

# CONSTRUCTION PLANS

## LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

### CIP200751

10450-10550 BUCKINGHAM ROAD  
FORT MYERS, FLORIDA 33905

## SECTION 24, TOWNSHIP 44S, RANGE 25E

#### CONSULTANTS

**OWNER/DEVELOPER:**  
LEE COUNTY  
PO BOX 398  
FORT MYERS, FL 33902

**CIVIL ENGINEER/PRIME:**  
STANTEC CONSULTING SERVICES, INC.  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901

**ARCHITECT:**  
CASTELLANOS & TRAMONTE ARCHITECTS  
1228 LAFAYETTE ST., SUITE 1  
CAPE CORAL, FL 39904  
239-549-0997

**MEP ENGINEER:**  
SPELMAN ENGINEERING, INC.  
1923 SE 10TH PLACE  
CAPE CORAL, FL 33990  
239-770-2930

BID SET

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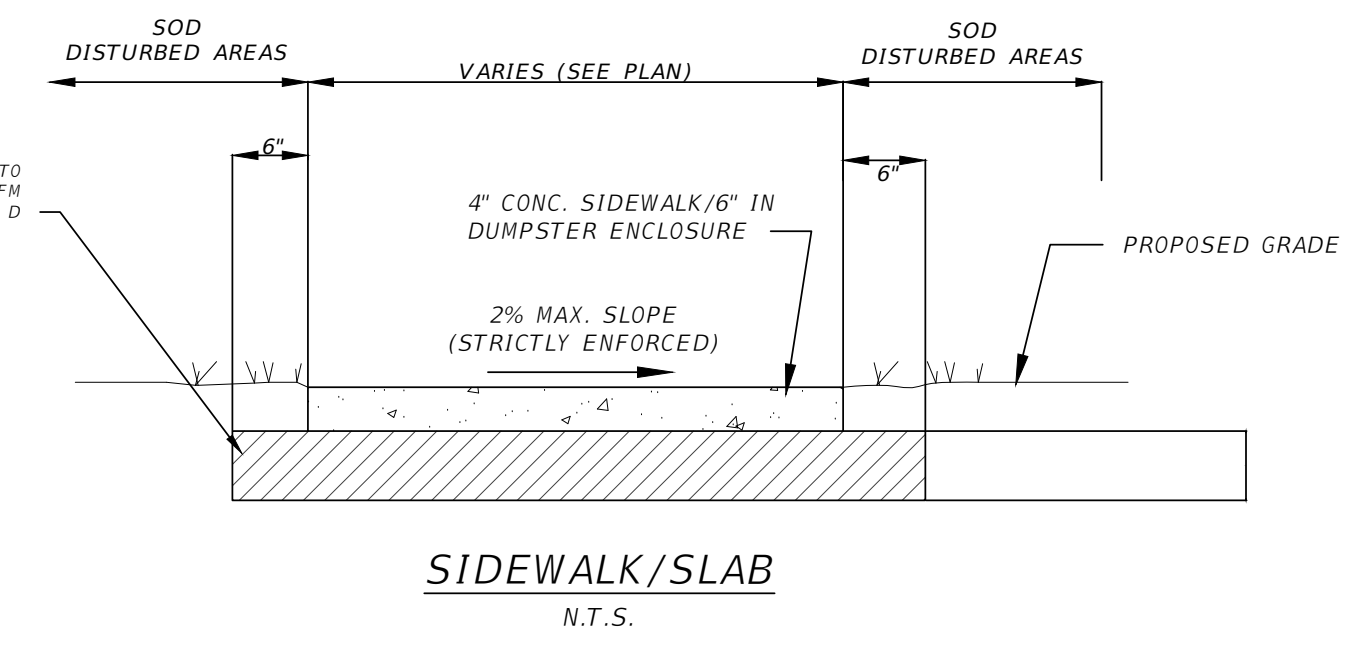
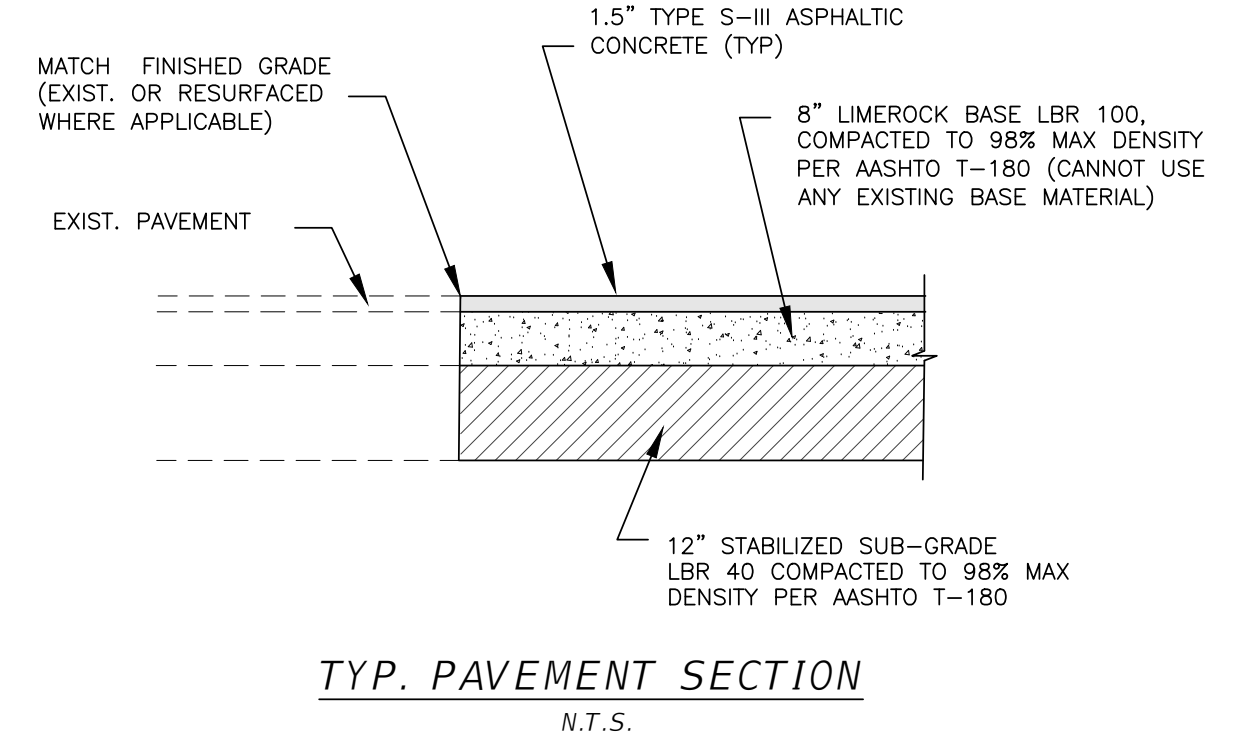
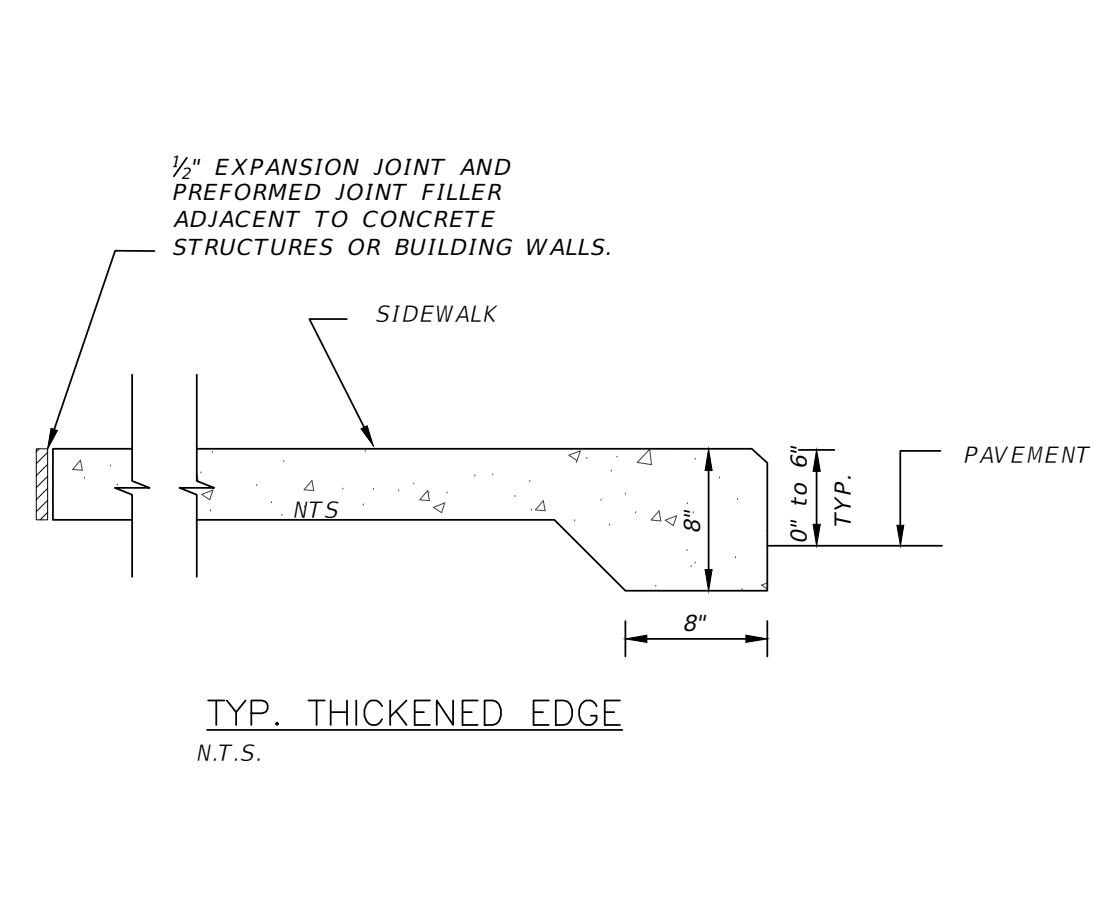
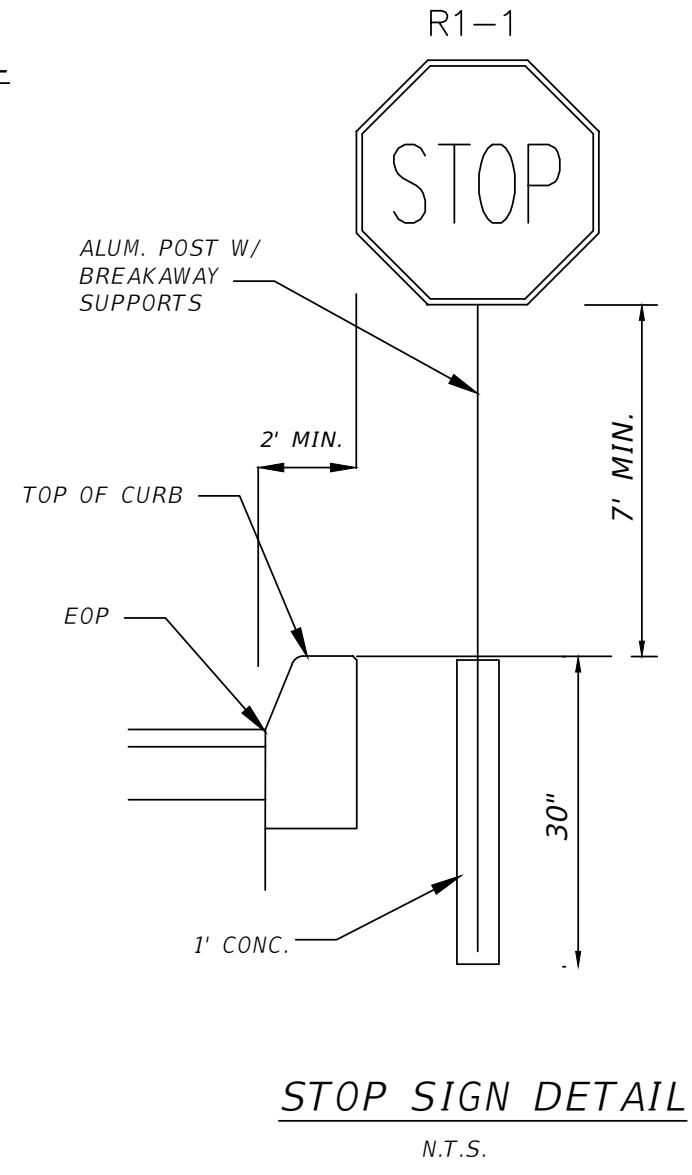
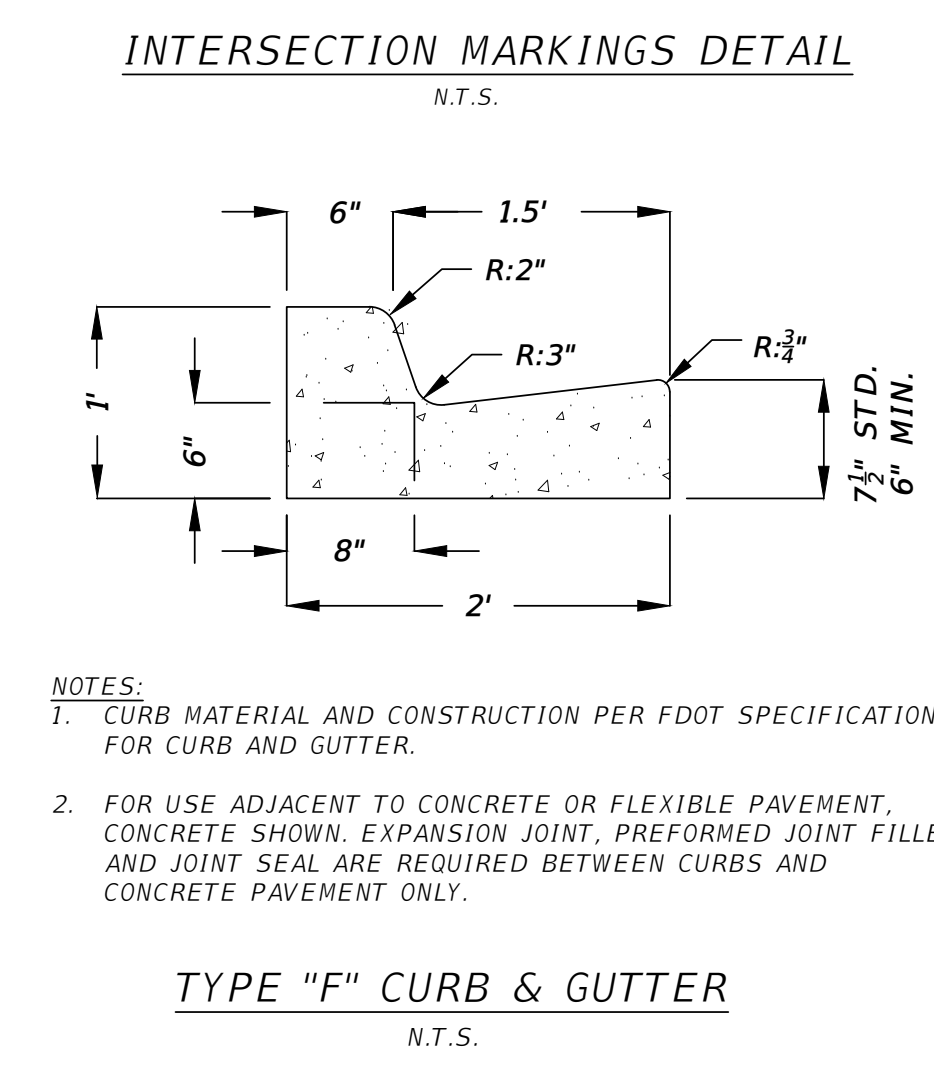
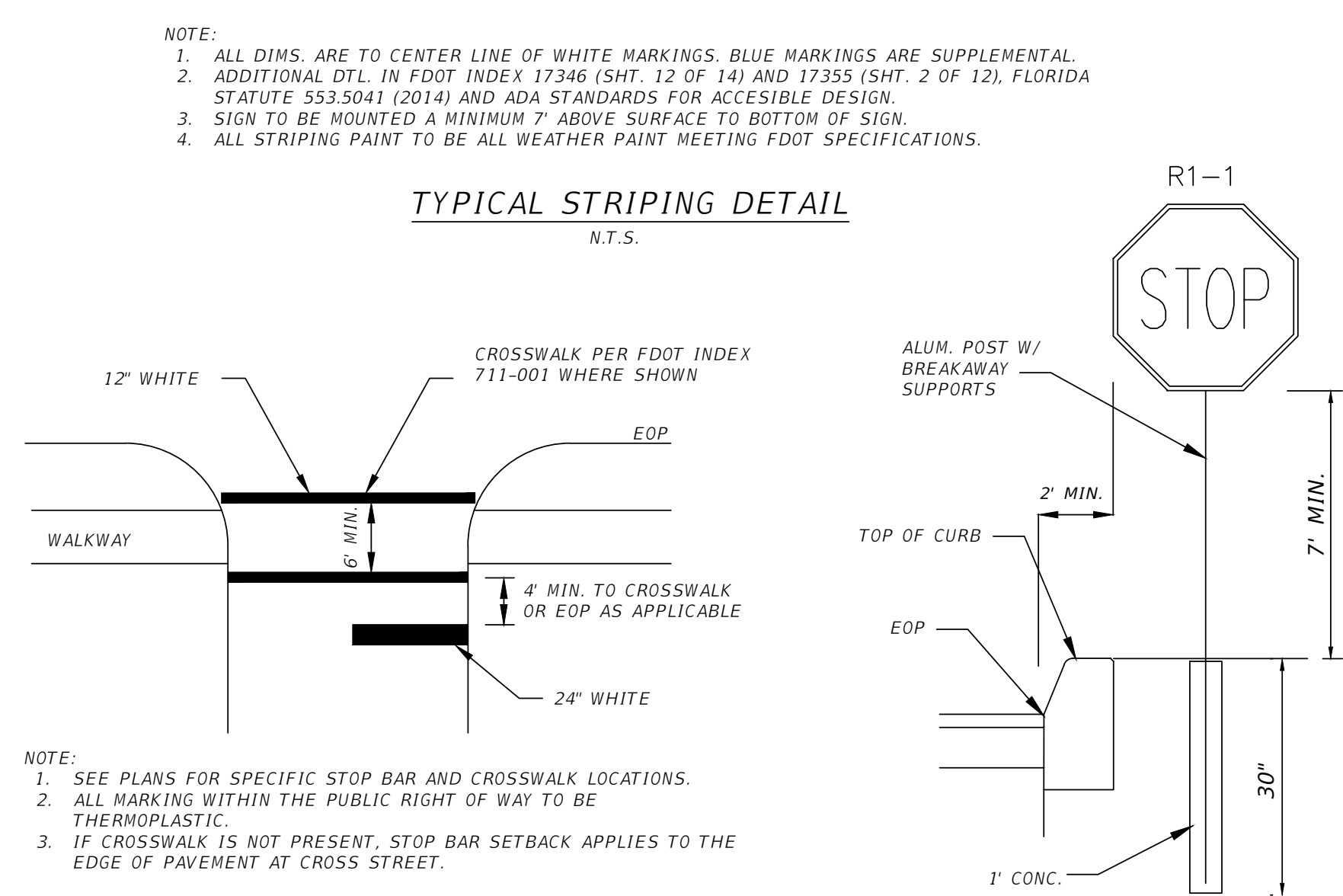
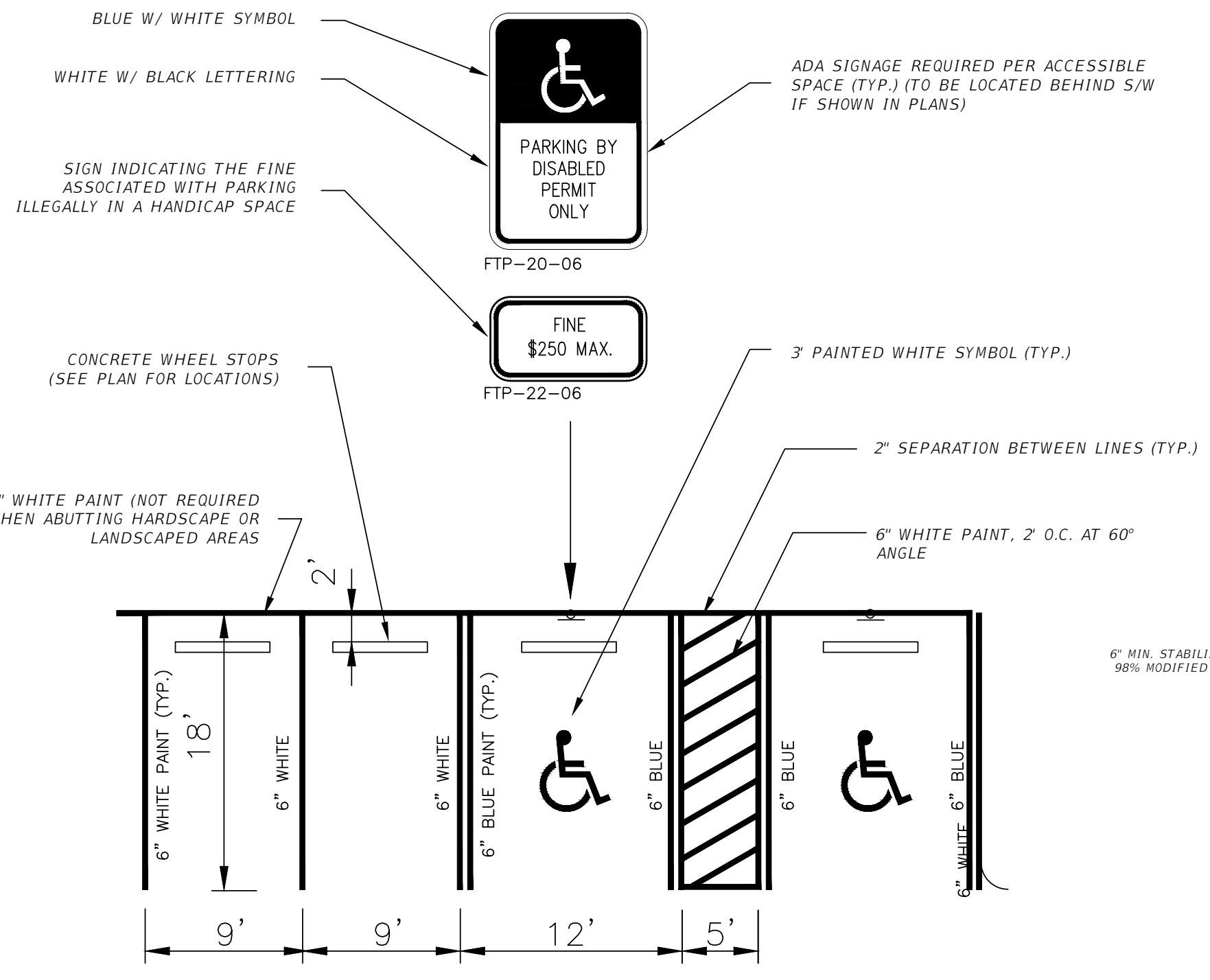




