	JUST ELKAY OR EQUAL ELKAY CHICAGO T&S BRASS ELKAY MCGUIRE MCGUIRE CHICAGO BRASSCRAFT MCGUIRE ZURN BRASSCRAFT TRUEBRO MCGUIRE OR EQUAL WATTS LEONARD	US1818A–J LKD2423BHC LKAD35 LFH2165LKC 8912C 102EZ AND 106EZ LFE480	2"	½"	½"
TP–1	TRAP PRIMER – WASTE CONNECTION TRAP PRIMER, SATIN CHROME PLATED CAST BRONZE P–TRAP WITH CLEANOUT, 17 GAUGE TUBING OUTLET, SLIP JOINT NUTS, WASHERS, ESCUTCHEONS, ½" PRIMER TUBE WITH COMPRESSION FITTING CONNECTION AT WALL.	J.R. SMITH OR EQUAL	2698/2698–ADA	–	½"	–
TMV–1	THERMOSTATIC MIXING VALVE – LEAD–FREE COMPLIANT, ¾" INLETS & ¾" OUTLET, SERVICEABLE INTEGRAL CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, STAINLESS STEEL PISTON AND LIQUID FILL THERMAL MOTOR WITH BELLOWS ELEMENT MOUNTED OUT OF WATER, VOLUME CONTROL SHUT–OFF VALVE, BRASS PIPE, FITTINGS, AND UNIONS. PROVIDE WITH 3" BIMETAL DIAL THERMOMETER, VOLUME CONTROL SHUTOFF VALVE, AND WALL MOUNTING BRACKET AND SPARE CARTRIDGE. 12 GPM FLOW RATE AT 10 PSI PRESSURE DIFFERENTIAL. SET TO DISTRIBUTE 110°F.	SYMMONS LEONARD POWERS	7–200–T425–BV–W	–	SEE FLOOR PLAN	SEE FLOOR PLAN
TS–1	TRAP SEAL – TRAP SEAL DEVICE FOR FLOOR DRAINS, ABS RIGID STRUCTURE, SILICONE GASKET AND SEAL FOR FLOOR DRAIN. SHALL COMPLY WITH ASSE 1072. PIPE SIZE SHALL MATCH FLOOR DRAIN OUTLET. (REFER TO PLANS FOR PIPE SIZES)	ZURN	Z1072	REFER TO PLANS	–	–
UR–1	URINAL – WALL MOUNTED, ELONGATED RIM, INTEGRAL TRAP, REAR SPUD, FLUSH VALVE, 0.125 GALLON FLUSH, VITREOUS CHINA, SIPHON JET FLUSH ACTION, 3/4" BACK SPUD, 2" I.P.S. OUTLET CONNECTION, INSTALL WITH RIM AT 17" A.F.F. FLUSH VALVE – 0.125 GPF, ROUGH BRASS FINISH, REAR SPUD, CONCEALED MANUAL HYDRAULIC FLUSH VALVE. FLUSH VALVE PUSH BUTTON ACTUATOR – METAL BUTTON PANEL MOUNT HYDRAULIC PUSH BUTTON ASSEMBLY, SPRING LOADED. FLUSH VALVE PUSH–BUTTON WALL ACCESS PANEL – 13½" X 13½" BRUSHED STAINLESS STEEL WALL PANEL WITH SECURITY SCREWS. CARRIER – EPOXY COATED FLOOR MOUNTED URINAL CARRIER WITH STEEL HANGER SUPPORT PLATE WITH INTEGRAL MOUNTING BRACKETS AND HARDWARE.	AMERICAN STANDARD SLOAN ROYAL SLOAN ROYAL SLOAN ROYAL WATTS ZURN JOSAM J.R. SMITH	6515.001 995–0.125–2–10–3/4–LDIM HY–108–A WB–1–A CA–311	2"	1"	–
WC–1	WATER CLOSET – WALL MOUNTED, FLUSH VALVE, 1.6 GAL., ELONGATED BOWL, VITREOUS CHINA, SIPHON JET ACTION, REAR SPUD. FLUSH VALVE – 1.6 GPF, ROUGH BRASS FINISH, DIAPHRAGM TYPE, REAR SPUD, CONCEALED MANUAL HYDRAULIC FLUSH VALVE. FLUSH VALVE PUSH BUTTON ACTUATOR – METAL BUTTON PANEL MOUNT HYDRAULIC PUSH BUTTON ASSEMBLY, SPRING LOADED. FLUSH VALVE PUSH–BUTTON WALL ACCESS PANEL – 13½" X 13½" BRUSHED STAINLESS STEEL WALL PANEL WITH SECURITY SCREWS. SEAT – FINISH WHITE, HEAVY DUTY PLASTIC, ELONGATED BOWL, OPEN FRONT LESS COVER, SELF SUSTAINING CHECK HINGE. CARRIER – ADJUSTABLE, VERTICAL SIPHON JET, RIGID SYSTEM, FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM AND STUD PROTECTORS, REAR ANCHOR TIE DOWN AND BONED "NEO–SEAL" GASKET.	SLOAN SLOAN ROYAL SLOAN ROYAL SLOAN ROYAL BEMIS CHURCH ZURN WATTS JOSAM J.R. SMITH	ST–2469 952–1.6–2–10–3/4–LDIM HY–108–A WB–1–A 1955SSCT Z1204 SERIES	4"	1¼"	–
WC–2	WATER CLOSET – WALL MOUNTED, FLUSH VALVE, 1.6 GAL., ELONGATED BOWL, VITREOUS CHINA, SIPHON JET ACTION, REAR SPUD. INSTALL WITH RIM AT 15" A.F.F. FLUSH VALVE – 1.6 GPF, ROUGH BRASS FINISH, DIAPHRAGM TYPE, REAR SPUD, CONCEALED MANUAL HYDRAULIC FLUSH VALVE. FLUSH VALVE PUSH BUTTON ACTUATOR – METAL BUTTON PANEL MOUNT HYDRAULIC PUSH BUTTON ASSEMBLY, SPRING LOADED. FLUSH VALVE PUSH–BUTTON WALL ACCESS PANEL – 13½" X 13½" BRUSHED STAINLESS STEEL WALL PANEL WITH SECURITY SCREWS. SEAT – FINISH WHITE, HEAVY DUTY PLASTIC, ELONGATED BOWL, OPEN FRONT LESS COVER, SELF SUSTAINING CHECK HINGE. CARRIER – ADJUSTABLE, VERTICAL SIPHON JET, RIGID SYSTEM, FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM AND STUD PROTECTORS, REAR ANCHOR TIE DOWN AND BONED "NEO–SEAL" GASKET.	SLOAN SLOAN ROYAL SLOAN ROYAL SLOAN ROYAL BEMIS CHURCH ZURN WATTS JOSAM J.R. SMITH	ST–2469 952–1.6–2–10–3/4–LDIM HY–108–A WB–1–A 1955SSCT Z1204 SERIES	4"	1¼"	–

(1) BRANCH CONNECTION SIZES ARE INTENDED FOR BRANCH SIZES FROM WATER SUPPLIES AND BUILDING DRAINS. REFER TO FLOOR PLAN AND OR RISER DIAGRAMS FOR PIPE SIZES.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	BRANCH CONNECTIONS (1) WASTE	C.W.	H.W.
WC–3	WATER CLOSET – WALL MOUNTED, FLUSH VALVE, 1.6 GAL., ELONGATED BOWL, VITREOUS CHINA, SIPHON JET ACTION, REAR SPUD. INSTALL WITH RIM AT 15" A.F.F. FLUSH VALVE – 1.6 GPF, ROUGH BRASS FINISH, REAR SPUD, DIAPHRAGM TYPE, SENSOR ACTIVATED WITH TRUE MECHANICAL OVERRIDE BUTTON, ENCLOSED BEHIND A 13⅛" x 13⅛" WALL FRAME WITH STAINLESS STEEL ACCESS PANEL, HARDWIRED. PROVIDE WITH SLOAN MODEL EL–154 TRANSFORMER. ELECTRICAL: 120 VAC / 24 VAC 50 VA TRANSFORMER SEAT – FINISH WHITE, HEAVY DUTY PLASTIC, ELONGATED BOWL, OPEN FRONT LESS COVER, SELF SUSTAINING CHECK HINGE. CARRIER – ADJUSTABLE, VERTICAL SIPHON JET, RIGID SYSTEM, FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM AND STUD PROTECTORS, REAR ANCHOR TIE DOWN AND BONED "NEO–SEAL" GASKET.	SLOAN SLOAN ROYAL BEMIS CHURCH ZURN WATTS JOSAM J.R. SMITH	ST–2469 152 ES–S–TMO–SWB 1955SSCT Z1204 SERIES	4"	1¼"	–
WCO–1	WALL CLEANOUT – DURA–COATED CAST IRON FERRULE & CADMIUM PLATED CAST IRON COUNTERSUNK PLUG WITH ROUND, SMOOTH, STAINLESS STEEL ACCESS COVER WITH VANDAL PROOF SECURING SCREWS.	ZURN JOSAM WATTS DRAINAGE	Z1441–VP	SEE FLOOR PLAN	–	–
WHA	WATER HAMMER ARRESTOR – STAINLESS STEEL SHELL, HYDRO–PNEUMATIC CUSHION OF ARGON GAS AND PURE GLYCERINE, ELASTROMER BELLOWS, STAINLESS STEEL ADAPTOR AND MALE THREADED PLUG. SIZE PER STANDARD PDI – WH201. TYPE A = 'P.D.I.' SIZE A = 1–11 FIX. UNITS, ¾" CONN. TYPE B = 'P.D.I.' SIZE B = 12–32 FIX. UNITS, 1" CONN. TYPE C = 'P.D.I.' SIZE C = 33–60 FIX. UNITS, 1" CONN. TYPE D = 'P.D.I.' SIZE D = 61–113 FIX. UNITS, 1" CONN.	JOSAM ZURN J.R.SMITH	75000 SERIES Z1700 SERIES 5000 SERIES	–	–	–
RP–1	CIRCULATING PUMP – BRONZE CONSTRUCTION, REPLACEABLE STAINLESS STEEL CARTRIDGE IMPELLER ASSEMBLY. VENT PLUG FOR PURGING, ETHYLENE PROPYLENE GASKETS, IMPEDANCE PROTECTED MOTOR. PROVIDE ON/OFF SWITCH FOR OVERLOAD PROTECTION. PROVIDE & INSTALL WITH AQUASTAT & AUTOMATIC TIMER KIT. CAPACITY OF 5 GPM AGAINST A TOTAL HEAD OF 16 FT. 3000 RPM, 80 INPUT WATTS, .70 FULL LOAD AMPS. ELECTRICAL REQ.: 115V/1/60	ARMSTRONG BELL & GOSSETT OR EQUAL	ASTRO 50B NBF–22	–	–	¾"
RD–1	ROOF DRAIN – FROET DUAL BI–FUNCTIONAL ROOF DRAIN WITH 45 DEGREE PRIMARY OUTLET CONNECTION, COATED CAST IRON DEEP SUMP BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, OVERFLOW PIPE AND 5.25" HIGH IRON DOME & 6.25" HIGH CAST IRON OVERFLOW. PROVIDE WITH UNDER–DECK CLAMP, TOP–SET DECK PLATE, STATIC EXTENSION (CONTRACTOR TO SPECIFY HEIGHT OF EXTENSION) PROVIDE & INSTALL MESH SCREEN TO PREVENT DEBRIS FROM ENTERING SECONDARY/OVER–FLOW DRAIN.	ZURN JOSAM J.R.SMITH	Z100C–C–DP–E–SS	SEE FLOOR PLAN	–	–
IMVB–1	ICE MAKER VALVE BOX – LEAD–FREE, 1/2" SWEAT X 1/4" COMPRESSION CONNECTION, INTEGRAL WATER HAMMER ARRESTOR WITH SHUTOFF VALVE, 5.75" X 5.25" X 2.5" OVERALL DIMENSION, 20 GA. STEEL BOX WITH WHITE POWDER COATING, , REFER TO MANUFACTURER'S RECOMMENDATIONS FOR ROUGH IN REQUIREMENTS. PROVIDE FLEXIBLE TUBING FROM VALVE TO ICE MAKER. INSTALL 5'–0" A.F.F. DIRECTLY BEHIND REFRIGERATOR.	PRECISION PLUMBING PRODUCTS (PPP)	MM–500MIMB	–	½"	–

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ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	GALLON	V/P/HZ	WATTS	RECOVERY 70°F RISE	DIAMETER	HEIGHT	INLET / OUTLET	LOCATION
WH–1	A.O. SMITH	DEN–52	52	208/1/60	4.5	25	24"	56–1/2"	3/4"	JANITOR 124

NOTES
1. PROVIDE ASME RATED T&P RELIEF VALVE. ROUTE DISCHARGE AS INDICATED ON WATER HEATER DETAIL.
2. PROVIDE EXPANSION TANK EQUAL TO AMTROL MODEL ST–12.
3. PROVIDE & INSTALL AUTOMATIC TIMER KIT AND AQUASTAT EQUAL TO BELL & GOSSETT MODELS TC–1 & AQS–3/4: 3/4" SIZE, 115–120V, 60HZ, 1 PHASE.
4. PROVIDE WITH 24" X 24" X 16" GALVANIZED WATER HEATER STAND RATED FOR UP TO 100 GALLON WATER HEATER/1200 POUNDS CAPACITY. MODEL SHALL BE HOLDRITE QUICKSTAND 40–S–24 OR EQUAL.
5. PROVIDE WITH RELIANCE DETECTION TECHNOLOGIES (RDT) MODEL RS–094–MK6 WATER HEATER LEAK DETECTION AND SHUTOFF SYSTEM. INCLUDES LEAD–FREE NSF/ANSI 61 AND 372 COMPLIANT AUTOMATIC SHUTOFF VALVE AND CONTROLLER WITH STEP DOWN TRANSFORMER AND LEAK SENSOR. PROVIDE VALVE SIZE EQUAL TO THE SUPPLY LINE THAT THE VALVE IS INSTALLED ON. REFER TO ELECTRICAL DRAWINGS AND WATER HEATER DETAIL FOR ADDITIONAL INFORMATION. ELECTRICAL REQUIRED: 120V/1/60.
6. SET WATER HEATER TO 120°F.
7. REFER TO WATER HEATER DETAIL FOR ADDITIONAL INFORMATION.

FIXTURE CONNECTION SCHEDULE

DESCRIPTION	WASTE	VENT	TRAP	C.W.	H.W.
COFFEE MACHINE	–	–	–	½"	–
ELECTRIC WATER COOLER	2"	1½"	1½"	½"	–
FLOOR DRAIN	3"–4"	2"	3"–4"	–	–
HOSE BIBB/WALL HYDRANT	–	–	–	¾"	–
ICE MAKER SUPPLY	–	–	–	½"	–
LAVATORY	2"	1½"	1¼"	½"	½"
SERVICE SINK	3"	2"	3"	½"	½"
SHOWER	2"	1½"	2"	½	½"
SINK	2"	1½"	1½"	½"	½"
URINAL	2"	1½"	INTEGRAL	¾"	–
WATER CLOSET	3"	2"	INTEGRAL	1"	–

NOTE:
CONNECTIONS SIZES SHOWN FOR MINIMUM PIPE SIZES ONLY. REFER TO FLOOR PLAN AND OR RISER DIAGRAMS.

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Sutton Drive, Suite 640, St. Petersburg, FL 33710
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE
AT PREMIER CAMPUS

RANGELAND PKWY AND UIHLEIN RD

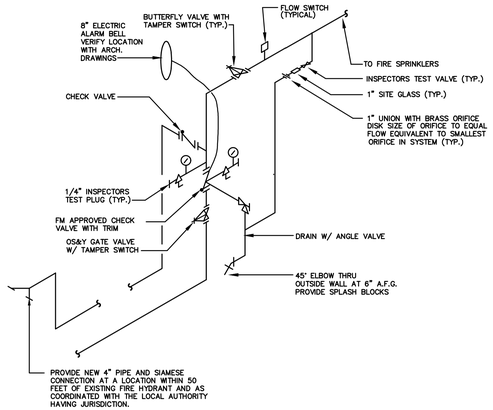
Project No.	22009.01
Drawn By	SDB/SGD
Checked By	JSW
Date	02.02.24

Revisions:

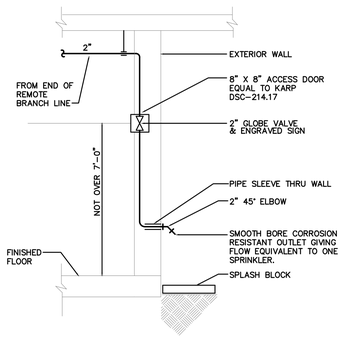
90% PERMIT SET

P5.0
PLUMBING SCHEDULES

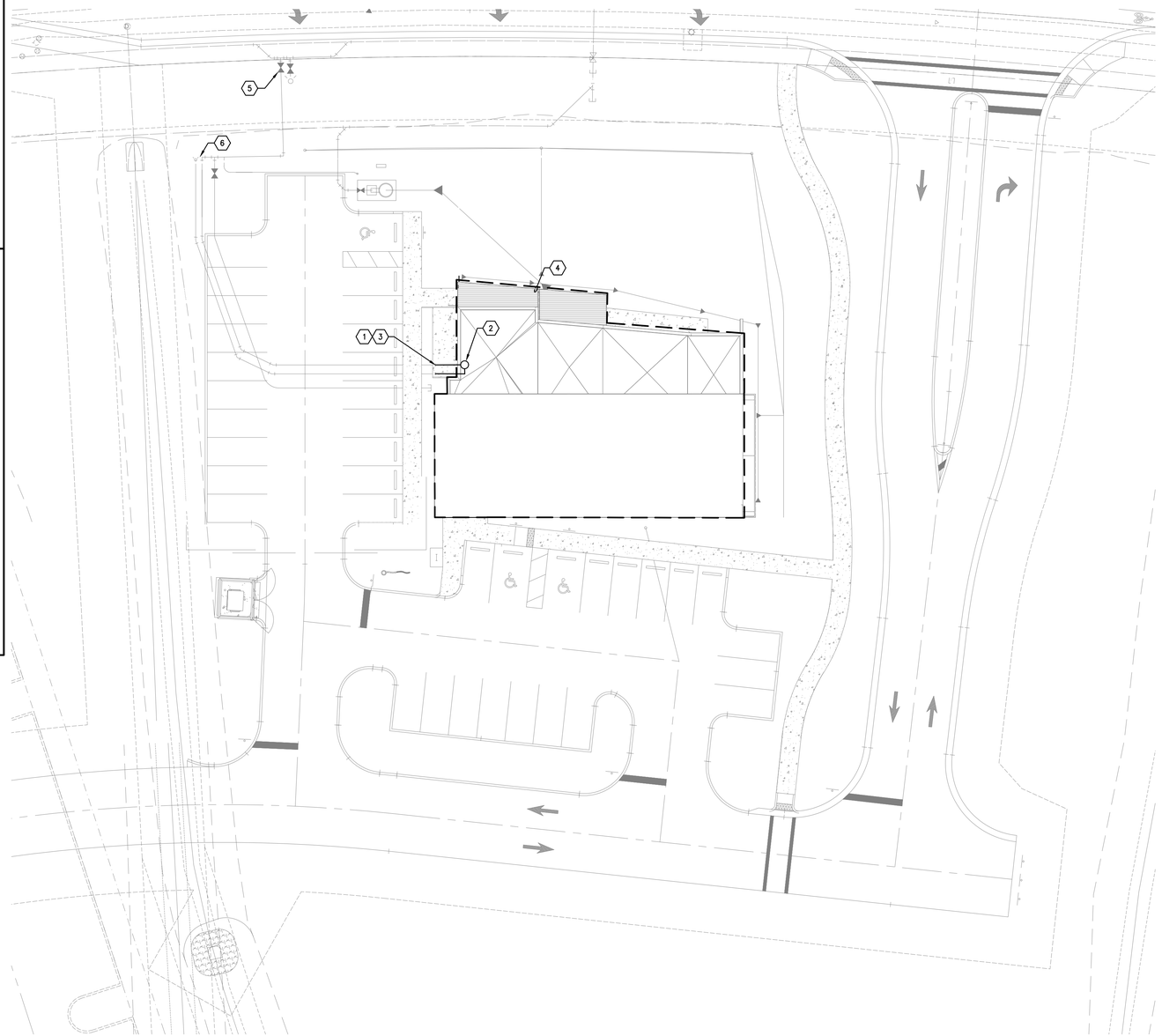
N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\PLUMBING\23-0340_P5.0_SCHEDULE.DWG
9/5/2023 6:39:50 AM 2/9/2024 9:39:21 AM



FIRE SPRINKLER RISER



INSPECTORS TEST STATION



FIRE PROTECTION SITE PLAN 1

1" = 20'-0"

HYDRAULIC DESIGN INFORMATION

NAME: MANATEE COUNTY SHERIFF'S OFFICE

OWNER: MANATEE COUNTY

LOCATION: RANGELAND PKWY AND UIHLEIN RD
BRADENTON, FL

CONSTRUCTION: ROOF FRAMING.....COMBUSTIBLE
WALLS .....NON-COMBUSTIBLE

SYSTEM DESIGN

1. ENTIRE BUILDING SHALL BE PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM PER NFPA 13. ALL GENERAL BUILDING AREAS SHALL HAVE COVERAGE PER NFPA-13 – LIGHT HAZARD. STORAGE AREAS, MECHANICAL ROOMS AND ELECTRICAL ROOMS SHALL HAVE COVERAGE PER NFPA-13 – ORDINARY HAZARD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. FIRE SPRINKLER CONTRACTOR SHALL REVIEW THE INFORMATION CONTAINED HEREIN AND SHALL PREPARE COMPLETE FIRE SYSTEM INSTALLATION SHOP DRAWINGS COINCIDING WITH HYDRAULIC CALCULATIONS SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE FIELD AND SHALL CARRY A MINIMUM OF $500,000 WORTH OF PROFESSIONAL LIABILITY ERRORS AND OMISSIONS INSURANCE APPLICABLE FOR THIS PROJECT. IF REQUIRED, A WAIVER SHALL BE PROVIDED TO SPRINKLER CONTRACTOR. THE DESIGN AND DETAILS SHALL CONFORM TO NFPA 13 AND NFPA 14, AND ALL LOCAL CODES AND REGULATIONS, PURSUANT TO FS 471.003 (2) AND RULES 61G15-30 AND 32. THE FIRE PROTECTION CONTRACTOR SHALL BE REQUIRED TO PROVIDE DETAILED FIRE PROTECTION CONSTRUCTION DRAWINGS TO BE SIGNED AND SEALED BY A REGISTERED FIRE PROTECTION SYSTEM DESIGN ENGINEER ACTING AS THE DELEGATED ENGINEER TO THE PRIME ENGINEER AS PART OF THIS SCOPE. THE CONTRACTOR SHALL SUBMIT THE NECESSARY NUMBER OF COPIES OF SIGNED AND SEALED DRAWINGS TO AUTHORITIES HAVING JURISDICTION FOR REVIEW, APPROVAL, AND ISSUANCE OF PERMIT. COPIES OF THE SIGNED AND SEALED DRAWINGS SHALL BE SUBMITTED TO THIS OFFICE FOR REVIEW AND COMMENT AFTER APPROVAL FROM AUTHORITY HAVING JURISDICTION.

3. THIS CONTRACTOR'S SHOP DRAWNGS SHALL BE COORDINATED WITH CEILINGS, AIR DEVICES, LIGHTING, STRUCTURAL MEMBERS, ETC. THE CONTRACTOR SHALL STRIVE TO ALIGN THE SPRINKLER HEADS WITHIN THE CENTER OF EACH CEILING WHERE POSSIBLE WHILE MAINTAINING SPACING REQUIREMENTS.

HYDRANT FLOW DATA*

HYDRANT #: 3739
LOCATION : RANGELAND PARKWAY AND UILEIN RD, BRADENTON

TEST DATE: 09/26/23

STATIC PSI: 60
RESIDUAL PSI: 58
GPM: 1087

* CONTRACTOR SHALL INCLUDE IN THEIR SCOPE OF WORK A HYDRANT FLOW TEST, AS PERFORMED COORDINATE BY THE RESPONSIBLE AGENCY. THE FLOW TEST SHALL BE CONDUCTED NO MORE THAN 12 MONTHS PRIOR TO THE WORKING PLAN SUBMITTAL.

GENERAL NOTES

1. PROVIDE NEW BUILDING WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM PER NFPA 13.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. REFER TO CIVIL DRAWINGS FOR MAIN FIRE LINE LOCATION AND CONNECTION TO CITY MAIN.
4. REFER TO CIVIL DRAWINGS FOR FDC AND HYDRANT LOCATION SERVING NEW FIRE SPRINKLER SYSTEM.
5. ALL EXPOSED FIRE SPRINKLER PIPING SHALL BE PAINTED RED.

KEYED NOTES

1. APPROXIMATE LOCATION OF FIRE LINE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
2. MAIN FIRE LINE CONNECTION TO BUILDING FIRE RISER (MINIMUM 6"). REFER TO DETAILS FOR ADDITIONAL INFORMATION.
3. EXTEND TO THE SITE'S WATER SERVICE. VERIFY EXACT REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE EXACT LOCATION OF HYDRANT, FIRE MAIN AND SIAMESE CONNECTION WITH CIVIL DRAWINGS PRIOR TO BIDDING.
4. DASHED OUTLINE DEFINES APPROXIMATE COVERAGE AREA.
5. 6" BACKFLOW PREVENTER LOCATION. REFER TO CIVIL DRAWINGS.
6. PROPOSED FIRE DEPARTMENT CONNECTION LOCATION. REFER TO CIVIL DRAWINGS.

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL. 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	Author
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

FP1.0

FIRE PROTECTION SITE PLAN

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GENERAL NOTES ELECTRICAL

1. DO NOT SCALE FROM THESE DRAWINGS.
2. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
4. ALL EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S).
5. PROVIDE CEILING MOUNTED RED L.E.D. ALARM INDICATOR FOR EACH SMOKE DETECTOR MOUNTED IN PLENUM SPACE(S) OR CONCEALED AREAS.
6. REFER TO MECHANICAL DRAWINGS FOR INTERLOCKING REQUIREMENTS OF MECHANICAL EQUIPMENT (MOTORS, FANS, PUMPS, ETC...). INSTALL ANY ELECTRICAL EQUIPMENT (STARTERS, RELAYS, VFD'S, ETC..) FURNISHED BY MECHANICAL CONTRACTOR.
7. ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
8. PROVIDE ADEQUATE POWER IN THE FIRE ALARM SYSTEM TO OPERATE ALL LIFE SAFETY SYSTEM AND E.M.C.S. CONTROL DEVICES.
9. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FIRE PROTECTION WATER FLOW AND TAMPER SWITCHES. PROVIDE/ COORDINATE WIRING REQUIREMENTS.
10. WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR (OR HEATER UNIT). FEEDER (AND/OR BRANCH CIRCUIT) OVER-CURRENT DEVICE SERVING SUCH MOTOR (OR HEATER) SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.
11. PROVIDE WALL SWITCHES IN EACH OFFICE/AREA TO CONTROL THE LIGHT FIXTURE(S) IN EACH OFFICE/AREA.
12. REFERENCE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE CONDUIT AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
13. RECEPTACLES IN MECHANICAL ROOM, ELECTRICAL ROOMS, STORAGE ROOMS AND JANITOR CLOSETS TO BE MOUNTED 48" A.F.F. AND SHALL BE G.F.I. TYPE.
14. ALL EXTERIOR WIRING DEVICES TO BE WEATHERPROOF AND SHALL BE G.F.I. TYPE.
15. REFER TO ARCHITECTURAL FLOOR PLANS FOR DIMENSIONAL LOCATIONS OF ALL FLOOR MOUNTED ELECTRICAL DEVICES.
16. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC AND FOR COORDINATION WITH OTHER DISCIPLINES.
17. COORDINATE ALL LOCATIONS OF RECEPTACLES AND SYSTEMS OUTLETS WITH IN ALL CASEWORK.
18. USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
19. WHERE MULTIPLE GFI RECEPTACLES ARE WIRED TO THE SAME CIRCUIT, ALL RECEPTACLES SHALL BE TIED TO THE LINE SIDE OF THE ADDITIONAL RECEPTACLES. NO FEEDING THROUGH THE LOAD SIDE TERMINALS
20. HVAC CONTRACTOR TO REUSE EXISTING DATA CABLING IN EXISTING BUILDINGS FOR ALL NEW HVAC CONTROLS. PROVIDE NEW DATA CABLING AT NEW BUILDING.
21. ALL MATERIAL FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE FOLLOWING CODES AS THEY APPLY TO THIS PROJECT:
    a. ANSI/NFPA 70---NATIONAL ELECTRICAL CODE – 2020
    b. NFPA 101---LIFE SAFETY CODE – 2021
    c. REGULATIONS OF THE FLORIDA INDUSTRIAL COMMISSION CONCERNING SAFETY.
    d. APPLICABLE COUNTY, STATE, AND LOCAL BUILDING CODES.
    e. LOCAL AND STATE FIRE MARSHAL RULES AND REGULATIONS.
    f. OCCUPATIONAL SAFETY AND HEALTH AGENCY STANDARDS (OSHA).
    g. FLORIDA BUILDING CODE 8TH EDITION.
    h. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE – 2019

PUBLIC SAFETY EMERGENCY TWO-WAY RADIO COMMUNICATION SYSTEM NOTES.

1. CONTRACTOR SHALL PROVIDE TWO-WAY RADIO COMMUNICATION SYSTEM AS PER SECTION 11.10 FFPC 8TH EDITION AS DIRECTED BELOW.
2. CONTRACTOR SHALL PROVIDE TWO-WAY RADIO RACEWAY SYSTEM SHOWN ON PLANS AS PART OF THIS CONTRACT. CONTRACTOR SHALL CARRY AN ALLOWANCE AS PART OF THIS CONTRACT FOR COMPLETE FUNCTIONAL SYSTEM INCLUDING AND NOT LIMITED TO REQUIRED SYSTEM DESIGN, FIELD DEVICES, WIRING, EQUIPMENT, INSTALLATION AND FIRE ALARM SYSTEM TIE-IN.
3. CONTRACTOR SHALL PROVIDE FIELD SIGNAL TESTING VIA THIRD PARTY FOR ALL EXISTING AND NEW BUILDINGS. CONTRACTOR SHALL SUBMIT SIGNAL STRENGTH TEST TO AUTHORITY HAVING JURISDICTION (FIRE MARSHAL'S OFFICE) REGARDLESS IF THE BUILDING PASSED OR FAILED THE COMMUNICATION TEST FOR APPROVAL PRIOR TO SYSTEM DEVICE AND EQUIPMENT INSTALLATION.
4. IF TWO-WAY RADIO SIGNAL TEST RESULTS ARE DETERMINED UNACCEPTABLE PER MINIMUM RADIO SIGNAL STRENGTH SET FORTH BY AHJ., THEN CONTRACTOR SHALL INSTALL ENTIRE TWO-WAY RADIO SYSTEM. REFER TO NOTE #2.

Responsibility Matrix

System	Raceways	Cabling	Devices/Equipment	NOTES
Voice/Data	CF/CI	CF/CI	CF/CI	1
CATV	N/A	N/A	N/A	
Fire Alarm	CF/CI	CF/CI	CF/CI	
Access Control	CF/CI	CF/CI	CF/CI	
Clocks	CF/CI	CF/CI	OF/OI	
Intrusion	N/A	N/A	N/A	
Surveillance	CF/CI	CF/CI	CF/CI	
Paging System	N/A	N/A	N/A	
TVs (Data/Power)	CF/CI	CF/CI	CF/CI	2
TV-Related Audio/Visual	CF/CI	CF/CI	CF/CI	3
Cellular Repeater System	CF/CI	CF/CI	CF/CI	
(BDA) Emergency 2-way Responders Rdio System	CF/CI	CF/CI	CF/CI	
Wireless Access Points	CF/CI	CF/CI	OF/CI	4

NOTES

1 **Voice/Data equipment includes telecom racks, patch panels, patch cords, jacks, faceplates. Network Switches, servers, to be furnished and installed by County. Telephones and rack-mount UPS to be County furnished, Contrator installed.**

2 **TV equipment includes TV monitors and mounting brackets. TVs and mounting brackets shall be furnished and installed by the Contractor. All power and data rough in to support TVs shall be furnished and installed by the contractor.**

3 **Power and data shall be provided by the contractor to support TV monitor operation. All Audio-visual devices and cabling to support any additional input sources shall be furnished and installed by the Contractor U.O.N.. Refer to details and specifications.**

4 **The County will furnish all Wireless Access Points and any other electronic devices required for a complete system. Installation of WAPs will be performed by the contractor. The County will supervise the WAP installation. All system programming and configuration will be done by the County.**

CF: Contractor Furnished
CI: Contractor Installed
OF: Owner Furnished (County, UON)
OI: Owner Installed (County, UON)
N/A: Not Applicable

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING AND NOTES
	TYPICAL LIGHTING SYMBOL NOTES: 1. UPPER CASE LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE 2. LOWER CASE LETTER DENOTES SWITCHED LEG 3. SHADED FIXTURE SYMBOL INDICATES EMERGENCY FIXTURE 4. 'NL' DENOTES NIGHT LIGHT CIRCUIT	
● ○	CEILING OUTLET FOR DOWNLIGHT FIXTURE.	SEE FIXTURE SCHEDULE
● ♀	WALL OUTLET FOR LIGHT FIXTURE (WALL SCONCE, WALL PACK)	SEE FIXTURE SCHEDULE
○ ●	CEILING OUTLET FOR 2'x4' LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
◯ ●	CEILING OUTLET FOR 2'x2' LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR 1'x4' LIGHT FIXTURE. (SURFACE, RECESSED, WRAPAROUND, VANDAL-PROOF)	SEE FIXTURE SCHEDULE
	CEILING OUTLET FOR LIGHT FIXTURE. (PENDANT MOUNT, CHANNEL, INDUSTRIAL)	SEE FIXTURE SCHEDULE
	SINGLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION. WALL OR CEILING MOUNT	SEE FIXTURE SCHEDULE
	DOUBLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION. WALL OR CEILING MOUNT	SEE FIXTURE SCHEDULE
	EMERGENCY BUG EYE FIXTURE. WALL OR CEILING MOUNT	SEE FIXTURE SCHEDULE
	TYPICAL SWITCH SUFFIX LEGEND: 3 = 3-WAY VS = VACANCY SENSOR 4 = 4-WAY K = KEYED OS = INTEGRAL OCCUPANCY SENSOR LOWER CASE (a,b) = SWITCH LEG	
$	SINGLE POLE SWITCH	44"AFF TO BOTTOM U.O.N.
	DIGITAL DIMMING SWITCH	44"AFF TO BOTTOM U.O.N.
	DIGITAL ON/OFF SWITCH	44"AFF TO BOTTOM U.O.N.
(OS)	CEILING OCCUPANCY SENSOR	SEE SPECIFICATIONS
(VS)	CEILING VACANCY SENSOR	SEE SPECIFICATIONS
	TYPICAL RECEPTACLE, OUTLET AND JUNCTION BOX SUFFIX LEGEND: EWC = ELECTRIC WATER COOLER IG = ISOLATED GROUND EWH = ELECTRIC WATER HEATER O = OVEN GFI = GROUND FAULT INTERRUPTER R = RANGE UP = UP (CONDUIT) WP = WEATHERPROOF DN = DOWN (CONDUIT) REF = REFRIGERATOR	
	DUPLEX RECEPTACLE (20A,120V). FLOOR	FLUSH FLOOR OUTLET
	DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	DUPLEX RECEPTACLE (20A, 120V). ABOVE COUNTER.	42"AFF TO BOTTOM, ABOVE COUNTER BACKSLASH U.O.N. COORDINATE WITH ARCHITECT
	DOUBLE DUPLEX RECEPTACLE (20A, 120V). ABOVE COUNTER.	42"AFF TO BOTTOM, ABOVE COUNTER BACKSLASH U.O.N. COORDINATE WITH ARCHITECT
	DUPLEX RECEPTACLE (20A, 120V). FLUSH WITH CEILING.	FLUSH WITH CEILING
	DOUBLE DUPLEX RECEPTACLE (20A,120V). FLOOR	FLUSH FLOOR OUTLET
	DOUBLE DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
R	RANGE RECEPTACLE, 50A, 250V, ONE PHASE, FOUR WIRE.	4" AFF. TO BOTTOM U.O.N.
D	DRYER RECEPTACLE, 30A, 250V, ONE PHASE, FOUR WIRE.	36" AFF. TO BOTTOM U.O.N.
	SPECIAL PURPOSE RECEPTACLE, AMPS, VOLTS AND WIRE AS NOTED.	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
J	JUNCTION OR OUTLET BOX, 4" SQUARE BOX U.O.N.	AS NOTED
J	FLOOR MOUNTED JUNCTION OR OUTLET BOX, 4" SQUARE BOX U.O.N.	AS NOTED
S_H	MOTOR RATED SWITCH WITHOUT THERMAL OVERLOADS FOR FRACTIONAL HORSEPOWER MOTORS.	SEE SPECIFICATIONS
S_{SC}	SPEED CONTROL	SEE SPECIFICATIONS
	MUSHROOM TYPE PUSH BUTTON, TYPE AS NOTED ON FLOOR PLANS.	44"AFF TO BOTTOM U.O.N. 4" BELOW COUNTER TOP IN SCIENCE LABS
30/3	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3 POLE, U.O.N.	SEE SPECIFICATIONS
60/40/3	FUSIBLE DISCONNECT SWITCH, AMPS/FUSE SIZE/NO. POLES AS NOTED.	SEE SPECIFICATIONS
	COMBINATION MAGNETIC MOTOR STARTER	SEE SPECIFICATIONS
V	VARIABLE FREQUENCY DRIVE	BY OTHER DIVISION
	MOTOR, NUMERAL INDICATES HORSEPOWER	BY OTHER DIVISION
	DRY TYPE TRANSFORMER, SIZE AS SHOWN ON RISER	FLOOR OR AS NOTED
	PANELBOARD, 120/208V, 3 PH., 4W – REFER TO RISER	6'-6"AFF MIN. TO TOP
	PANELBOARD, 277/480V., 3 PH., 4W – REFER TO RISER	6'-6"AFF MIN. TO TOP
UP	RACEWAY RISER, UP OR DOWN AS NOTED.	SEE SPECIFICATIONS
	RACEWAY CONCEALED UNDER FLOOR, IN SLAB OR BELOW GRADE	SEE SPECIFICATIONS
	RACEWAY CONCEALED IN WALL OR CEILING	SEE SPECIFICATIONS
L1B-1,3	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUITS.	SEE SPECIFICATIONS
	DUPLEX RECEPTACLE (20A, 120V). TIED TO ROOM OCCUPANCY SENSOR FOR AUTOMATIC RECEPTACLE CONTROL.	M.H. 16" AFF U.O.N.
	DUPLEX RECEPTACLE (20A, 120V). TIED TO ROOM OCCUPANCY SENSOR FOR AUTOMATIC RECEPTACLE CONTROL. ABOVE COUNTER	42" AFF TO BOTTOM OTHERWISE, U.O.N.
	DOUBLE DUPLEX RECEPTACLE (20A, 120V). TIED TO ROOM OCCUPANCY SENSOR FOR AUTOMATIC RECEPTACLE CONTROL.	M.H. 16" AFF U.O.N.
	DOUBLE DUPLEX RECEPTACLE (20A, 120V). TIED TO ROOM OCCUPANCY SENSOR FOR AUTOMATIC RECEPTACLE CONTROL.	42" AFF TO BOTTOM OTHERWISE, U.O.N.
	FLOOR DUPLEX RECEPTACLE (20A, 120V). TIED TO ROOM OCCUPANCY SENSOR FOR AUTOMATIC RECEPTACLE CONTROL.	FLUSH FLOOR OUTLET
PL	RELAY PACK FOR PLUG LOAD CONTROL BY LIGHTING CONTROL SYSTEM	ABOVE ACCESSIBLE CEILING
	COMPUTER DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	COMPUTER DOUBLE DUPLEX RECEPTACLE (20A, 120V).	M.H. 16" AFF TO BOTTOM OF THE DEVICE U.O.N.
	COMPUTER DUPLEX RECEPTACLE (20A, 120V). FLUSH WITH CEILING.	FLUSH WITH CEILING
	COMPUTER DOUBLE DUPLEX RECEPTACLE (20A,120V). FLOOR	FLUSH FLOOR OUTLET

ELECTRICAL SYMBOL LEGEND CONTINUED

SYMBOL	DESCRIPTION	MOUNTING AND NOTES
R	ELECTRICALLY HELD MECHANICAL RELAY FOR SMOKE DAMPERS	SEE SPECIFICATIONS
PL	PLUG LOAD CONTROL RELAY/POWER PACK FOR AUTOMATIC SWITCHING OF SELECT RECEPTACLES. PROVIDE AS PART OF LIGHTING CONTROL SYSTEM.	MOUNT TO JUNCTION BOX ABOVE ACCESSIBLE CEILING
	TYPICAL FIRE ALARM DEVICE SUFFIX LEGEND. S = SUPPLY VP = VANDAL PROOF R = RETURN	
S SD	SMOKE DETECTOR FOR SMOKE DAMPER CONTROL (NO FLOW STYLE) PROVIDE RELAYS, TEST SWITCH AND LIGHT AS REQUIRED. (COORDINATE WITH MECHANICAL CONTRACTOR.)	WITHIN DUCTWORK
H	FIRE ALARM HEAT DETECTOR	CEILING, U.O.N.
S	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR	CEILING, U.O.N.
S S	FIRE ALARM PHOTOELECTRIC DETECTOR. INSIDE DUCT. PROVIDE RELAY, TEST SWITCH AND LIGHT AS REQUIRED. (COORDINATE WITH MECHANICAL CONTRACTOR.)	DUCT
F	FIRE ALARM MANUAL PULL STATION	48"AFF TO TOP, U.O.N.
R SD	24 VDC FIRE ALARM RELAY TO CONTROL 120 VAC SMOKE DAMPERS. REFER TO ELECTRICAL DRAWING FOR POWER CIRCUIT. UNDER NORMAL CONDITIONS, SIGNAL SHALL HOLD SMOKE DAMPERS OPEN. WHEN IN ALARM OR POWER LOSS, ACTUATORS SHALL CLOSE UNDER THE POWER OF THE ACTUATOR'S SPRING RETURN. REFER TO "TYPICAL SMOKE OR COMBINATION DAMPER RISER DIAGRAM" ON ELECTRICAL SHEET.	
S TL	FIRE ALARM DUCT SMOKE DETECTOR TEST SWITCHES & LIGHTS. ONE PER SMOKE DUCT DETECTOR	48"AFF TO TOP, U.O.N.
S TL	FIRE ALARM DUCT SMOKE DETECTOR TEST SWITCHES & LIGHTS. ONE PER SMOKE DUCT DETECTOR	CEILING MTD.
S	FIRE ALARM SPEAKER/ FLASHING STROBE LIGHT. 75 CANDELA MIN & 1/2 WATT TAP MINIMUM U.O.N.	CEILING MTD.
S	FIRE ALARM SPEAKER/ FLASHING STROBE LIGHT. 75 CANDELA MIN & 1/2 WATT TAP MINIMUM U.O.N.	WALL, 80" AFF TO BOTTOM OF J-BOX. U.O.N.
F	FIRE ALARM WTH FLASHING STROBE LIGHT. 75 CANDELA MIN U.O.N.	WALL, 80" AFF TO BOTTOM OF J-BOX. U.O.N.
F	FIRE ALARM WITH FLASHING STROBE LIGHT. 75 CANDELA MIN U.O.N.	CEILING MTD.
S	FIRE ALARM SPEAKER ONLY. 1/2 WATT TAP MINIMUM U.O.N.	CEILING MTD.
S	FIRE ALARM SPEAKER ONLY. 1/2 WATT TAP MINIMUM U.O.N.	WALL 90" A.F.F. TO TOP OR 6" BELOW CEILING MTD.
F	FIRE ALARM HORN/ FLASHING STROBE LIGHT. 75 CANDELA MIN U.O.N.	WALL, 80" AFF TO BOTTOM OF J-BOX. U.O.N.
F	FIRE ALARM HORN ONLY.	WALL 90" A.F.F. TO TOP OR 6" BELOW CEILING MTD.
F	FIRE ALARM HORN/ FLASHING STROBE LIGHT.	CEILING MTD.
FACP	FIRE ALARM CONTROL PANEL VOICE TYPE (MASTER OR SUB-PANEL ON FIRE ALARM NETWORK).	M.H. 60" MIN. TO TOP
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL.	M.H. 60" MIN. TO TOP
FATC	FIRE ALARM TERMINAL CABINET	M.H. 60" MIN. TO TOP
NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL.	M.H. 48" MIN. TO TOP
FS	FIRE ALARM WATER TAMPER SWITCH.	48"AFF TO TOP, U.O.N.
FS	FIRE ALARM WATER FLOW SWITCH.	48"AFF TO TOP, U.O.N.
AR AM	FIRE ALARM ADDRESSABLE RELAY/ MONITOR MODULE	
CA	CELLULAR REPEATER DOME ANTENNA, LOCATIONS SHOWN ARE FOR PRICING PURPOSES ONLY. THIS CONTRACTOR SHALL PROVIDE COMPLETE FUNCTIONAL SYSTEM INCLUDING AND NOT LIMITED TO SYSTEM DESIGN, SIGNAL COVERAGE MAPS, FIELD DEVICES, WIRING, EQUIPMENT, INSTALLATION AND SUBMIT SYSTEM LAYOUT FOR APPROVAL. EXTEND ANTENNA CABLE TO LOCAL IDF LOCATION. PROVIDE AMPLIFIER (MOUNTED IN LOCAL IDF ROOM), WEATHERHEAD, EXTERIOR ROOF MOUNTED ANTENNA AND EXTEND EXTERIOR MOUNTED ANTENNA CABLE THROUGH ROOF. COORDINATE ROOF PENETRATION LOCATION WITH ARCHITECT. REFER TO SPECIFICATIONS.	CEILING, U.O.N.
TGB	TELECOMMUNICATION GROUND BUS	
#	NUMBERED HEXAGON REFERS TO SPECIFIC KEYED NOTE	
DH	FIRE ALARM DOOR HOLDER.	WALL, U.O.N.
TWRCES	EMERGENCY TWO-WAY RADIO COMMUNICATIONS ENHANCEMENT SYSTEM.	WALL, U.O.N.
TA	EMERGENCY TWO-WAY RADIO COMMUNICATIONS ENHANCEMENT SYSTEM REMOTE ANTENNA.	CEILING MTD.
S WP	WEATHERPROOF FIRE ALARM SPEAKER/FLASHING STROBE LIGHT. 75cd UNLESS NOTED OTHERWISE. TAPPED AT 1/2 WATT MINIMUM UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SHALL VERIFY PROPER ROUGH-IN REQUIREMENTS WITH FIRE ALARM SYSTEM MANUFACTURER'S INSTALLATION SPECIFICATIONS PRIOR TO ROUGH-IN. ALL EXTERIOR DEVICES IN NEW WALLS SHALL BE FLUSH MOUNTED AND WEATHERPROOF RATING MAINTAINED.	WALL, 80" AFF TO BOTTOM OF LENS. U.O.N.
S PA	PUBLIC ADDRESS SYSTEM SPEAKER. (REFER TO SPECIFICATIONS FOR CABLING AN SPEAKER REQUIREMENTS).	CEILING, U.O.N.
	120V CLOCK (REFER TO SPECIFICATIONS).	96" AFF TO CENTER WALL, U.O.N.
	HATCHING INDICATES EQUIPMENT TO BE DEMOLISHED.	
	CONNECTION POINT OF NEW TO EXISTING	
KV	FIRE ALARM KEY VAULT BY KNOX BOX. MODEL #3275 WITHOUT TAMPER SWITCH OPTION. U.O.N..	60"AFF TO TOP, U.O.N.
VC	VOLUME CONTROL.	48"AFF TO TOP, U.O.N.
MC	CEILING MOUNTED MICROPHONE	48"AFF. TO TOP, U.O.N.

FIRE ALARM ROUGH IN NOTES:

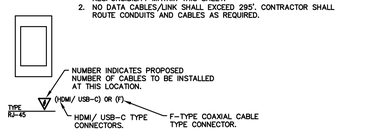
1. ALL FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN DEDICATED CONDUIT RACEWAYS THAT ARE MECHANICALLY CONTINUOUS. PROVIDE #12 AWG GREEN GROUNDING CONDUCTOR IN ALL FIRE ALARM RACEWAYS.
2. COORDINATE ALL FIRE ALARM DEVICE J-BOX REQUIREMENTS WITH PROJECT AWARDED FIRE ALARM SYSTEM MANUFACTURER/ CONTRACTOR PRIOR TO ROUGH-IN.

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND MAY NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

ELECTRICAL SYMBOL LEGEND CONTINUED

STATION, WAP, PHONE AND ETC. DROPS.

NOTE:
1. J-BOXES AND CONDUIT BY THIS CONTRACTOR. REFER TO RESPONSIBILITY MATRIX THIS SHEET.
2. NO DATA CABLES/LINK SHALL EXCEED 295'. CONTRACTOR SHALL ROUTE CONDUITS AND CABLES AS REQUIRED.



SPECIALTY DROPS.

TV1 TV MONITOR SYSTEMS J-BOXES BOXES. PROVIDE (2) DATA CABLES TO LOCAL DATA CLOSET AND POWER. REFER TO DETAILS FOR ROUGH-IN AND SPECIFICATIONS FOR MORE INFORMATION IN EACH SPACE.

TV2 TYPICAL CONFERENCE ROOM MONITOR-A/V SYSTEMS J-BOXES. PROVIDE (2) DATA CABLES CABLE ROUTED TO LOCAL DATA CLOSET. ALSO PROVIDE POWER AND A/V CABLES TO FLOOR BOX SHOWN IN DETAILS. REFER TO DETAILS FOR ROUGH-IN, SYSTEMS INTERFACE CABLING AND SPECIFICATIONS FOR MORE INFORMATION IN EACH SPACE.

TV3 TYPICAL CONFERENCE ROOM MONITOR-A/V SYSTEMS J-BOXES. PROVIDE (2) DATA CABLES ROUTED TO LOCAL DATA CLOSET. ALSO PROVIDE POWER AND A/V CABLES TO WALL BOX BELOW MONITOR SHOWN IN DETAILS. REFER TO DETAILS FOR ROUGH-IN, SYSTEMS INTERFACE CABLING AND SPECIFICATIONS FOR MORE INFORMATION IN EACH SPACE.

MODULAR VOICE/DATA/VIDEO OUTLET LEGEND (DEVICES MOUNTED AT 16" BOTTOM A.F.F. UNLESS NOTED OTHERWISE)

FOR EACH TYPICAL DATA FACE PLATE SHOWN PROVIDE (1) DOUBLE GANG BOX WITH SINGLE GANG MUD RING AND (2) 1" CONDUITS TO 6" ABOVE ACCESSIBLE CEILING. U.O.N.. (REFER TO DETAILS FOR ALL TV CONDUIT ROUGH-IN REQUIREMENTS).

SECURITY LEGEND

KP	WIRED KEY PAD, @ 44" A.F.F.	CAM +XX'-XX"	INTERIOR CAMERA. PROVIDE CAMERA CABLE TO IDF ROOM. CEILING MOUNTED UNLESS HEIGHT SHOWN. REFER TO SPECIFICATIONS.
CR	CARD/ PROXIMITY READER @44" A.F.F. BOTTOM. UNLESS NOTED OTHERWISE.		
MD	WALL MOUNTED HARDWIRED MOTION DETECTOR. REFER TO DETAILS AND SPECIFICATIONS.	WP CAM +XX'-XX"	WEATHERPROOF CAMERA. PROVIDE CAMERA CABLE TO IDF ROOM. PROVIDE J-BOX AT EXTERIOR WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING. CEILING MOUNTED UNLESS HEIGHT SHOWN.
DC	RECESSED HARD WIRED DOOR CONTACT. REFER TO DETAILS AND SPECIFICATIONS.		
EL	ELECTRIC LOCK (STRIKE, LATCH RETRACTION, MORTISE OR MAGLOCK). COORDINATE WITH DOOR HARDWARE PROVIDER/ SCHEDULE.		
SSCP	SECURITY / ACCESS CONTROL SYSTEM CONTROL PANEL. PROVIDE IN QUANTITIES AS REQUIRED.		
TS	TEMPERATURE SENSOR		
DLPS	ACCESS CONTROL DOOR LOCK POWER SUPPLY.		
ADA	ADA PUSH BUTTON.	GB	HARD WIRED GLASS BREAK DETECTOR. REFER TO DETAILS AND SPECIFICATIONS.
RE	REQUEST TO EXIT DEVICE (SENSOR, INTEGRAL LOCK SWITCH OR PUSH TO EXIT BUTTON). REFER TO FLOOR PLANS.	MS	INTERCOM MASTER STATION. PROVIDE ACCESSED REMOTE DOOR VIEWING CAPABILITY AT MASTER STATION AND REMOTE RELEASE OF DOORS. COORDINATE WITH SECURITY INTEGRATOR ALL ROUGH-IN CABLING REQUIREMENTS.
ES	ACCESS CONTROL ELECTRIC STRIKE LOCK. (COORDINATE WITH DOOR HARDWARE PROVIDER.		
IRS	INTERCOM REMOTE STATION WITH INTEGRATED CAMERA. PROVIDE DATA CABLE TO LOCAL IDF RM.. REFER TO MOUNTING DETAILS. COORDINATE WITH OWNER'S SECURITY INTEGRATOR CABLING REQUIREMENT. CABLING SHOWN FOR TYPICAL INSTALLATION.	DLPS	DOOR LOCK POWER SUPPLY. PROVIDE IN QUANTITIES AS REQUIRED, REFER TO SPECIFICATIONS/ HARDWARE SCHEDULE.
MD 360°	CEILING MOUNTED HARD WIRED MOTION DETECTOR. REFER TO DETAILS AND SPECIFICATIONS.		

NOTE:
1. ALL WALL MOUNTED INTERIOR AND EXTERIOR CAMERA HEIGHTS SHOWN FOR REFERENCE ONLY. COORDINATE FINAL MOUNTING HEIGHTS WITH SECURITY INTEGRATOR PRIOR TO INSTALLATION.
2. PROVIDE 20' SERVICE LOOP OF REQUIRED CABLE AT IDF ROOM AND 20' AT DEVICE PLUS THE LENGTH OF THE CONDUIT AT LOCATIONS SHOWN. UNLESS NOTED OTHERWISE.
3. ANY EXTERIOR WALL PENETRATIONS REQUIRED FOR SURVEILLANCE CAMERAS/ ACCESS CONTROL SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND OWNERS SECURITY INTEGRATOR PRIOR TO ANY DRILLING.
4. WHERE CAMERAS INSTALLED IN HARD/ INACCESSIBLE CEILINGS OR WALLS PROVIDE 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE CABLE COILED AT ACCESSIBLE CEILING WITH LENGTH REQUIRED TO REACH CAMERA PLUS SERVICE LOOP.

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND MAY NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

TYPICAL COMMUNICATIONS, LOW VOLTAGE SUFFIX/ ABBREVIATIONS LEGEND:

OSP = OUTSIDE PLANT CABLE.
MM = MULTI MODE FIBER OPTIC CABLE.
SM = SINGLE MODE FIBER OPTIC CABLE.
AFF = ABOVE FINISHED FLOOR.
AFG = ABOVE FINISHED GRADE.
U.O.N. = UNLESS OTHERWISE NOTED.
WAP = WIRELESS ACCESS POINT.
TYP = TYPICAL.
O.F.E. = OWNER FURNISHED EQUIPMENT.
E = EXISTING TO REMAIN..
ER = EXISTING TO BE REPLACED.
D = EXISTING TO BE DEMOLISHED.