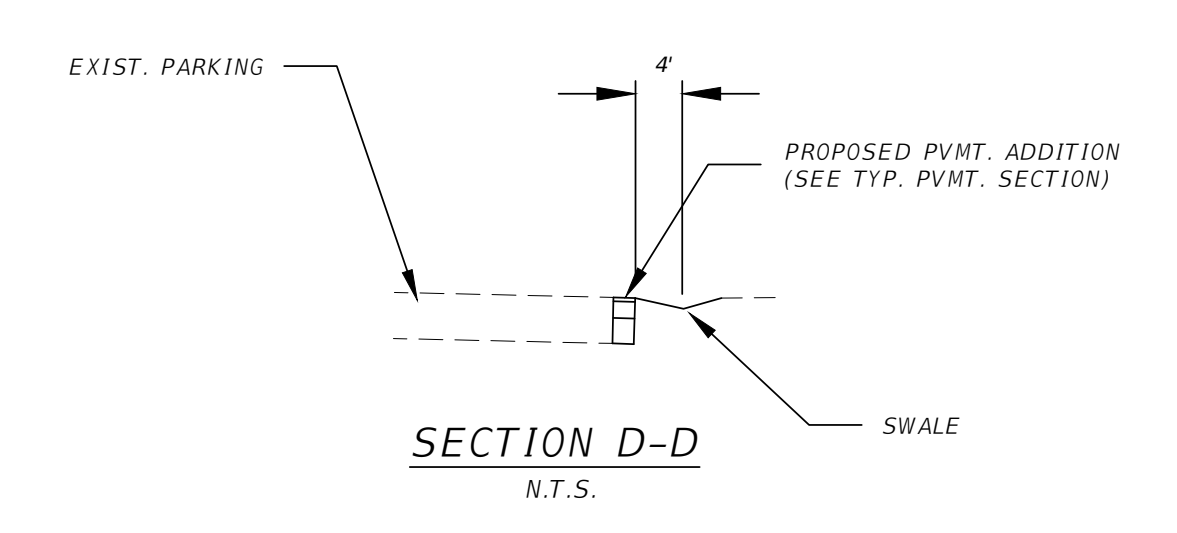
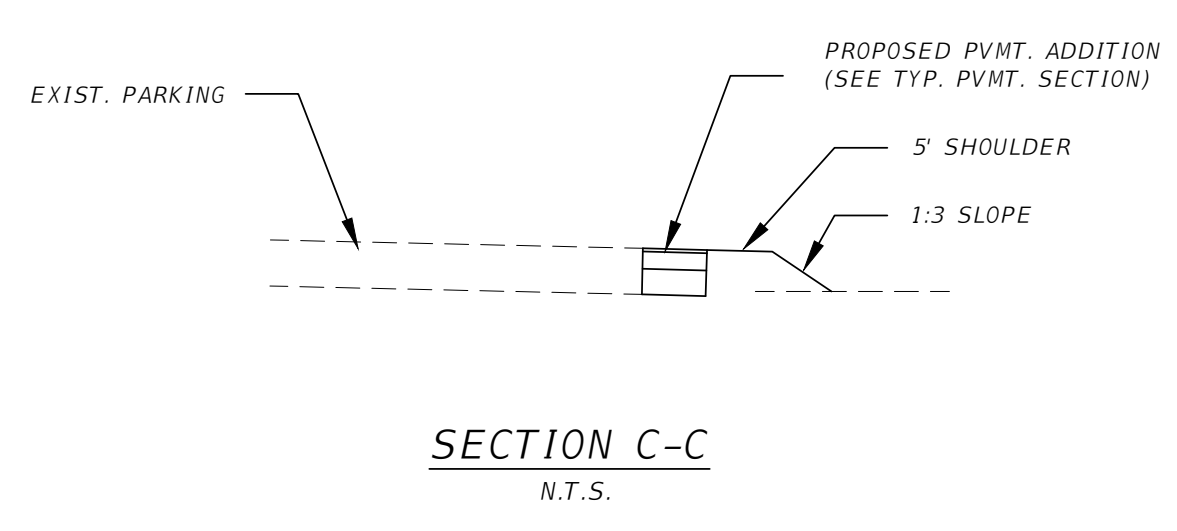
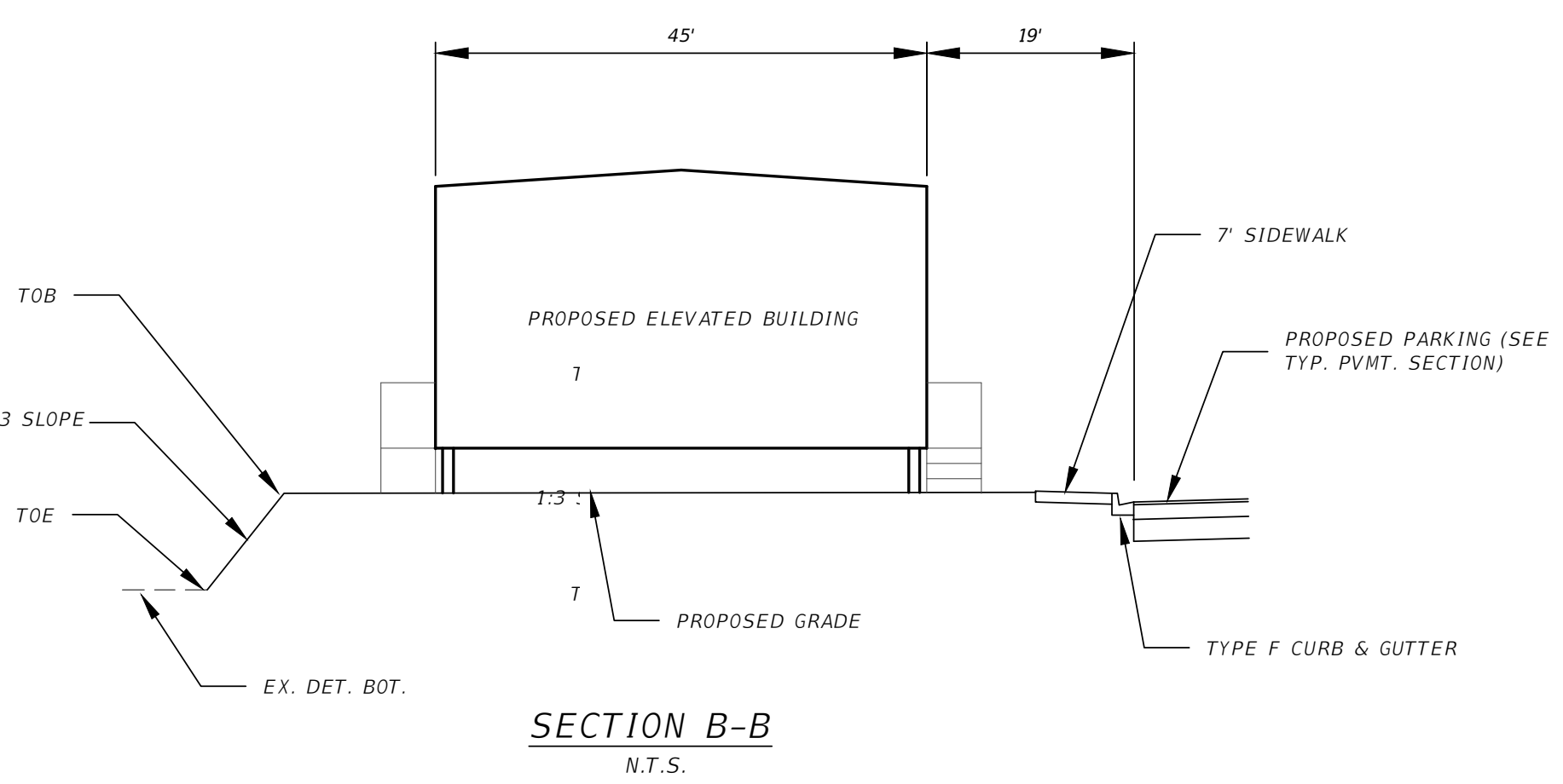
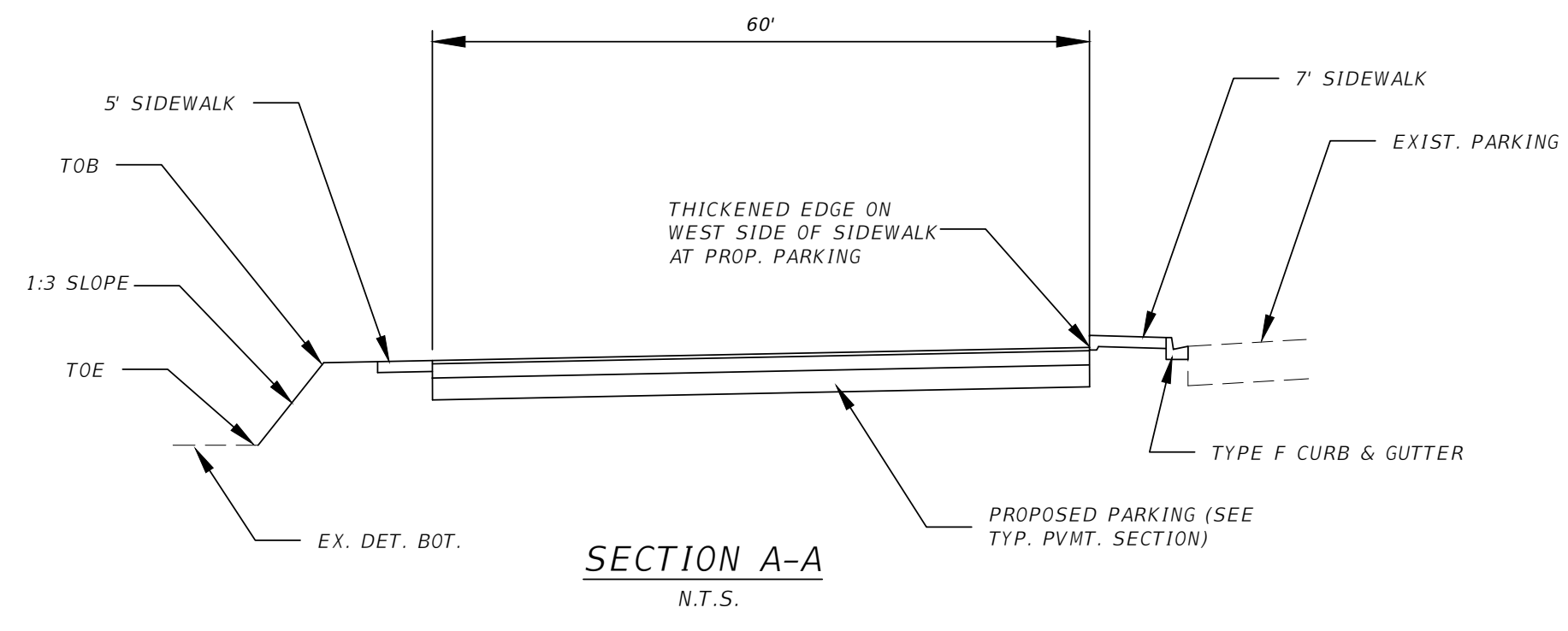
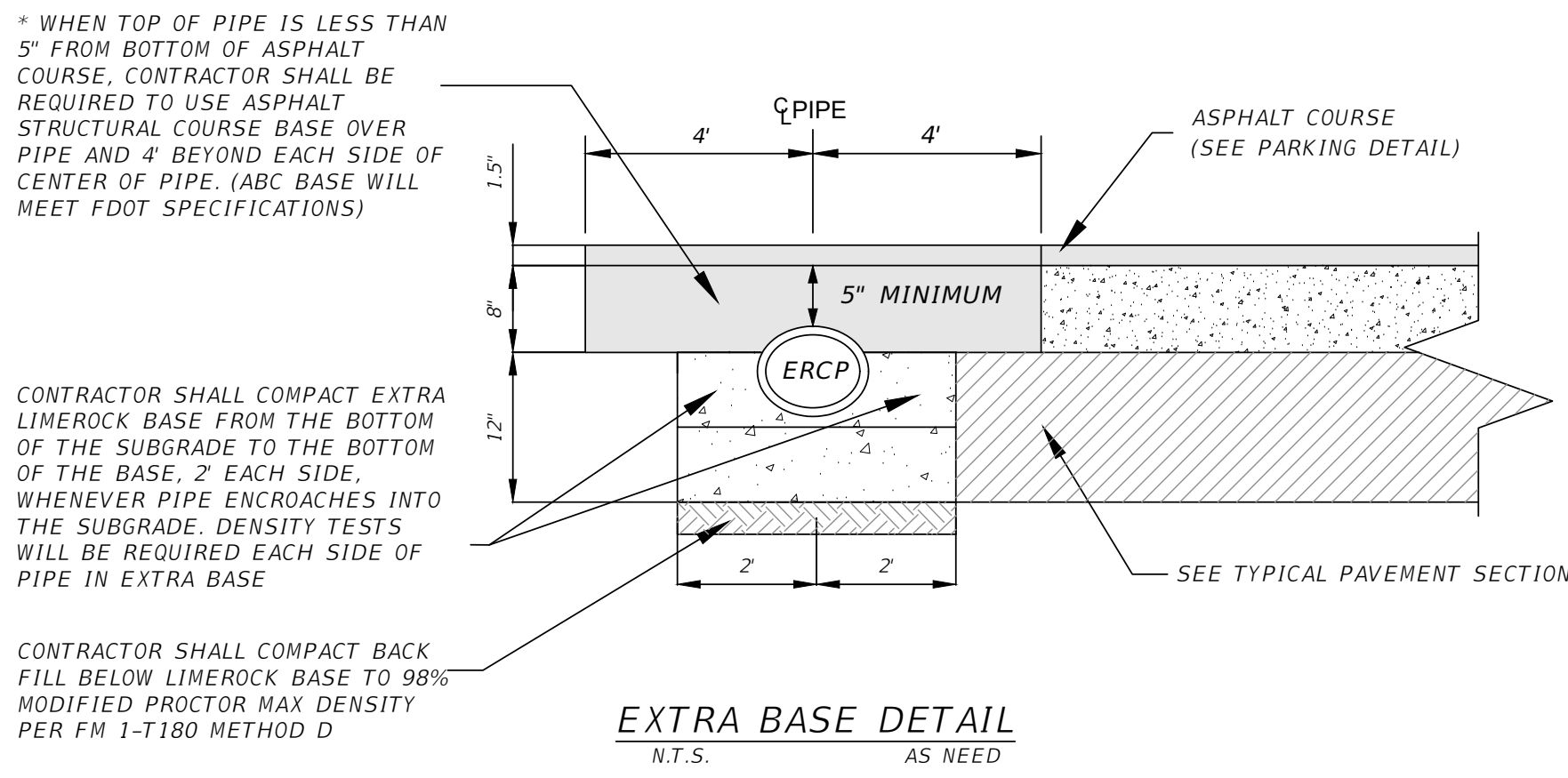
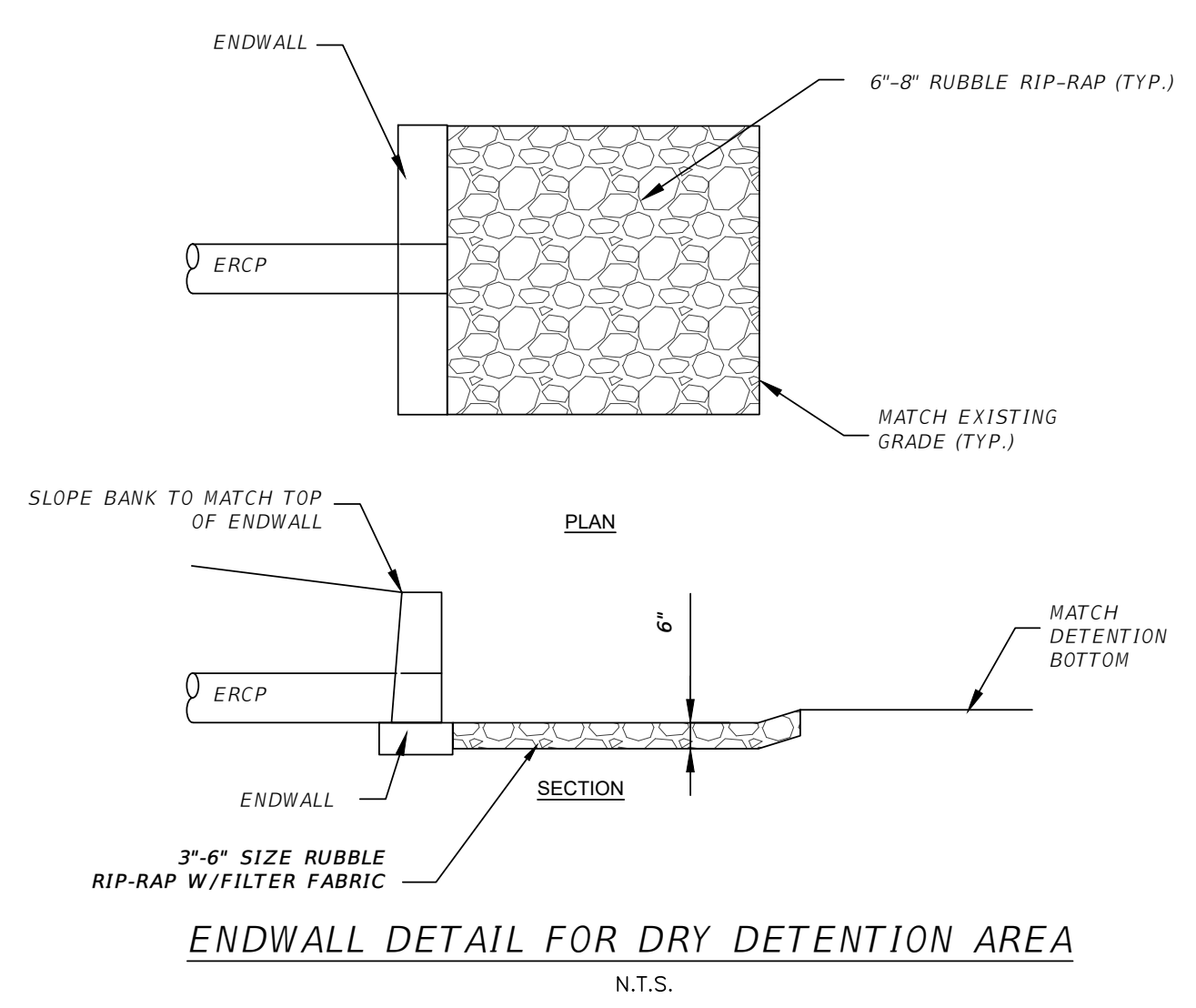




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**NOTES:**  
1. CONTRACTOR MUST SLOPE THE SIDEWALK TO DRAIN TOWARD CATCH BASINS AND CURB & GUTTER WHENEVER POSSIBLE UNLESS OTHERWISE NOTED. (SEE PGD PLAN FOR GRADES)  
2. CONCRETE SPEC. ALSO APPLIES TO MISC. CONCRETE PADS (TRASH, BIKE, BENCH, ETC.) EXCLUSIVE OF CONCRETE SLABS UNDER STRUCTURES THAT ARE SPECIFIED BY OTHERS.  
3. SIDEWALK SHALL HAVE CONTROL JOINTS EVERY 5' W/CONST. JOINTS EVERY 20'