FUNCTIONAL TESTING NOTE

CONTRACTOR SHALL PROVIDE FUNCTIONAL TESTING OF THE LIGHTING CONTROL SYSTEM TO ENSURE COMPLIANCE WITH FBC EC C408.3

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
Email@engmtx.com / (727) 573-4656
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MANATEE COUNTY SHERIFF'S OFFICE
AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
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E0.0
ELECTRICAL
GENERAL NOTES

Originals printed at 24" x 36" scale as required

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LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LIGHT SOURCE					VOLTS	MOUNTING	NOTES
			TYPE	DELIVERED LUMENS	KELVIN COLOR TEMP	INPUT WATTS	DIMMING			
A	LITHONIA	CPX-2X2-3200LM-80CRI-40K-SWL-MIN10-ZT-MVOLT	LED	3734	4000	31	YES	UNV	RECESSED IN CEILING GRID	2'X2' LED FLAT PANEL.
	ORACLE	22-FPL								
	METALUX	22CG								
A1	LITHONIA	CPX-2X2-2000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT	LED	2206	4000	16	YES	UNV	RECESSED IN CEILING GRID	2'X2' LED FLAT PANEL.
	ORACLE	22-FPL								
	METALUX	22CG								
C	LITHONIA	LDN6SQ-40/10-LS6-AR-LSS-TRW-MVOLT-GZ10	LED	896	4000	11	YES	UNV	RECESSED IN GRID/HARD CEILING	6" RECESSED SQUARE LED CAN LIGHT. SEMI-SPECULAR REFRACTOR. WET LOCATION LISTED.
	HALO COMMERCIAL	HC6								
	PRESCOLITE	LTS								
CE	LITHONIA	LDN6SQ-40/10-LS6-AR-LSS-TRW-MVOLT-GZ10-EL	LED	896	4000	11	YES	UNV	RECESSED IN GRID/HARD CEILING	SAME AS FIXTURE 'C.' PROVIDE EMERGENCY BATTERY BACK UP OPTION.
	HALO COMMERCIAL	HC6								
	PRESCOLITE	LTS								
C1	LITHONIA	LDN6SQ-40/15-LS6-AR-LSS-TRW-MVOLT-GZ10	LED	1428	4000	18	YES	UNV	RECESSED IN GRID/HARD CEILING	6" RECESSED SQUARE LED CAN LIGHT. SEMI-SPECULAR REFRACTOR. WET LOCATION LISTED.
	HALO COMMERCIAL	HC6								
	PRESCOLITE	LTS								
C2	GOTHAM	EVO6SQSH-40/20-DFR-SMO-MVOLT-EZ10	LED	1754	4000	15	YES	UNV	RECESSED IN HARD CEILING	6" RECESSED SQUARE LED SHOWER CAN LIGHT. NON-CONDUCTIVE DEAD FRONT. SMOOTH FINISH FLUSH LENS.
	COOPER	PD6								
	PRESCOLITE	LTS								
D	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI	LED	5332	4000	35	YES	UNV	WALL / SURFACE MOUNTED OR SUSPENDED WITH CHAIN	LED UTILITY STRIP LIGHT. SURFACE MOUNTED TO HARD CEILING OR SUSPENDED FROM STRUCTURE WITH CHAIN IN OPEN CEILING SPACES. COORDINATE WITH MECHANICAL DUCT EXACT MOUNTING REQUIREMENTS AND LOCATION.
	METALUX	4SNLED								
	COLUMBIA	CSL4								
EM	ISOLITE	RL2LED-4-WH-MBC-SD	LED	NA	NA	NA	NA	UNV	WALL MOUNTED	EMERGENCY BUG EYE FIXTURE WITH 2 LED HEADS. NICKEL CADMIUM BATTERIES WITH SELF-DIAGNOSTIC OPTION. WHITE HOUSING.
	EVENLITE	TCL								
F	FLUXWERX	PF3-A-D-D-40-X-04-R-F2-M-12	LED	DN: 3255 UP: 813	4000	38	YES	UNV	SUSPENDED FROM HARD CEILING/ STRUCTURE 12'-0" A.F.F.	SUSPENDED LINEAR LED FIXTURE. 80% DIRECT / 20% INDIRECT DISTRIBUTION. COORDINATE FIXTURE/CORD/CANOPY FINISH WITH ARCHITECT.
	AXIS LIGHTING	ZELED								
H	FLUXWERX	LN1-A-X-R-03-X-X-W1-8-40-A-F2-M	LED	275/FT	4000	3/FT	YES	UNV	SUSPENDED FROM HARD CEILING/ STRUCTURE 11'-0" A.F.F.	1-3/16"WIDE SUSPENDED LINEAR LED FIXTURE. CUSTOM PATTERN. DIRECT DISTRIBUTION. REFER TO PLANS FOR LAYOUT. COORDINATE FIXTURE/CORD/CANOPY FINISH WITH ARCHITECT.
	AXIS LIGHTING	STD								
J	KENALL	N548-C1-45L40K-DCC-277-SA	LED	4500	4000	45	NO	UNV	SURFACE MOUNTED TO CANOPY	CANOPY SURFACE MOUNTED HIGH ABUSE DAMP PROOF LED FIXTURE. MINIMUM 0.125" LENS FIXTURE WITH INTEGRAL DRIVER. WIDTH OF FIXTURE NOT TO EXCEED 5". PROVIDE TAMPER PROOF SCREWS.
	PA-CO LIGHTING	P760								
	NEWSTAR	51CA4								
POLE	UTILITIES STRUCTURES INC.	US13211								32 FOOT TALL SQUARE TAPERED CONCRETE DIRECT BURIAL POLE (25 FT EXPOSED ABOVE GRADE). 10.97" POLE BASE AND 5" POLE TIP. POLE SHALL BE RATED FOR 170 MPH ULTIMATE WIND SPEED WITH A 3 SECOND WIND GUST FACTOR OF 1.2 AND A LOAD FACTOR OF 1.3. POLE SHALL COMPLY WITH THE 2023 EDITION FBC SECTION 1620 HVHZ AND SECTIONS 1609 AND 1806.
	OR APPROVED EQUAL									
S	LITHONIA	RSX1-LED-P2-40K-R4-MVOLT-IS-X	LED	9972	4000	72	NO	UNV	POLE MOUNTED 25' A.F.G.	LED PARKING LOT FIXTURE WITH INTEGRAL DRIVER. TYPE 4 MEDIUM DISTRIBUTION. PROVIDE ADJUSTABLE SLIP FITTER FOR TENON MOUNTING. COORDINATE FINISH WITH OWNER.
	LUMOUTDOOR	PRV								
S1	LITHONIA	RSX1-LED-P2-40K-R4-MVOLT-IS-X	LED	9972 EACH	4000	72 EACH	NO	UNV	POLE MOUNTED 25' A.F.G.	SAME AS FIXTURE 'S.' 2 FIXTURES SYMMETRICALLY MOUNTED.
	LUMOUTDOOR	PRV								
W	LUMINIS	SQ602-L2L25-R55-277-X	LED	5087	4000	51	YES	UNV	WALL MOUNTED	16" TALL LED WALL SCONCE. ADJUSTABLE UP/DOWN LIGHT. WIDE BEAM DISTRIBUTION. WET LOCATION LISTED. COORDINATE FINISH WITH ARCHITECT.
	OR APPROVED EQUAL									
W1	LUMINAIRE LED	BLD-36IN-NODIM-30W-40K-MVOLT-DP	LED	3009	4000	30	NO	UNV	WALL MOUNTED	36" LOW PROFILE LINEAR LED EGRESS FIXTURE. ALUMINUM HOUSING. PROVIDE BATTERY BACK UP OPTION. COORDINATE FINISH WITH ARCHITECT.
	SPITZER	DFLV								
X	LITHONIA	EDG-1/2-G-EL-SD	LED	NA	NA	NA	NA	UNV	WALL OR CEILING VERIFY	LED EDGE LIT EXIT SIGN WITH MIRROR FINISH AND GREEN LETTERING. UNIT TO BE PROVIDED WITH SINGLE AND DOUBLE SIDED FACES AND WALL, CEILING, AND END MOUNTING OPTIONS, ALL OF WHICH SHALL BE FIELD ADJUSTABLE.
	ENOVOY	EXLRN								

NOTES:
1. PROVIDE FIXTURES WITH UNIVERSAL VOLTAGE DRIVERS U.O.N.
2. PROVIDE ALL COMPONENTS (SUPPORT, HANGERS, ETC.) FOR COMPLETE INSTALLATION.
3. THE ARCHITECT SHALL DETERMINE THE FINAL FINISHES AND COLORS FOR ALL FIXTURES.

SUBSTITUTION REQUESTS AND APPROVAL FOR EQUALS:
1. ONLY FIXTURES THAT ARE LISTED BY MANUFACTURER AND CATALOG NUMBER ARE APPROVED FOR BID. THE SPECIFIED FIXTURES HAVE BEEN SELECTED BASED ON PHOTOMETRIC PERFORMANCE, ELECTRICAL CHARACTERISTICS, VISUAL COMFORT, AESTHETIC APPEARANCE, HOUSING CONSTRUCTION, AND LONGEVITY.
2. CONTRACTORS WISHING TO PROPOSE ALTERNATE FIXTURES NOT LISTED ABOVE SHALL SUBMIT A FORMAL SUBSTITUTION REQUEST, IN WRITING, AT LEAST 15 DAYS PRIOR TO BID.
3. ALL ALTERNATE FIXTURE PACKAGES SUBMITTED FOR SUBSTITUTION REQUEST SHALL INCLUDE THE FOLLOWING:
   - 3.1. A LETTER FROM THE LIGHTING REPRESENTATIVE STATING THAT FIXTURES ARE EQUAL IN EVERY ASPECT TO THE SPECIFIED FIXTURES
   - 3.2. ALL CATALOG CUTSHEETS FOR THE ALTERNATE FIXTURES
   - 3.3. PHOTOMETRIC REPORTS DOCUMENTING: TOTAL DOWNWARD EFFICIENCY, PERCENTAGE OF UPLIGHT (FOR SITE FIXTURES), ETC. (REPORT SHALL BE EQUAL TO A BASIC PHOTOMETRIC TOOLBOX REPORT), POINT BY POINT PHOTOMETRIC CALCULATION FOR THE ENTIRE SITE AND A TYPICAL CALCULATION FOR EACH DIFFERENT TYPE OF SPACE AND/OR DIFFERENT FIXTURES USED IN SIMILAR SPACES.
4. APPROVALS, IF ANY, SHALL ONLY BE ISSUED BY THE ENGINEER OF RECORD IN THE FORM OF AN ADDENDUM TO THE BID DOCUMENTS.

LIGHTING CONTROL TABLE

SPACE/ROOM TYPE	AUTOMATIC CONTROL MEANS	OCCUPANCY SENSOR TYPE	OPERATION MODES	TIME DELAY OFF	NOTE
OFFICES / CONFERENCE / SQUAD	STAND-ALONE OCCUPANCY SENSOR(S) AND POWER PACKS	CEILING MOUNTED DUAL TECH	MANUAL ON, AUTO OFF	30 MINUTES	
SMALL STORAGE ROOMS	STAND-ALONE OCCUPANCY SENSOR	WALL MOUNTED P.I.R. LINE VOLTAGE	MANUAL ON, AUTO OFF	30 MINUTES	
SINGLE OCCUPANT RESTROOMS / STORAGE CLOSETS / JANITOR CLOSETS	STAND-ALONE OCCUPANCY SENSOR	WALL MOUNTED P.I.R. LINE VOLTAGE	AUTO ON, AUTO OFF	30 MINUTES	
GROUP RESTROOMS	LIGHTING CONTROL SYSTEM	CEILING MOUNTED P.I.R.	AUTO ON, AUTO OFF	30 MINUTES	4,5
CORRIDORS / LOBBIES / VESTIBULES	LIGHTING CONTROL SYSTEM	CEILING MOUNTED P.I.R.	AUTO ON, AUTO OFF	30 MINUTES	4,5
ELECTRICAL / MECHANICAL / DATA CLOSETS / KITCHEN	NONE (MANUAL ON/OFF SWITCH ONLY)	N/A	N/A	N/A	
EXTERIOR BUILDING MOUNTED / CANOPY / BUILDING SIGNAGE	ENERGY MANAGEMENT SYSTEM AND CONTACTOR(S)	N/A	N/A	N/A	1
SITE LIGHTING / PARKING LOT	ENERGY MANAGEMENT SYSTEM AND CONTACTOR(S)	N/A	N/A	N/A	2,3
FLAG POLE	PHOTOCELL (DUSK TO DAWN)	N/A	N/A	N/A	

COMMENTS:
-ALL INTERIOR SPACES SHALL BE PROVIDED WITH WALL SWITCHES TO MANUALLY TURN LIGHTS ON AND OFF UNLESS OTHERWISE NOTED.
-P.I.R. = PASSIVE INFRARED SENSING ONLY
DUAL TECHNOLOGY = P.I.R. AND ULTRASONIC SENSING

NOTES:
1.) FIXTURES TO BE CONTROLLED BY TIME-OF-DAY SCHEDULE AND PHOTOCELL VIA BUILDING E.M.S. LOCATE CONTACTORS ADJACENT TO THE SOURCE ELECTRICAL PANEL. FIXTURES TO BE SCHEDULED "OFF" FROM 12AM-6AM.

2.) FIXTURES TO BE CONTROLLED BY TIME-OF-DAY SCHEDULE AND PHOTOCELL VIA BUILDING E.M.S. LOCATE CONTACTORS ADJACENT TO THE SOURCE ELECTRICAL PANEL. PARKING LOT ZONE "A" TO TO BE SCHEDULED "OFF" FROM 12AM-6AM. PARKING LOT ZONE "B" TO REMAIN "ON" DUSK TO DAWN.

3.) FIXTURES TO BE CONTROLLED BY PHOTOCELL. LOCATE CONTACTORS ADJACENT TO THE SOURCE ELECTRICAL PANEL. MAIN DRIVE FIXTURES TO REMAIN "ON" DUSK TO DAWN.

4.) PROVIDE LOCAL RELAY TO ALLOW FOR FIRE ALARM TIE-IN TO ENSURE THAT ALL FIXTURES ILLUMINATE ANYTIME THE FIRE ALARM SYSTEM GOES INTO A GENERAL ALARM EVENT.

5.) SPACE TO BE CONTROLLED BY TIME-OF-DAY SCHEDULE VIA LIGHTING CONTROL SYSTEM. PROVIDE LOCAL DIGITAL LOW-VOLTAGE ON/OFF SWITCH. DIGITAL PUSH BUTTON SWITCHES FOR TIMED OVER-RIDE "ON" OF FIXTURES DURING SCHEDULED "OFF" TIMES. COORDINATE SCHEDULE WITH OWNER.

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	JTH
Checked By	JSW
Date	02.02.24

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E0.1
LUMINAIRE SCHEDULE

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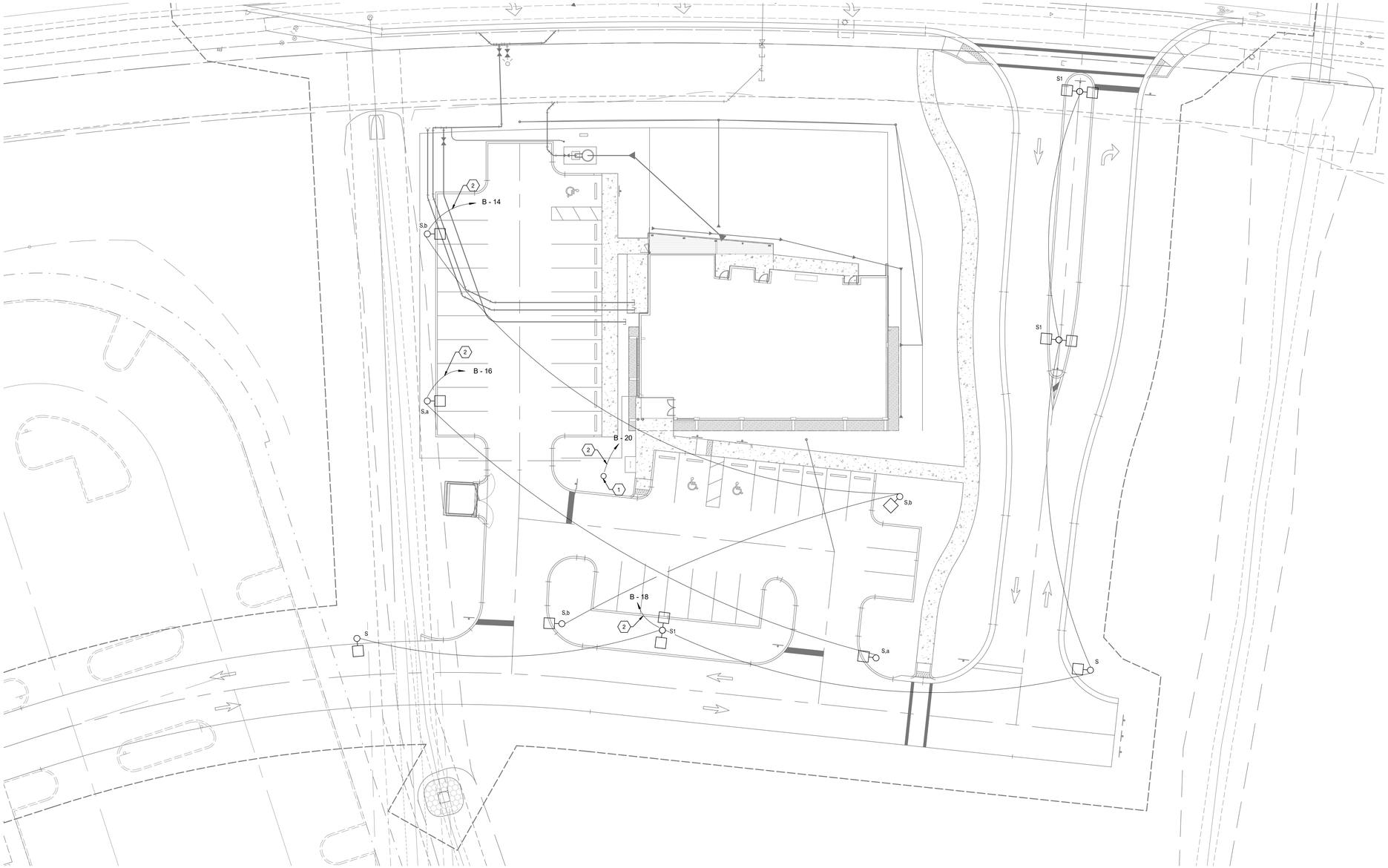
GENERAL NOTES

1. ALL SITE LIGHTING SHALL BE RUN IN MINIMUM 1" CONDUIT.
2. REFER TO SHEET E0.1 FOR LIGHTING CONTROL TABLE.

KEYED NOTES

1. ILLUMINATED FLAG POLE. PROVIDE 2 - #10 CU AND 1 - #10 CU E.G. IN 3/4" CONDUIT FROM FLAG POLE POWER SUPPLY LOCATED IN ELECTRICAL ROOM. PROVIDE NEMA 1 ENCLOSURE FOR POWER SUPPLY AND ROUTE CIRCUIT THROUGH CONTACTOR FOR TIME-OF-DAY CONTROL OF EXTERIOR FIXTURES. COORDINATED EXACT LOCATION AND FINAL POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
2. ROUTE SITE LIGHTING HOMERUN THOUGH CONTRACTOR PROVIDED CONTACTOR LOCATED IN ELECTRICAL ROOM 123. ALL SITE LIGHTING TO BE CONTROLLED BY TIME-OF-DAY SCHEDULING VIA BUILDING E.M.S.



SITE PLAN - LIGHTING | 1

1" = 20'-0"

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FAWLEY BRYANT ARCHITECTURE
3391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 840, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

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E1.1
SITE PLAN - LIGHTING

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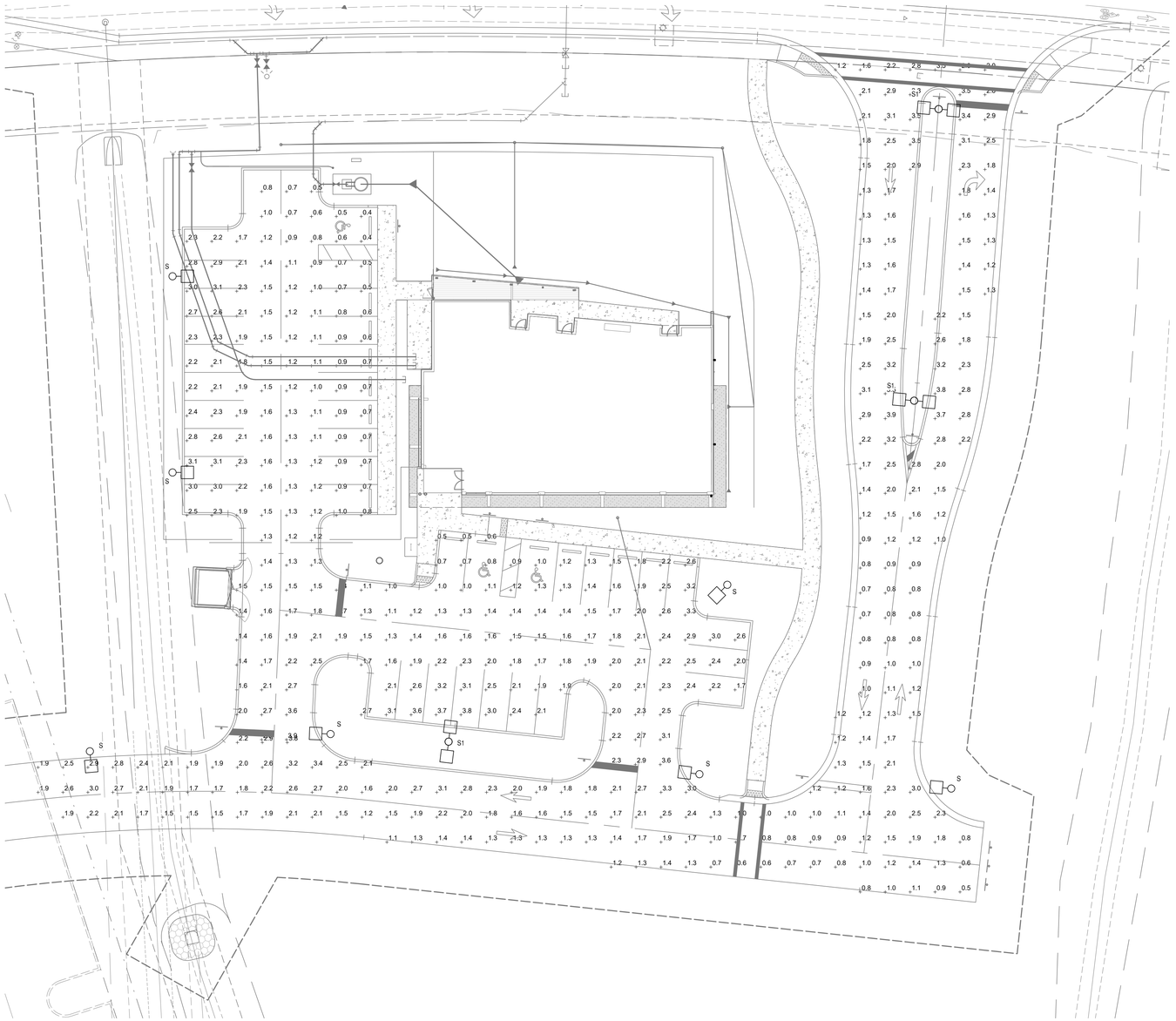

SITE PLAN - PHOTOMETRICS | 1

1" = 20'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
MAIN DRIVE	+	1.8 fc	3.9 fc	0.5 fc	7.8:1	3.6:1
PARKING LOT	+	1.7 fc	3.9 fc	0.4 fc	9.8:1	4.3:1

Schedule

Symbol	Label	Manufacturer	Catalog Number	Description	Lumens Per Lamp	Light Loss Factor	Wattage
	S	Lithonia Lighting	RSX1 LED P2 40K R4	RSX Area Fixture Size 1 P2 Lumen Package 4000K CCT Type R4 Distribution	9972	0.9	72.95
	S1	Lithonia Lighting	RSX1 LED P2 40K R4	RSX Area Fixture Size 1 P2 Lumen Package 4000K CCT Type R4 Distribution	9972	0.9	145.9

FAWLEY BRYANT ARCHITECTURE
SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
3391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 840, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4268
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

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E1.2
SITE PLAN - PHOTOMETRICS

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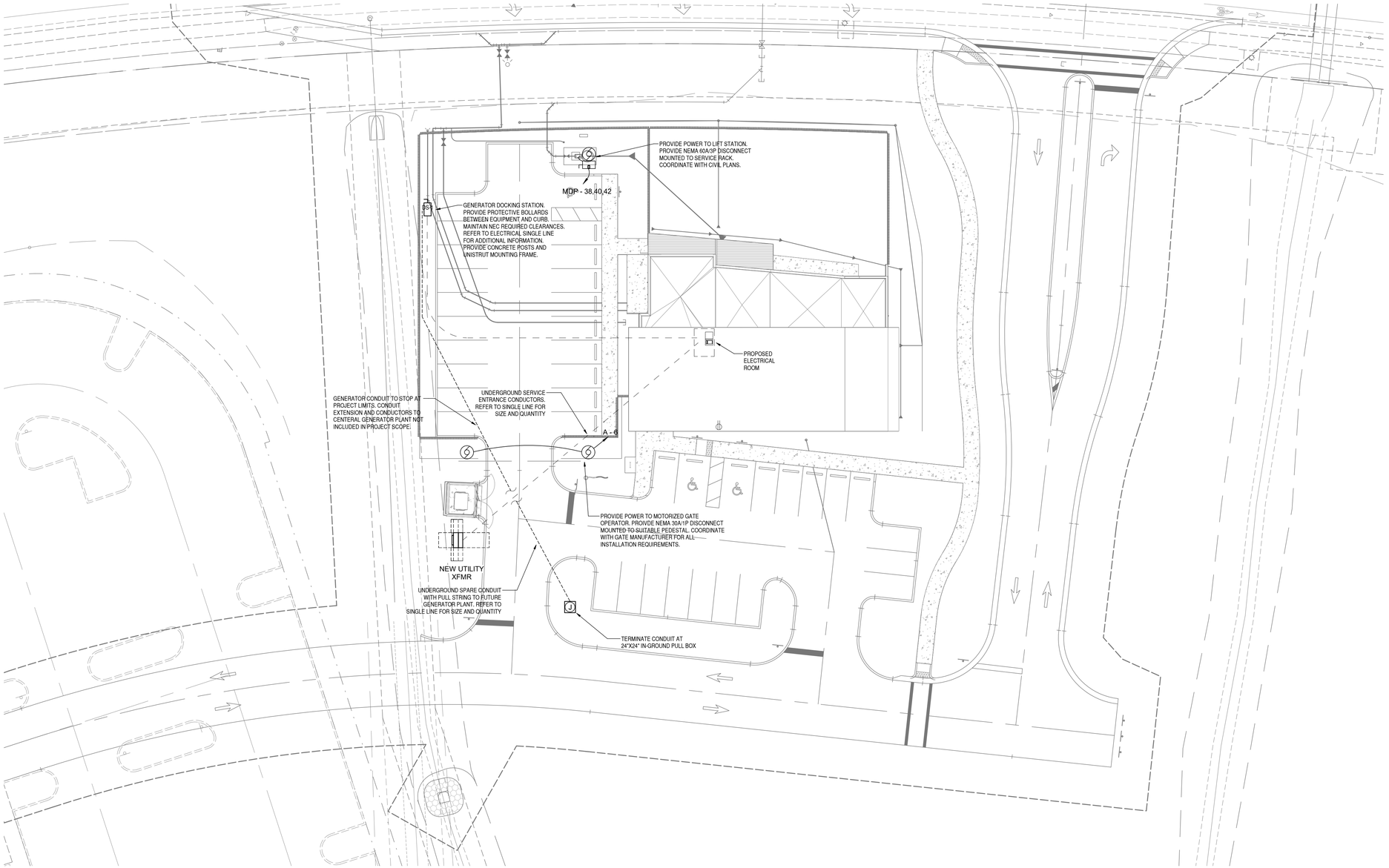
GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE. DO NOT SCALE FROM THESE DRAWINGS.
2. COORDINATE LOCATION OF UTILITY TRANSFORMERS, METERING, AND PRIMARY CONDUIT REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID. PROVIDE UTILITY TRANSFORMER CONCRETE PAD IN ACCORDANCE WITH POWER COMPANY REQUIREMENTS.
3. CONDUIT SIZES MAY BE INCREASED BY THE CONTRACTOR TO FACILITATE LONG PULLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE THE COST OF ANY INCREASE IN CONDUIT SIZE IN THE BASE BID. IN-GROUND PULL BOXES ARE NOT TO BE USED UNLESS NECESSARY TO AVOID CONFLICTS AND ONLY WHERE DIRECTLY APPROVED BY OWNER/ENGINEER.
4. UNDERGROUND FEEDERS SHALL BE CONTINUOUS. SPLICES IN UNDERGROUND CONDUCTORS ARE UNACCEPTABLE.
5. REFER TO SINGLE LINE DRAWINGS FOR QUANTITIES AND SIZES OF FEEDER CONDUITS AND CONDUCTORS.
6. PROVIDE UNDERGROUND MAGNETIC MARKER TAPE FOR ALL UNDERGROUND ELECTRICAL CONDUIT RUNS.
7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK WITH OTHER UTILITIES TO AVOID CONFLICTS.
8. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL ESTABLISH ACTUAL ROUTING AND COORDINATE INSTALLATION WITH OTHER TRADES. SUBMIT DIMENSIONED AS-BUILT DRAWINGS SHOWING ACTUAL LOCATIONS AND DEPTHS OF ALL NEW UNDERGROUND CONDUIT RUNS.
9. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM FOR ALL BUILDINGS AND STRUCTURES. REFER TO SPECS FOR SYSTEM REQUIREMENTS.



SITE PLAN - POWER | **1**

1" = 20'-0"

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FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
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Engineering Matrix
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E1.3
SITE PLAN - POWER

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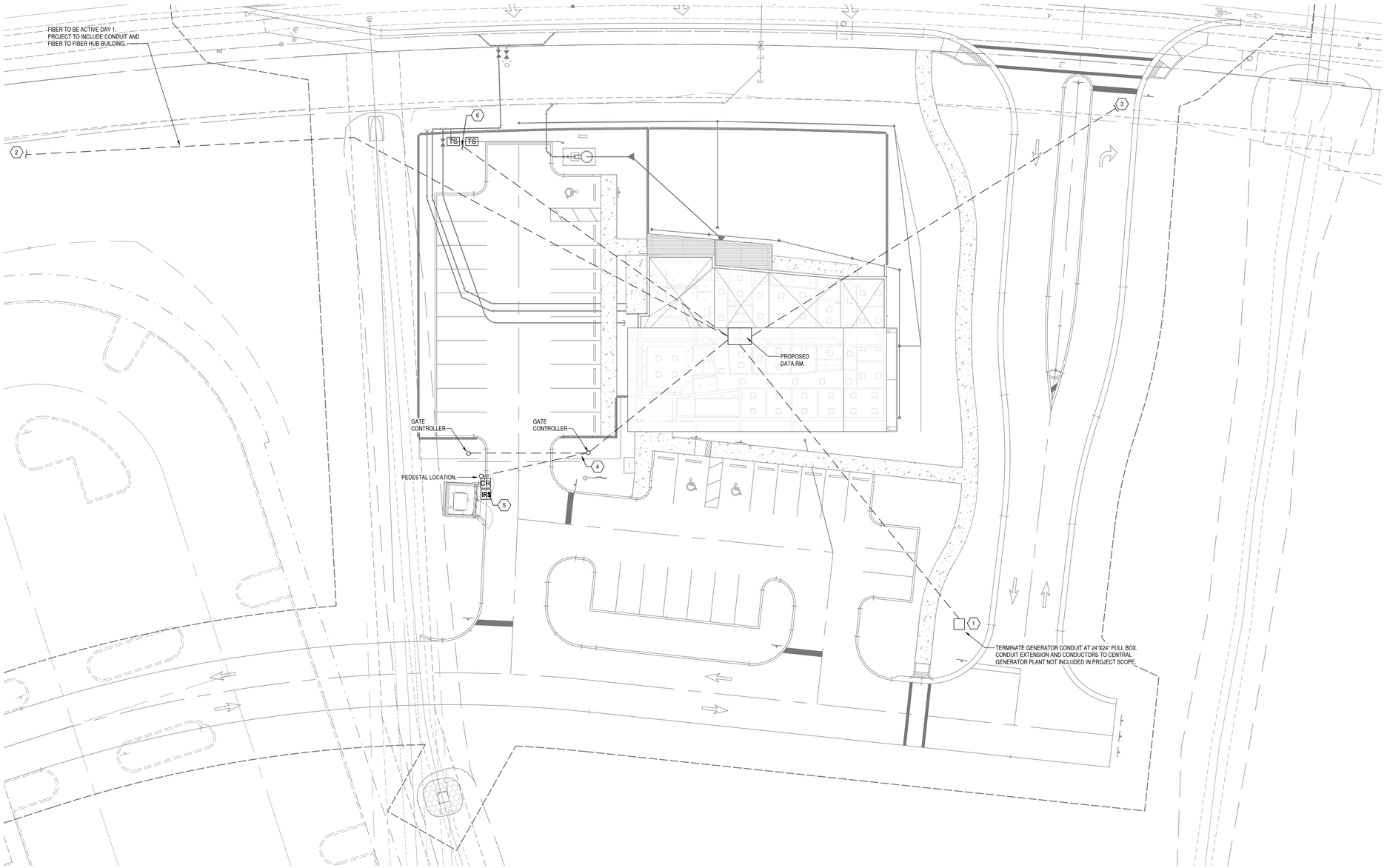

SITE PLAN - LOW VOLTAGE | **1**

1" = 20'-0"

GENERAL NOTES

1. CONDUIT ROUTING IS SCHEMATIC ONLY AND BASED UPON REVIEW OF RECORD DRAWINGS AND LIMITED SITE SURVEY EFFORTS. CONTRACTOR SHALL ESTABLISH ACTUAL ROUTING AND COORDINATE INSTALLATION WITH OTHER TRADES.
2. ALL SITE CABLING SHALL BE RUN IN CONDUIT, SIZE AS INDICATED, UNDERGROUND BETWEEN BUILDINGS WITH MINIMUM 24" COVER.
3. INSTALL BUFFER TUBE FAN KITS ON ALL FIBER PRIOR TO ALL TERMINATIONS.
4. ALL FIBER OPTIC CABLE SHALL BE TERMINATED ON CONNECTORS AS PER SPECIFICATIONS. AND PLACED IN FIBER CABINETS.
5. PRIME AND PAINT ANY EXPOSED CONDUIT TO MATCH ADJACENT.
6. FOR CONDUIT PENETRATIONS, CONTRACTOR TO SEAL AND/OR FIRE STOP AS APPROPRIATE.
7. PROVIDE LONG CONDUIT SWEEPS (PER BICSI) AT ALL RIGHT ANGLES.
8. INSTALL #4 GROUND KIT IN ALL WIRING CLOSETS.
9. CONTRACTOR TO REVIEW ROUTING AND FIBER CABINET LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. THIS CONTRACTOR TO MINIMIZE CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, SIDEWALKS AND LANDSCAPING WHEN ENCOUNTERED. UTILIZE HAND DIGGING WHERE REQUIRED.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PROVIDE ANY AND ALL PULL BOXES REQUIRED EITHER BY THE N.E.C. OR BOXES THAT MAY BE REQUIRED FOR LONG PULLS. CONDUIT SIZES MAY BE INCREASED BY THE CONTRACTOR IN LIEU OF PROVIDING ADDITIONAL PULL BOXES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE THE COST OF ANY INCREASE IN CONDUIT SIZE IN THE BASE BID.
11. ALL COMMUNICATIONS' GROUND PULL BOXES (GPB) TO BE PROVIDED PER SPECIFICATIONS. ALL BOXES SHALL BE SIZED AS REQUIRED. ALL GPB'S TO HAVE APPROPRIATE LOCKING COVER/LOGO (COMMUNICATIONS) AND NO BOTTOM. FILL BOTTOM WITH 6" OF CRUSHED ROCK.
12. CONTRACTOR SHALL VISIT SITE PRIOR TO BID SUBMITTAL TO OBSERVE EXISTING CONDITIONS.
13. PROVIDE PULL STRINGS IN ALL SPARE/EMPTY SITE RACEWAYS FOR FUTURE USE.
14. ALL UNDERGROUND CONDUIT FOR FIBER OPTIC CABLE SHALL HAVE A MINIMUM BEND RADIUS OF 36" ON ANY 90-DEGREE TRANSITION.
15. ALL CONDUIT INTO AND OUT OF GROUND PULL BOXES AND VAULTS SHALL ENTER FROM BELOW. NO THROUGH BOX PENETRATIONS PERMITTED.
16. ALL UNDERGROUND LOW VOLTAGE SYSTEM BOXES SHALL BE POLYMER CONCRETE OR HDPE. FIBERGLASS AND PLASTIC BOXES ARE NOT PERMITTED. ALL TRAFFIC BEARING BOXES SHALL HAVE A TIER RATING OF H-20.

KEYED NOTES

1. PROVIDE 1-1/2" U.G. CONDUIT TO FUTURE GENERATOR ENCLOSURE FOR FUTURE FIRE ALARM GENERATOR FIRE ALARM MONITOR MODULES TIE-IN.
2. PROVIDE 4" CONDUIT TO EXISTING COUNTY FIBER HUB BUILDING. PROVIDE (3) THREE 1" CORRUGATED TYPE INNERDUCTS WITH 24CT OM4 FIBER. REFER TO SPECIFICATIONS.
3. PROVIDE (4) FOUR 4" CONDUITS FOR SERVICE PROVIDERS' USE. EXTEND CONDUITS FROM DATA ROOM TO PROPERTY LINE AT SERVICE PROVIDERS' LOCATION. COORDINATE WITH SERVICE PROVIDERS.
4. PROVIDE 1-1/2" U.G. CONDUIT FROM DATA ROOM TO GATE CONTROLLER LOCATION. COORDINATE WITH GATE CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE ACCESS CONTROL CABLING AND TIE-IN AS REQUIRED.
5. PROVIDE 1-1/2" U.G. CONDUIT FROM PEDESTAL TO DATA ROOM. PROVIDE ACCESS CONTROL CARD READER CABLING AND TIE-IN AS REQUIRED.
6. PROVIDE TIE-IN TO TO BUILDING FIRE ALARM SYSTEM. PROVIDE 1-1/2" U.G. CONDUIT FROM DATA ROOM AND STUB-UP CONDUIT AT TAMPER SWITCHES, PROVIDE WEATHERPROOF J-BOX SIZED AS REQUIRED MOUNTED ABOVE GROUND AND SUPPORTED AS REQUIRED. EXTEND FLEXIBLE CONDUIT TO EACH TAMER SWITCH FROM J-BOX WITH LIQUID TIGHT TYPE FITTINGS. COORDINATE LOCATION WITH FIRE PROTECTION CONTRACTOR & CIVIL UTILITY PLANS.

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
3391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2865 Scherer Drive, Suite 840, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4268
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

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E1.4

SITE PLAN - LOW VOLTAGE

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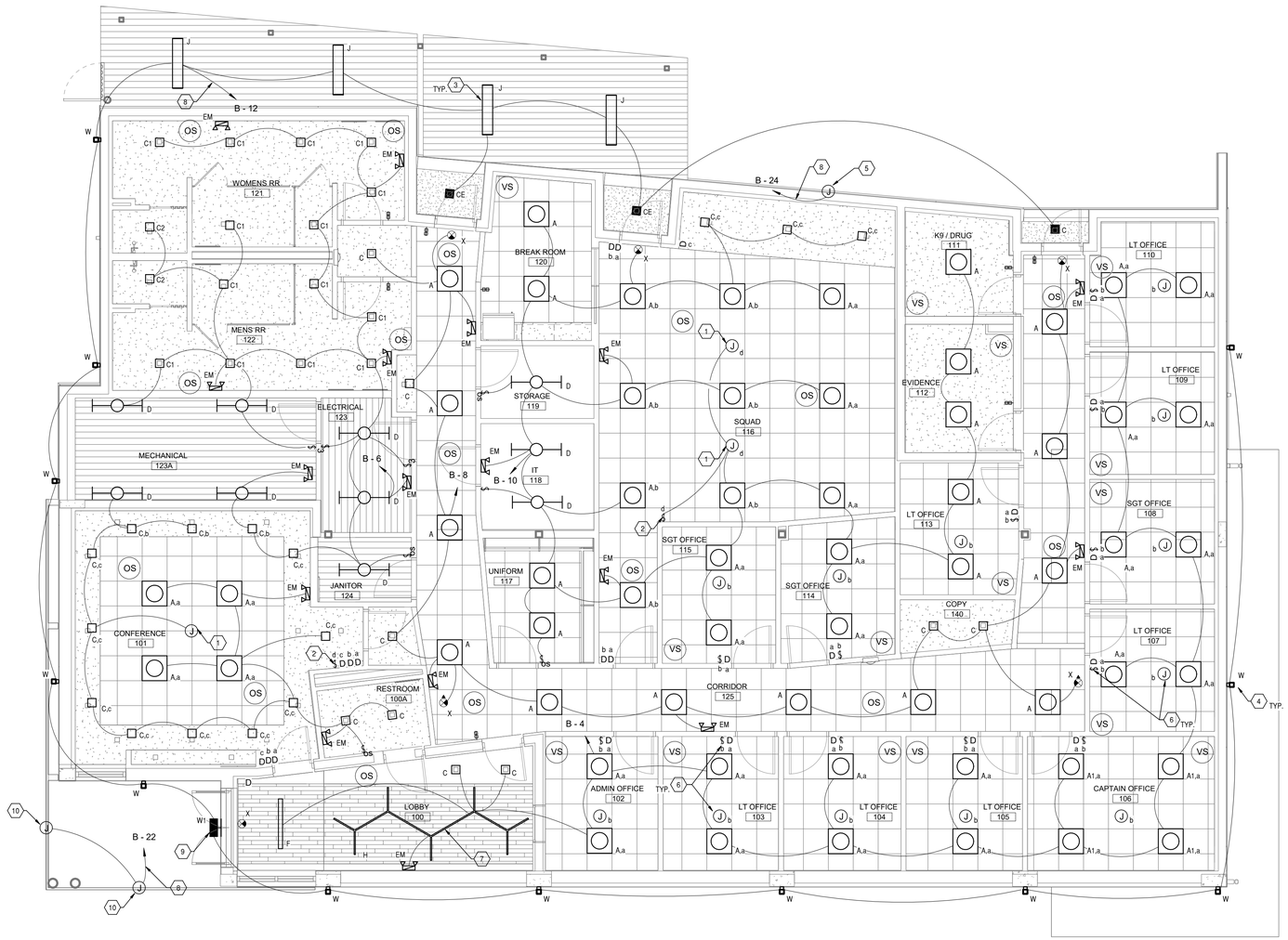

FLOOR PLAN - LIGHTING | **1**

3/16" = 1'-0"

GENERAL NOTES

1. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE A LOCAL (WITHIN SAME ROOM) UN-SWITCHED HOT, CONNECTED TO THE EMERGENCY BATTERY (TO FACILITATE BATTERY RECHARGING AND INITIATION OF EMERGENCY MODE UPON LOSS OF POWER).
2. PROVIDE WIRING AS NECESSARY TO ACCOMMODATE SWITCHING FUNCTION AS INDICATED ON FLOOR PLAN.
3. IN ALL MECHANICAL ROOMS SUSPEND FIXTURES WITH CABLE/CHAIN OR WALL MOUNT TO AVOID CONFLICTS WITH DUCTWORK OR OTHER EQUIPMENT IN CEILING SPACE. MOUNT AS HIGH AS POSSIBLE.
4. COORDINATE MOUNTING AND ROTATION OF ALL EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS.

LIGHTING CONTROL NOTES

1. ALL LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION.
2. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED THROUGH THE LIGHTING CONTROL SYSTEM VIA PHOTOCELL ON/OFF WITH SCHEDULED TIME-OF-DAY OVERRIDES VIA THE ENERGY MANAGEMENT SYSTEM. PROVIDE CONTACTORS AS REQUIRED TO CONTROL ALL EXTERIOR CIRCUIT SWITCHLEGS.
3. CONTROL DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ALL DEVICES AND EQUIPMENT, INCLUDING OCCUPANCY SENSOR COVERAGE PATTERNS, ALONG WITH EQUIPMENT CATALOG CUT SHEETS TO OWNER/ENGINEER FOR REVIEW. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE OCCUPANCY/VACANCY SENSORS FOR AUTOMATIC LIGHTING CONTROL IN ALL SPACES EXCEPT MECHANICAL ROOMS, ELECTRICAL ROOMS, AND IDF/MDF ROOMS UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND POWER PACKS/ROOM CONTROLLERS, WIRING, CONDUIT, SUPPORTS, NETWORK BRIDGES, GATEWAYS ETC. FOR A COMPLETE SYSTEM. ALL SPACES SHALL INCLUDE MANUAL OVERRIDE DIGITAL SWITCHES. INCLUDE ANY AND ALL 2 WAY, 3 WAY, 4 WAY, AND DIMMING SWITCHING AS NECESSARY TO MEET THE SWITCHING INTENT SHOWN ON THE DRAWINGS.
6. THE CONTRACTOR SHALL VERIFY TYPE AND QUANTITY OF OCCUPANCY SENSORS AND SWITCH PACKS OR POWER PACKS WITH THE MANUFACTURER'S REPRESENTATIVE FOR CORRECT COVERAGE OF EACH SPACE PRIOR TO BID.
7. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
8. THE SYSTEM SHALL BE A WIRELESS DIGITAL, DISTRIBUTED NETWORKED SYSTEM, WITH WEB-BASED CONTROL INTERFACE. COORDINATE EMS CONTROL TIE-IN REQUIREMENTS WITH MECHANICAL CONTROLS CONTRACTOR.
9. THE SYSTEM BASIS OF DESIGN IS VIVE BY LUTRON.
10. LIGHTING CONTROL SYSTEM COMMISSIONING SHALL BE PERFORMED BY AUTHORIZED MANUFACTURER'S REPRESENTATIVE.
11. DIMMING FUNCTIONALITY IS REQUIRED FOR ALL FIXTURES LISTED AS DIMMABLE IN THE LUMINAIRE SCHEDULE. PROVIDE 0-10 VOLT CONTROL WIRING, DIMMABLE POWER PACKS, AND DIMMER SWITCHES FOR ALL FIXTURES AS REQUIRED.
12. REFER TO LIGHTING CONTROL TABLE ON SHEET E0.1 FOR ADDITIONAL LIGHTING CONTROL INFORMATION.

KEYED NOTES

1. JUNCTION BOX FOR FAN SUPPORTED FROM STRUCTURE. REFER TO ARCHITECTURAL RCP FOR FAN MODEL/MANUFACTURER.
2. CONTRACTOR SHALL PROVIDE MULTI-SPEED SWITCH FOR CONTROL OF FAN. (TYPICAL)
3. 1X4 GASKETED LED CANOPY FIXTURE MOUNTED WITHIN EXTRUDED ALUMINUM CANOPY. CONTRACTOR SHALL STUB OUT INDIVIDUAL POWER FEED FOR EACH FIXTURE. NEATLY ROUTE RIGID CONDUIT ALONG UNDERSIDE OF CANOPY. REFER TO DETAIL FOR FURTHER MOUNTING REQUIREMENTS. (TYPICAL)
4. LED WALL MOUNTED SCONCE. DIRECT/INDIRECT DISTRIBUTION. (TYPICAL)
5. RECESSED JUNCTION BOX AND CIRCUIT FOR SELF-ILLUMINATED BUILDING LETTERING. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
6. CONTRACTOR SHALL PROVIDE CEILING FAN JUNCTION BOX, RACEWAYS, AND WALL SWITCH FOR FUTURE CEILING FAN INSTALLATION. (TYPICAL OF ALL OFFICES)
7. SPECIALTY LED PENDANT FIXTURE. SUSPEND FROM SPECIALTY CEILING SYSTEM. PROVIDE REMOTE DRIVERS LOCATED ABOVE A.C.T. GRID IN ADJACENT SPACE.
8. ROUTE EXTERIOR LIGHTING HOMERUN THOUGH CONTRACTOR PROVIDED CONTACTOR LOCATED IN ELECTRICAL ROOM 123. ALL EXTERIOR LIGHTING / BUILDING SIGNAGE TO BE CONTROLLED BY TIME-OF-DAY SCHEDULING VIA BUILDING E.M.S.
9. MOUNT FIXTURE ABOVE EGRESS DOOR / BELOW TOP LIGHT. CONCEAL CONDUIT & CONDUCTORS IN STRUCTURE.
10. SURFACE MOUNTED JUNCTION BOX FOR INTERNALLY ILLUMINATED SIGN. MOUNT ON HORIZONTAL FACADE STRUCTURE. CONTRACTOR SHALL NEATLY ROUTE AND CONCEAL SURFACE MOUNTED CONDUIT ALONG STRUCTURE. PAINT TO MATCH. COORDINATE FINAL LOCATION WITH ARCHITECT.

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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
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E2.1
FLOOR PLAN - LIGHTING

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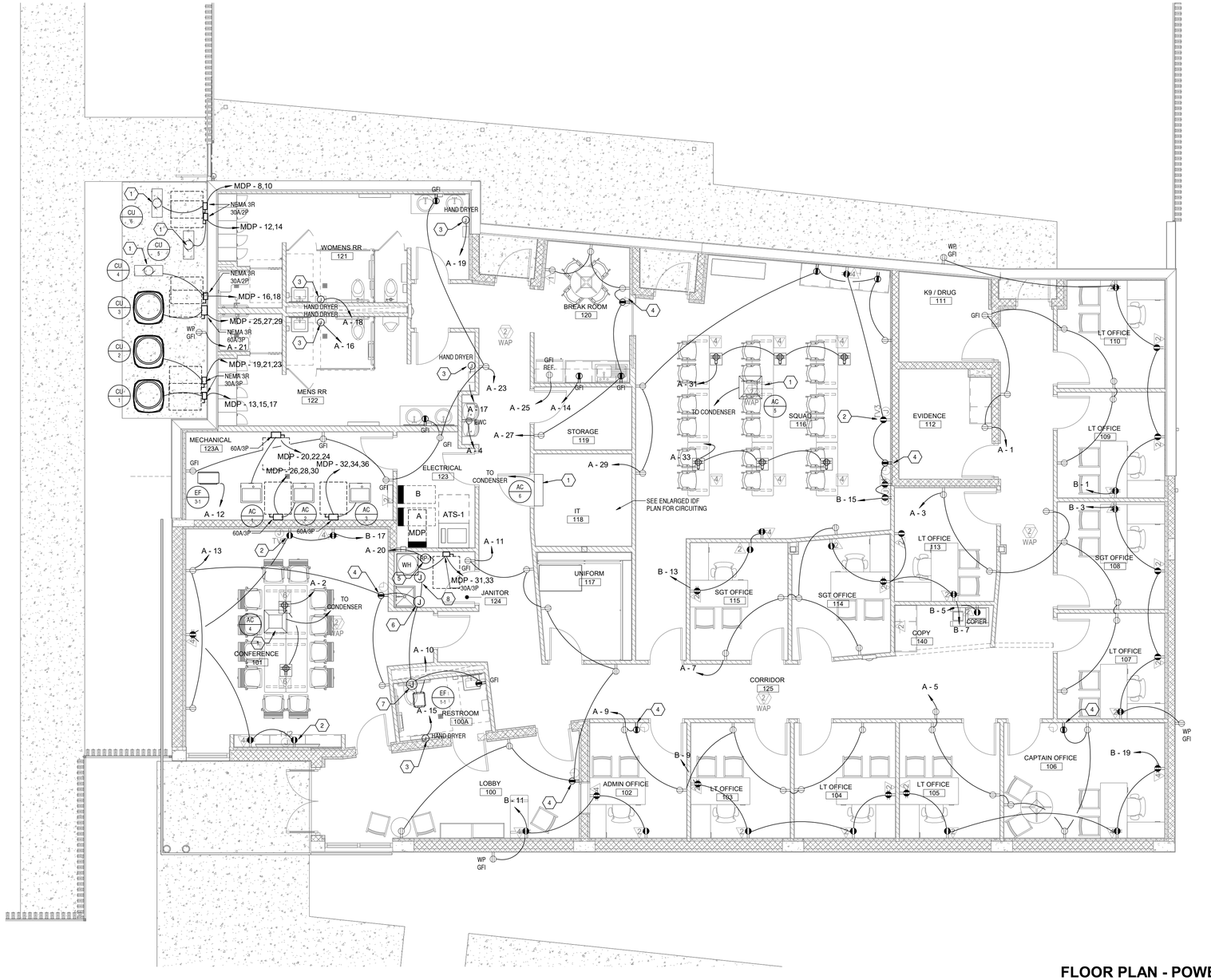
GENERAL NOTES

1. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER PROOF GFI RECEPTACLES. PROVIDE LOCKABLE COVERS.
2. USE NO. 10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET, OR AS NOTED ON THE PANEL SCHEDULES.
3. ALL WIRING FROM LOAD SIDE OF VARIABLE FREQUENCY DRIVES TO UNIT SHALL BE XLPE (XHHW-2) INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. COVER PLATES FOR ALL WIRING DEVICES SHALL BE PERMANENTLY ENGRAVED/ETCHED WITH PANEL NAME AND CIRCUIT NUMBER(S) IN BLACK STENCIL.
5. NONMETALLIC FLEXIBLE SEAL TIGHT CONDUIT SHALL BE USED TO CONNECT AIR HANDLER UNITS FROM MOTOR CONNECTION POINT TO THE FIRST JUNCTION. NOT TO EXCEED 6 FEET.
6. INSTALL DISCONNECT SWITCHES AND SPEED CONTROLLERS FURNISHED BY HVAC CONTRACTOR FOR EXHAUST FANS. COORDINATE WITH HVAC CONTRACTOR FOR REQUIREMENTS.

KEYED NOTES

1. MINI-SPLIT AC SYSTEM. PROVIDE 30/2 NEMA 3R DISCONNECT SWITCH FOR CONDENSER. PROVIDE POWER AND CONTROL WIRE TO EVAPORATOR PER MANUFACTURER'S REQUIREMENT. PROVIDE TOGGLE STYLE DISCONNECT SWITCH FOR EVAPORATOR.
2. RECEPTACLE FOR TV. SEE SYSTEMS PLANS FOR ROUGH-IN REQUIREMENTS.
3. HAND DRYER, WIRED TO GFI BREAKER. COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER.
4. RECEPTACLE TO BE 90" AFF FOR WALL CLOCK
5. WATER HEATER CIRCULATION PUMP. PROVIDE TOGGLE STYLE DISCONNECT SWITCH LOCATED NEXT TO PUMP.
6. INSTALL 120/24VAC TRANSFORMER FOR FLUSH VALVES IN JANITOR CLOSET.
7. PROVIDE 24 VAC POWER TO HARD WIRED FLUSH VALVE. COORDINATE INSTALLATION REQUIREMENTS WITH PLUMBING CONTRACTOR.
8. PROVIDE 24 VAC POWER TO HARD WIRE WATER HEATER LEAK DETECTION. COORDINATE INSTALLATION REQUIREMENTS WITH PLUMBING CONTRACTOR.