**FORT MYERS**  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901

**Project Name:**  
LEE COUNTY  
SOLID WASTE  
TRANSFER STATION  
EMPLOYEE BUILDING

**Project Address:**  
10450-10550  
BUCKINGHAM ROAD  
FORT MYERS, FL 33905  
**Client/Owner:**  
LEE COUNTY  
PO BOX 398  
FORT MYERS, FL 33902

**Engineer Contact:**  
Kristina Connelly, P.E.  
Project Manager  
Phone: 239-347-5508  
Email: kristina.connelly@stantec.com  
**Project Engineer:**

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STANTEC CONSULTING SERVICES, INC. 1412 JACKSON ST., SUITE 3 FORT MYERS, FL 33901 KRISTINA M. CONNELLY, P.E. No. 54805

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**Revisions:**


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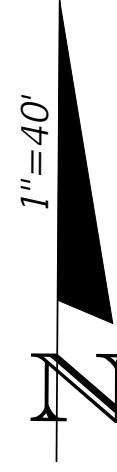
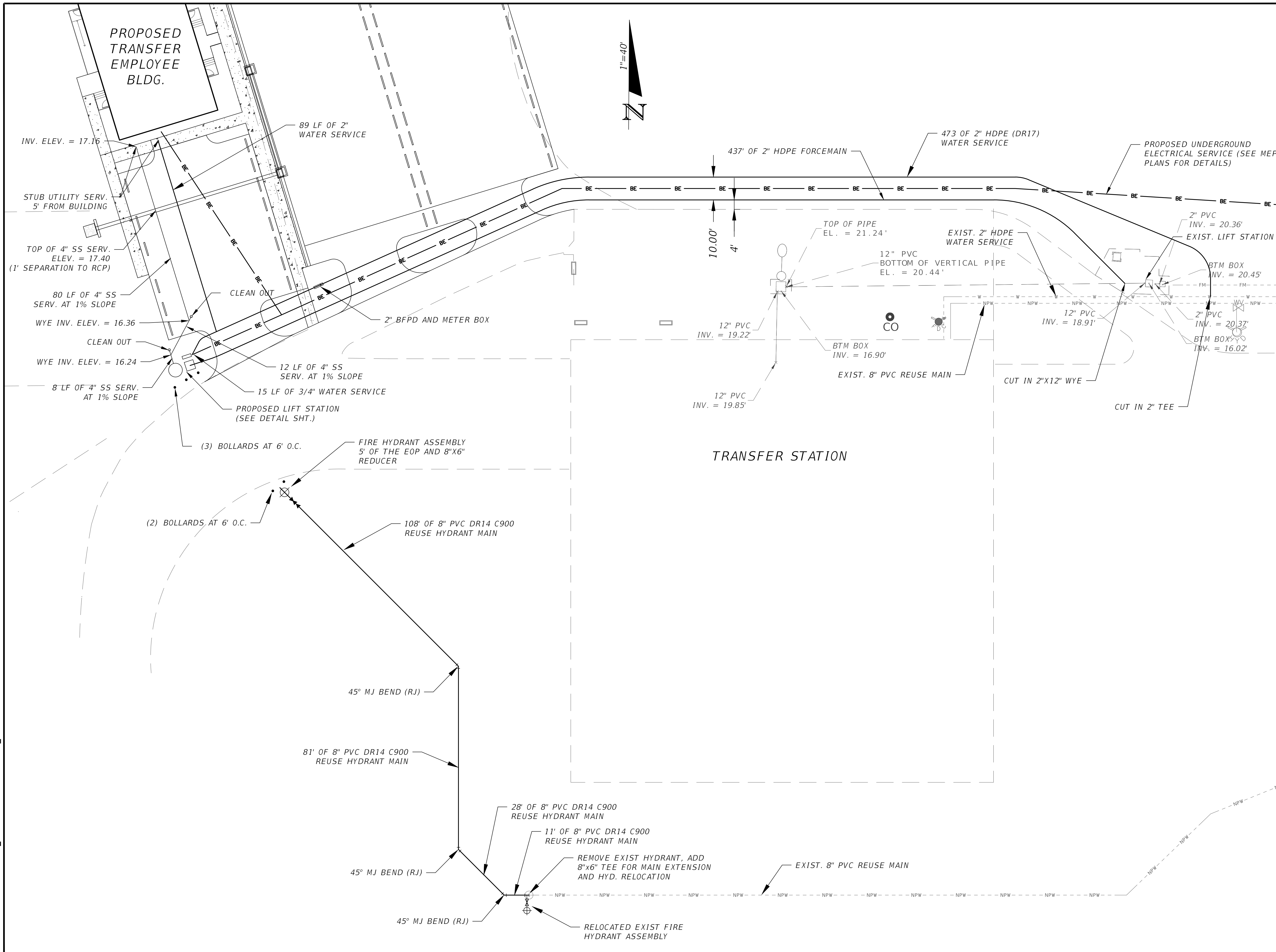
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PROJECT #	2156184
FILE NAME	08-215618410-DTLS.DWG
ORIGIN DATE	01-10-2024
DESIGNER	STS
CADD	STS
CHECKED BY	KC
PLOT DATE	FRI, 8-23-2024 10:33 AM
PLOTTED BY	STUART

**TYPICAL DETAILS AND SECTIONS**

SHEET NO. 08

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**FORT MYERS**

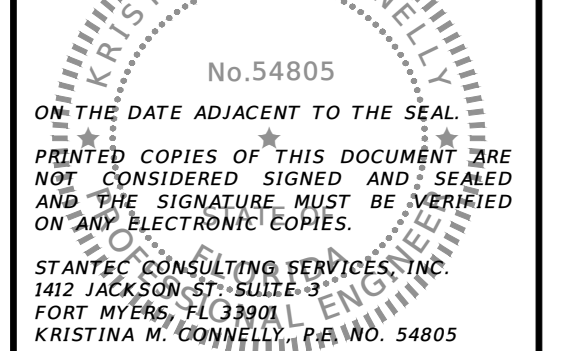
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FORT MYERS, FL 33905  
Client/Owner:  
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PO BOX 398  
FORT MYERS, FL 33902

Engineer Contact:  
Kristina Connelly, P.E.  
Project Manager  
Phone: 239-347-5508  
Email: kristina.connelly@stantec.com  
Project Engineer:

THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY THE ENGINEER



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Revisions:

NO.	DATE	DESCRIPTION
07/10/24		ELECTRICAL SERVICE

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SEC-TWP-RGE SEC 24-TWP 44S-RGE 25E  
PROJECT MGR: DANIEL M. CRAIG  
PROJECT # : 2156184  
FILE NAME : 09-215618410-UTIL.DWG  
ORIGIN DATE : 01-10-2024  
DESIGNER : STS  
CADD : STS  
CHECKED BY : KC  
PLOT DATE : FRI, 8-23-2024-10:33 AM  
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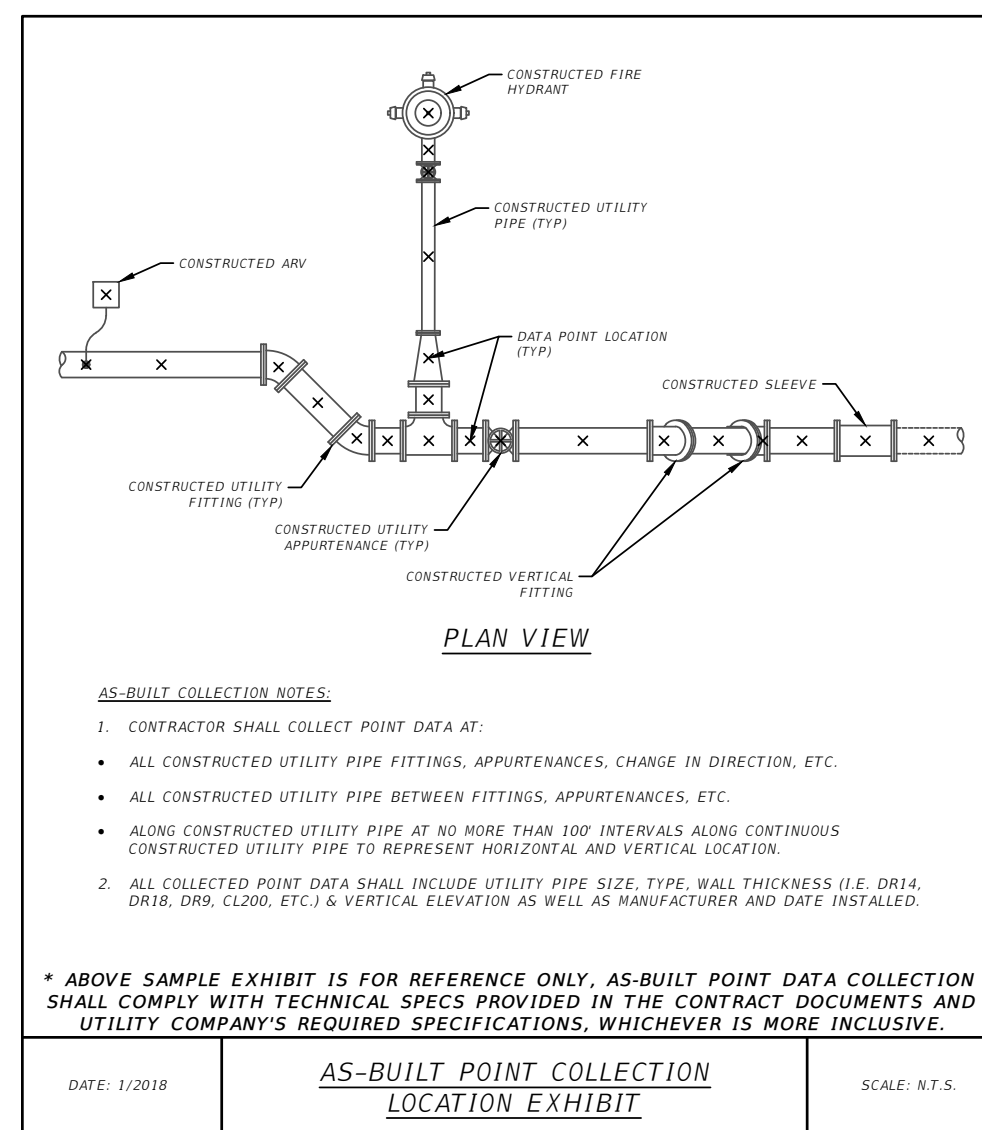
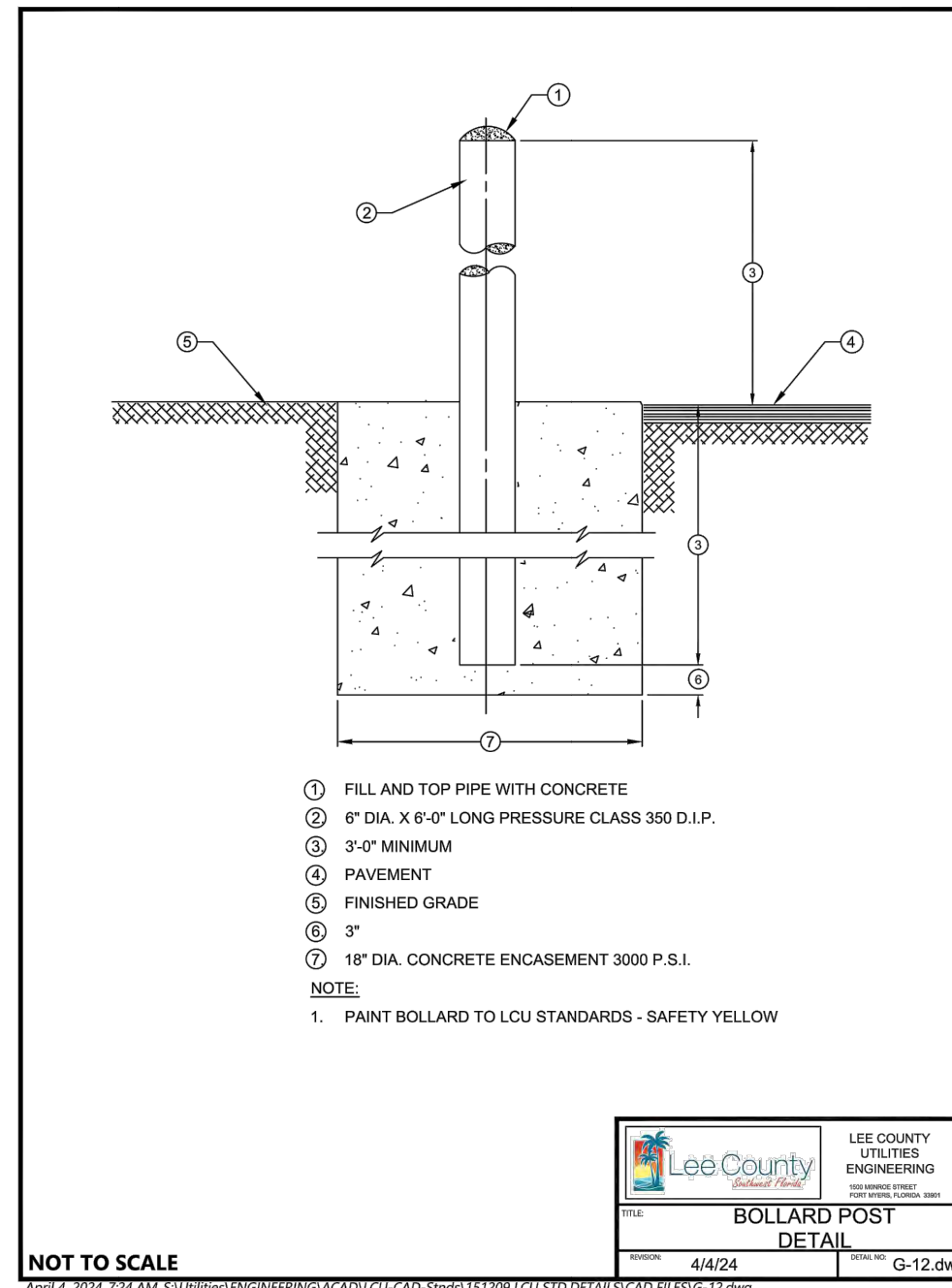
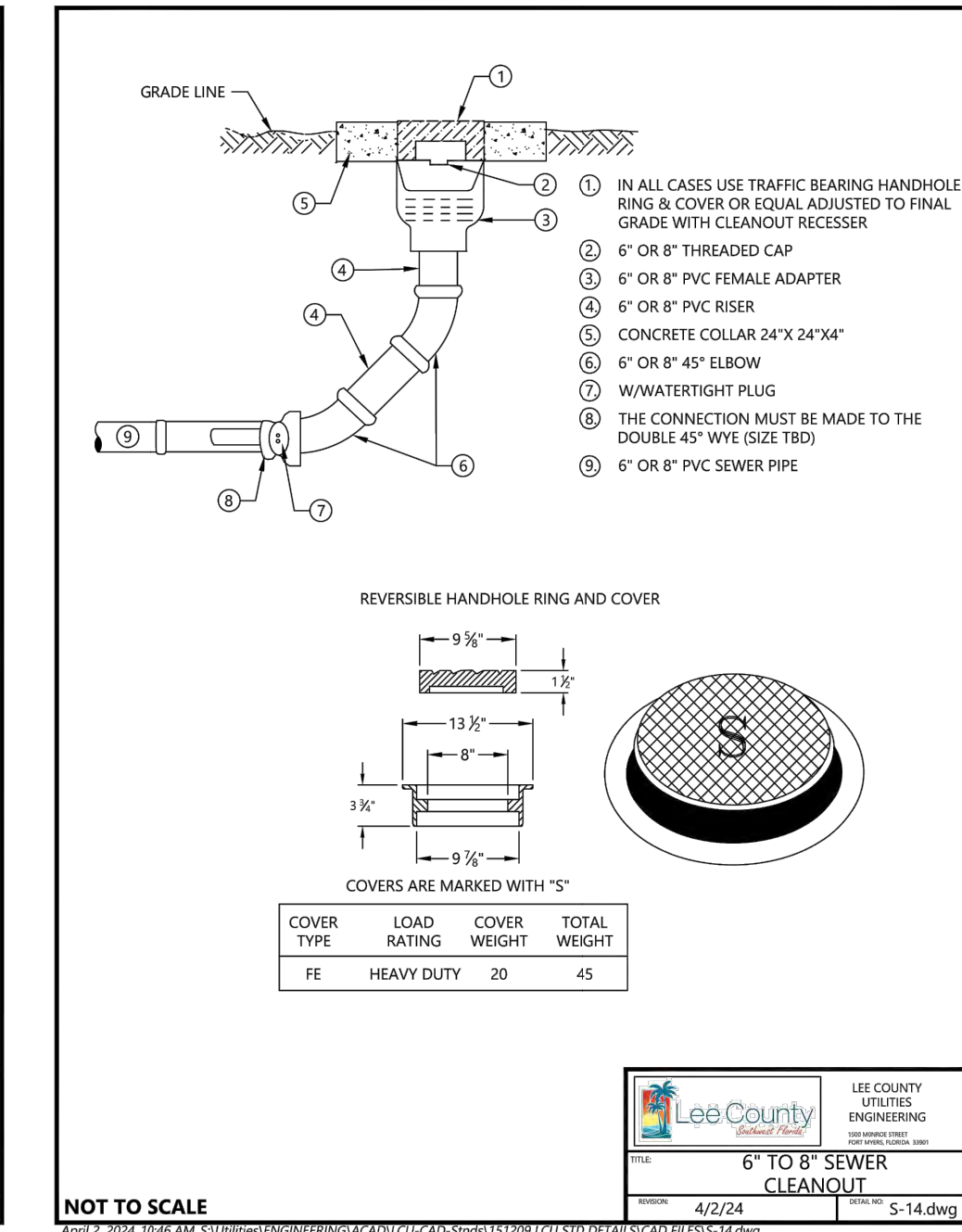
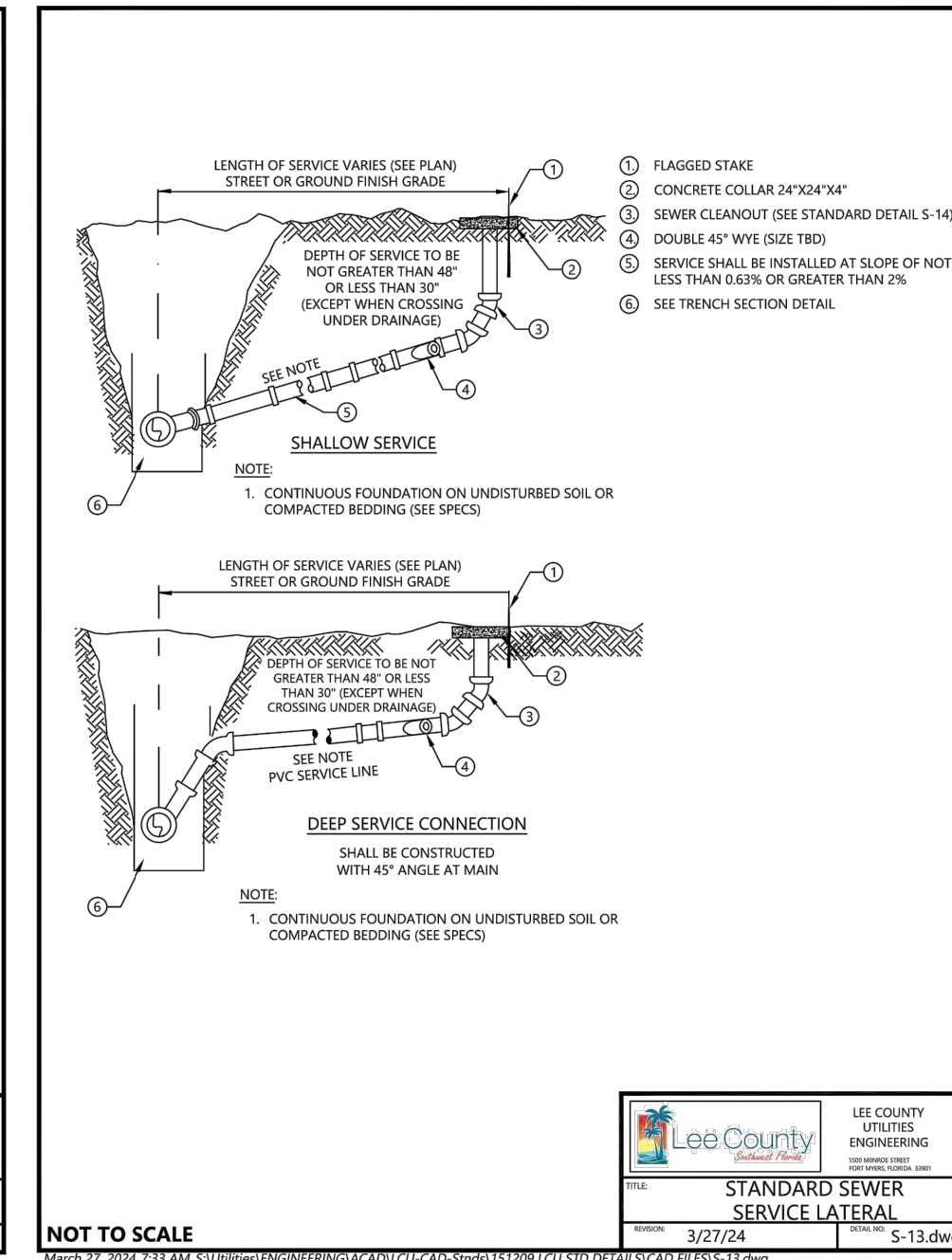
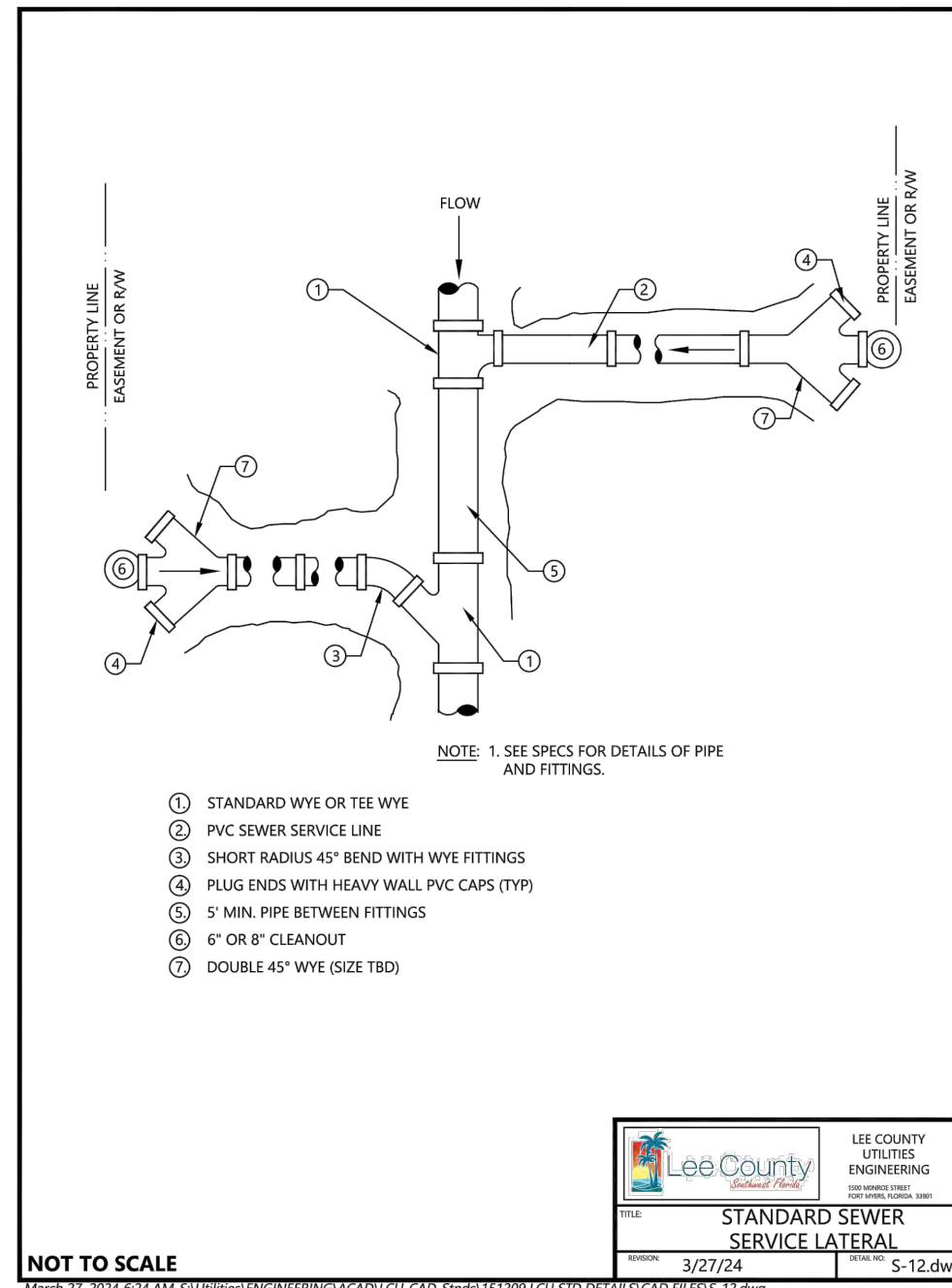
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SHEET NO. 09  
  