FLOOR PLAN - POWER | 1

3/16" = 1'-0"

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3391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240
t: 941.343.4070
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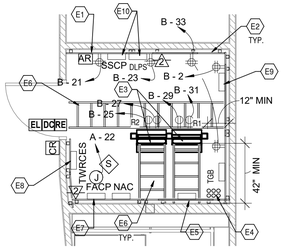
FLOOR PLAN - POWER

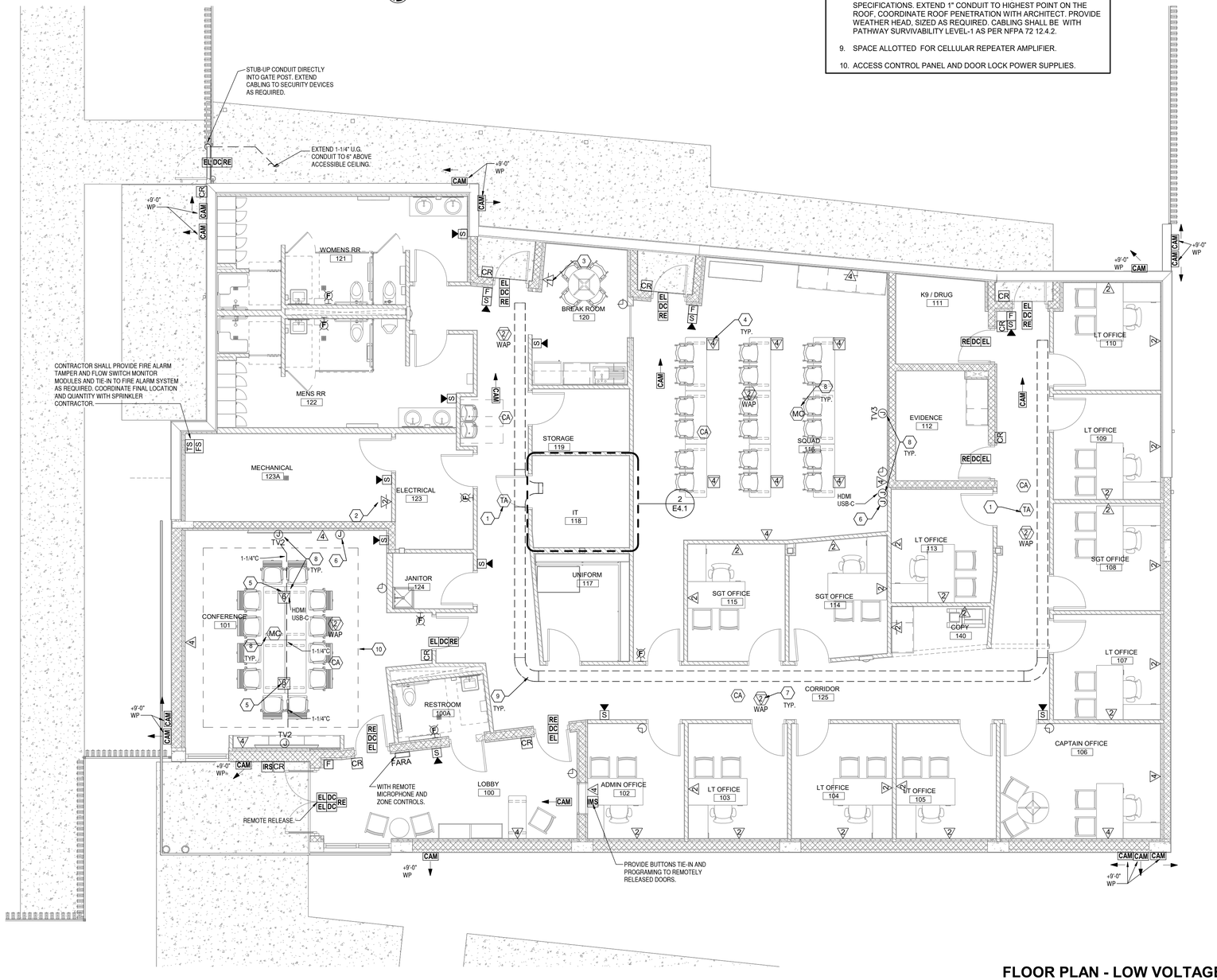


ENLARGED IDF RM | 2

1/4" = 1'-0"

E# ENLARGED IDF RM. KEYED NOTES

1. PROVIDE FIRE ALARM RELAY AND TIE-IN TO FIRE ALARM SYSTEM AS REQUIRED FOR ELECTRIC DOOR LOCK RELEASE. COORDINATE WITH ACCESS CONTROL CONTRACTOR.
2. PROVIDE AC GRADE 3/4" PLYWOOD BACKBOARD, VOID FREE, WITH 2 COATS OF FIRE RETARDANT LIGHT COLORED PAINT ALL SIDES OF BOARD (FRONT/BACK/ALL EDGES). PLYWOOD SHALL BE 8-FEET HIGH AND MOUNTED 8-INCHES A.F.F., LENGTH AS SHOWN ON PLANS. FIRE-RATED PLYWOOD IS NOT PERMITTED.
3. PROVIDE 2-POST RACK WITH 6" VERTICAL AND 2-RU HORIZONTAL WIRE MANAGERS. PROVIDE 18" LADDER TYPE TRAY FROM RACK TO WALL. REFER TO SPECIFICATIONS. PROVIDE #4 GROUNDING BONDING CONDUCTOR TO EACH RACK.
4. SITE COMMUNICATION CONDUITS STUB-UP LOCATION. REFER TO SITE PLAN FOR SIZE AND QUANTITIES.
5. SPACE RESERVED FOR SERVICE PROVIDERS EQUIPMENT.
6. 18" LADDER TYPE RACK. REFER TO SPECIFICATIONS.
7. VOICE TYPE FIRE ALARM CONTROL PANEL.
8. PROVIDE PUBLIC SAFETY EMERGENCY TWO-WAY RADIO ENHANCEMENT COMMUNICATION SYSTEM AS PER 11.10 FFPC 7TH EDITION. REFER TO GENERAL SHEET NOTES, DETAILS AND SPECIFICATIONS. EXTEND 1" CONDUIT TO HIGHEST POINT ON THE ROOF, COORDINATE ROOF PENETRATION WITH ARCHITECT. PROVIDE WEATHER HEAD, SIZED AS REQUIRED. CABLING SHALL BE WITH PATHWAY SURVIVABILITY LEVEL-1 AS PER NFPA 72 12.4.2.
9. SPACE ALLOTTED FOR CELLULAR REPEATER AMPLIFIER.
10. ACCESS CONTROL PANEL AND DOOR LOCK POWER SUPPLIES.



FLOOR PLAN - LOW VOLTAGE | 1

3/16" = 1'-0"

GENERAL NOTES

1. ALL LOW VOLTAGE (DATA, PAGING, SECURITY, FIRE ALARM & ETC.) CABLES AT EXPOSED CEILING AND ABOVE HARD CEILINGS SHALL BE IN CONDUIT FROM DEVICE LOCATION TO 6" ABOVE ACCESSIBLE CEILING OR TERMINATION LOCATION. CONDUITS SHALL BE SIZED AS REQUIRED. U.O.N..
2. PROVIDE FIRE RATED PIPE SLEEVES SIZED AS REQUIRED THROUGH FIRE RATED WALLS FOR DATA/COMM AND TV CABLING UNLESS SIZE SHOWN OTHERWISE.
3. ALL PENETRATIONS THROUGH FIRE-RATED/SMOKE WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE/SMOKE RESISTANCE RATING.
4. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 36 IN. FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING AS PER NFPA 72. 2016 17.7.4.1.
5. FIRE ALARM ACTIVATED AIR HANDLER & SMOKE DAMPER SHUT DOWN RELAYS SHALL BE PROGRAMMED SO AIR HANDLERS & DAMPER WILL NOT SHUT DOWN DURING FIRE ALARM TESTS AND/OR FIRE DRILLS.

ACCESS CONTROL GENERAL NOTES

1. ALL ELECTRICALLY HELD (ACCESS CONTROLLED) DOORS SHALL RELEASE UPON FIRE ALARM ACTIVATION AS PER NFPA 101 7.2.1.5, 7.2.1.6.2 & FBC 1010.1.9.9. PROVIDE FIRE ALARM INTERFACE RELAY. (RELAYS, CABLING, PROGRAMMING ETC. FOR EACH DOOR).
2. COORDINATE WITH OWNER ALL REQUIRED ACCESS CONTROL ROUGH-IN. IF MAGNETIC LOCK TYPE HARDWARE TO BE UTILIZED, PROVIDE ADDITIONAL SINGLE GANG BOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING ON SECURED SIDE AT EACH ACCESS CONTROLLED DOOR FOR PUSH TO EXIT BUTTON.

FIRE ALARM LIGHTING CONTROL TIE-IN NOTES

1. FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR EGRESS/ EMERGENCY LIGHTING CONTROLS. UPON FIRE ALARM ACTIVATION EGRESS/ EMERGENCY LIGHTING SHALL BE ACTIVATED AS PER NFPA 101 7.8.1.2.2. (5). COORDINATE LOCATION AND ALL REQUIREMENTS FOR FULLY FUNCTIONAL SYSTEM WITH LIGHTING CONTROLS CONTRACTOR.

KEYED NOTES

1. PROVIDE PUBLIC SAFETY TWO-WAY RADIO ENHANCEMENT COMMUNICATION SYSTEM REMOTE REPEATER ANTENNA. PROVIDE J-BOX AND 1" DEDICATED CONDUIT TO IDF ROOM. REFER TO DETAILS & ENLARGED PLANS. LOCATIONS SHOWN ARE FOR PRICING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE FIELD SIGNAL TESTING AND SUBMIT SYSTEM LAYOUT FOR APPROVAL. REMOTE REPEATER ANTENNA CABLING IN THIS BUILDING SHALL BE WITH PATHWAY SURVIVABILITY LEVEL-1 PER 2016 NFPA 72 12.4.2.
2. PROVIDE DATA OUTLET WITH IN 24" OF MECHANICAL DDC CONTROL PANEL. COORDINATE LOCATION WITH MECHANICAL CONTROLS CONTRACTOR.
3. MOUNT AT 48" A.F.F. WITH WALL MOUNTING SOLID LUGGED FACE PLATE FOR TELEPHONE. BOX SHALL HAVE 8" OF CLEAR WALL SPACE ON EACH SIDE.
4. PROVIDE COMBINATION DATA/POWER SLAB ON GRADE TYPE FLOOR BOX BY HUBBELL #CFB4G30CR WITH COVER. COORDINATE COVER COLOR AND TYPE WITH ARCHITECT. PROVIDE 1-1/2" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING FOR DATA. PROVIDE 1" CONDUIT TO ELECTRICAL PANEL. PROVIDE ALL DIVIDERS AND BRACKETS AS REQUIRED.
5. PROVIDE NEW COMBINATION POWER/DATA AND A/V SLAB ON GRADE TYPE FLOOR BOX BY HUBBELL CFB10G55CR, ADAPTER PLATES AND COVER. COORDINATE COVER TYPE AND COLOR WITH ARCHITECT. PROVIDE (1) 1-1/2" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING FOR DATA. PROVIDE (1) 1-1/4"C TO WALL BOX FOR A/V CABLING AND (1) 3/4"C TO ELECTRICAL PANEL FOR POWER.
6. 52" A.F.F. FOR AV SYSTEM CONTROLLER REFER TO DETAILS.
7. (2)- TWO CABLE COILS 20' LONG, NEATLY COILED ABOVE CEILING AND TERMINATED WITH FEMALE RJ45 BISCUIT FOR WIRELESS ACCESS POINT. REFER TO DETAIL AND SPECIFICATIONS.
8. REFER TO LEGEND, DETAILS AND SPECIFICATIONS FOR A/V ROUGH-IN, EQUIPMENT AND CABLING.
9. CABLE TRAY (MINIMUM SIZE 18"Wx4"H) RUN ABOVE ACCESSIBLE CEILING OR IN EXPOSED AREAS ABOVE ARCHITECTURAL GRID/ LIGHTING FIXTURES.. SIZED WITH 50% SPARE CAPACITY FOR TECHNOLOGY CABLING DISTRIBUTION ABOVE CEILING AS PER SPECIFICATIONS. ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE ACTUAL ROUTING AND COORDINATE WITH OTHER TRADES. PROVIDE #6 GROUND BONDING CONDUCTOR AND BONDING AS REQUIRED.
10. PROVIDE IN-FLOOR ASSISTIVE LISTENING LOOP AS MANUFACTURED BY COMPLETE HEARING SOLUTIONS, LLC.. PROVIDE SYSTEM LAYOUT, EQUIPMENT, DEVICES, WIRING, ETC. PER MANUFACTURER REQUIREMENTS FOR A COMPLETE, FUNCTIONAL SYSTEM.

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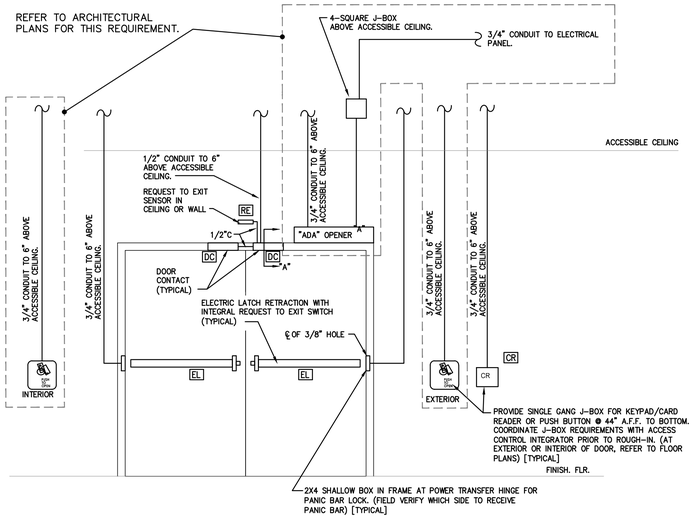
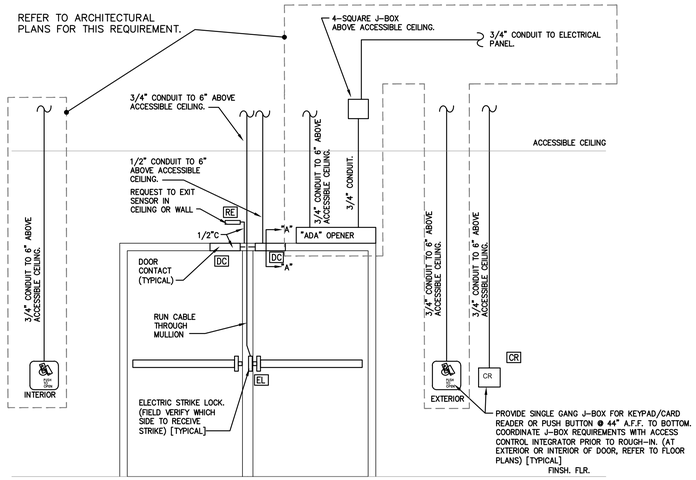
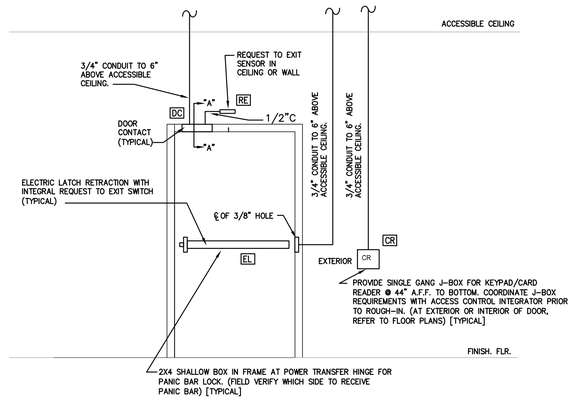
FLOOR PLAN - LOW VOLTAGE



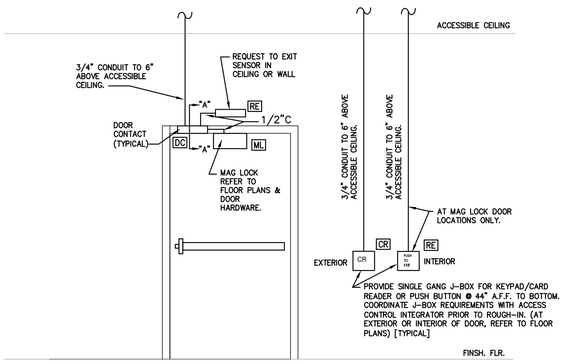
DOUBLE DOOR - ELECTRIC LATCH RETRACTION



DOUBLE DOOR - ELECTRIC STRIKE LOCK



SINGLE DOOR - ELECTRIC LATCH RETRACTION



SINGLE DOOR - ELECTRIC MAGNETIC LOCK
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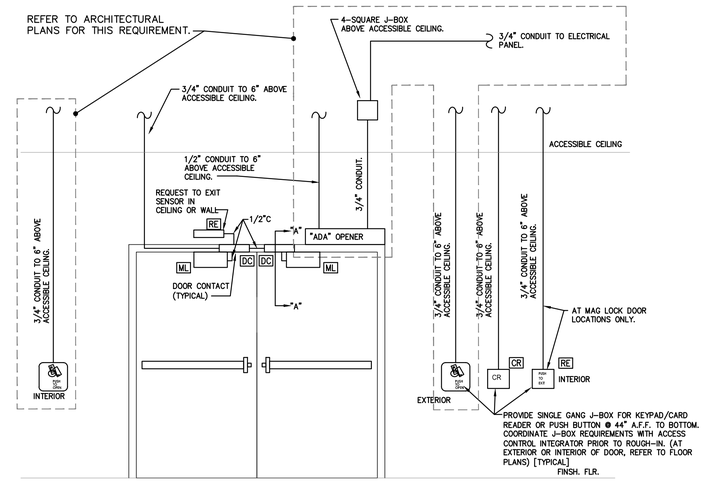
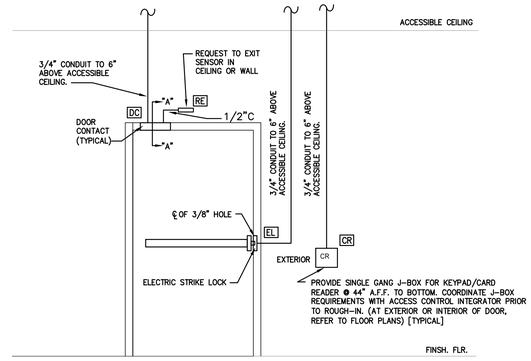
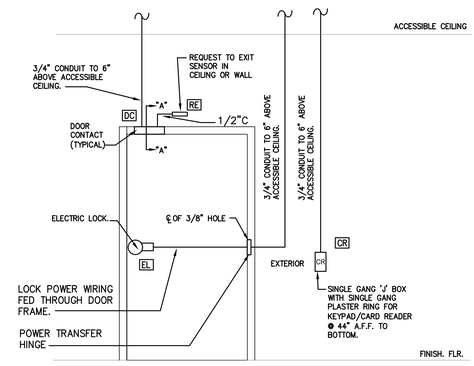


DOUBLE DOOR - ELECTRIC MAGNETIC LOCK



SINGLE DOOR - ELECTRIC STRIKE LOCK



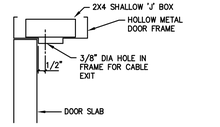
SINGLE DOOR - ELECTRIC MORTISE LOCK

SECURITY NOTES:

1. THIS CONTRACTOR SHALL COORDINATE WITH DOOR HARDWARE CONTRACTOR TO DETERMINE PROPER DOOR LOCK ROUGH-IN REQUIREMENT AT EACH DOOR. DETAILS SHOWN HEREIN DEPICT TYPICAL INSTALLATION.
2. PROVIDE A 20' COILED AND EXPOSED SERVICE LOOP OF CABLE AT THE DESTINATION POINTS FOR EACH REQUIRED DEVICE.
3. PROVIDE ONE HOME RUN PER DEVICE INDICATED ON PLANS BACK TO PANEL LOCATION IN COMM. ROOMS. SEE DIAGRAMS THIS SHEET FOR CABLE TYPES PER DEVICE.
4. LABEL EACH HOME RUN WITH DESTINATION ROOM NUMBER AND DEVICE TYPE. DURABLE LABEL TO BE APPLIED AT PANEL END OF CABLE.
5. ALL SECURITY SYSTEMS' CABLING SHALL BE STRANDED CONDUCTOR.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF DOOR CONTACT AND DRILL A 3/8" HOLE IN THE DOOR FRAME. PULL THE SECURITY CABLE THROUGH CONDUIT EMBEDDED IN DOOR/WALL AND FISH THROUGH DOOR FRAME. LEAVE ENOUGH WIRE PROJECTING FROM THE FRAME FOR TERMINATION BY OTHERS.
7. ALL SECURITY CABLING INSTALLED IN UNDERGROUND CONDUIT SHALL BE LISTED FOR OUTDOOR WET LOCATION USE.
8. ALL SECURITY DEVICES INSTALLED OUTDOORS SHALL BE LISTED FOR WET LOCATION OUTDOOR USE.

GENERAL NOTE:

1. PROVIDE TERMINAL CABINET WITH SURGE SUPPRESSOR FOR ALL CABLES SERVING EXTERIOR DEVICES AS MANUFACTURED BY DITEK DTK-2MHLP-xxBWB. COORDINATE REQUIRED VOLTAGE FOR EACH DEVICE TO BE PROTECTED WITH ACCESS CONTROL SYSTEM MANUFACTURER PRIOR TO ORDER.
2. REFER TO FLOOR PLANS FOR ALL DEVICE LOCATIONS AND QUANTITIES. REFER TO SPECIFICATIONS FOR ALL EQUIPMENT AND CABLING REQUIREMENTS.



(JAMB SIMILAR)

FRAME HEAD DETAIL
N.T.S. A

TYPICAL ACCESS CONTROL DOOR CONDUIT ROUGH-IN DETAILS
NOT TO SCALE

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SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2850 Scherer Drive, Suite 640, St. Petersburg, FL, 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EM Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

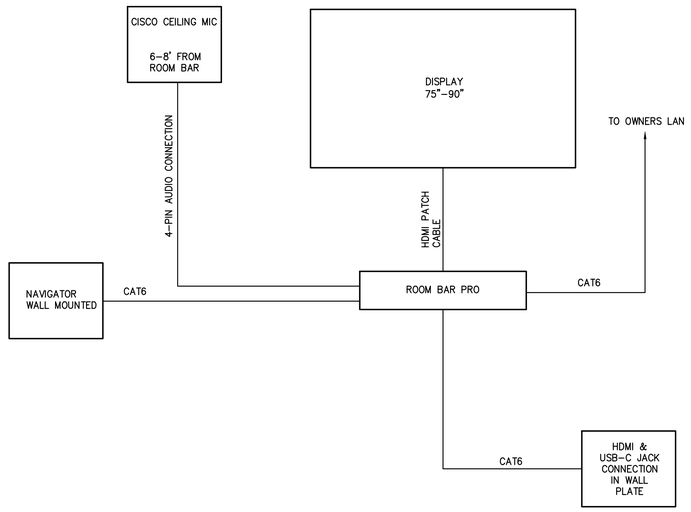
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	EM
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

E5.1
ELECTRICAL DETAILS



SQUAD ROOM - EQUIPMENT

MODEL	DESCRIPTION	QUANTITY	MANUFACTURER
86UT640S	86" TV Monitor (With Rs232 & 2-HDMI ports minimum).	1	LG
TMP-X	42" TO 90" WALL MOUNT OR EQUAL.	1	GABOR
CS-BARPRO-K9	Cisco Room Bar Pro with Room Navigator Table Kit (Wall Mount Bracket)	1	CISCO
CTS-MIC-CLNG-G2	Cisco Ceiling Microphone	1	CISCO
	HDMI, USB-C, MICROPHONE & Room Navigator cables with jacks as required.	1	CISCO

ADDITIONAL EQUIPMENT TO BE PROVIDED BY THIS CONTRACTOR MAY NOT BE SHOWN ON THIS BOM. REFER TO DIAGRAM, PLANS AND SPECIFICATIONS. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER SUPPLIES, OUTLET JACKS, CORDS, PATCH CABLES, A/V J-BOXES, FACE PLATES, SIGNAL EXTENDERS, MOUNTING HARDWARE PROGRAMMING AND COMMISSIONING OF THE SYSTEM AS REQUIRED FOR FULLY FUNCTIONAL INSTALLATION. ALL PARTIES USING THIS BOM SHALL REVIEW AND VERIFY ALL QUANTITIES, DATA, ETC.

PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION

SQUAD ROOM

- ONE (1) WALL–MOUNTED LCD DISPLAY FOR CONTENT PRESENTATION IN THE ROOM.
- TWO (2) WALL–MOUNTED CONNECTION POINTS, FOR HDMI & USB–C.
- ONE (1) WALL–MOUNTED CISCO ROOM BAR PRO WITH INTEGRATED CONFERENCE CAMERA AND MICROPHONE WILL BE USED WITH THE MINI PC AND LAPTOP CONNECTIONS FOR WEB CONFERENCING. ONE (1) CEILING–MOUNTED MICROPHONE ARRAY TO CAPTURE AUDIENCE VOICES FOR USE WITH WEB CONFERENCE APPLICATIONS.
- ONE (1) WALL–MOUNTED TOUCH SCREEN CONTROL PANEL TO PROVIDE A CUSTOM USER INTERFACE TO MAKE OPERATING THE AV SYSTEM EASY AND INTUITIVE. THE CONTROLS TO BE AT A MINIMUM (BUT NOT LIMITED TO):

1. SYSTEM ON/OFF (DISPLAY, AUDIO, ETC.)
2. SOURCE SELECTION TO MAIN DISPLAY (WALL–PLATES, ETC.)
3. SELECTION OF WHICH DEVICE IN THE SYSTEM IS USING THE WEB CONFERENCE PERIPHERALS (I.E. CAMERA,MICROPHONES, SPEAKERS) CHOICES TO BE:
   a. MINI PC
   b. WIRELESS PRESENTATION
   c. WALL PLATE USB
   d. FLOOR BOX USB
4. VOLUME CONTROL.
5. OTHER CONTROLS AS REQUIRED TO MAKE A FULLY FUNCTIONAL SYSTEM.

HDMI CABLE NOTES:
1. PROVIDE ACTIVE HDMI & USB–C CABLES FOR ALL CABLE RUNS OVER 13 FEET IN LENGTH AS MANUFACTURED BY CISCO, KRAMER AV OR EQUAL. CABLE REQUIREMENTS STATED HEREIN ARE FOR TYPICAL INSTALLATIONS. VERIFY EACH ROOM CABLE LENGTH REQUIREMENT.

A/V INTEGRATOR NOTE:
1. CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED CISCO SYSTEM INTEGRATOR TO PERFORM THE INSTALLATION, PROGRAMMING, AND STARTUP OF THE A/V SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS.
2. COORDINATE WITH OWNER ALL DESIRED FUNCTIONS TO BE PROGRAMMED IN TO THE SYSTEM CONTROLLER. CONTRACTOR SHALL INCLUDE IN THE BID 4 HOURS MINIMUM OF COORDINATION TIME WITH OWNER. SUBMIT ALL GRAPHICS/ FUNCTIONS LAYOUT TO OWNER FOR APPROVAL PRIOR TO STARTING OF PROGRAMMING.

NOTES:
1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SHOWN, POWER ADAPTERS, CABLE JACKS, CABLES, BRACKETS, WALL PLATES AND MOUNTING HARDWARE FOR COMPLETE FUNCTIONAL SYSTEM, U.O.N.,

SQUAD ROOM A/V DIAGRAM. (REFER TO SHEET E5.9 FOR ROUGH-IN).