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LEE CO. UTILITIES STANDARD PLAN NOTES

THE STANDARD NOTES SHOWN BELOW SHALL BE INCLUDED ON ALL WATER AND SEWER PLANS SUBMITTED FOR APPROVAL TO LEE COUNTY UTILITIES (LCU).

- ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: [HTTPS://WWW.LEEEOV.COM/UTILITIES/DESIGN-MANUAL](https://www.leeegov.com/utilities/design-manual)
- ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.
- ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS THAT MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- ALL CONSTRUCTION WORK PERFORMED MUST BE DONE BY A CONTRACTOR LICENSED IN THE STATE OF FLORIDA TO DO THE WORK INTENDED.
- A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. REQUIRED ATTENDEES INCLUDE BUT ARE NOT LIMITED TO: THE ENGINEER OF RECORD OR HIS DESIGNEE, THE UNDERGROUND CONTRACTOR AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- ONE COPY OF THE LCU APPROVED/STAMPED CONSTRUCTION PLANS, ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND TECHNICAL DOCUMENTS SUBMITTED MUST BE KEPT AT THE SITE AND MAINTAINED IN GOOD ORDER.
- ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
- LCU INSPECTION STAFF IS TO BE PRESENT FOR ALL HOT TAPS, PRESSURE TESTS, LIFT STATION START-UPS AND FOR ANY NECESSARY INSPECTION. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO (2) WORKING DAYS NOTICE PRIOR TO SCHEDULING ANY OF THE ABOVE WITH THE EXCEPTION OF THE LIFT STATION START-UP WHICH REQUIRES ONE-WEEK NOTICE.
- TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.
- THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST TWO (2) WORKING DAYS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES, FDOT AND LCDOT PRIOR TO CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY OCCUR DUE TO HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.
- ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND LCU.
- THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
- WITHIN THE FDOT AND LCDOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.
- ALL FRAMES, COVERS VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS WILL BE ALLOWED.
- APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT.
- CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
- LCU REQUIRES 30" OF COVER FOR ALL UNDERGROUND PIPING EXCEPT UNDER PAVEMENT, WHERE 36" OF COVER IS REQUIRED. IF LCU REQUIRED COVER CANNOT BE MAINTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHODS OF CONSTRUCTION OR PIPE PROTECTION, WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY. IF STATE AGENCIES REQUIRE ADDITIONAL COVER, MEETING THE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE COUNTY.
- LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. LCU ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.
- LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE INFRASTRUCTURE, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.
- THE ROOT BALL OF PALM TREES SHALL BE A MINIMUM OF FIVE (5) FEET AND THE ROOT BALL OF SHADE TREES SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXISTING OR PROPOSED LCU OWNED AND MAINTAINED PIPE/INFRASTRUCTURE.
- AS THE WORK PROGRESSES THE CONTRACTOR SHALL RECORD ALL CHANGES AND DEVIATIONS FROM THE LCU STAMPED/APPROVED CONSTRUCTION PLANS. IN ADDITION, HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT WITH COORDINATES WITH RESPECT TO THE NAVD 1988 STATE PLANE FLORIDA WEST COORDINATE SYSTEM AS WELL AS ALL REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL. THIS INFORMATION IS TO BE FORWARDED TO THE ENGINEER OF RECORD WHO PREPARED, SIGNED AND SEALED THE APPROVED CONSTRUCTION PLANS SO THAT HE CAN PREPARE 'RECORD DRAWINGS' PER THE REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL.



FORT MYERS  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901

Project Name:

LEE COUNTY  
SOLID WASTE  
TRANSFER STATION  
EMPLOYEE BUILDING

Project Address:

10450-10550  
BUCKINGHAM ROAD  
FORT MYERS, FL 33905

Client/Owner:

LEE COUNTY  
PO BOX 398  
FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.  
Project Manager  
Phone: 239-347-5508  
Email: kristina.connelly@stantec.com

Project Engineer:

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FORT MYERS, FL 33901  
KRISTINA M. CONNELLY, P.E. NO. 54805

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Revisions:

SITE DATA:

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PROJECT MGR: DANIEL M. CRAIG  
PROJECT # : 2156184  
FILE NAME : 10-21566184-10-UTIL-DTLS.DWG  
ORIGIN DATE : 01-10-2024  
DESIGNER : STS  
CADD : STS  
CHECKED BY : KC  
PLOT DATE : FRI, 8-23-2024-10:33 AM  
PLOTTED BY : STS/UART

SHEET TITLE:

UTILITY  
DETAILS

SHEET NO. 10

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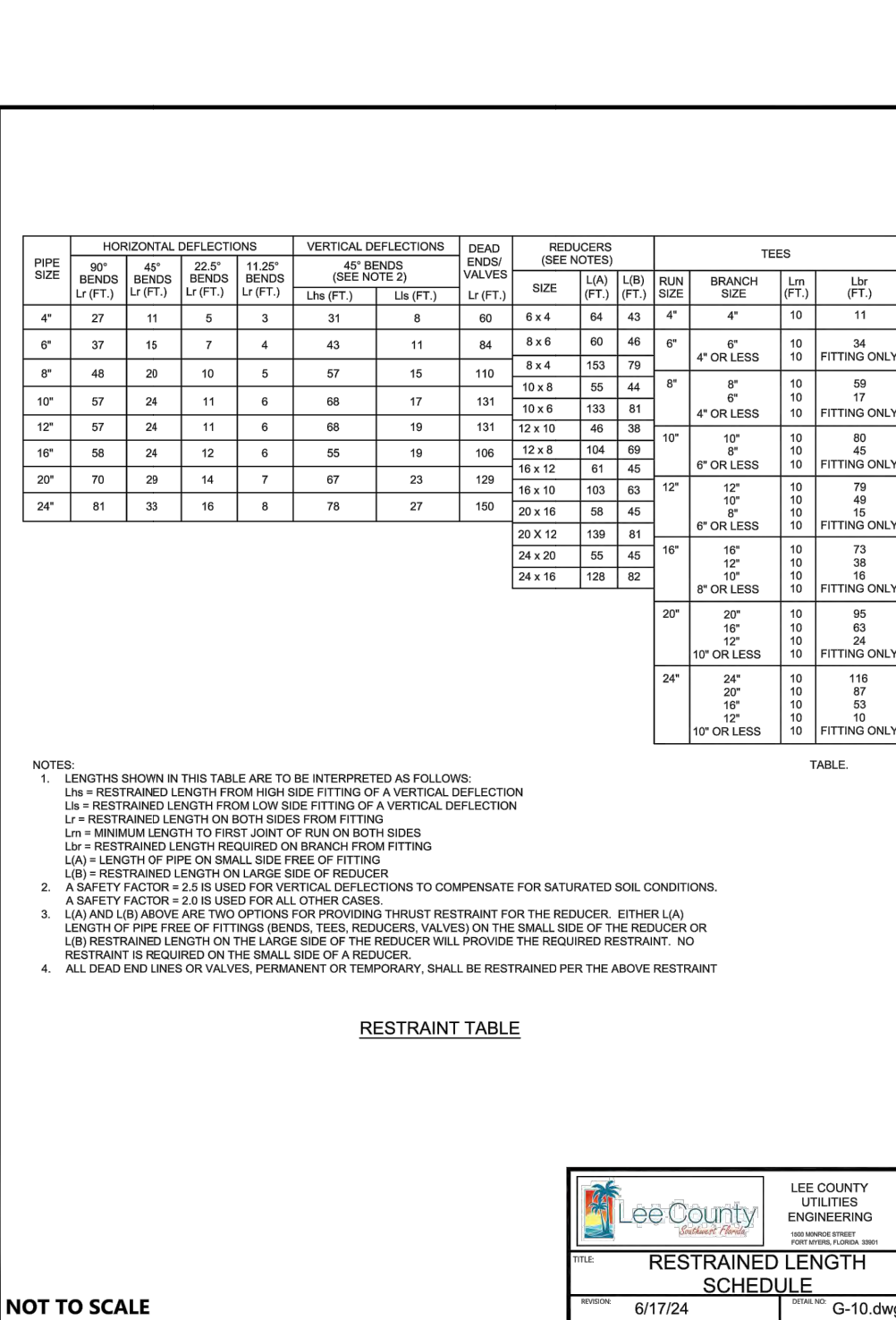
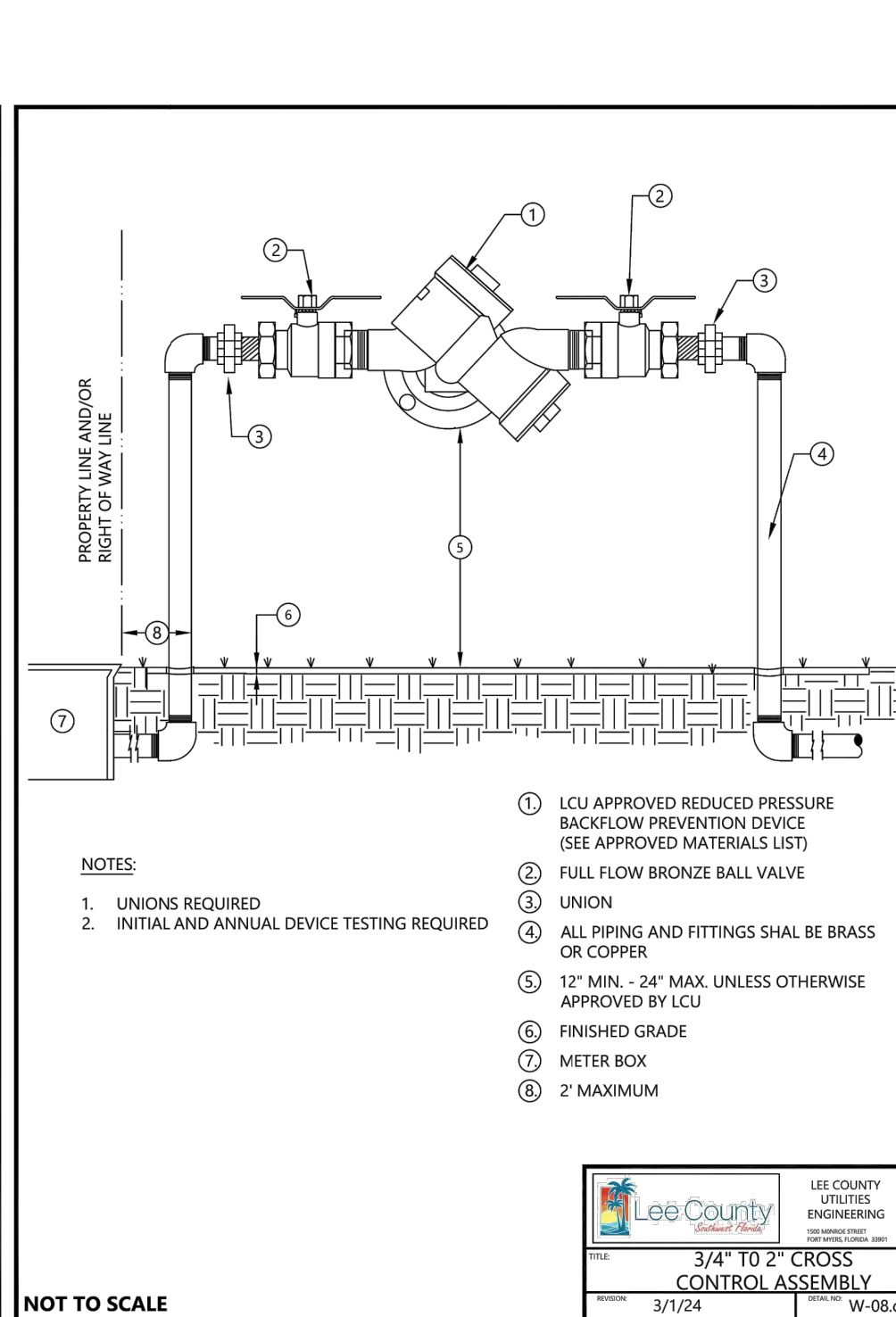
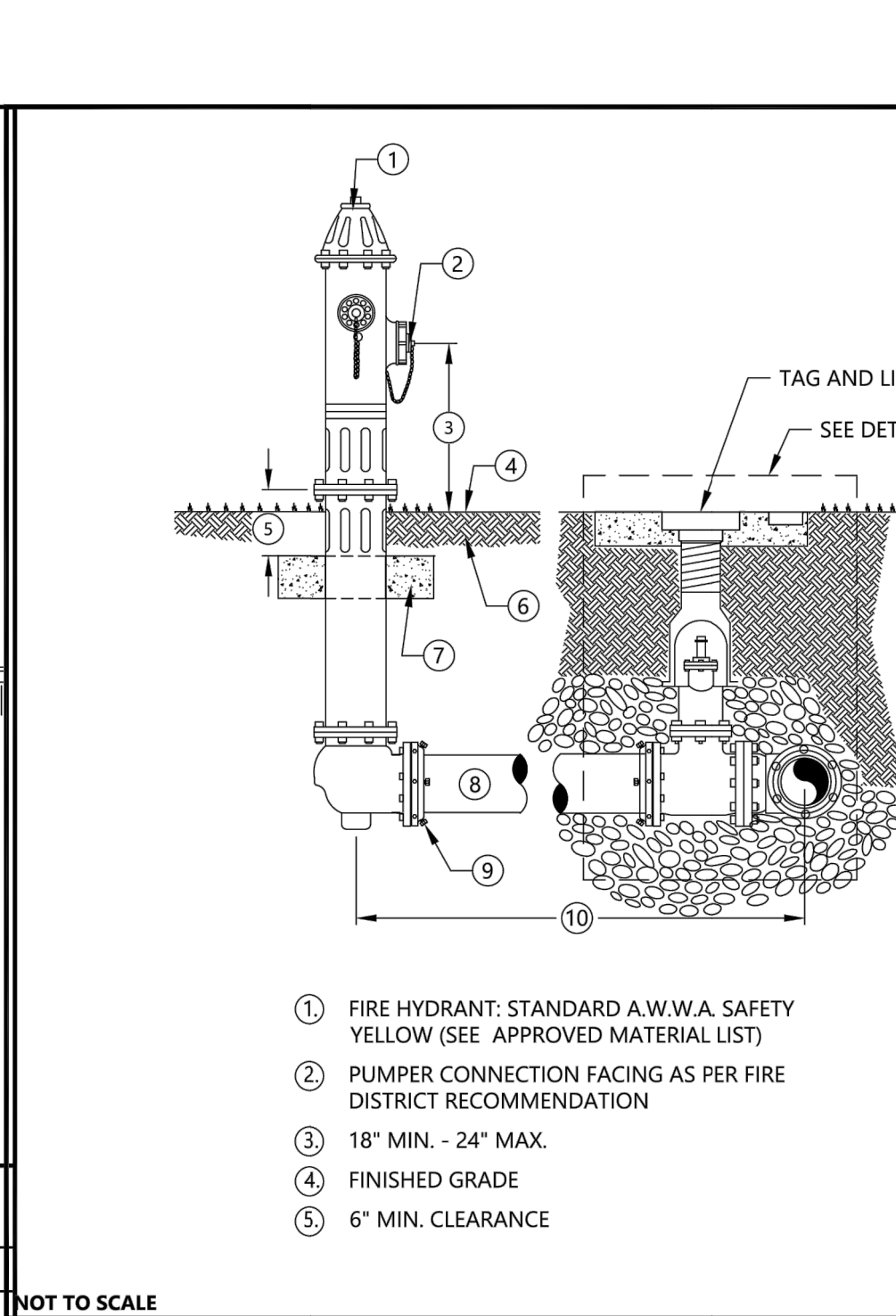
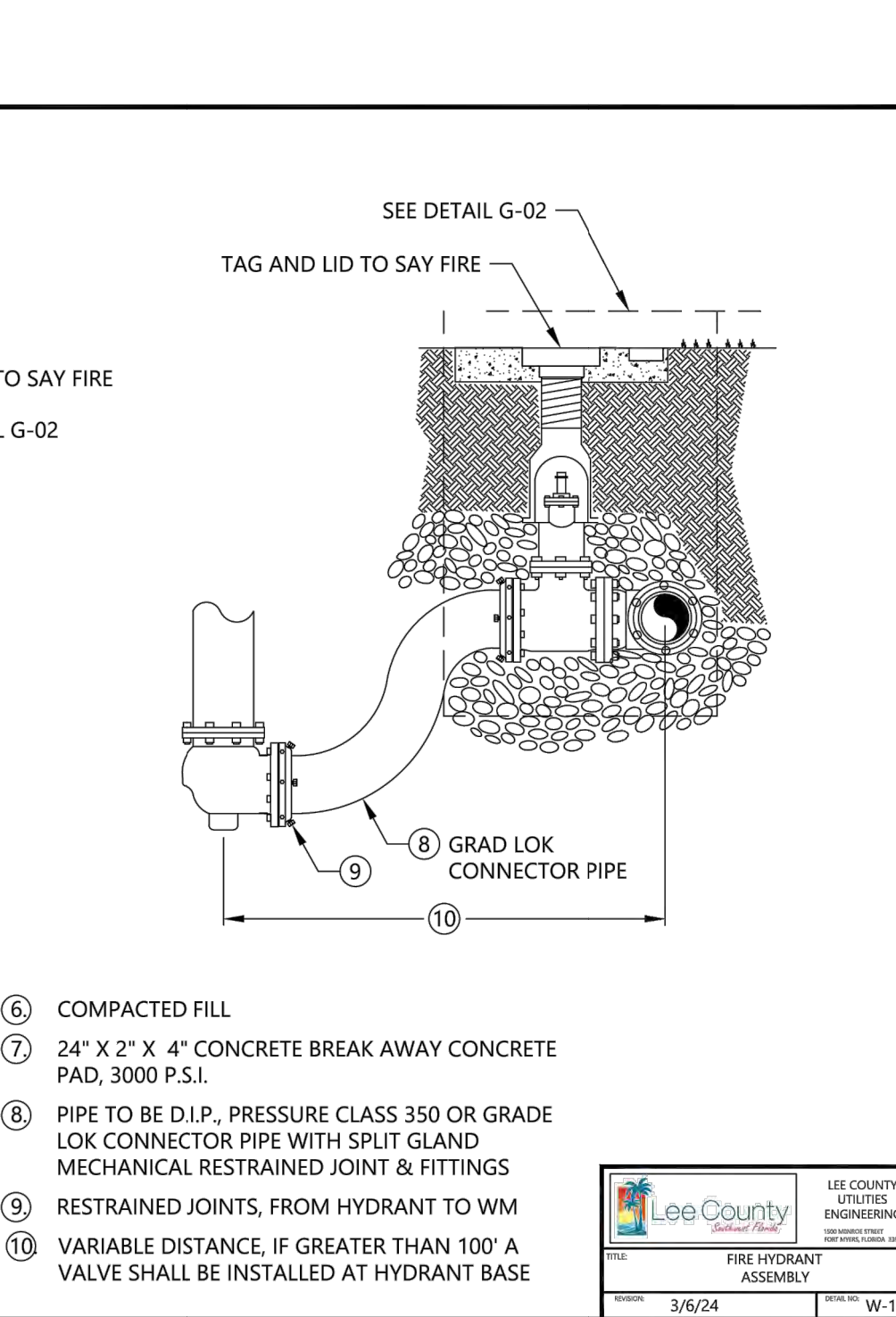
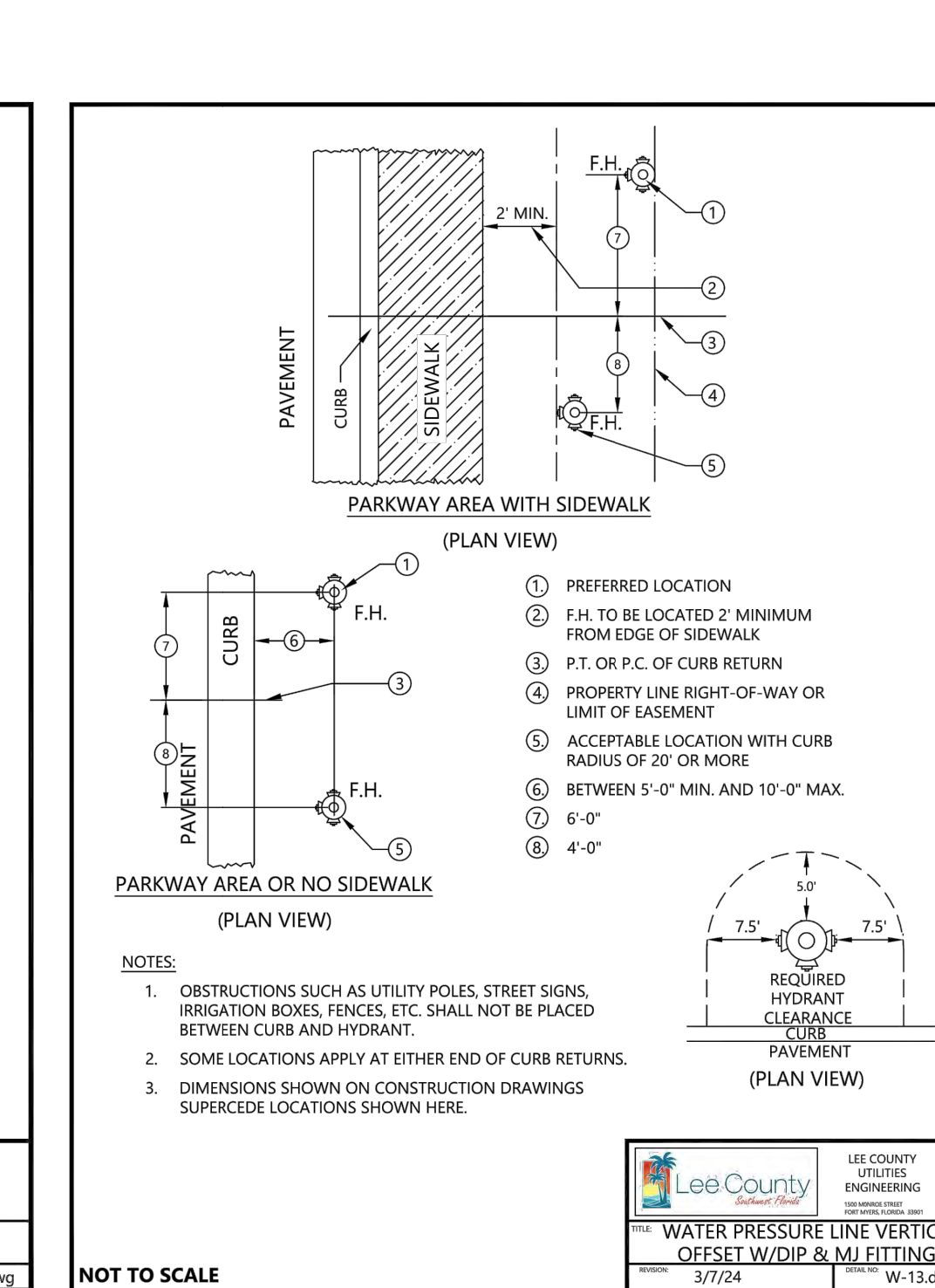
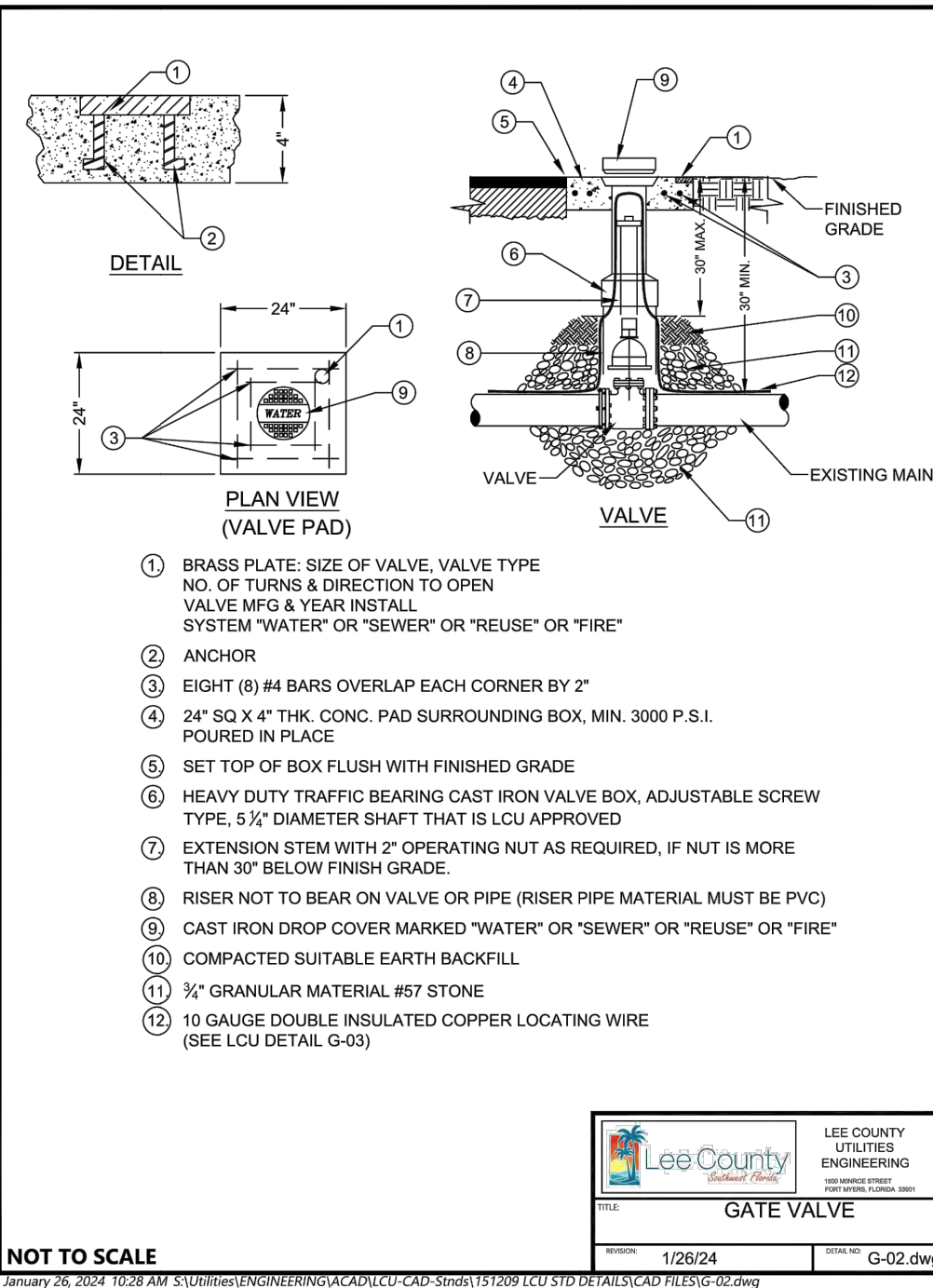
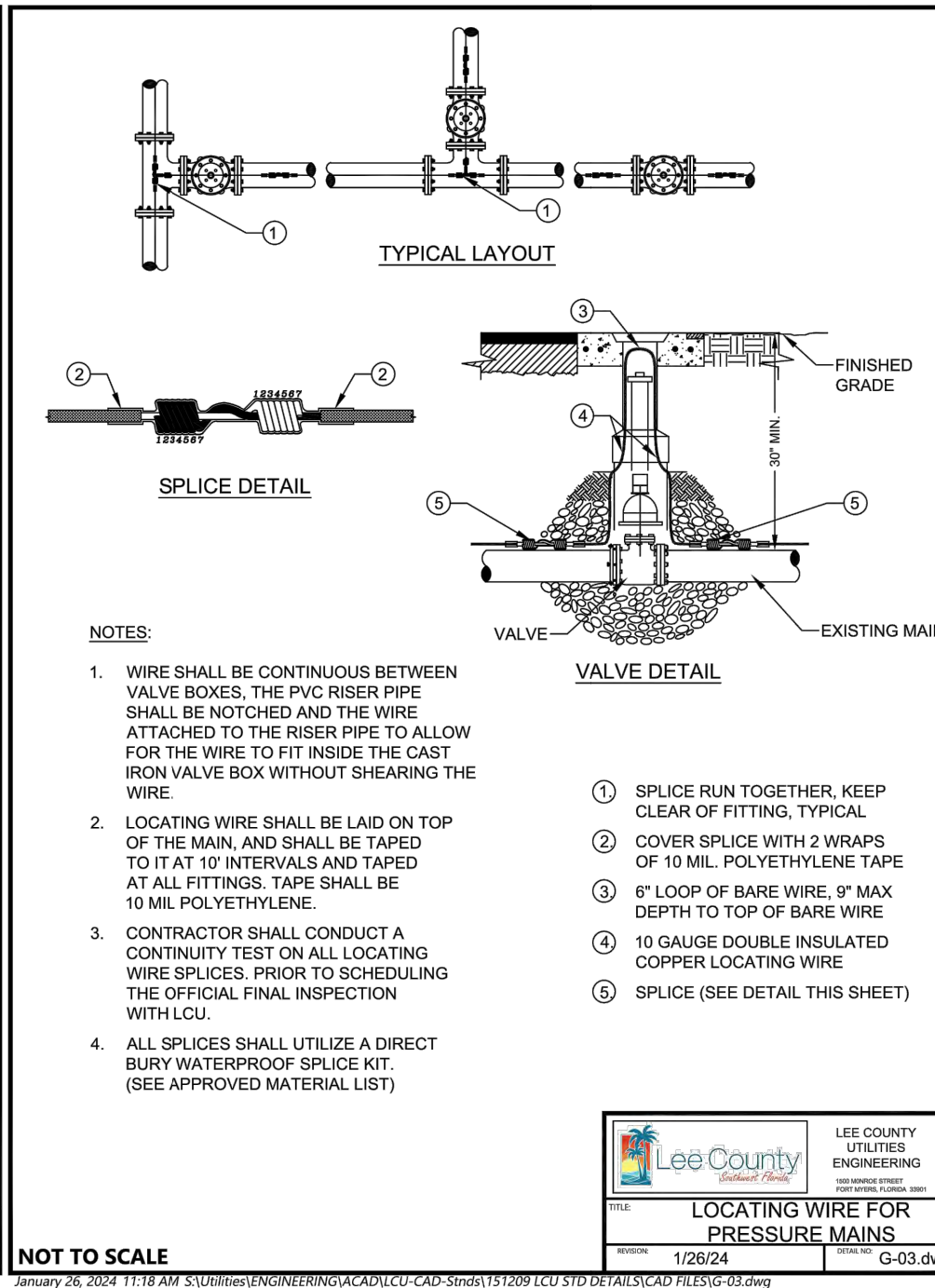
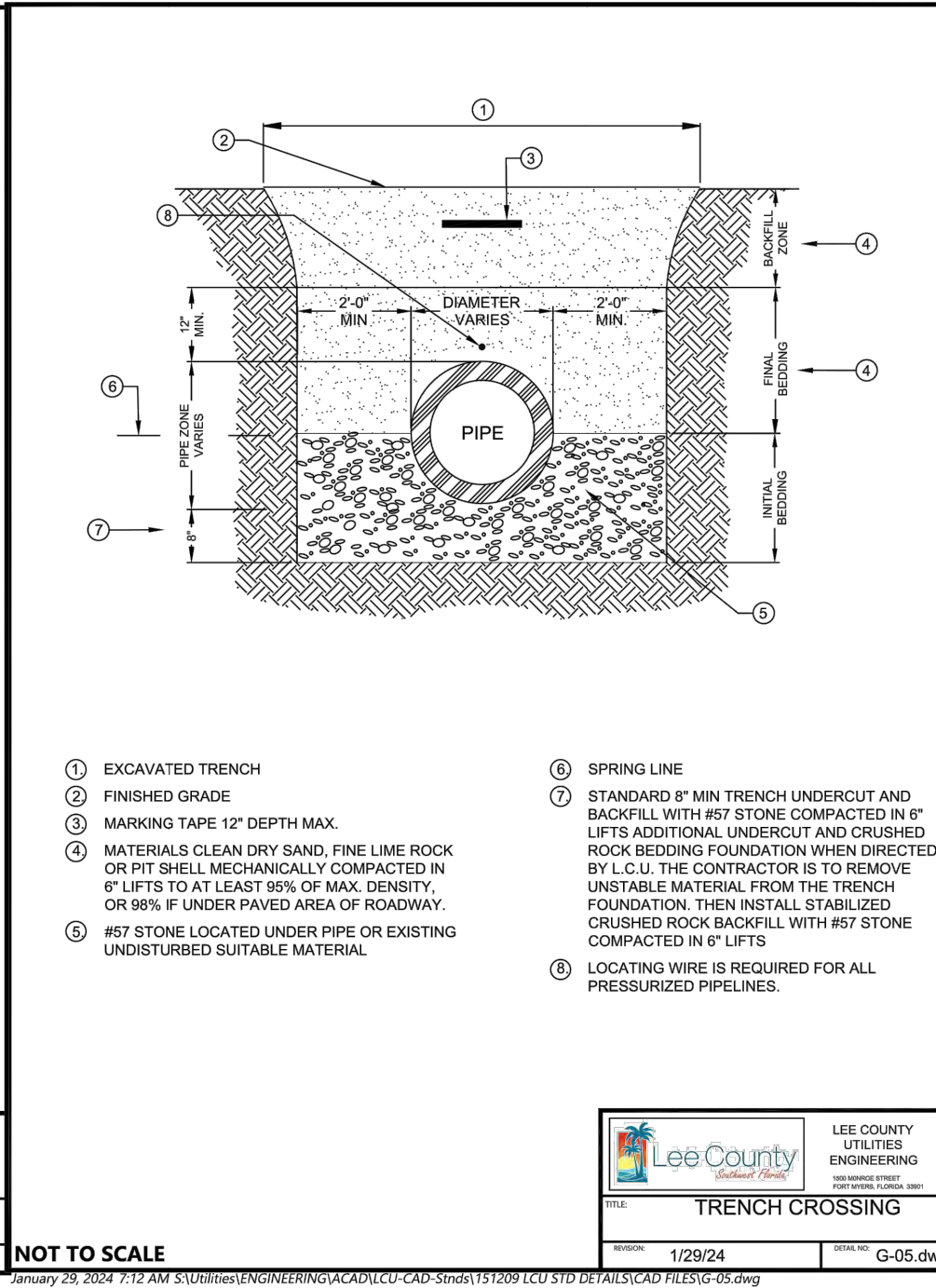
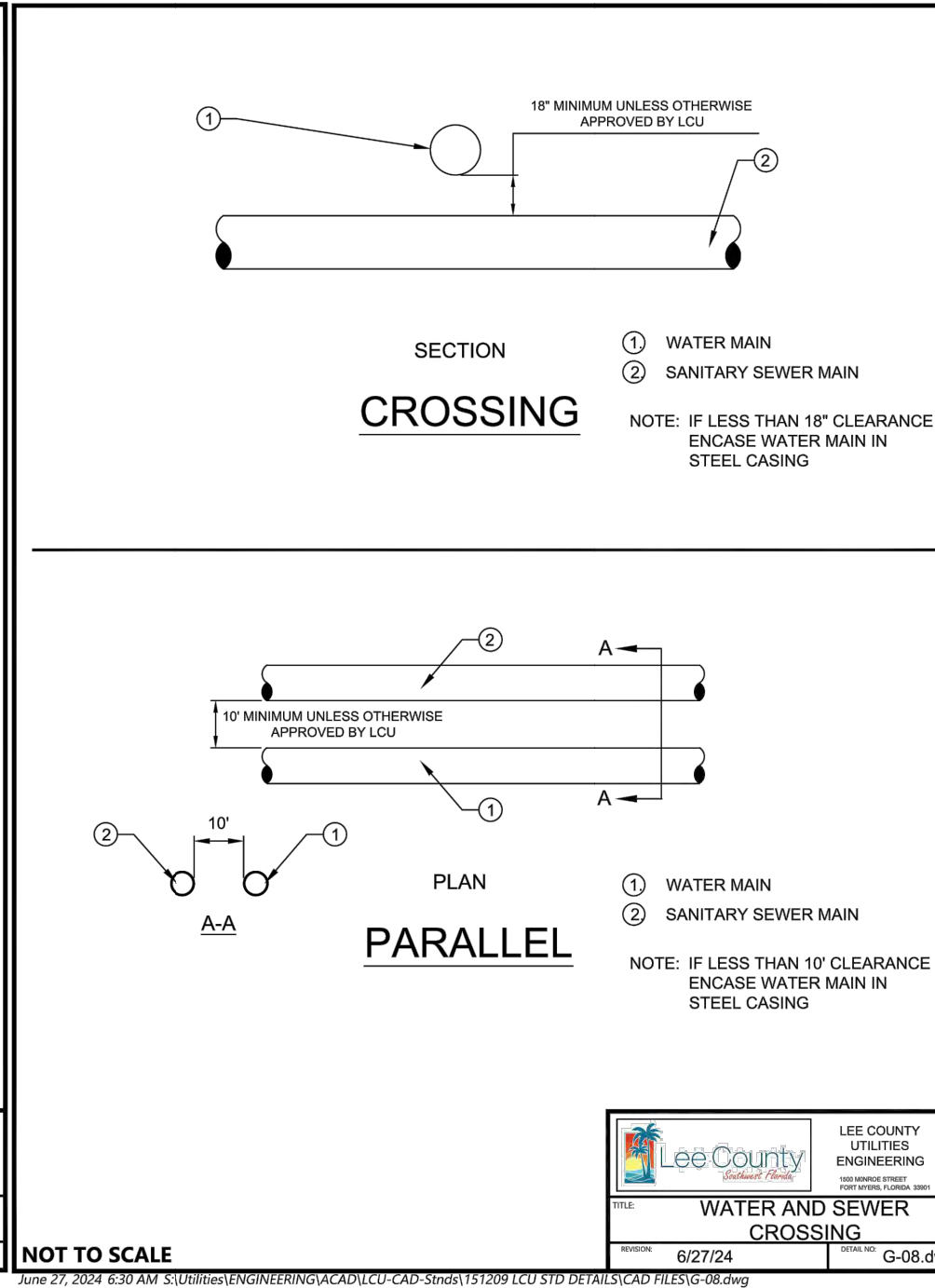
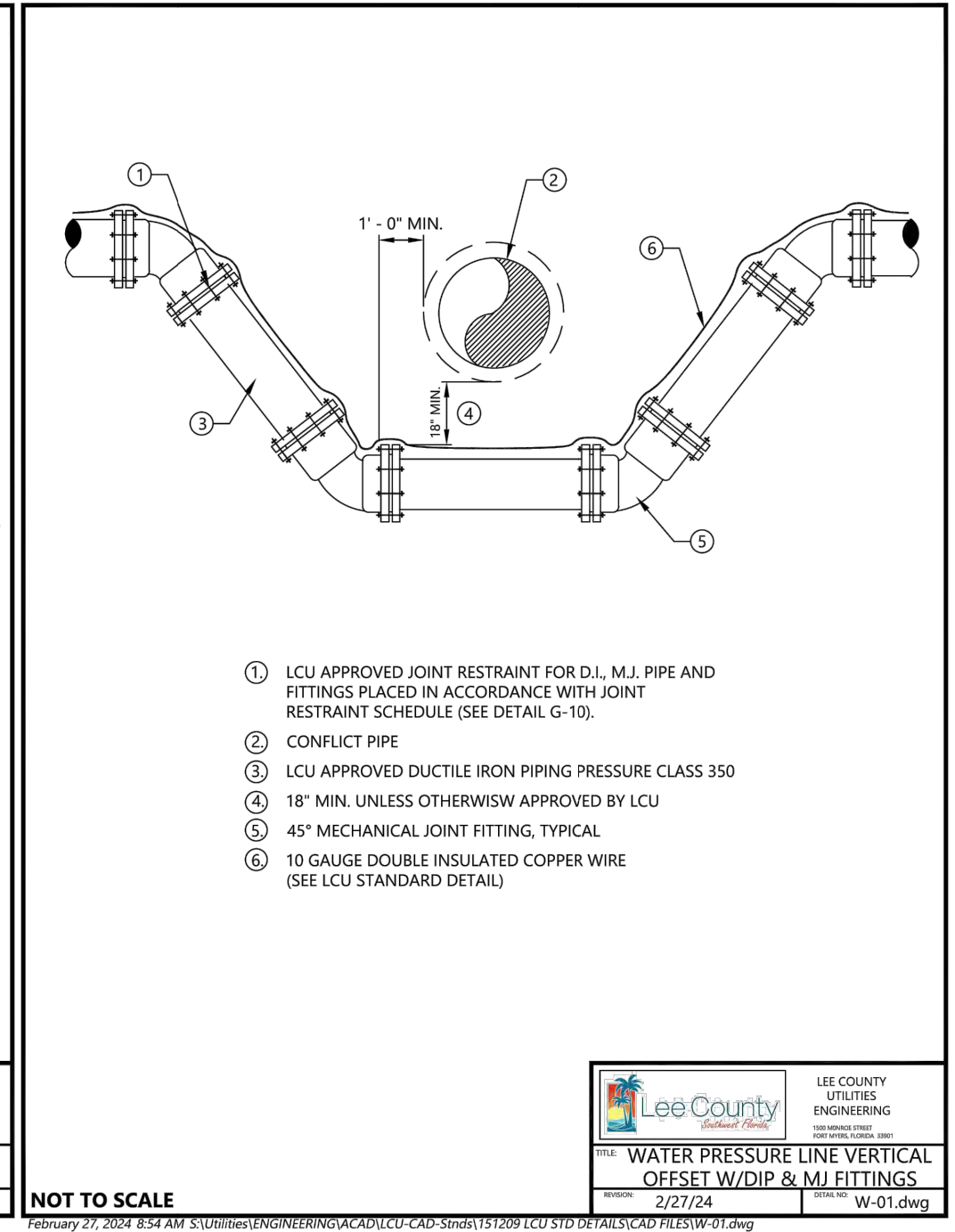