NOT TO SCALE

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
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5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

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MANATEE COUNTY SHERIFF'S OFFICE
AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	EM
Checked By	JSW
Date	02.02.24

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E5.10
ELECTRICAL DETAILS

Originals printed at 24" x 36"
scale as required

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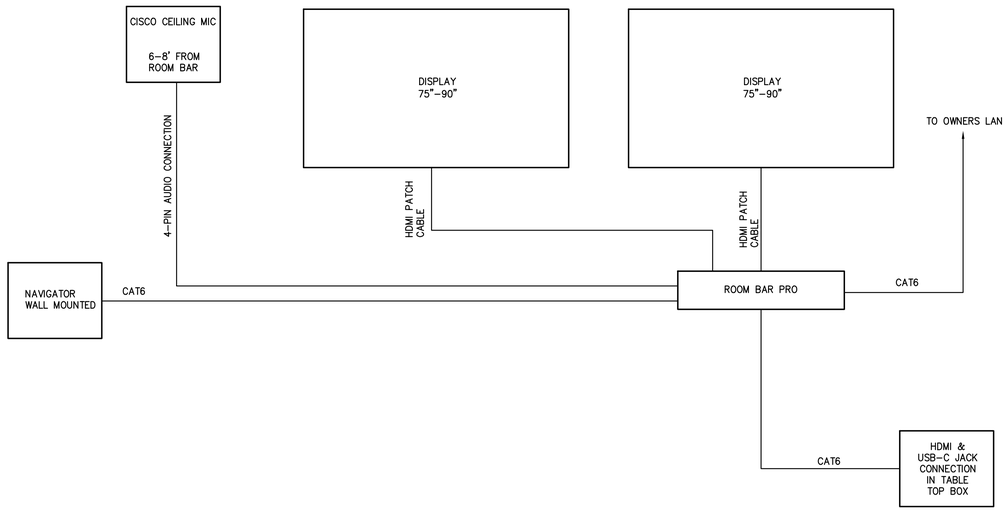

CONFERENCE ROOM - EQUIPMENT

MODEL	DESCRIPTION	QUANTITY	MANUFACTURER
86UT640S	86" TV Monitor (With Rs232 & 2-HDMI ports minimum).	2	LG
TMP-X	42" TO 90" WALL MOUNT OR EQUAL.	2	GABOR
CS-BARPRO-K9	Cisco Room Bar Pro with Room Navigator Table Kit (Wall Mount Bracket)	1	CISCO
CTS-MIC-CLNG-G2	Cisco Ceiling Microphone	1	CISCO
	HDMI, USB-C, MICROPHONE & Room Navigator cables with jacks as required.	1	CISCO
FSR WM-CP-CNTR	Under Table Wire Management System	1	FSR INC
CT6 HARMONY OR EQUAL.	TABLE TOP BOX (PROVIDE ALL CONNECTORS AS REQUIRED)	1	FSR INC

ADDITIONAL EQUIPMENT TO BE PROVIDED BY THIS CONTRACTOR MAY NOT BE SHOWN ON THIS BOM. REFER TO DIAGRAM, PLANS AND SPECIFICATIONS. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER SUPPLIES, OUTLET JACKS, CORDS, PATCH CABLES, A/V J-BOXES, FACE PLATES, SIGNAL EXTENDERS, MOUNTING HARDWARE PROGRAMMING AND COMMISSIONING OF THE SYSTEM AS REQUIRED FOR FULLY FUNCTIONAL INSTALLATION. ALL PARTIES USING THIS BOM SHALL REVIEW AND VERIFY ALL QUANTITIES, DATA, ETC.

PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION

CONFERENCE ROOM

- TWO (2) WALL–MOUNTED LCD DISPLAY FOR CONTENT PRESENTATION IN THE ROOM.
- TWO (2) WALL–MOUNTED CONNECTION POINTS, FOR HDMI & USB–C.
- ONE (1) FLOOR–MOUNTED CONNECTION POINT, FOR TABLE–TOP HDMI & USB–C.
- ONE (1) WALL–MOUNTED CISCO ROOM BAR PRO WITH INTEGRATED CONFERENCE CAMERA AND MICROPHONE WILL BE USED WITH THE MINI PC AND LAPTOP CONNECTIONS FOR WEB CONFERENCING. ONE (1) CEILING–MOUNTED MICROPHONE ARRAY TO CAPTURE AUDIENCE VOICES FOR USE WITH WEB CONFERENCE APPLICATIONS.
- ONE (1) WALL–MOUNTED TOUCH SCREEN CONTROL PANEL TO PROVIDE A CUSTOM USER INTERFACE TO MAKE OPERATING THE AV SYSTEM EASY AND INTUITIVE. THE CONTROLS TO BE AT A MINIMUM (BUT NOT LIMITED TO):

1. SYSTEM ON/OFF (DISPLAY, AUDIO, ETC.)
2. SOURCE SELECTION TO MAIN DISPLAY (WALL–PLATES, ETC.)
3. SELECTION OF WHICH DEVICE IN THE SYSTEM IS USING THE WEB CONFERENCE PERIPHERALS (I.E. CAMERA,MICROPHONES, SPEAKERS) CHOICES TO BE:
   a. MINI PC
   b. WIRELESS PRESENTATION
   c. WALL PLATE USB
   d. FLOOR BOX USB
4. VOLUME CONTROL.
5. OTHER CONTROLS AS REQUIRED TO MAKE A FULLY FUNCTIONAL SYSTEM.
6. INTEGRATION OF IN–FLOOR ASSISTIVE LISTENING SYSTEM TO ROOM AUDIO.

HDMI CABLE NOTES:
1. PROVIDE ACTIVE HDMI & USB–C CABLES FOR ALL CABLE RUNS OVER 13 FEET IN LENGTH AS MANUFACTURED BY CISCO, KRAMER AV OR EQUAL. CABLE REQUIREMENTS STATED HEREIN ARE FOR TYPICAL INSTALLATIONS. VERIFY EACH ROOM CABLE LENGTH REQUIREMENT.

A/V INTEGRATOR NOTE:
1. CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED CISCO SYSTEM INTEGRATOR TO PERFORM THE INSTALLATION, PROGRAMMING, AND STARTUP OF THE A/V SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS.
2. COORDINATE WITH OWNER ALL DESIRED FUNCTIONS TO BE PROGRAMMED IN TO THE SYSTEM CONTROLLER. CONTRACTOR SHALL INCLUDE IN THE BID 4 HOURS MINIMUM OF COORDINATION TIME WITH OWNER. SUBMIT ALL GRAPHICS/ FUNCTIONS LAYOUT TO OWNER FOR APPROVAL PRIOR TO STARTING OF PROGRAMMING.

NOTES:
1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SHOWN, POWER ADAPTERS, CABLE JACKS, CABLES, BRACKETS, WALL PLATES AND MOUNTING HARDWARE FOR COMPLETE FUNCTIONAL SYSTEM. U.O.N..

CONFERENCE ROOM A/V DIAGRAM. (REFER TO SHEET E5.8 FOR ROUGH-IN).

NOT TO SCALE

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MANATEE COUNTY SHERIFF'S OFFICE
AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

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Revisions:

90% PERMIT SET

E5.11
ELECTRICAL DETAILS

Originals printed at 24" x 36"
scale as required

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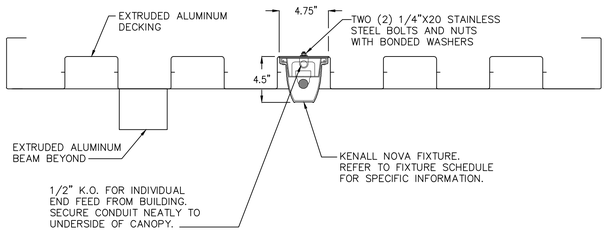
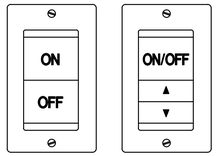


NOTES:

1. ALL FASTENERS AND HANGERS FOR FIXTURES AND CONDUIT SHALL BE STAINLESS STEEL.
2. ALL CONDUIT INSTALLED ON COVERED WALKWAYS SHALL BE ALUMINUM RIGID. CONDUIT SHALL BE SUPPORTED WITH STAINLESS STEEL MINERALAC.
3. ALL REQUIRED PENETRATIONS OF WALKWAY ROOFS FOR SUPPORT OF LIGHT FIXTURES AND RACEWAYS SHALL BE IN DRY-PAN SECTIONS AND SEALED WITH A VULCAN SEALANT. REFER TO THE SPECIFICATIONS FOR APPROVED URETHANE SEALANTS.

CANOPY FIXTURE DETAIL

NO SCALE



NOTE:

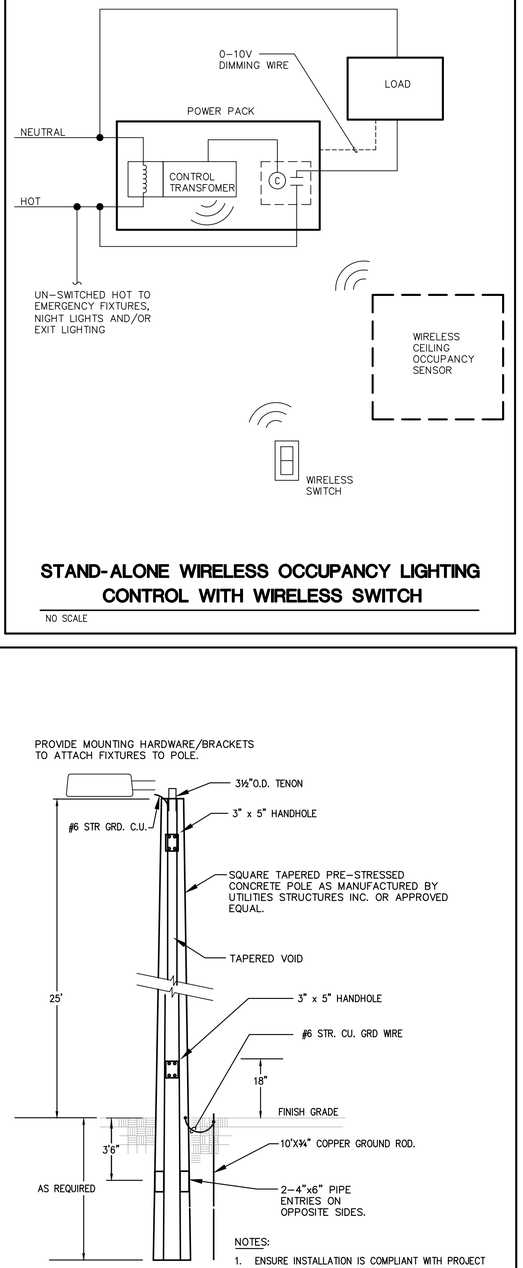
1. ALL BUTTONS SHALL BE ENGRAVED DESCRIBING EACH BUTTONS FUNCTION.

DIGITAL WIRELESS SWITCH

NO SCALE

DESCRIPTION OF OPERATION

SYSTEM IS OPERATED BY INDIVIDUAL SPACE BY SPACE DUAL TECHNOLOGY OCCUPANCY SENSORS. UPON DETECTING MOTION, LIGHTS WILL TURN ON. WHEN MOTION CEASES TO BE DETECTED, LIGHTS WILL REMAIN ON FOR AN ADJUSTABLE PERIOD OF TIME (15 MIN) BEFORE TURNING OFF. A LOCAL SWITCH WILL ALLOW MANUAL ON OR OFF OPERATION.



STAND-ALONE WIRELESS OCCUPANCY LIGHTING CONTROL WITH WIRELESS SWITCH

NO SCALE

NOTES:

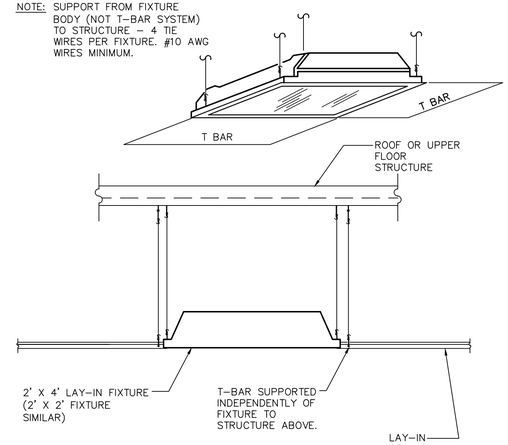
1. ENSURE INSTALLATION IS COMPLIANT WITH PROJECT LOCATION WIND SPEED RATING PER FLORIDA BUILDING CODE.
2. SUBMIT SHOP DRAWINGS S&S BY FLORIDA REGISTERED STRUCTURAL ENGINEER CONFIRMING THE POLE MEETS THE PROJECT'S WIND SPEED CRITERIA.

POLE SECTION AT FLUSH WITH GRADE

NO SCALE

FILE NAME : CONCRETE POLE

NOTE: SUPPORT FROM FIXTURE BODY (NOT T-BAR SYSTEM) TO STRUCTURE - 4 TIE WIRES PER FIXTURE. #10 AWG WIRES MINIMUM.

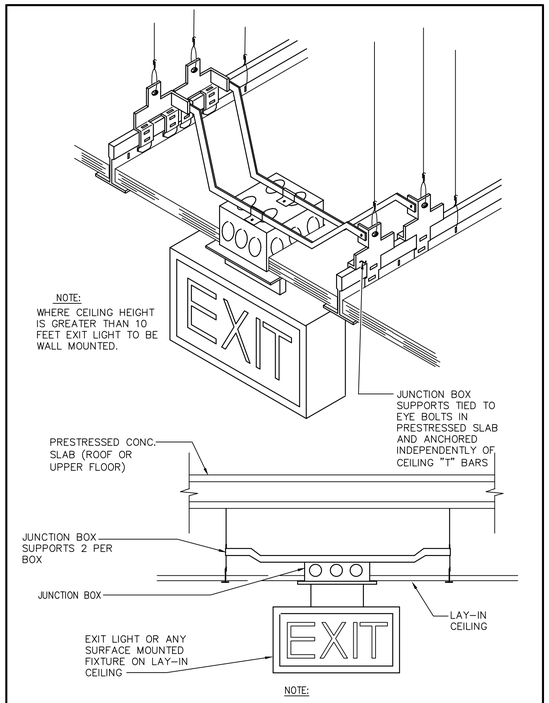


NOTE: HANG FIXTURE FROM STRUCTURE WITH 4 HANGERS PER FIXTURE.

2' X 2' RECESSED LAY-IN FIXTURE DETAIL

NO SCALE

filename: ED18B



SURFACE MOUNTED FIXTURE ON LAY-IN CEILING

NO SCALE

filename: EXIT

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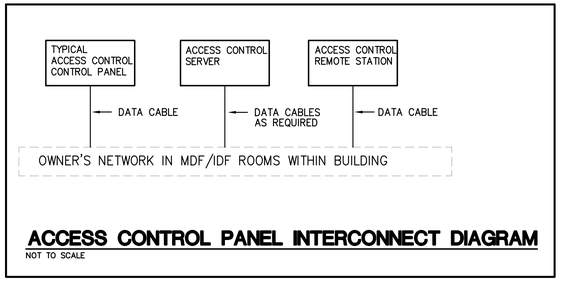


ACCESS CONTROL PANEL INTERCONNECT DIAGRAM

NOT TO SCALE

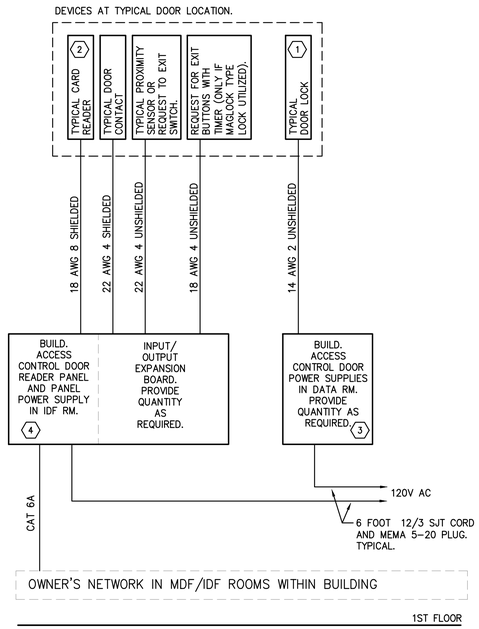
NOTES:

1. ALL EXPOSED CEILING ACCESS CONTROL CABLING SHALL BE IN EMT CONDUIT. HORIZONTAL RUNS ABOVE ACCESSIBLE CEILING ARE NOT REQUIRED TO BE IN CONDUIT.

1. PROVIDE TERMINAL CABINET WITH SURGE SUPPRESSORS FOR ALL ACCESS CONTROL CABLING SERVING EXTERIOR DEVICES.
2. ALL EXTERIOR AND UNDERGROUND CABLING SHALL BE WET LOCATION RATED.
3. REFER TO PLANS FOR ALL DEVICE AND CONTROL EQUIPMENT LOCATIONS.
4. REFER TO SPECIFICATIONS FOR ALL EQUIPMENT REQUIREMENTS.
4. LABEL EACH HOME RUN WITH DESTINATION ROOM NUMBER AND DEVICE TYPE. DURABLE LABEL TO BE APPLIED AT PANEL END OF CABLE.
5. ALL ACCESS CONTROL SYSTEMS' CABLING SHALL BE STRANDED CONDUCTOR.
6. PROVIDE SURGE SUPPRESSOR FOR EACH COMMUNICATOR CONNECTION. REFER TO SPECIFICATIONS.
7. PROVIDE BACKUP BATTERIES FOR EACH CONTROLLER AND DOOR LOCK POWER SUPPLY. REFER TO SPECIFICATIONS.
3. ALL SECURITY DEVICES INSTALLED OUTDOORS SHALL BE LISTED FOR WET LOCATION OUTDOOR USE.

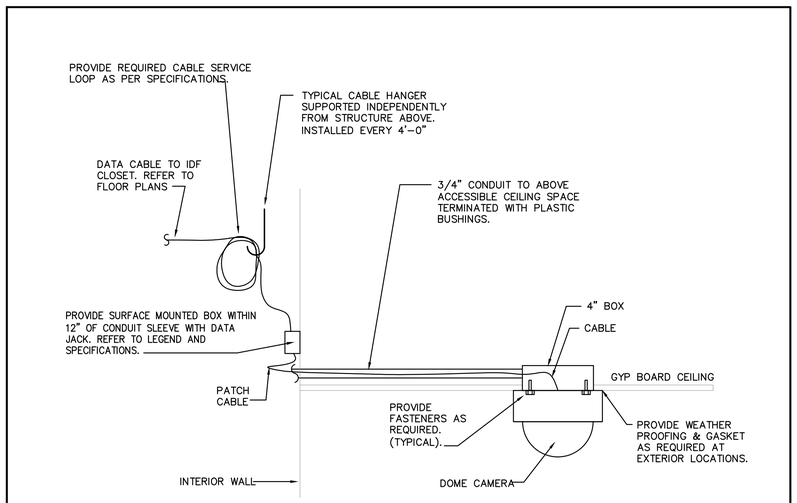
KEYED NOTES THIS DETAIL:

1. REFER TO FLOOR PLAN FOR TYPICAL LOCK LOCATION AND QUANTITIES. PROVIDE EPT-10 POWER TRANSFER AT EACH DOOR LOCK.
2. REFER TO FLOOR PLAN FOR TYPICAL CARD READER LOCATION AND QUANTITIES.
3. PROVIDE FIRE ALARM RELAY AND TIE-IN TO FIRE ALARM SYSTEM FOR REMOTE DOOR RELEASE UPON FIRE ALARM ACTIVATION.
4. PROVIDE QUANTITIES AS REQUIRED FOR EACH BUILDING TO SUPPORT NUMBER OF ACCESS CONTROLLED DOORS SHOWN ON PLANS.



ACCESS CONTROL SYSTEM RISER DIAGRAM.

NO SCALE

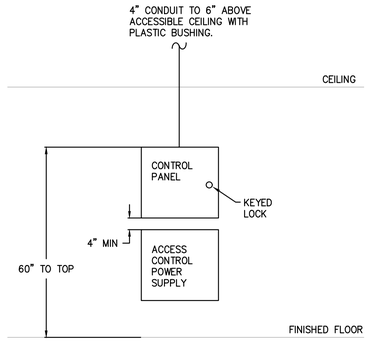


NOTE:
1. ADJUST CAMERA FIELD OF VIEW AS PER OWNER'S REQUIREMENT.
2. ALL EXTERIOR WALL PENETRATIONS SHALL BE WEATHERPROOF SEALED AS REQUIRED.
3. PATCH CORDS ARE OWNER PROVIDED CONTRACTOR INSTALLED.

ROUGH-IN REQUIREMENTS NOTE:
THIS CONTRACTOR SHALL COORDINATE LOCATION AND J-BOX REQUIREMENTS WITH CCTV SECURITY INTEGRATOR/ CONTRACTOR PRIOR TO ROUGH-IN. DETAILS SHOWN HEREIN DEPICT TYPICAL INSTALLATION.

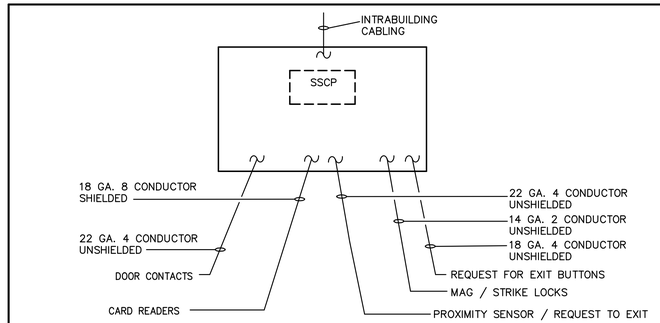
TYPICAL DOME CAMERA GYP BOARD CEILING INSTALLATION DETAIL

NO SCALE



TYPICAL SECURITY CARD ACCESS PANEL MOUNTING

NOT TO SCALE



SECURITY NOTES:

1. ALL SECURITY SYSTEMS' CABLING SHALL BE STRANDED CONDUCTOR.
2. ALL SECURITY CABLING INSTALLED IN UNDERGROUND CONDUIT SHALL BE LISTED FOR OUTDOOR WET LOCATION USE.
3. ALL SECURITY DEVICES INSTALLED OUTDOORS SHALL BE LISTED FOR WET LOCATION OUTDOOR USE.

TYPICAL ACCESS CONTROL SSCP ACCESS CONTROL TO DEVICE INTERCONNECT DIAGRAM

N.T.S.

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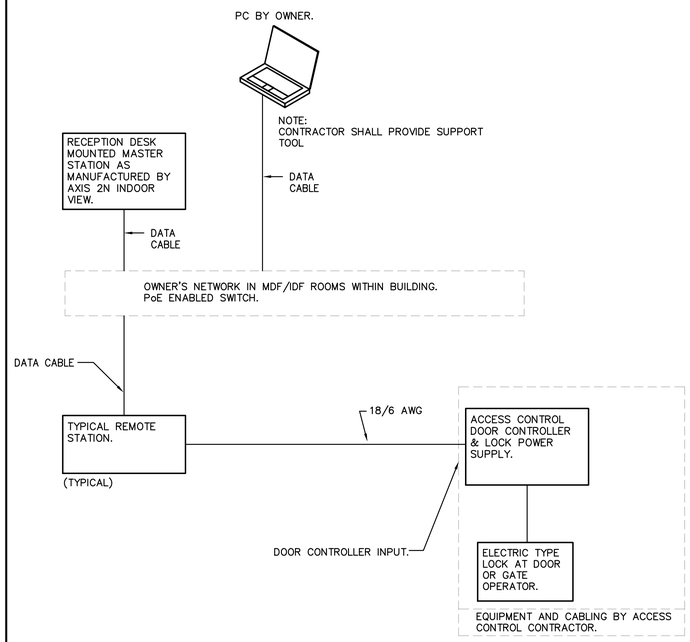
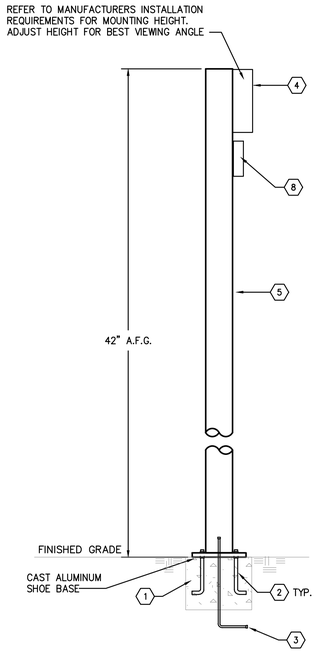
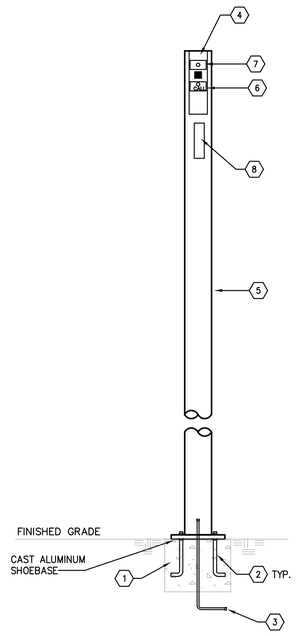
E5.2
ELECTRICAL DETAILS



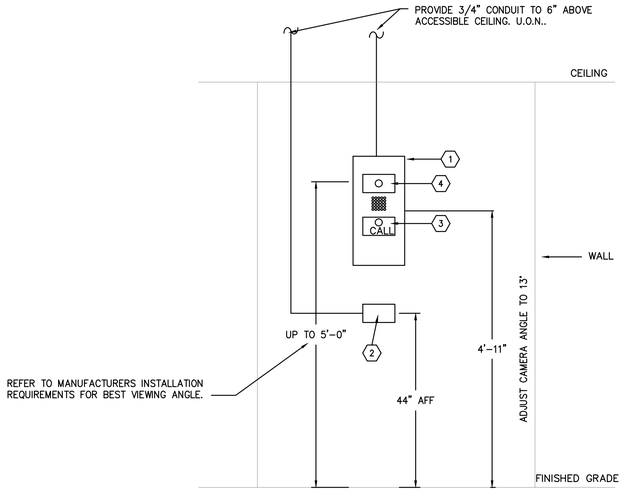
SYSTEM LAYOUT DIAGRAM



GATE PEDESTAL SIDE VIEW



GATE PEDESTAL FRONT VIEW



WALL MOUNTING DETAIL

KEYED NOTES THIS DETAIL:

1. PROVIDE IP AXIS PART# A8105-E VIDEO INTERCOM STATION.
2. CARD READER, PROVIDE SINGLE GANG J-BOX. CONNECT TO ACCESS CONTROL PANEL. REFER TO FLOOR PLAN FOR LOCATION.
3. PUSH TO TALK CALL BUTTON.
4. COLOR CAMERA.

NOTES:

1. COORDINATE ALL DEVICE FINISH WITH ARCHITECT AND OWNER.
2. PROVIDE ALL EQUIPMENT, RELAYS, MOUNTING BRACKETS AND CABLING AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. PROVIDE PROGRAMMING AS REQUIRED.
3. ALL EXTERIOR MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
4. ALL EXPOSED CABLING SHALL BE IN FLEX RACEWAY WITH WEATHER TIGHT TYPE FITTINGS.
5. COORDINATE ALL CONNECTIONS WITH ACCESS CONTROL INTEGRATOR/CONTRACTOR.

KEYED NOTES THIS DETAIL:

1. CONCRETE OR PAVEMENT. COORDINATE WITH ARCHITECTURAL PLANS.
2. PROVIDE ANCHORS AS REQUIRED IN CONCRETE OR PAVEMENT.
3. PVC CONDUIT. REFER TO SYSTEMS' PLANS FOR SIZE AND ROUTING.
4. PROVIDE IP AXIS PART# A8105-E VIDEO INTERCOM STATION.
5. PROVIDE 44" TALL HEAVY DUTY GOOSENECK TYPE PEDESTAL PART #HD-BLACK-TOWER OR EQUAL. RUN ALL CABLING CONCEALED WITHIN PEDESTAL.
6. PUSH TO TALK CALL BUTTON.
7. COLOR CAMERA.
8. DRILL HOLE FOR CABLING AND MOUNT MOUNT CARD READER ON SIDE OF ENCLOSURE.

VIDEO INTERCOM STATION MOUNTING DETAILS AND SYSTEM LAYOUT DIAGRAM

NO SCALE

SMART BEAUTIFUL SPACES
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Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
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Revisions:

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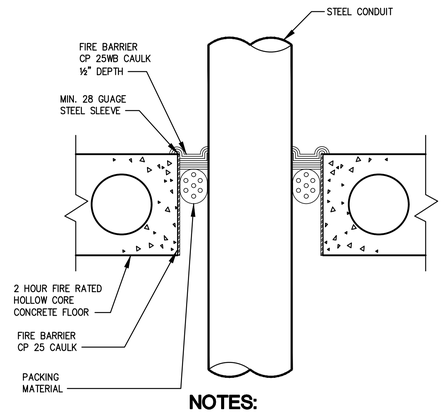
E5.3
ELECTRICAL DETAILS

N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\ELECTRICAL\23-0340_E5.1_ELECTRICAL DETAILS.DWG
9/5/2023 6:39:50 AM 2/9/2024 9:46:20 AM



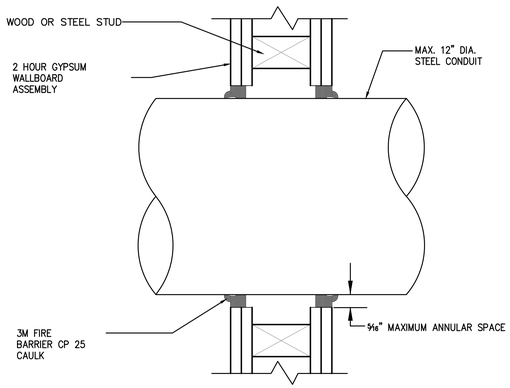
NOTES:

1. MINIMUM AREA OF SPACE REQUIREMENT IS ZERO, POINT CONTACT. MAXIMUM ANNULAR SPACE ALLOWABLE IS 2 IN.
2. FOR ANNULAR SPACE UP TO 1¼", ISTALL A ½" DEPTH OF CP 25WB CAULK. FOR ANNULAR SPACE GREATER THAN 1¼" UP TO 2 IN., INSTALL A 1 IN. DEPTH OF CP 25WB CAULK.
3. RECESS PACKING MATERIAL (BACKEROD, MINERAL WOOL, ECT.) ½" OR 1 IN. (DEPENDING ON ANNULAR SPACE) FROM THE TOP SURFACE OF THE FLOOR.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM ½" OF 1 IN. DEPTH OF CP 25WB CAULK. ALSO APPLY A MINIMUM ¼" DIAMETER BEAD OF CP 25WB CAULK WHERE THE STEEL SLEEVE AND CONCRETE INTERFACE.
5. THE FIRE RATING OF THE CP 25 CAULK IS BASED ON THE WET INSTALLED DEPTH. SHRINKAGE MAY BE EXPECTED AFTER INSTALLATION.