Table with columns for Pipe Size, Horizontal Deflection, Vertical Deflection, Dead End Valves, and Tees. Includes notes on length restrictions.

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Table with columns for Pipe Size, Horizontal Deflection, Vertical Deflection, Dead End Valves, and Tees. Includes notes on length restrictions.



# FORT MYERS

1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901

### Project Name:

**LEE COUNTY  
SOLID WASTE  
TRANSFER STATION  
EMPLOYEE BUILDING**

### Project Address:

10450-10550  
BUCKINGHAM ROAD  
FORT MYERS, FL 33905

### Client/Owner:

LEE COUNTY  
PO BOX 398  
FORT MYERS, FL 33902

### Engineer Contact:

Kristina Connelly, P.E.  
Project Manager  
Phone: 239-347-5508  
Email: kristina.connelly@stantec.com

### Project Engineer:

THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY THE FOLLOWING:

**KRISTINA M. CONNELLY**  
No. 54805  
**ON THE DATE ADJACENT TO THE SEAL**  
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STANTEC CONSULTING SERVICES, INC.  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901  
KRISTINA M. CONNELLY, P.E. NO. 54805

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CARDNO, INC. 0/204.

### Revisions:

NO.	DATE	DESCRIPTION

### SITE DATA:

STRAP #  
SEC-TWP-RGE SEC 24-TWP 44S-RGE 25E  
PROJECT MGR: DANIEL M. CRAIG  
PROJECT # : 2156184  
FILE NAME : 12-215618410-LS-DTLS.DWG  
ORIGIN DATE : 01-10-2024  
DESIGNER : STS  
CADD : STS  
CHECKED BY : KC  
PLOT DATE : FRI 8-23-2024 10:34 AM  
PLOTTED BY : SJUWAT

### SHEET TITLE:

## LIFT STATION DETAILS

### SHEET NO. 12

### BID SET

## GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

### DESIGN CONDITION:

MODEL	32 DGFM	2	HP
GPM	21	19.5	FT/TDH
VOLTAGE	240	1	PHASE
DISCHARGE	1.25"	95 MM	IMPELLER

SEWAGE GRINDER PUMP: RATED FOR TWENTY (20) STARTS PER HOUR.

- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

**FIBERGLASS WET WELL:** SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

**ALUMINUM HATCH:** TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

**VALVE BOX:** FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

**ACCESSORIES:** #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

**VALVES:** SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

**PIPING:** 1-1/4" SCHEDULE 80 PVC.

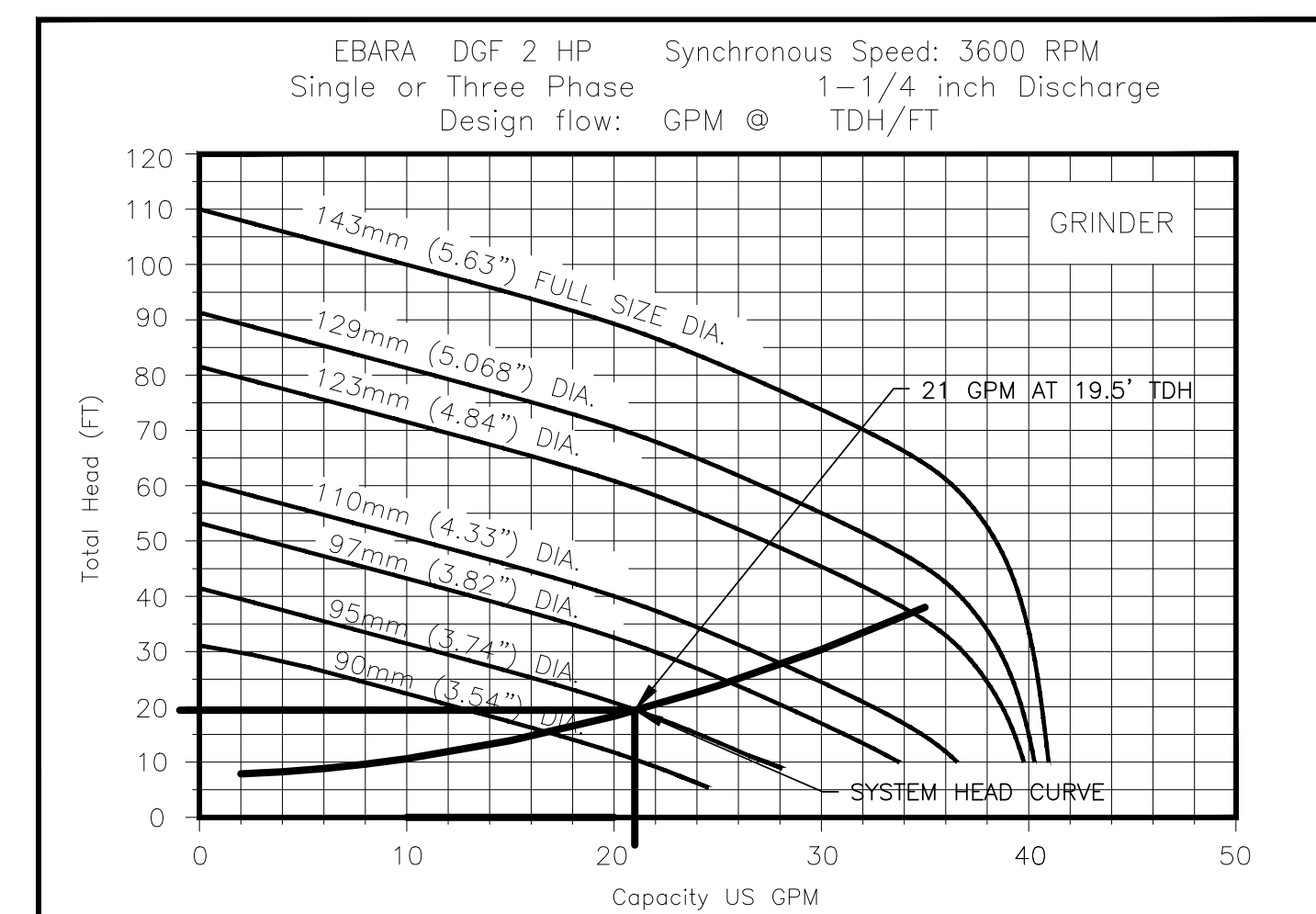
**FLOAT SWITCHES:** UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

## Ebara Submersible Pumps



## PUMP PERFORMANCE CURVE

SEE PLANS PREPARED BY ----- FOR  
PANEL MOUNTING AND ELECTRICAL  
DESIGN SPECIFICATIONS

48" DUPLEX GRINDER STATION-1.25"  
PIPING W/ SLIDE RAIL SYSTEM, V/BOX  
AND F.D.E.P. PANEL TSCE2-48.3 R9

TSC DUPLEX GRINDER PUMP STATION  
FIBERGLASS WET WELL

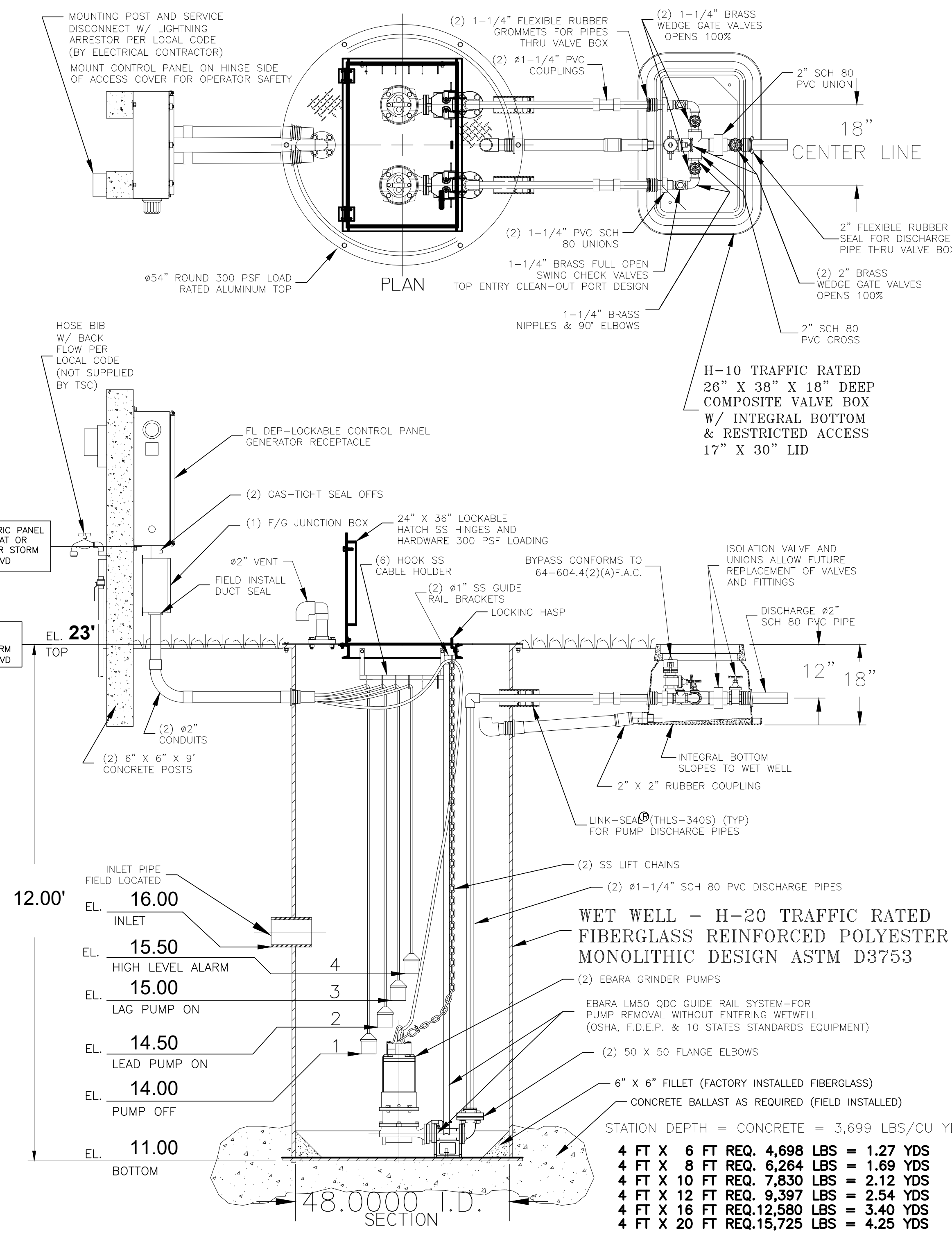
**TECHNICAL SALES  
CORPORATION**

TSC PRE-FAB PUMP SOLUTIONS®

WATERWORKS & WASTEWATER SPECIALTIES

Representing Innovative Manufacturers  
MODEL TSCE2-48.3

4621 N. HALE AVENUE PH (813)876-9256  
TAMPA, FL 33614 FAX (813)874-1194  
EMAIL: Sales@TSCtampa.com  
REV-9 SCALE: N.T.S.



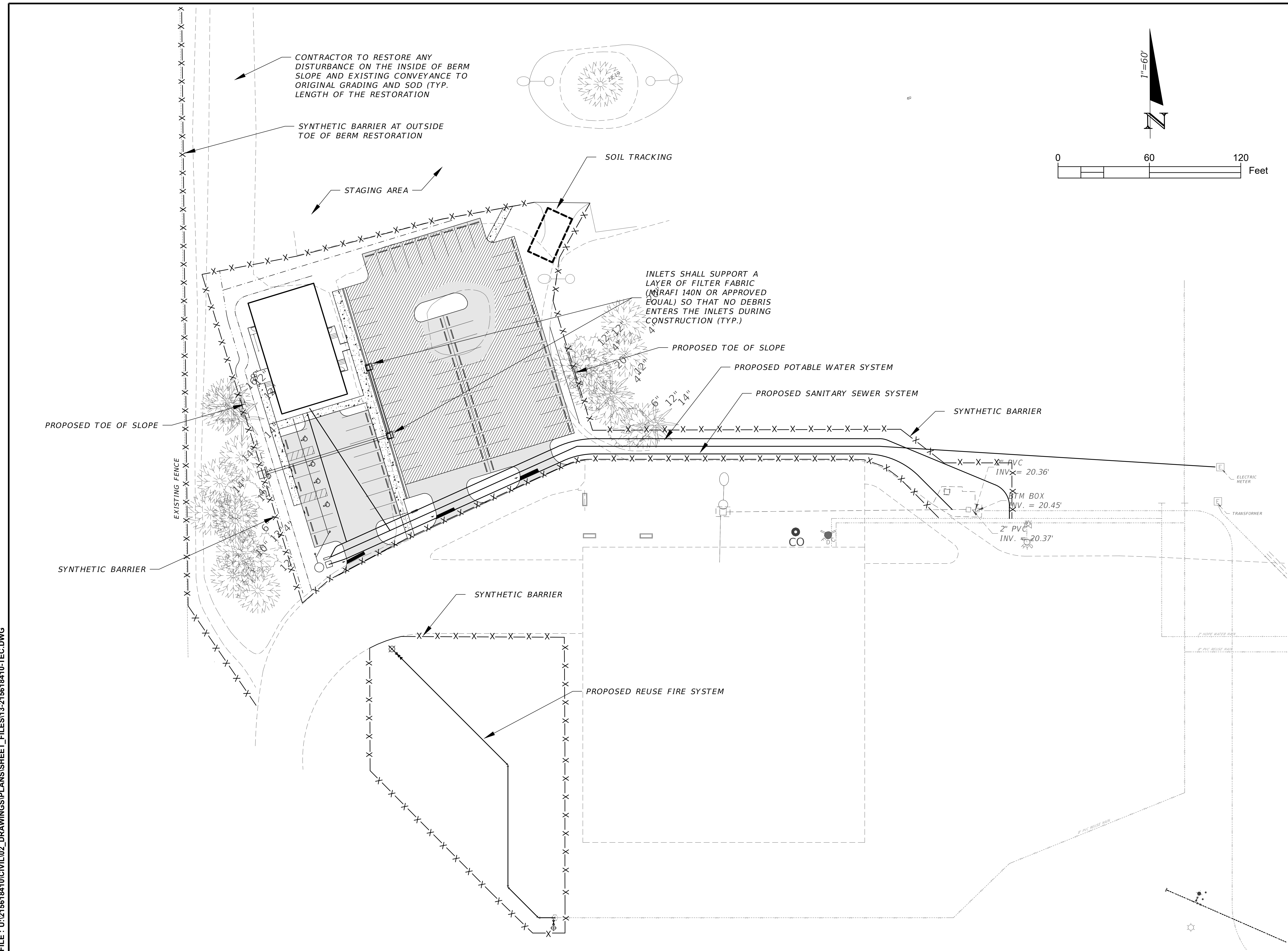
**EBARA SEWAGE GRINDER PUMP  
48" DUPLEX GRINDER STATION - 1.25" PIPING  
WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL  
TSC PRE-FAB PUMP SOLUTIONS®**

MODEL  
TSC2-48.3 R9.dwg ©

- GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM)
  - HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER
- FIELD INSTALL BY CONTRACTOR

JOB: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
QS: \_\_\_\_\_

FILE: U:\215618410\CIVIL\02\_DRAWINGS\PLANS\SHEET\_FILES\12-215618410-LS-DTLS.DWG



Project Name:  
**LEE COUNTY  
 SOLID WASTE  
 TRANSFER STATION  
 EMPLOYEE BUILDING**

Project Address:  
 10450-10550  
 BUCKINGHAM ROAD  
 FORT MYERS, FL 33905

Client/Owner:  
 LEE COUNTY  
 PO BOX 398  
 FORT MYERS, FL 33902

Engineer Contact:  
 Kristina Connelly, P.E.  
 Project Manager  
 Phone: 239-347-5508  
 Email: kristina.connelly@stantec.com

Project Engineer:

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 KRYSTINA M. CONNELLY, No. 54805

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Revisions:

No.	Description	By	Date

SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E
PROJECT MGR:	DANIEL M. CRAIG
PROJECT #	2156184
FILE NAME	13-215618410-TEC.DWG
ORIGIN DATE	01-10-2024
DESIGNER	STS
CADD	STS
CHECKED BY	KC
PLOT DATE	FRI, 8-23-2024 10:34 AM
PLOTTED BY	STUART