U.L. SYSTEM #319

PENETRATION FIRESTOP FOR 6" MAX. DIA. METAL CONDUIT THROUGH A HOLLOW CORE CONCRETE FLOOR

NO SCALE



NOTES:

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. ANNULAR SPACE REQUIREMENTS:

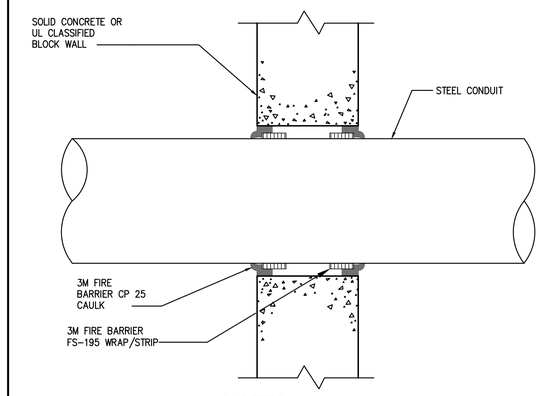
MAXIMUM CONDUIT DIAMETER	ANNULAR SPACE
1 INCH	0 – 3/16 IN.
4 INCH	0 – ¼ IN.
12 INCH	3/16 – 5/16 IN.

3. 3M FIRE BARRIER CP 25N/S CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE WITH A MINIMUM ¼" DIAMETER BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT AT ITS EGRESS FROM THE WALL.

U.L. SYSTEM #1479

PENETRATION FIRESTOP FOR 12" MAX. DIA. METAL CONDUIT THROUGH A GYPSUM WALLBOARD ASSEMBLY

NO SCALE



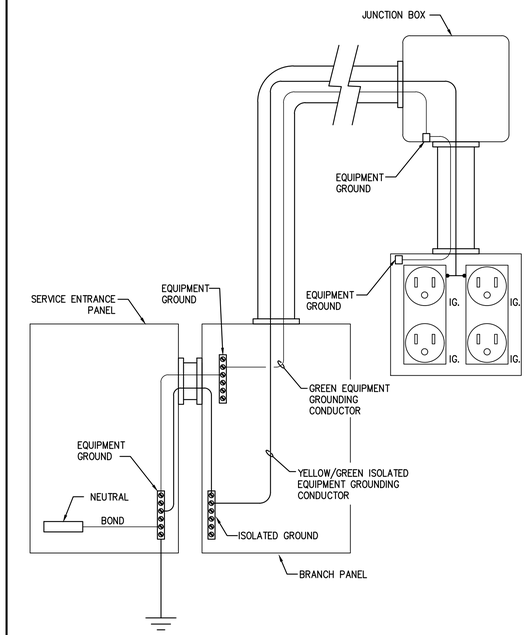
NOTES:

1. MINIMUM ANNULAR SPACE IS ¼". MAXIMUM ANNULAR SPACE ALLOWABLE IS ¾".
2. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
3. TIGHTLY WRAP A LAYER OF 3M FIRE BARRIER FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT (FOIL SIDE OUT) UNTIL THE O.D. OF THE FS-195 WRAP/STRIP OS EQUAL TO OR 3/16" LESS THE I.D. OF CIRCULAR THROUGH OPENING. SECURE FS-195 WRAP/STRIP WITH STEEL TIE WIRE OR TAPE.
4. SLIDE FS-195 WRAP/STRIP INTO THE OPENING, RECESSING ¼" FROM THE WALL SURFACE.
5. APPLY ¼" DEPTH OF 3M FIRE BARRIER CP 25 CAULK TO THE EXPOSED EDGE(S) OF THE FS-195 WRAP/STRIP AND THE FS-195 WRAP/STRIP CONCRETE INTERFACE.

U.L. SYSTEM #95

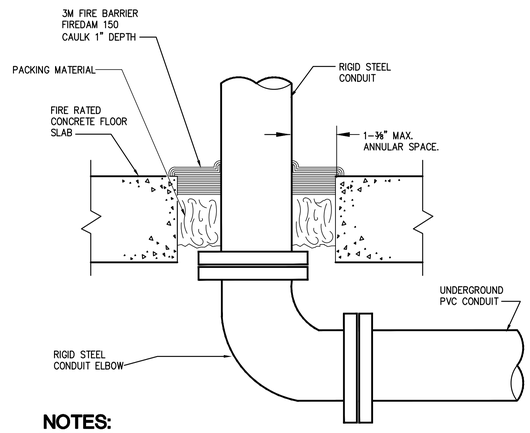
PENETRATION FIRESTOP FOR 12" MAX. DIA. CONDUIT THROUGH A CONCRETE WALL

NO SCALE



ISOLATED GROUND DETAIL

NO SCALE



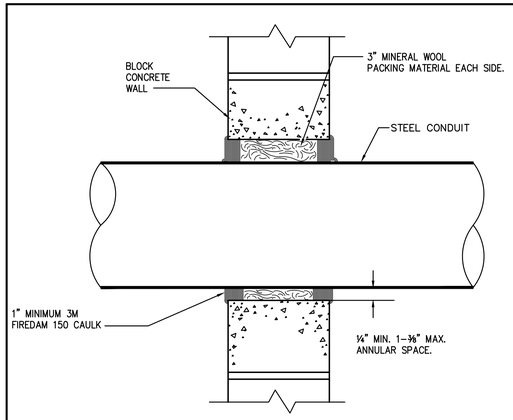
NOTES:

1. MINIMUM ANNULAR SPACE REQUIREMENTS IS ¼". MAXIMUM ANNULAR SPACE ALLOWABLE IS 1½".
2. RECESS A NOMINAL 3 IN. THICKNESS OF 4 PCF. MINERAL WOOL SAFING, 1 IN. FROM THE SURFACE OF THE FLOOR.
3. FILL THE ANNULAR SPACE AROUND THE PIPE WITH MINIMUM 1 IN. DEPTH OF 3M FIREDAM 150 CAULK.
4. APPLY AN ADDITIONAL BEAD OF CAULK AROUND PERIMETER OF THROUGH-OPENING LAPPING ¼" TO ½" INTO THE FLOOR.
5. RATINGS: F-3 HR., T-0 HR. – WATERPROOF/WATERTIGHT
6. SYSTEM BASED ON 3M PRODUCTS OR APPROVED EQUAL.

U.L. SYSTEM #161

PENETRATION DETAIL FOR 6" MAX. DIA. STEEL CONDUIT

NO SCALE



NOTES:

1. MINIMUM ANNULAR SPACE REQUIREMENT IS ¼". MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 IN.
2. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
3. RECESS A NOMINAL 3 IN. THICKNESS OF 4 PCF MINERAL WOOL SAFING ½" FOR THE SURFACE OF THE FLOOR.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH MINIMUM ½" DEPTH OF 3M FIREDAM 150.

U.L. SYSTEM #161

PENETRATION DETAIL FOR 6" MAX. DIA. CONDUIT

NO SCALE

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER CAMPUS

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
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E5.4
ELECTRICAL DETAILS

Originals printed at 24" x 36"
scale as required

N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\ELECTRICAL\23-0340_E5-1_ELECTRICAL DETAILS.DWG
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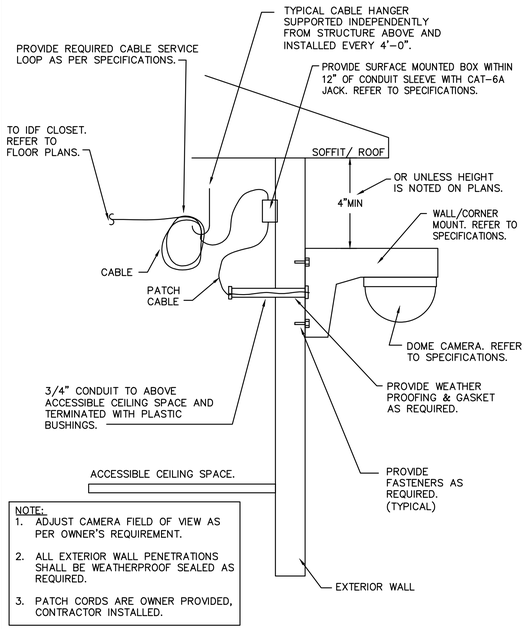
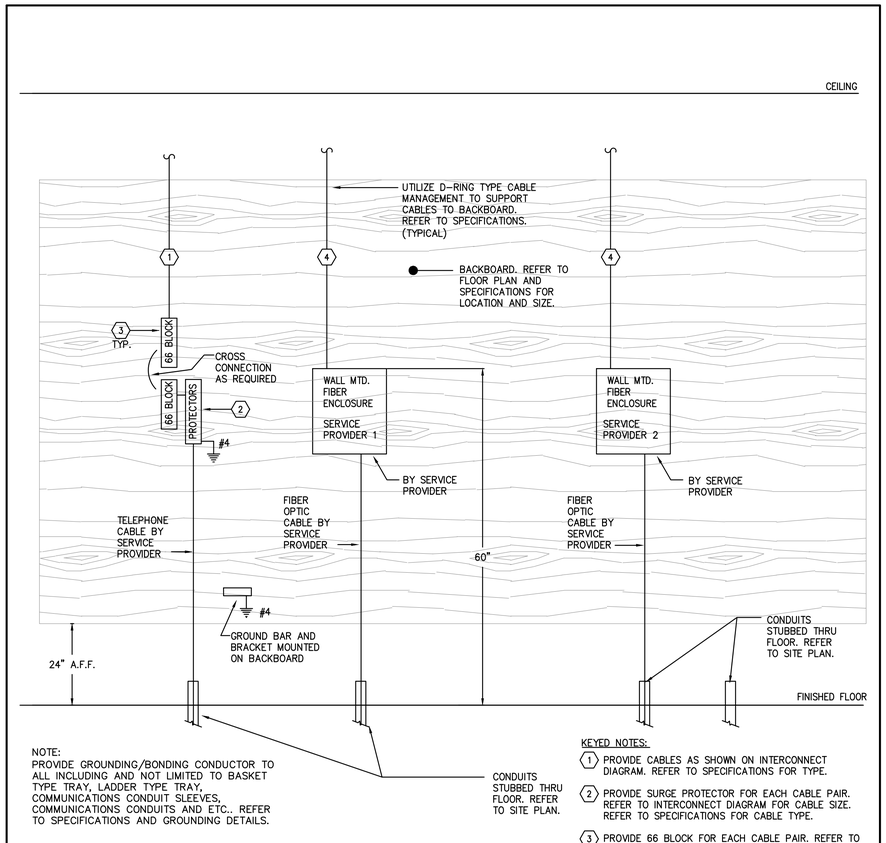


NOTE:
1. ADJUST CAMERA FIELD OF VIEW AS PER OWNER'S REQUIREMENT.
2. ALL EXTERIOR WALL PENETRATIONS SHALL BE WEATHERPROOF SEALED AS REQUIRED.
3. PATCH CORDS ARE OWNER PROVIDED, CONTRACTOR INSTALLED.

ROUGH-IN REQUIREMENTS NOTE:
THIS CONTRACTOR SHALL COORDINATE LOCATION AND J-BOX REQUIREMENTS WITH CCTV SECURITY INTEGRATOR/ CONTRACTOR PRIOR TO ROUGH-IN. DETAILS SHOWN HEREIN DEPICT TYPICAL INSTALLATION.

TYPICAL EXTERIOR WALL MOUNTED CAMERA. EXTERIOR CONCRETE OR BLOCK WALL INSTALLATION DETAIL.

NO SCALE

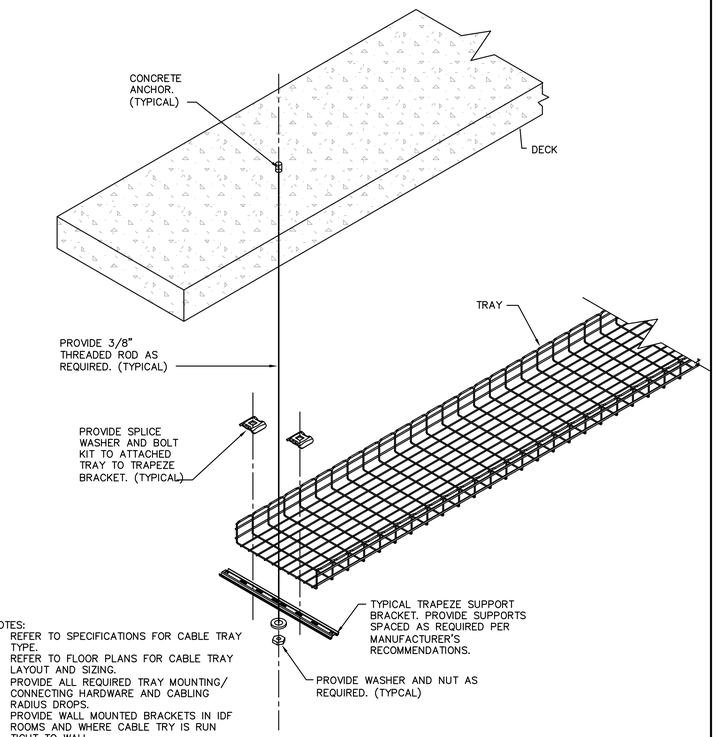


NOTE:
PROVIDE GROUNDING/BONDING CONDUCTOR TO ALL INCLUDING AND NOT LIMITED TO BASKET TYPE TRAY, LADDER TYPE TRAY, COMMUNICATIONS CONDUIT SLEEVES, COMMUNICATIONS CONDUITS AND ETC.. REFER TO SPECIFICATIONS AND GROUNDING DETAILS.

KEYED NOTES:
1. PROVIDE CABLES AS SHOWN ON INTERCONNECT DIAGRAM. REFER TO SPECIFICATIONS FOR TYPE.
2. PROVIDE SURGE PROTECTOR FOR EACH CABLE PAIR. REFER TO INTERCONNECT DIAGRAM FOR CABLE SIZE. REFER TO SPECIFICATIONS FOR CABLE TYPE.
3. PROVIDE 66 BLOCK FOR EACH CABLE PAIR. REFER TO INTERCONNECT DIAGRAM FOR CABLE SIZE. REFER TO SPECIFICATIONS FOR CABLE TYPE.
4. PROVIDE (2) CATEGORY CABLES TO DATA CABINET.

SERVICE PROVIDER ENTRANCE DETAIL

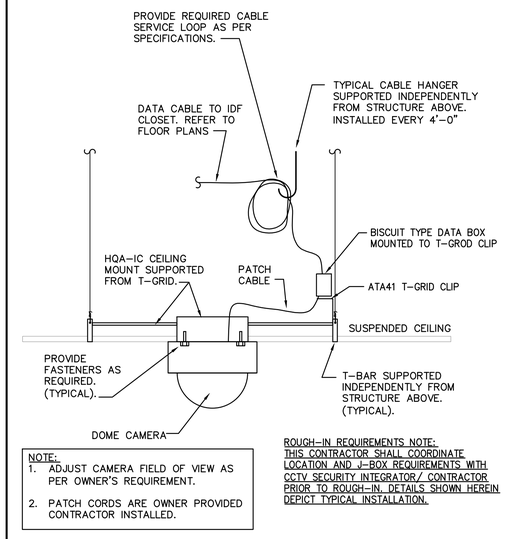
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR CABLE TRAY TYPE.
2. REFER TO FLOOR PLANS FOR CABLE TRAY LAYOUT AND SIZING.
3. PROVIDE ALL REQUIRED TRAY MOUNTING/ CONNECTING HARDWARE AND CABLING RADIUS DROPS.
4. PROVIDE WALL MOUNTED BRACKETS IN IDF ROOMS AND WHERE CABLE TRY IS RUN TIGHT TO WALL.

BASKET TYPE TRAY ABOVE ACCESSIBLE CEILING MOUNTING DETAIL

NOT TO SCALE

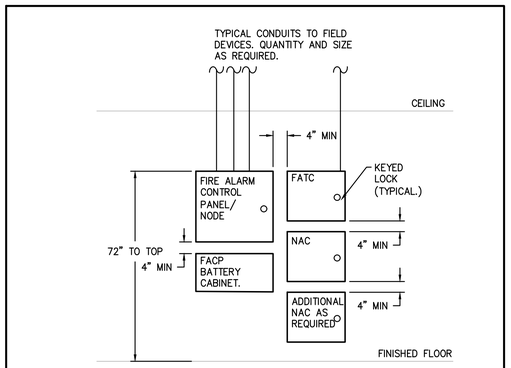


NOTE:
1. ADJUST CAMERA FIELD OF VIEW AS PER OWNER'S REQUIREMENT.
2. PATCH CORDS ARE OWNER PROVIDED CONTRACTOR INSTALLED.

ROUGH-IN REQUIREMENTS NOTE:
THIS CONTRACTOR SHALL COORDINATE LOCATION AND J-BOX REQUIREMENTS WITH CCTV SECURITY INTEGRATOR/ CONTRACTOR PRIOR TO ROUGH-IN. DETAILS SHOWN HEREIN DEPICT TYPICAL INSTALLATION.

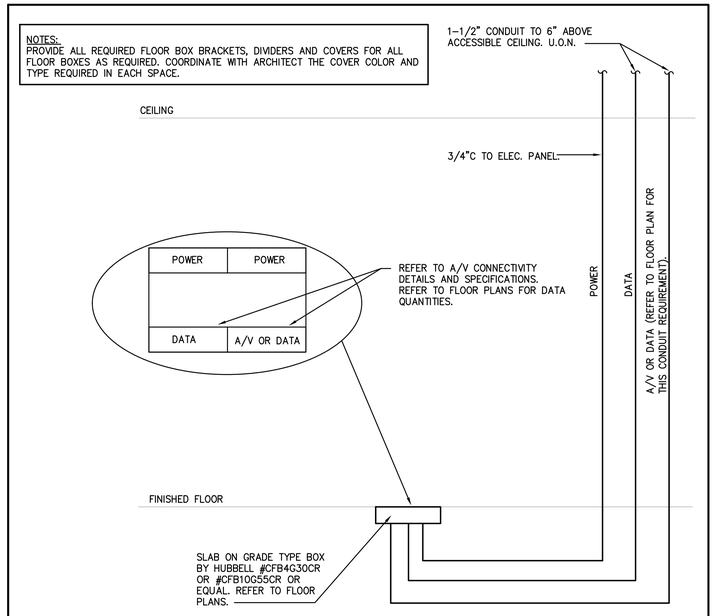
TYPICAL DOME CAMERA SUSPENDED CEILING INSTALLATION DETAIL.

NO SCALE



TYPICAL FIRE ALARM PANEL, FATC & NAC MOUNTING

NOT TO SCALE



TYPICAL SLAB ON GRADE FLOOR BOX ROUGH-IN DETAIL

NOT TO SCALE

FLOOR PLAN SYMBOL

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Engineering Matrix
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER

RANGELAND PKWY AND UIHLEIN RD

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Checked By	JSW
Date	02.02.24

Revisions:

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E5.5
ELECTRICAL DETAILS

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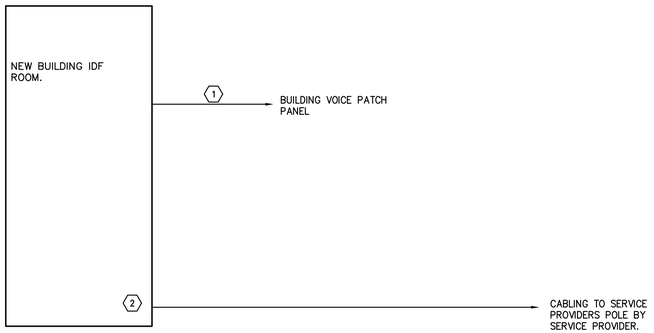
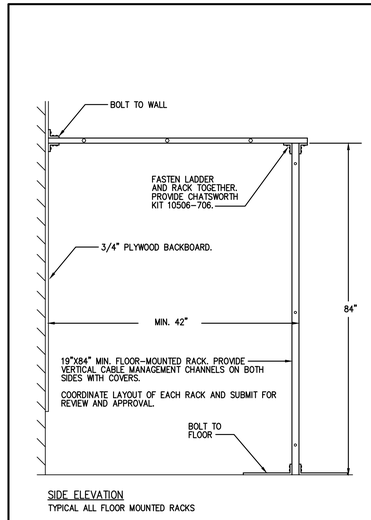


KEYED NOTES:

1. PROVIDE 25 PAIR PLENUM RATED TELEPHONE CABLE. (REFER TO NEW SITE PLAN, BUILDING FLOOR PLAN AND SPECIFICATIONS)
2. PROVIDE TELEPHONE CABLE PROTECTORS FOR NUMBER OF PAIRS REQUIRED. (REFER TO SPECIFICATIONS)

SITE COPPER TELEPHONE CABLE INTERCONNECT DIAGRAM.

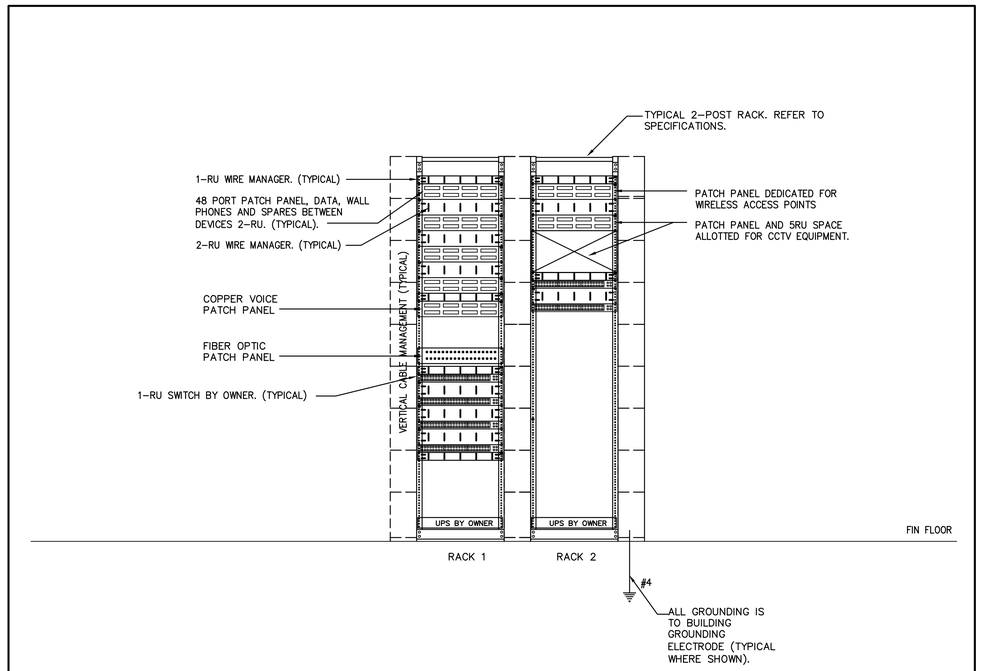
NOT TO SCALE



SIDE ELEVATION
TYPICAL ALL FLOOR MOUNTED RACKS

TYPICAL 2-POST RACK MOUNTING DETAIL

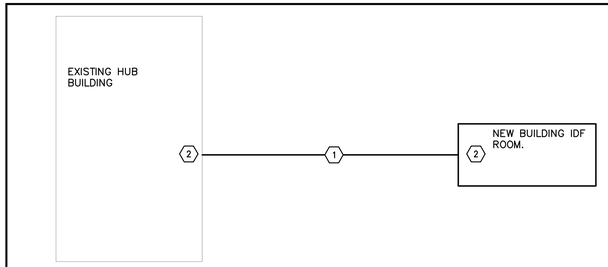
NOT TO SCALE



BUILDING IDF ROOM RACK LAYOUT.

N.T.S.

PROVIDE PATCH PANELS IN QUANTITIES AS REQUIRED FOR NUMBER OF JACKS SHOWN ON PLANS PLUS SPARE AS PER SPECIFICATIONS.

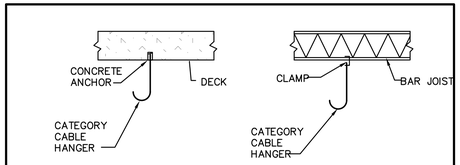


KEYED NOTES:

1. PROVIDE 24 COUNT WET LOCATION RATED MULTI MODE OM4 FIBER OPTIC CABLE FOR DATA, HVAC, SECURITY CAMERAS & ACCESS CONTROL. (REFER TO SITE PLAN, BUILDING FLOOR PLAN AND SPECIFICATIONS).
2. PROVIDE FIBER OPTIC JUMPERS IN QUANTITIES AND LENGTHS AS REQUIRED. REFER TO SPECIFICATIONS.

SITE FIBER OPTIC CABLE INTERCONNECT DIAGRAM. (DATA, SECURITY CAMERAS, HVAC CONTROLS & ACCESS CONTROL).

NOT TO SCALE



TYPICAL CABLE HANGER DETAIL.

NO SCALE

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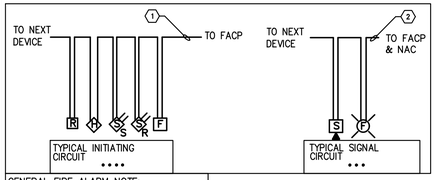
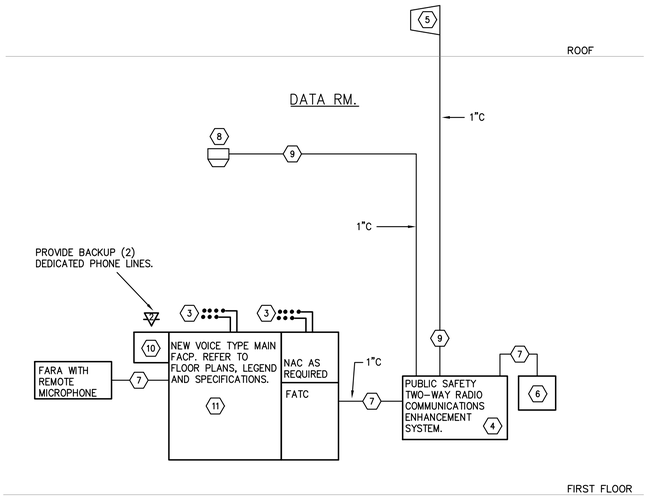


FIRE ALARM TYPICAL DEVICE INTERCONNECT DIAGRAM

NOT TO SCALE



GENERAL NOTE:

1. PROVIDE FATC WITH SURGE SUPPRESSOR FOR ALL FIRE ALARM CIRCUITS SERVING EXTERIOR DEVICES.
2. REFER TO FLOOR PLANS FOR ALL DEVICE LOCATIONS AND QUANTITIES. REFER TO SPECIFICATIONS FOR ALL EQUIPMENT AND CABLING REQUIREMENTS.
3. FIRE ALARM SYSTEM SHALL BE POINT REPORTING TYPE SYSTEM TO REPORT DEVICE TYPE, LOCATION, ROOM NAME AND NUMBER TO THE MONITORING STATION.