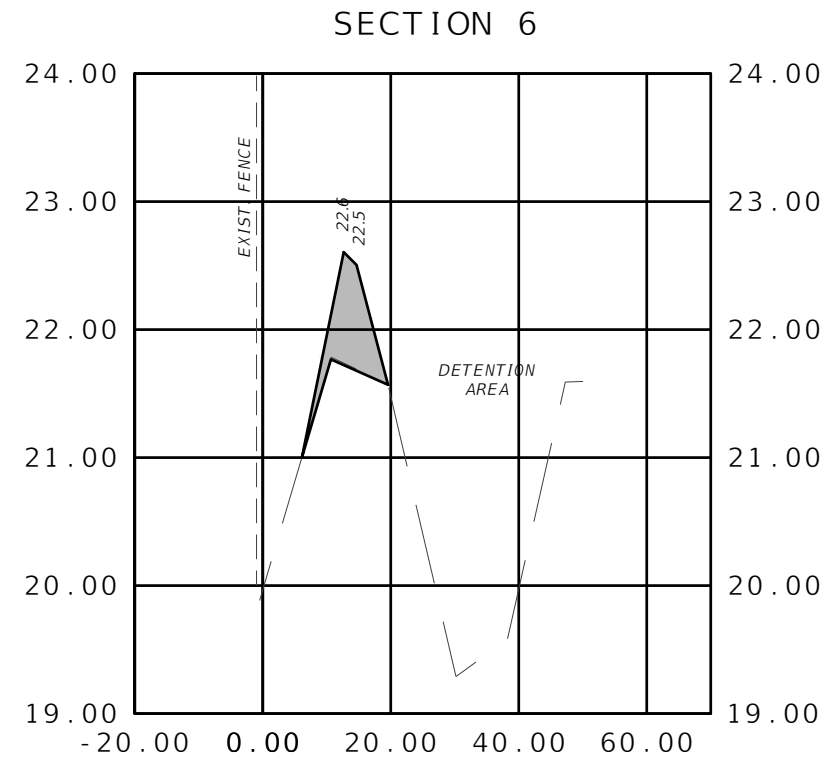
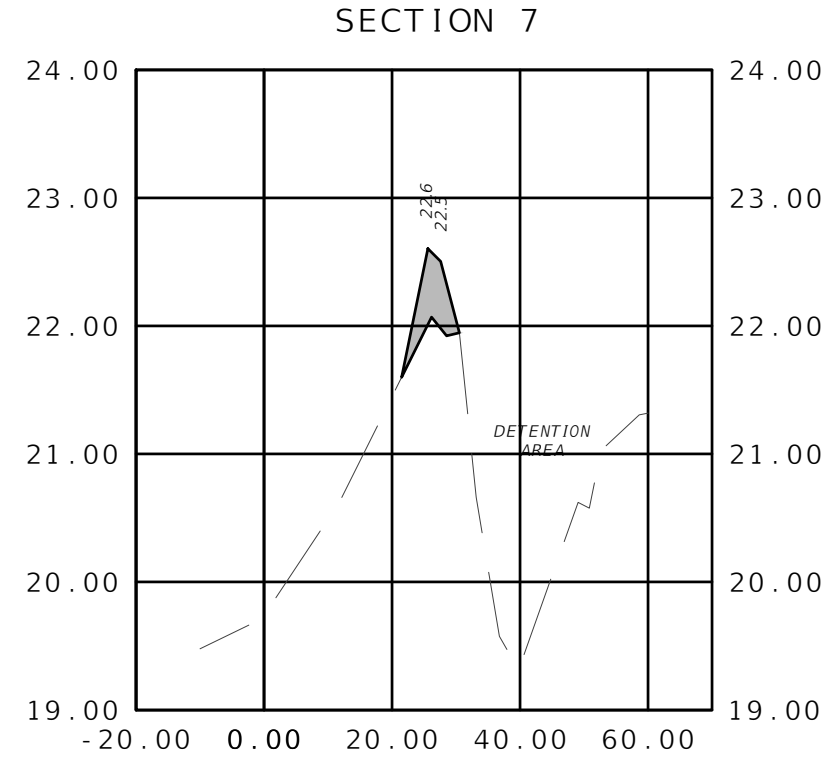
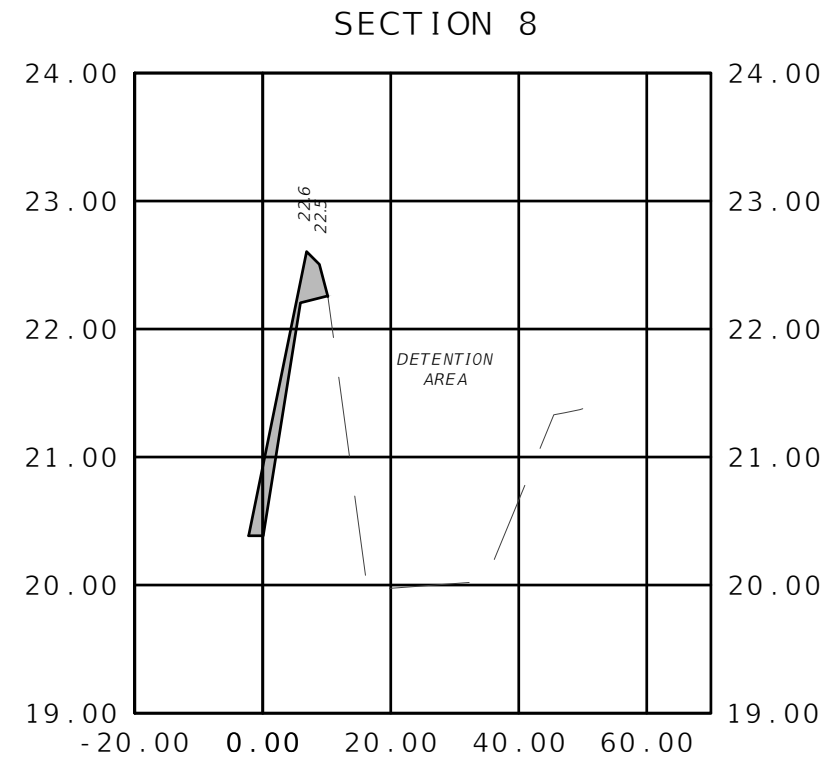
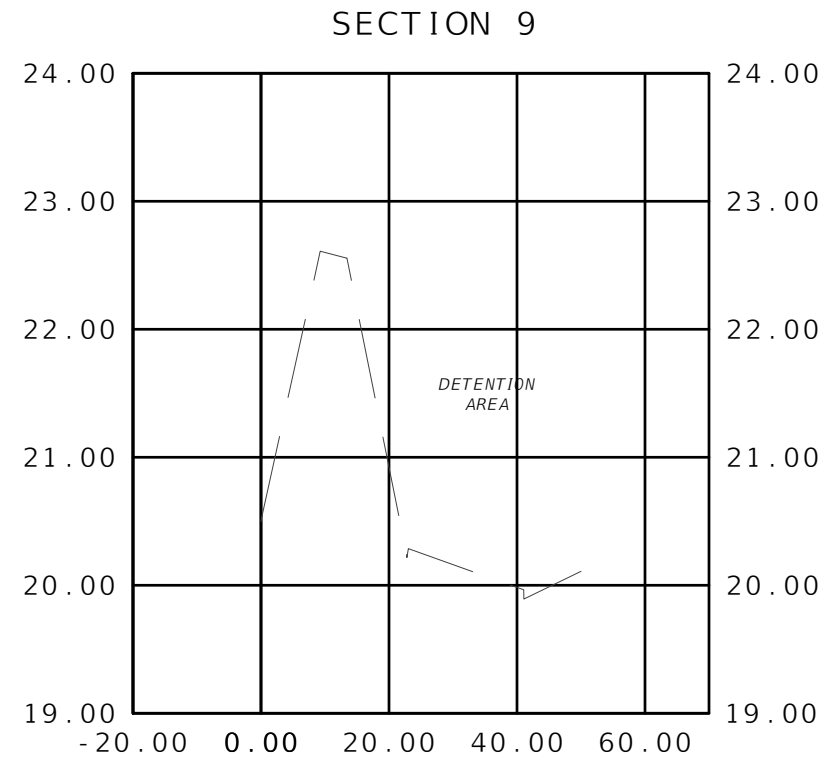
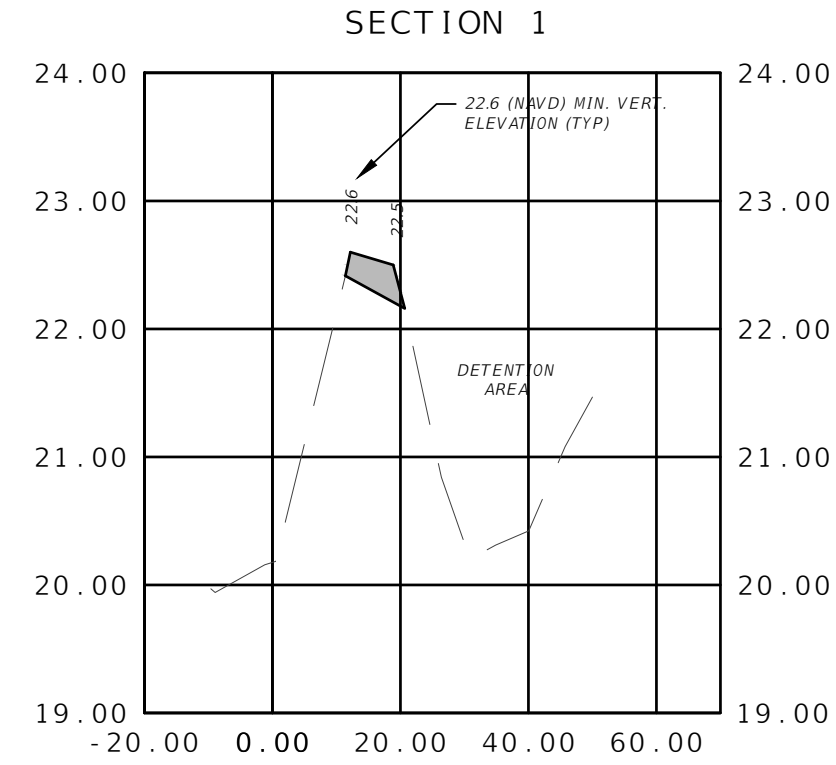
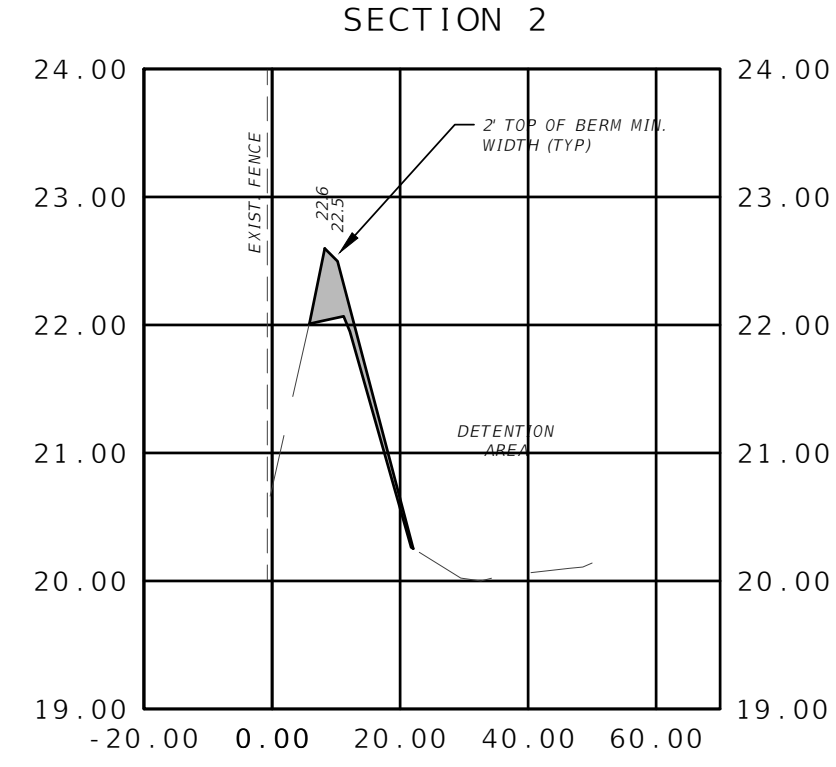
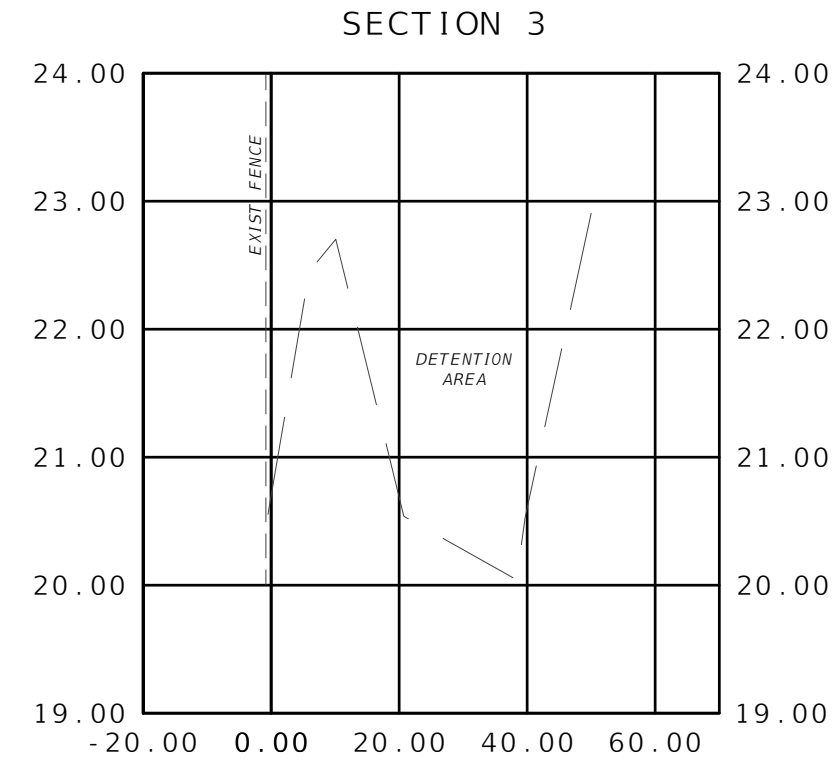
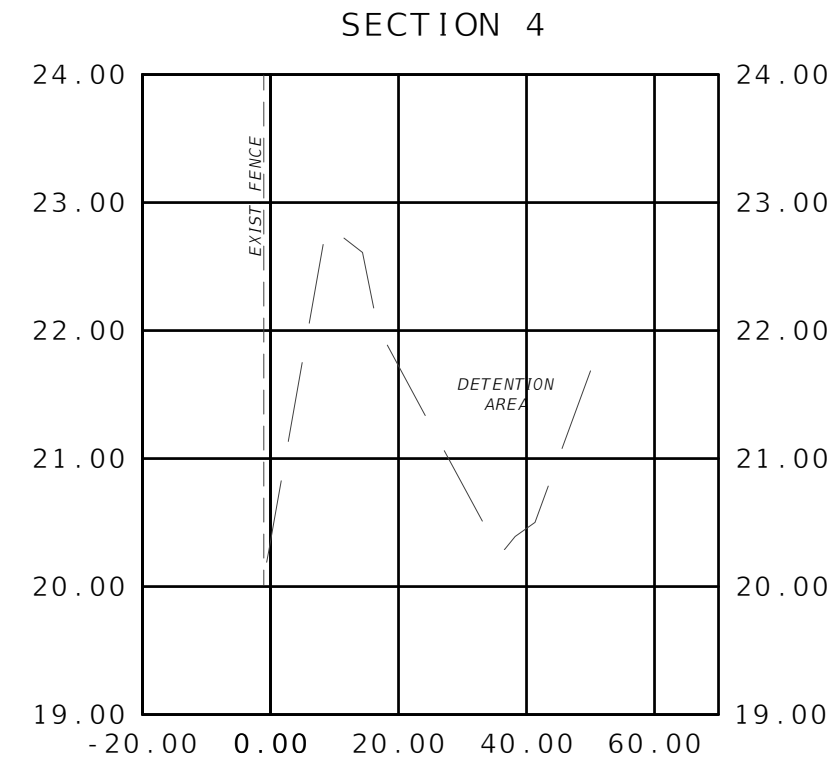
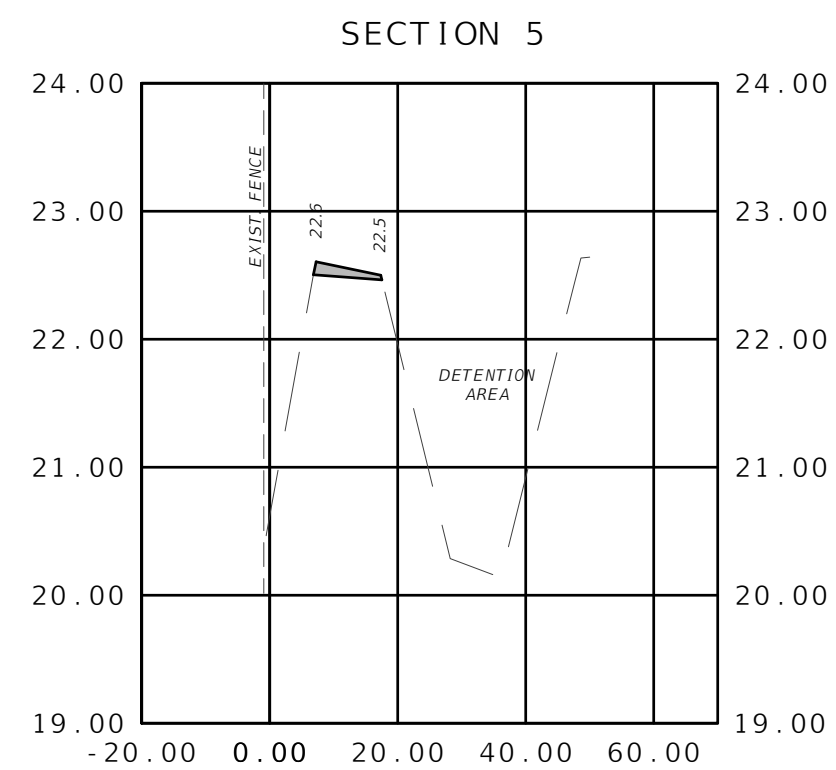
SHEET TITLE:

**TEMPORARY  
 EROSION  
 CONTROL PLAN**

SHEET NO. 13

BID SET

FILE: U:\21561841\CIVIL\02\_DRAWINGS\PLANS\14-215618410-BERM.DWG



**FORT MYERS**  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FL 33901

Project Name:  
**LEE COUNTY  
SOLID WASTE  
TRANSFER STATION  
EMPLOYEE BUILDING**

Project Address:  
10450-10550  
BUCKINGHAM ROAD  
FORT MYERS, FL 33905  
Client/Owner:  
LEE COUNTY  
PO BOX 398  
FORT MYERS, FL 33902

Engineer Contact:  
Kristina Connelly, P.E.  
Project Manager  
Phone: 239-347-5508  
Email: kristina.connelly@stantec.com  
Project Engineer:

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KRISTINA M. CONNELLY, P.E. No. 54805

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Revisions:

07/22/24	TEC along berm

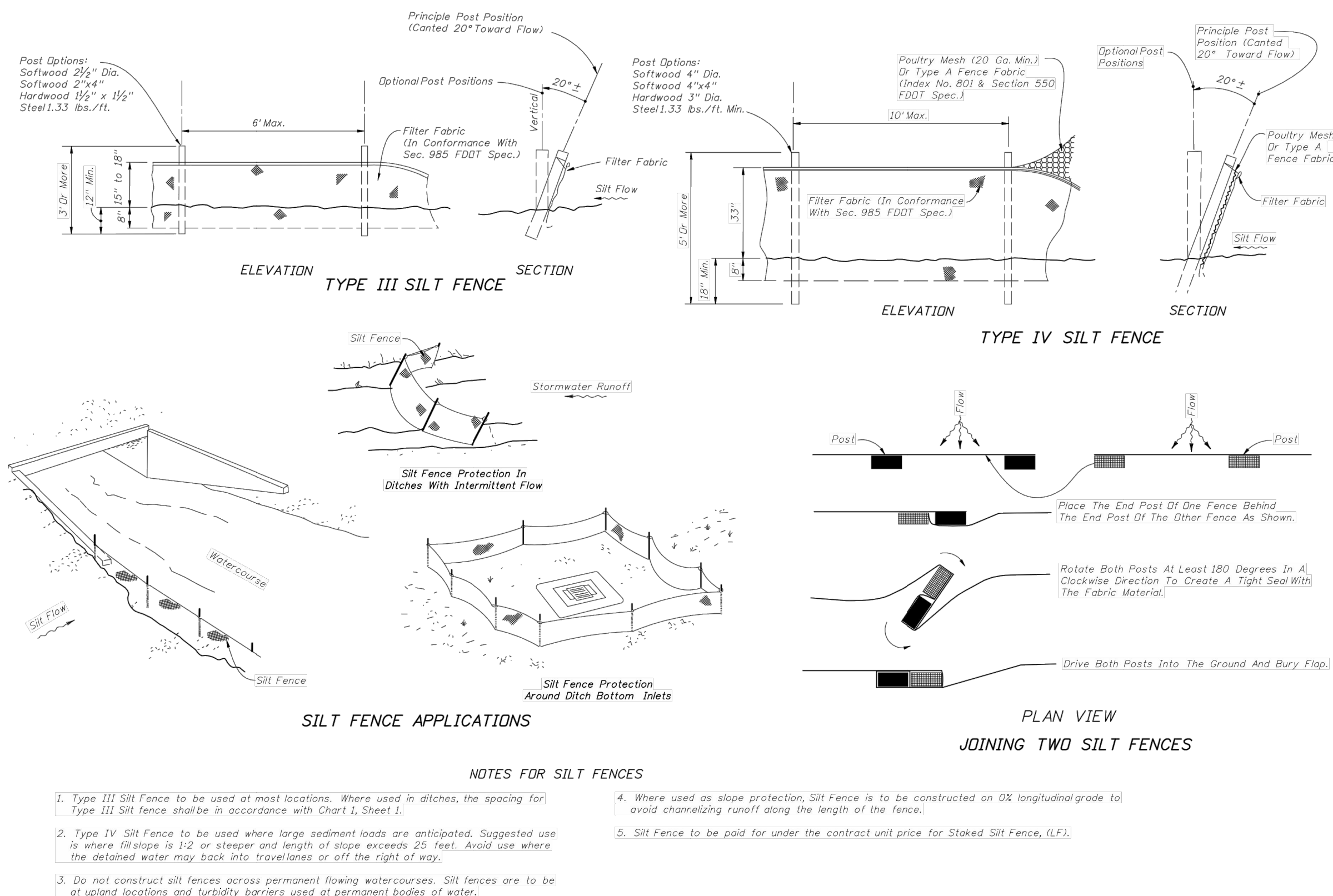
SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E
PROJECT MGR:	DANIEL M. CRAIG
PROJECT #	2156184
FILE NAME	14-215618410-BERM.DWG
ORIGIN DATE	01-10-2024
DESIGNER	STS
CADD	STS
CHECKED BY	KC
PLOT DATE	FRI 8-23-2024 10:35 AM
PLOTTED BY	STUART