KEYED NOTES:

1. PROVIDE CONDUIT, CABLING AND ALL OTHER REQUIRED COMPONENTS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
2. PROVIDE CONDUIT, CABLING AND ALL OTHER REQUIRED COMPONENTS AND ACCESSORIES FOR A COMPLETE INSTALLATION. SPEAKERS AND STROBES SHALL BE ON SEPARATE SIGNAL CIRCUITS.
3. PROVIDE FIELD DEVICES AND CABLING. REFER TO FLOOR PLANS AND SPECIFICATIONS.
4. PROVIDE BACK-UP BATTERIES AND TIE-IN TO FIRE ALARM SYSTEM AS REQUIRED BY NFPA-72 24.5.2.6.1 AND A.H.J.. REFER TO PLANS AND SPECIFICATIONS. PROVIDE MONITORING FOR ANTENNA MALFUNCTION, SIGNAL BOOSTER FAILURE, LOW BATTERY CAPACITY, LOSS OF AC POWER AND FAILURE OF BATTERY CHARGER.
5. PROVIDE EXTERIOR ANTENNA AND CABLING. REFER TO PLANS AND SPECIFICATIONS.
6. PROVIDE PUBLIC SAFETY TWO-WAY RADIO COMMUNICATIONS ENHANCEMENT SYSTEM DEDICATED MONITORING PANEL AS PER NFPA 72 24.5.2.6.2
7. CABLING AS REQUIRED PER MANUFACTURER'S SPECIFICATIONS. (SLC, SPEAKER, SYNC, NOTIFICATION OR ANNUNCIATOR CABLING AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM).
8. PROVIDE INTERIOR RADIO REPEATER ANTENNA. REFER TO PLANS FOR QUANTITIES AND SPECIFICATIONS.
9. PROVIDE COAXIAL CABLE INSTALLED IN CONDUIT AS PER NFPA-72 SURVIVABILITY LEVEL 1. REFER TO SPECIFICATIONS.
10. PROVIDE DIGITAL CELLULAR DIALER. BY NAPCO SECURITY MODEL STARLINK FIRE SLE-LTEVI-CFB-PS (VERIZON) OR SLE-LTEAI-CFB-PS (AT&T) VERIFY CELLULAR CARRIER WITH OWNER PRIOR TO ORDER. ALSO PROVIDE CELLULAR ANTENNA SLE-ANTEXT## (## DEPICTS CABLE LENGTH 75, 50, 30) AS REQUIRED TO MAINTAIN PROPER CELLULAR SIGNAL STRENGTH. EXTEND CABLE TO ROOF, PROVIDE WEATHERHEAD AND ROOF PENETRATION AS REQUIRED.
11. PROVIDE REMOTE VOICE TYPE FIRE ALARM NODE WITH INITIATING CIRCUIT BOARD, AUDIO BOARD, AMPLIFIERS (SIZED AS REQUIRED) AND FIBER OPTIC CARD.

FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE

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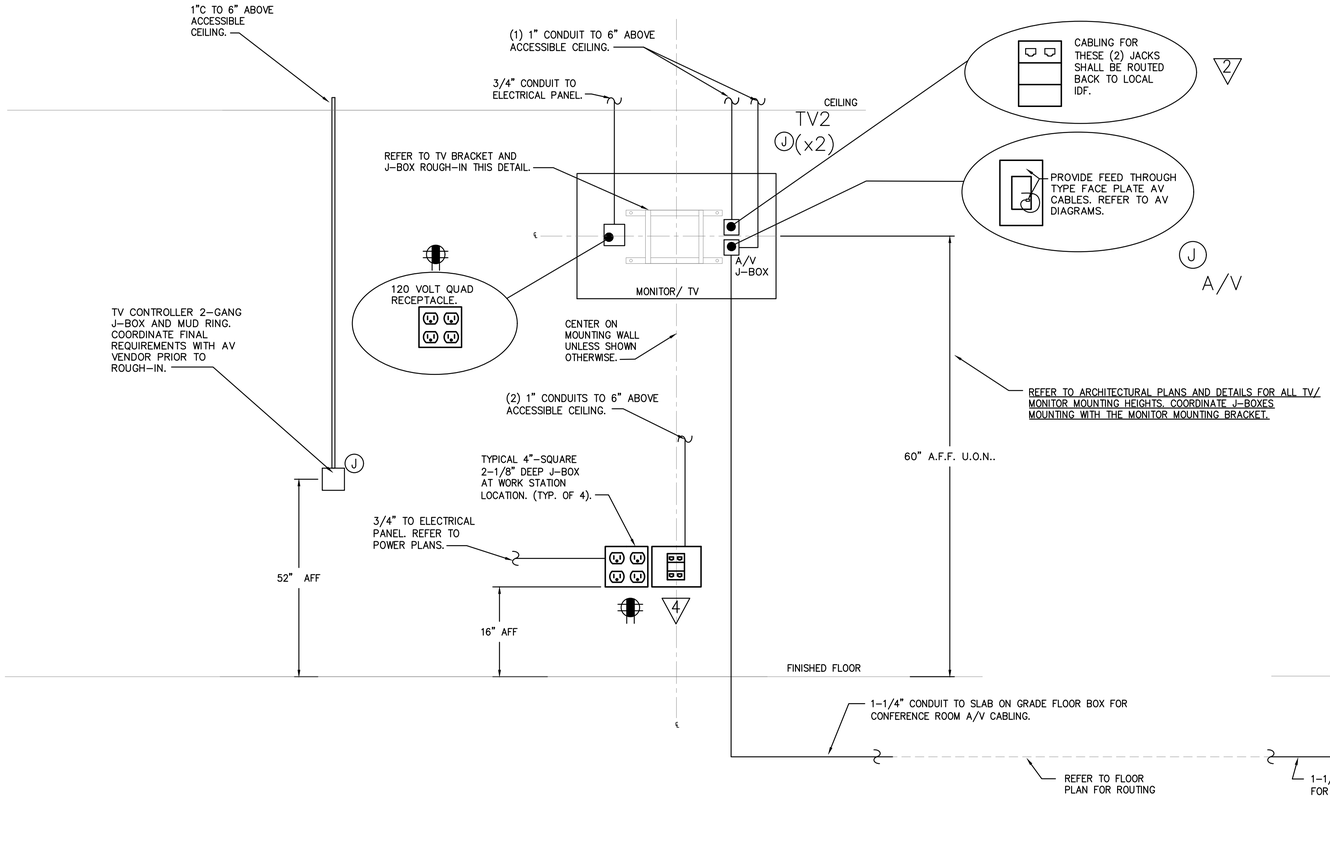
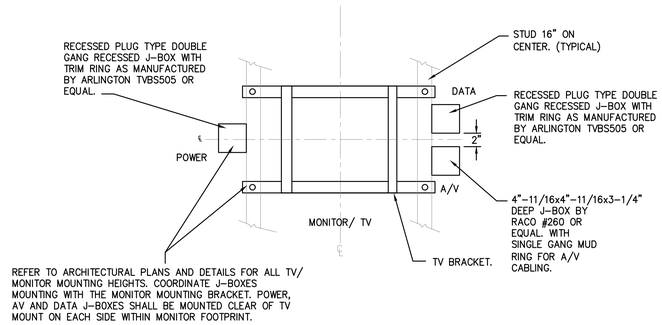


NOTES:
PROVIDE ALL REQUIRED FLOOR BOX BRACKETS, DIVIDERS AND COVERS FOR ALL FLOOR BOXES AS REQUIRED. COORDINATE WITH ARCHITECT THE COVER COLOR AND TYPE REQUIRED IN EACH SPACE.

NOTES THIS DETAIL:
1. COORDINATE WITH ARCHITECTURAL DRAWINGS. MONITOR SIZE AND LOCATION.
2. COORDINATE DISPLAY MOUNT LOCATION WITH A/V J-BOX.
3. ALL J-BOXES ARE 4"-SQUARE 2-1/8" DEEP UNLESS OTHERWISE NOTED.
4. PROVIDE RECESSED PASS THROUGH TYPE FACE PLATE AT A/V J-BOXES FOR A/V CABLES MANAGEMENT BY EATON 35M1W-SP-L OR EQUAL.
5. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SHOWN, POWER ADAPTERS, CABLES, BRACKETS, WALL PLATES AND MOUNTING HARDWARE FOR COMPLETE FUNCTIONAL SYSTEM. U.O.N..

CONFERENCE ROOM TV AND A/V CONTROLLER ROUGH-IN. (REFER TO SHEET E5.10 FOR AV DIAGRAM).
NOT TO SCALE



TV BRACKET AND J-BOXES ROUGH-IN DETAIL

FLOOR PLAN SYMBOL
J TV2

SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
Sarasota, FL 34240 t: 941.343.4070
FAWLEYBRYANT.COM

Engineering Matrix
2860 Scherer Drive, Suite 640, St. Petersburg, FL 33716
Email@engmtx.com / (727) 573-4656
Cert of Authorization No. 4298
EMI Job No. 23-0340

MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER CAMPUS
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	EM
Checked By	JSW
Date	02.02.24

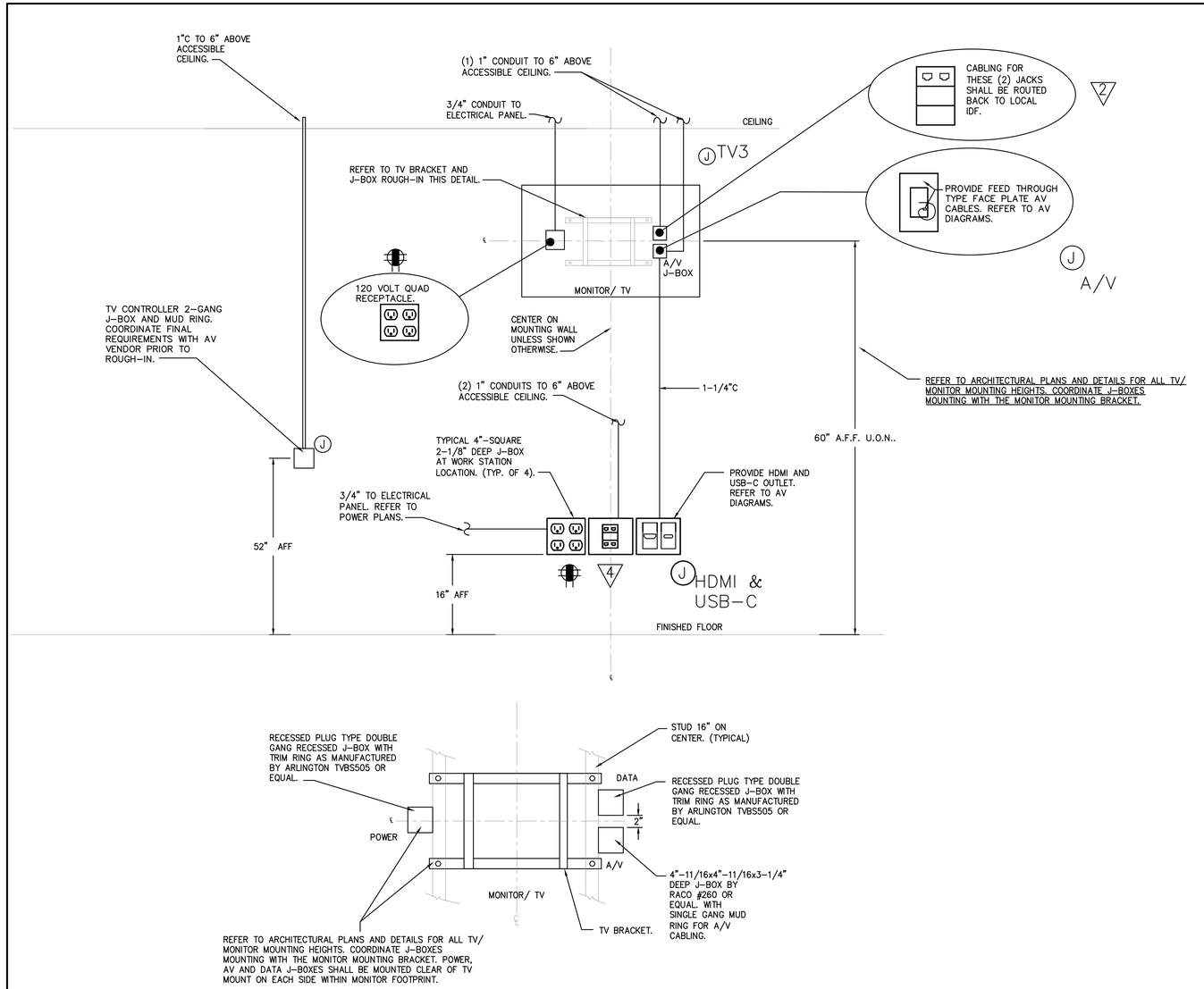
Revisions:

90% PERMIT SET

E5.8
ELECTRICAL DETAILS

Originals printed at 24" x 36"
scale as required

N:_2023\23-0340 FBA CMN PREMIER CAMPUS SHERIFFS OFFICE SUBSTATION\ELECTRICAL\23-0340_E5-1_ELECTRICAL DETAILS.DWG
9/5/2023 6:39:50 AM 2/9/2024 9:46:45 AM



TV BRACKET AND J-BOXES ROUGH-IN DETAIL

NOTES THIS DETAIL:

1. COORDINATE WITH ARCHITECTURAL DRAWINGS. MONITOR SIZE AND LOCATION.
2. COORDINATE DISPLAY MOUNT LOCATION WITH A/V J-BOX.
3. ALL J-BOXES ARE 4"-SQUARE 2-1/8" DEEP UNLESS OTHERWISE NOTED.
4. PROVIDE RECESSED PASS THROUGH TYPE FACE PLATE AT A/V J-BOXES FOR A/V CABLES MANAGEMENT BY EATON 3SM1W-SP-L OR EQUAL.
5. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SHOWN, POWER ADAPTERS, CABLES, BRACKETS, WALL PLATES AND MOUNTING HARDWARE FOR COMPLETE FUNCTIONAL SYSTEM. U.O.N..

SQUAD ROOM TV AND A/V CONTROLLER ROUGH-IN. (REFER TO SHEET E5.10 FOR AV DIAGRAM).

NOT TO SCALE

FLOOR PLAN SYMBOL

J TV3

FAWLEY BRYANT ARCHITECTURE
SMART BEAUTIFUL SPACES
FAWLEY BRYANT ARCHITECTURE
5391 Lakewood Ranch Blvd. North, Suite 300
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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER CAMPUS

RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
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Revisions:

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E5.9
ELECTRICAL DETAILS

Originals printed at 24" x 36"
scale as required

Branch Panel: MDP

Location: ELECTRICAL 123
Supply From: ATS-1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Special Breaker	Trip	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip	Special Breaker	Circuit Description	CKT
1	PANEL A		100 A	3	#3	8360...	0 VA					#6	3	60 A		SPD	2
3	--	--	--	--	--			7672...	0 VA			--	--	--	--	--	4
5	--	--	--	--	--					8336...	0 VA	--	--	--	--	--	6
7	PANEL B		100 A	3	#3	6323...	1248...					#12	2	20 A		AC-6 & CU-6	8
9	--	--	--	--	--			7905...	1248...			--	--	--	--	--	10
11	--	--	--	--	--					6301...	1248...	#12	2	20 A		AC-5 & CU-5	12
13	CU-1		20 A	3	#12	1679...	1248...					--	--	--	--	--	14
15	--	--	--	--	--			1679...	1248...			#12	2	20 A		AC-4 & CU-4	16
17	--	--	--	--	--					1679...	1248...	--	--	--	--	--	18
19	CU-2		25 A	3	#10	1679...	3598...					#8	3	35 A		AC-1	20
21	--	--	--	--	--			1679...	3598...			--	--	--	--	--	22
23	--	--	--	--	--					1679...	3598...	--	--	--	--	--	24
25	CU-3		35 A	3	#8	2519...	4558...					#8	3	40 A		AC-2	26
27	--	--	--	--	--			2519...	4558...			--	--	--	--	--	28
29	--	--	--	--	--					2519...	4558...	--	--	--	--	--	30
31	WATER HEATER JANITOR 124		30 A	2	#10	750 VA	5518...					#8	3	50 A		AC-3	32
33	--	--	--	--	--			750 VA	5518...			--	--	--	--	--	34
35	SPARE		20 A	1	--					0 VA	5518...	--	--	--	--	--	36
37	SPARE		20 A	1	--	0 VA	3864...					#6	3	60 A		LIFT STATION	38
39	SPARE		20 A	1	--			0 VA	3864...			--	--	--	--	--	40
41	SPARE		20 A	1	--					0 VA	3864...	--	--	--	--	--	42
			Total Load:			207590 VA		208484 VA		206794 VA							
			Total...			1731 A		1738 A		1723 A							

Legend:
ST: Shunt Trip, RBL: Red Handle With Breaker Lock, GFI: GFI Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	565932 VA	100.00%	565932 VA		
Lighting	3782 VA	100.00%	3782 VA	**Total Conn. Load:**	622869 VA
Motor	13152 VA	122.03%	16050 VA	**Total Est. Demand:**	625767 VA
Other	648 VA	100.00%	648 VA	**Total Conn. Current:**	1729 A
Power	12043 VA	100.00%	12043 VA	**Total Est. Demand Current:**	1737 A
Equipment	0 VA	0.00%	0 VA		
RECEPT	27132 VA	100.00%	27132 VA		
Miscellaneous	180 VA	100.00%	180 VA		

Notes:

Branch Panel: A

Location: ELECTRICAL 123
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 100 A

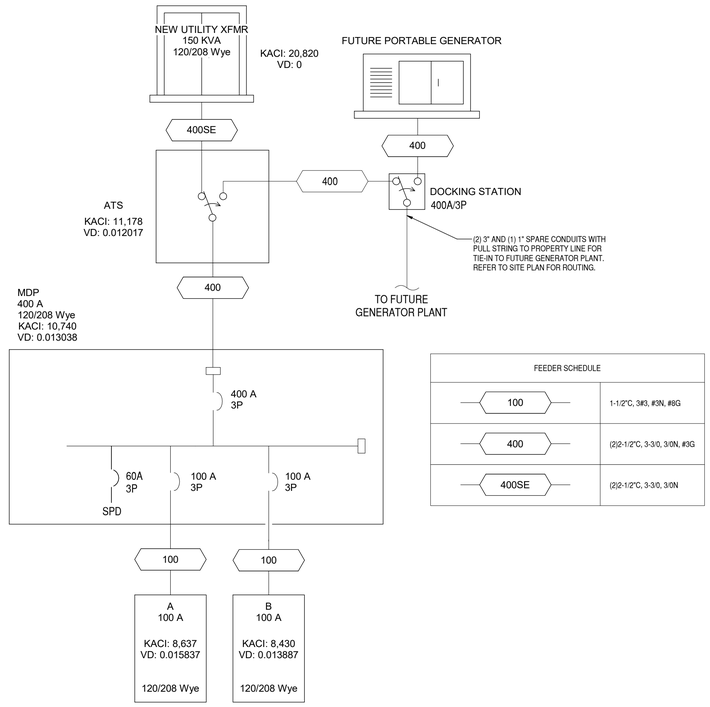
Notes:

CKT	Circuit Description	Special Breaker	Trip	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip	Special Breaker	Circuit Description	CKT
1	RECEPT...		20 A	1	#12	1260...	720 VA					#12	1	20 A		RECEPT CONFERENCE 101	2
3	RECEPT Room 108, 113, 107,...		20 A	1	#12			1260...	552 VA			#12	1	20 A	GFI	EWC CORRIDOR 125	4
5	RECEPT Room 106, 105, 125		20 A	1	#12					1260...	1560...	#12	1	20 A		MOTORIZED GATE	6
7	RECEPT Room 114, 115, 116		20 A	1	#12	900 VA											8
9	RECEPT Room 104, 103, 102		20 A	1	#12			1260...	80 VA			#12	1	20 A		EF-1-1	10
11	RECEPT Room 124, 100, 125,...		20 A	1	#12					1260...	96 VA	#12	1	20 A		EF-3-1	12
13	RECEPT CONFERENCE 101		20 A	1	#12	1200...	180 VA					#12	1	20 A		RECEPT BREAK ROOM 120	14
15	HAND DRYER RESTROOM 100A	GFI	20 A	1	#12			1000...	1000...			#12	1	20 A		HAND DRYER MENS RR 122	16
17	HAND DRYER MENS RR 122	GFI	20 A	1	#12					1000...	1000...	#12	1	20 A		HAND DRYER WOMENS RR 121	18
19	HAND DRYER WOMENS RR 121	GFI	20 A	1	#12	1000...	1180...					#12	1	20 A		RP-1 JANITOR 124	20
21	RECEPT		20 A	1	#12			180 VA	180 VA			#12	1	20 A	RBL	FACP IT 118	22
23	RECEPT Room 123, 123A, 125		20 A	1	#12					1260...	0 VA	--	1	20 A		SPARE	24
25	FRIDGE BREAK ROOM 120		20 A	1	#12	840 VA	0 VA					--	1	20 A		SPARE	26
27	RECEPT Room 120, 119		20 A	1	#12			1080...	0 VA			--	1	20 A		SPARE	28
29	RECEPT Room 116, 111		20 A	1	#12					900 VA	0 VA	--	1	20 A		SPARE	30
31	RECEPT SQUAD 116		20 A	1	#12	1080...	0 VA					--	1	20 A		SPARE	32
33	RECEPT SQUAD 116		20 A	1	#12			1080...	0 VA			--	1	20 A		SPARE	34
35	SPARE		20 A	1	--					0 VA	0 VA	--	1	20 A		SPARE	36
37	SPARE		20 A	1	--	0 VA	0 VA					--	1	20 A		SPARE	38
39	SPARE		20 A	1	--			0 VA	0 VA			--	1	20 A		SPARE	40
41	SPARE		20 A	1	--					0 VA	0 VA	--	1	20 A		SPARE	42
			Total Load:			8360 VA		7672 VA		8336 VA							
			Total...			71 A		64 A		70 A							

Legend:
ST: Shunt Trip, RBL: Red Handle With Breaker Lock, GFI: GFI Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	176 VA	100.00%	176 VA		
Motor	1560 VA	112.50%	1755 VA	**Total Conn. Load:**	24368 VA
Power	9360 VA	100.00%	9360 VA	**Total Est. Demand:**	24563 VA
RECEPT	13092 VA	100.00%	13092 VA	**Total Conn. Current:**	68 A
Miscellaneous	180 VA	100.00%	180 VA	**Total Est. Demand Current:**	68 A

Notes:



FEEDER SCHEDULE	
100	1-1/2"C, 3#3, #3N, #8G
400	(2)2-1/2"C, 3-3/0, 3/0N, #3G
400SE	(2)2-1/2"C, 3-3/0, 3/0N

AUTOMATIC TRANSFER SWITCH SCHEDULE

MARK	-	ATS-1
MANUFACTURER	-	ASCO POWER
MODEL NUMBER	-	7000 SERIES
CAPACITY	AMPS	400
ELECTRICAL CHARACTERISTICS	V/Ø/HZ	208/3/60
NEUTRAL CHARACTERISTICS	-	SWITCHED
MIN. FAULT CURRENT RATING	KAIC	22
ENCLOSURE TYPE	-	NEMA 1
TRANSITION TYPE	-	OPEN
BYPASS ISOLATION	-	YES
SERVICE TYPE	-	STANDBY
LOCATION	-	EQUIP RM

NOTES:

1. AUTOMATIC TRANSFER SWITCH SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 1008, 7TH EDITION.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE BACNET INTERFACE FOR INTEGRATION INTO BUILDING AUTOMATION SYSTEM. PROVIDE FIELD-PROGRAMMING COORDINATION WITH CONTROLS CONTRACTOR AND OWNER TRAINING.
4. EQUIPMENT SHALL BE SERVICE ENTERANCE RATED. PROVIDE 400A MAIN BREAKER.
5. COORDINATE AUTOMATIC TRANSFER REQUIREMENTS WITH OWNER. CONTRACTOR SHALL PROGRAM ATS FOR MANUAL TRANSITION AS REQUIRED.

MANUAL TRANSFER SWITCH WITH DOCKING STATION SCHEDULE

MARK	-	DS-1
MANUFACTURER	-	TRYSTAR
MODEL NUMBER	-	TMTS-043W
CAPACITY	AMPS	400
ELECTRICAL CHARACTERISTICS	V/Ø/HZ	208/3/60
MIN. FAULT CURRENT RATING	KAIC	22
ENCLOSURE TYPE	-	NEMA 4X
LOCATION	-	PARKINGLOT

NOTES:

1. COORDINATE DOCKING STATION CONNECTION CONFIGURATION WITH FIELD CONDITIONS PRIOR TO ORDERING.
2. PROVIDE TWO WIRE AUTO START CONNECTION.

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MANATEE COUNTY SHERIFF'S OFFICE AT PREMIER
RANGELAND PKWY AND UIHLEIN RD

Project No.	22009.01
Drawn By	CNV
Checked By	JSW
Date	02.02.24

Revisions:

90% PERMIT SET

E6.1
ELECTRICAL SINGLE LINE & PANEL SCHEDULES

Originals printed at 24" x 36"
scale as required

Branch Panel: B

Location: ELECTRICAL 123
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Special Breaker	Trip	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip	Special Breaker	Circuit Description	CKT
1	RECEPT Room 109, 110		20 A	1	#12	1260...	360 VA						1	20 A		CELLULAR AMP. IT 118	2
3	RECEPT Room 108, 107		20 A	1	#12			1260...	690 VA			#10	1	20 A		LIGHTING	4
5	COPIER COPY 140		20 A	1	#12					180 VA	950 VA	#10	1	20 A		LIGHTING	6
7	RECEPT Room 113, 114		20 A	1	#12	1080...	427 VA					#10	1	20 A		LIGHTING	8
9	RECEPT Room 104, 103		20 A	1	#12			1080...	1031...			#10	1	20 A		LIGHTING	10
11	RECEPT Room 102, 100		20 A	1	#12					1080...	855 VA	#10	1	20 A		EXTERIOR LIGHTING	12
13	RECEPT Room 116, 115		20 A	1	#12	900 VA	216 VA					#10	1	20 A		SITE LIGHTING	14
15	RECEPT SQUAD 116		20 A	1	#12			1260...	144 VA			#10	1	20 A		SITE LIGHTING	16
17	RECEPT CONFERENCE 101		20 A	1	#12					1440...	576 VA	#10	1	20 A		SITE LIGHTING	18
19	RECEPT Room 106, 105		20 A	1	#12	1260...	100 VA					#10	1	20 A		FLAG POLE	20
21	SECURITY IT 118		20 A	1	#12			360 VA	1000...			#10	1	20 A		BUILDING SIGNAGE	22
23	DLPS IT 118		20 A	1	#12					360 VA	500 VA	#10	1	20 A		BUILDING SIGNAGE	24
25	RACK IT 118		20 A	1	#12	360 VA	0 VA					--	1	20 A		SPARE	26
27	RACK IT 118		20 A	1	#12			360 VA	0 VA			--	1	20 A		SPARE	28
29	RACK IT 118		20 A	1	#12					360 VA	0 VA	--	1	20 A		SPARE	30
31	RACK IT 118		20 A	1	#12	360 VA	0 VA					--	1	20 A		SPARE	32
33	RECEPT IT 118		20 A	1	#12			720 VA	0 VA			--	1	20 A		SPARE	34
35	SPARE		20 A	1	--					0 VA	0 VA	--	1	20 A		SPARE	36
37	SPARE		20 A	1	--	0 VA	0 VA					--	1	20 A		SPARE	38
39	SPARE		20 A	1	--			0 VA	0 VA			--	1	20 A		SPARE	40
41	SPARE		20 A	1	--					0 VA	0 VA	--	1	20 A		SPARE	42
			Total Load:			6323 VA		7905 VA		6301 VA							
			Total...			53 A		66 A		53 A							

Legend:
ST: Shunt Trip, RBL: Red Handle With Breaker Lock, GFI: GFI Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3782 VA	100.00%	3782 VA		
Other	24 VA	100.00%	24 VA	**Total Conn. Load:**	20529 VA
Power	2683 VA	100.00%	2683 VA	**Total Est. Demand:**	20529 VA
RECEPT	14040 VA	100.00%	14040 VA	**Total Conn. Current:**	57 A
				Total Est. Demand Current:	57 A

Notes:

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E6.2
PANEL SCHEDULES

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