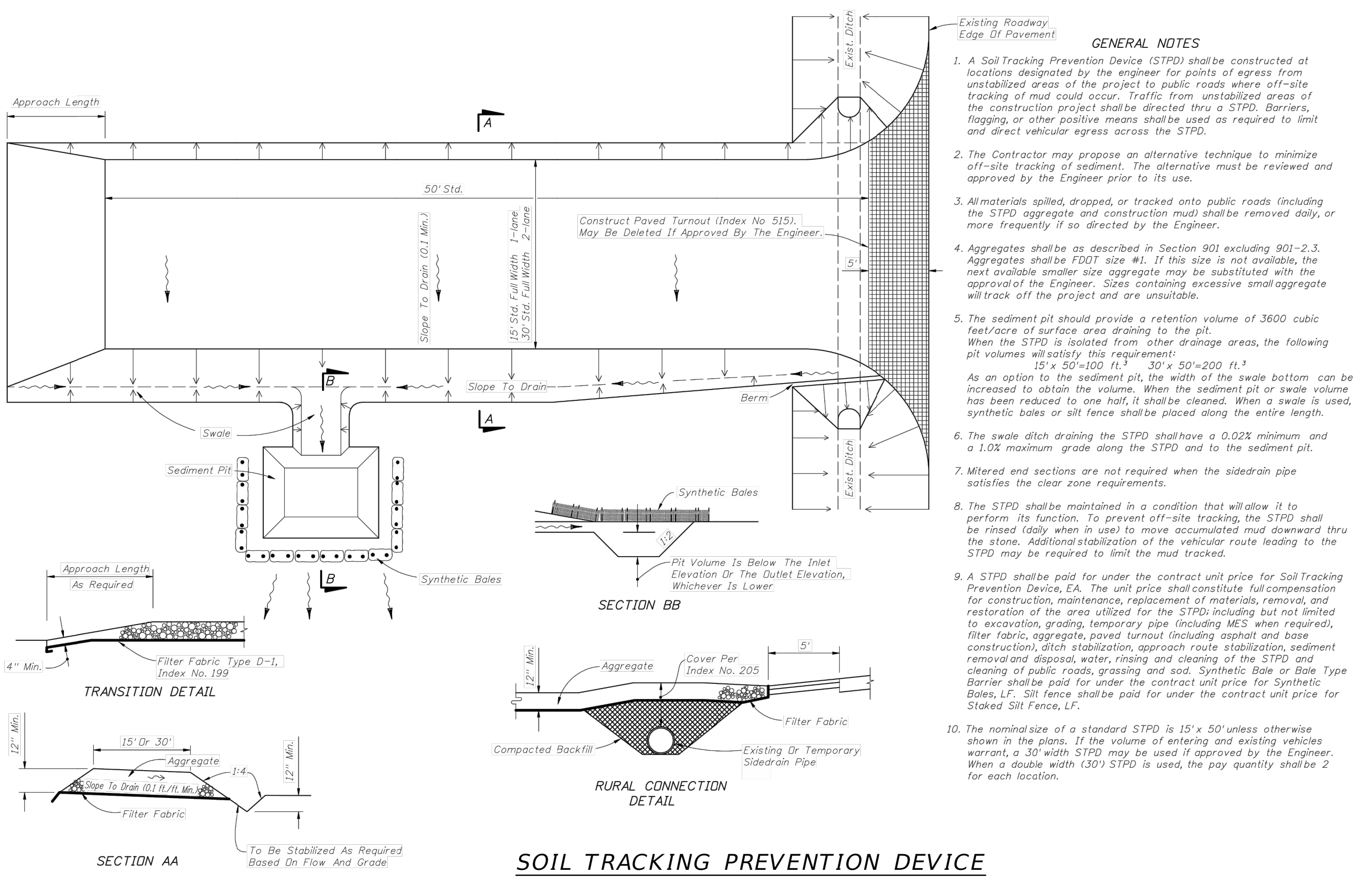
**BERM  
RESTORATION  
PLAN**

SHEET NO. 14  
BID SET

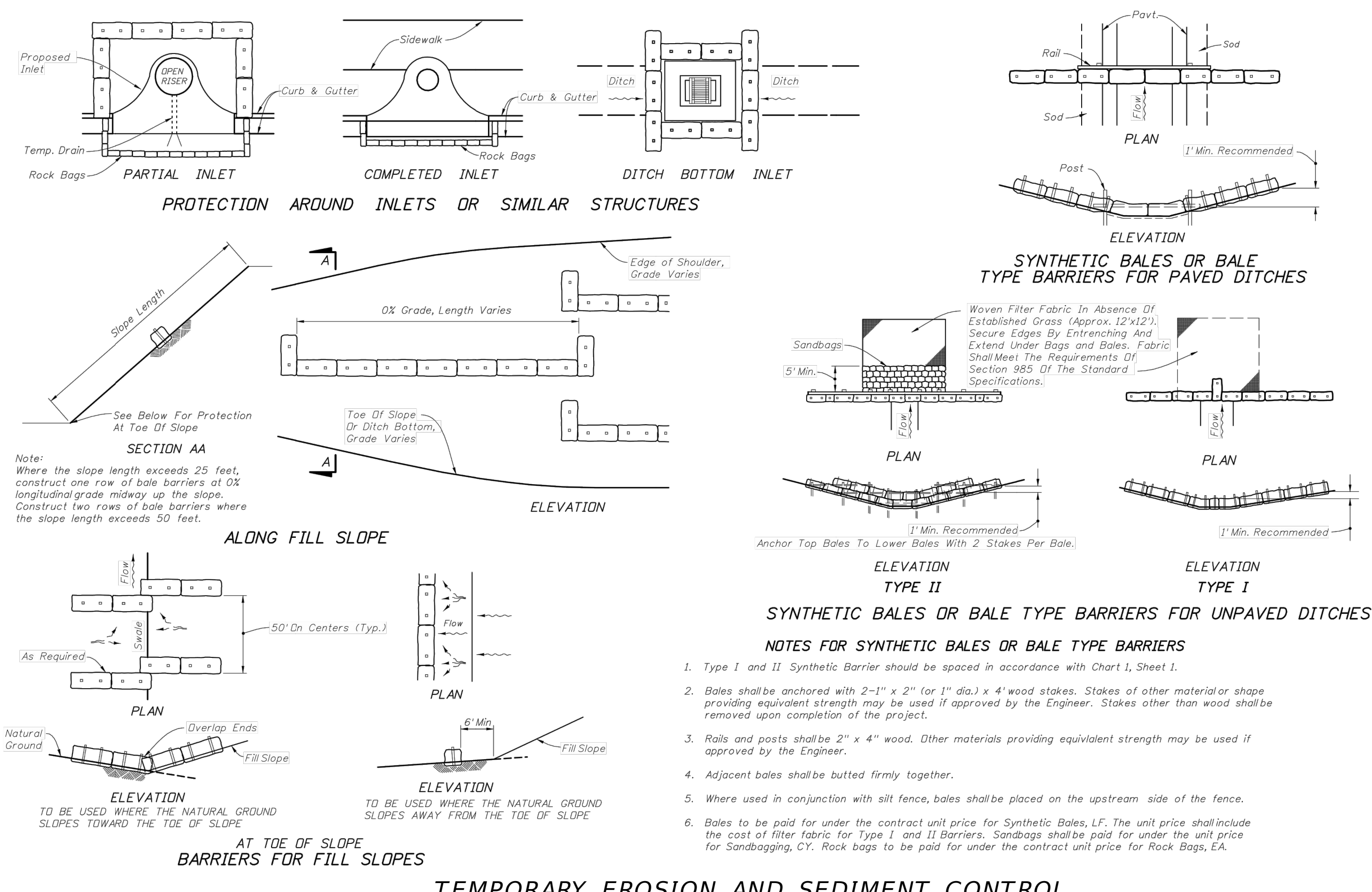
FILE: U:\215618410\CIVIL\02\_DRAWINGS\PLANSHEET\_FILES\15-215618410-TEC-DTLS.DWG



**TEMPORARY EROSION AND SEDIMENT CONTROL**



**SOIL TRACKING PREVENTION DEVICE**



**TEMPORARY EROSION AND SEDIMENT CONTROL**



**FORT MYERS**  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FL 33901

Project Name:

**LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING**

Project Address:

10450-10550 BUCKINGHAM ROAD FORT MYERS, FL 33905

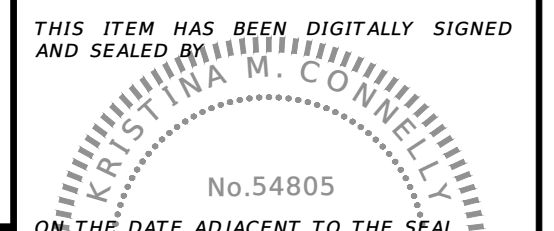
Client/Owner:

LEE COUNTY PO BOX 398 FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.  
 Project Manager  
 Phone: 239-347-5508  
 Email: kristina.connelly@stantec.com

Project Engineer:



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Revisions:

SITE DATA:

STRAP #  
 SEC-TWP-RGE SEC 24-TWP 44S-RGE 25E  
 PROJECT MGR: DANIEL M. CRAIG  
 PROJECT #: 2156184  
 FILE NAME: 15-215618410-TEC-DTLS.DWG  
 ORIGIN DATE: 01-10-2024  
 DESIGNER: STS  
 CADD: STS  
 CHECKED BY: KC  
 PLOT DATE: FRI, 8-23-2024 10:35 AM  
 PLOTTED BY: STSUART

**TEMPORARY EROSION CONTROL DETAILS**

SHEET NO. 15

BID SET



# LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

10450-10550 BUCKINGHAM ROAD  
FORT MYERS, FL 33905

CASTELLANOS + TRAMONTE ARCHITECTS  
1228 LAFAYETTE ST. SUITE #1  
CAPE CORAL, FLORIDA 33904  
239-549-0997

PME ENGINEER  
SPELMAN ENGINEERING  
1923 SE 10TH PLACE  
CAPE CORAL, FL 33990  
239-770-2930

LEE COUNTY SOLID WASTE TRANSFER  
STATION EMPLOYEE BUILDING  
10450-10550 BUCKINGHAM ROAD  
FORT MYERS, FL 33905

## PROJECT DATA SUMMARY

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**CASTELLANOS + TRAMONTE ARCHITECTS**  
1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904  
(239) 549-0997 AA 26003303

DRAWN BY:	DDG
CHECKED BY:	BAM
ISSUED FOR:	
PRELIMINARY SET:	11/7/23
60% REVIEW COMMENTS:	4/24/24
70% REVIEW COMMENTS:	6/7/24
PERMIT/BID SET:	8/23/24

ARCHITECT/ENGINEER  
STAMP

DRAWING NAME:  
TITLE PAGE,  
CODE DATA  
& NOTES

SHEET  
T-1

**GENERAL NOTES:**

INDUSTRY STANDARDS: INDUSTRY STANDARDS SHALL HAVE THE SAME FORCE AND EFFECT ON PERFORMANCE OF WORK AS IF COPIES DIRECTLY INTO THE CONTRACT DOCUMENTS OR BOUND AND PUBLISHED THERE WITH. COMPLY WITH STANDARDS IN EFFECT AS OF DATE OF CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED OR REQUIRED BY GOVERNING AUTHORITIES.

**SUPERVISION AND CONTROL:**  
THE ARCHITECT HAS NOT BEEN RETAINED, NOR IS RESPONSIBLE, FOR THE FIELD SUPERVISION OR CONSTRUCTION ADMINISTRATION OF THIS PROJECT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FIELD SUPERVISION, CONSTRUCTION ADMINISTRATION, REVIEW AND APPROVAL OF ALL SHOP DRAWINGS, VERIFICATION ON SITE OF ALL DIMENSIONS, AND STRICT COMPLIANCE WITH THESE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING WITHIN 10 DAYS OF RECEIPT OF CONSTRUCTION DOCUMENTS OF ANY ERROR OR OMISSION OF THE ARCHITECT.

THE GENERAL CONTRACTOR AGREES TO ASSUME LIABILITY FOR CORRECTIVE MEASURES SHOULD THE ARCHITECT NOT BE INFORMED AS NOTED. THE GENERAL CONTRACTOR SHALL NOT DEVIATE FROM CONSTRUCTION DOCUMENTS, OR MAKE SUBSTITUTES WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT. THE GENERAL CONTRACTOR SHALL ASSIGN A QUALIFIED CONSTRUCTION SUPERVISOR TO THE PROJECT. THE GENERAL CONTRACTOR AND HIS SUPERVISION SHALL BE RESPONSIBLE FOR THE COORDINATION OF SURVEYING/RECORDING, INSPECTIONS AND TESTING, GENERAL INSTALLATION PROVISIONS, CUTTING AND PATCHING, AND CLEANING/PROTECTING.

**GENERAL INSTALLATION PROVISIONS:**  
WELL IN ADVANCE OF EVERY MAJOR UNIT OF WORK WHICH REQUIRES COORDINATING AND INTERFACING WITH OTHER WORK, MEET AT PROJECT SITE WITH INSTALLER AND/OR REPRESENTATIVES OF MANUFACTURERS AND FABRICATORS WHO ARE INVOLVED IN OR EFFECTED BY THE UNIT OF WORK WHICH HAS PROCEEDED OR WILL FOLLOW, RECORD DISCUSSIONS, COMPLY WITH MANUFACTURER'S APPLICABLE INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION. INSPECT EACH ITEM OF MATERIAL OR EQUIPMENT IMMEDIATELY PRIOR TO INSTALLATION, AND REJECT DAMAGED OR DEFECTIVE ITEMS. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS FOR SECURING WORK PROPERLY AS IT IS INSTALLED, TRUE TO LINE AND LEVEL AND WITHIN RECOGNIZED INDUSTRY TOLERANCE. ALLOW FOR EXPANSIONS AND BUILDING MOVEMENTS, PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK, ORGANIZE FOR BEST VISUAL EFFECT.

RECHECK MEASUREMENTS AND DIMENSIONS OF THE WORK, AS IN INTEGRAL STEP OF STARTING EACH INSTALLATION AND MAKING EACH PURCHASE OF EQUIPMENT.

INSTALL WORK DURING CONDITIONS OF TEMPERATURE, HUMIDITY, EXPOSURE, FORECASTED WEATHER, AND STATUS OF PROJECT COMPLETION WHICH WILL ENSURE BEST POSSIBLE RESULTS FOR EACH UNIT OF WORK, IN COORDINATION WITH THE ENTIRE WORK. ISOLATE EACH UNIT OF WORK FROM NON-COMPATIBLE WORK, AS REQUIRED TO PREVENT DETERIORATION. COORDINATE ENCLOSURE (CLOSING IN) OF WORK WITH REQUIRED INSPECTIONS AND TESTS, SO AS TO MINIMIZE THE NECESSITY OF UNCOVERING WORK FOR THAT PURPOSE. WHERE MOUNTING HEIGHTS AND LOCATIONS ARE NOT INDICATED, MOUNT INDIVIDUAL UNITS OF WORK AT INDUSTRY-RECOGNIZED STANDARDS MOUNTING HEIGHTS (LOCATIONS) FOR APPLICATIONS INDICATED. REFER QUESTIONABLE CHOICES TO ARCHITECT/ENGINEER.

**TEMPORARY FACILITIES:**  
REFER TO THE "GENERAL CONDITIONS OF THE CONTRACT OF CONSTRUCTION" FOR BASIC COMMITMENTS TO PROVIDE THE FOLLOWING SERVICES AS REQUIRED TO PERFORM THE WORK.

**TEMPORARY UTILITY SERVICES:**  
**TEMPORARY CONSTRUCTION FACILITIES:** WATER DISTRIBUTION, DEWATERING, ENCLOSURE, POWER DISTRIBUTION, TEMPORARY LIGHTING, TEMPORARY ROADS, TEMPORARY ELEVATOR/HOISTING, AND MISC. CONSTRUCTION FACILITIES.

**TEMPORARY SUPPORT FACILITIES:** CONTRACTOR'S FIELD OFFICE, DRINKING WATER, TOILETS, ECT. GENERAL CONTRACTOR SHALL PROVIDE PROJECT IDENTIFICATION SIGN (TO INCLUDE NAME OF PROJECT OWNER, CONTRACTOR, ARCHITECT, AND ADDITIONAL INFORMATION AS REQUESTED BY THE OWNER, CONTRACTOR SHALL SUBMIT LAYOUT FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION.

**GENERAL:** FIRE PROTECTION, BARRICADES, FENCING, LOCKUP AND SECURITY, SIDEWALK PROTECTION, WATCHMAN SERVICE (WHEN REQUIRED BY OWNER OR CONTRACTOR), ENVIRONMENTAL PROTECTION, REFER ALL PRODUCT SELECTIONS AND SUBSTITUTIONS TO THE OWNER FOR FINAL APPROVAL PRIOR TO ACTUAL PURCHASE OF MATERIALS.

**WARRANTY AND GUARANTEE:**  
ONE YEAR WRITTEN GUARANTEE IS REQUIRED ON ALL WORK UNDER THIS CONTRACT. SPECIFIC PRODUCT WARRANTIES WHERE THEY APPLY SHALL ACCRUE TO THE OWNER. PROVIDE WRITTEN STATEMENTS AND/OR COPIES OF ALL WARRANTIES/GUARANTEE TO THE OWNER.

**FINAL CLEANING:**  
AT PROJECT CLOSEOUT TIME, CLEAN OR RECLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OR BUILDING PROJECTS OF SIMILAR NATURE. REMOVE NON-PERMANENT PROTECTIONS AND LABELS, POLISH GLASS, CLEAN EXPOSED SURFACES, TOUCH-UP MINOR DAMAGE, REPLACE FILTERS, REMOVE DEBRIS, REPLACE BURNED OUT LIGHTS, SWEEP AND WASH PAVED AREAS, POLICE YARDS AND GROUNDS AND SANITIZE PLUMBING.

**APPLICABLE CODES:**

BUILDING CODE: 2023 FLORIDA BUILDING CODE, BUILDING, 8TH EDITION.

MECHANICAL CODE: 2023 FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION.

PLUMBING CODE: 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION.

ELECTRICAL CODE: FLORIDA ELECTRICAL CODE 2020, NFPA 70, 2020.

FIRE CODE: FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION - FIRE CODE. (NFPA 1 - FIRE CODE FLORIDA 2021 EDITION)

LIFE SAFETY CODE: FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION - LIFE SAFETY CODE (NFPA 101 - LIFE SAFETY CODE 2021 EDITION).

ACCESSIBILITY CODE: 2023 FLORIDA BUILDING CODE, ACCESSIBILITY.

**FBC USE GROUP:**

FBC: B BUSINESS (SECTION 304.1)  
FFPC: BUSINESS GROUP

**TYPE OF CONSTRUCTION (TABLE 601)**

TYPE VB, UNPROTECTED, NON-SPRINKLERED

**FLOOR AREA FLORIDA BUILDING CODE, 8TH EDITION (2023) TABLE 504.3, 504.3.1, 504.4, 506.2**

OCCUPANCY: B BUSINESS	ALLOWED	PROPOSED
BUILDING AREA:	9,000 SF.	3,375 SF.
HEIGHT OF BUILDING:	40'-0"	< 14'-0"
NO. OF STORIES:	2	1

**OCCUPANT LOAD (TABLE 1004.1.5)**  
[GROSS AREA / SF PER PERSON = # PERSON]

HERC 3RD FLOOR:	FBC	FFPC
B BUSINESS	1,932/150 = 13 PERSONS	1,928/150 = 13 PERSONS
CONCENTRATED BUSINESS	1,065/50 = 22 PERSONS	1,069/50 = 22 PERSONS

TOTAL OCCUPANT LOAD = 35 PERSONS 35 PERSONS

**WIND DESIGN**

RISK CATEGORY: II (EXISTING)

EXPOSURE: C (EXISTING)

BASIC WIND SPEED: 160 MPH (EXISTING) ASCE 7-10 CHAPTER 26

INTERNAL PRESSURE COEFFICIENT, GCPI +/- 0.18 (ENCLOSED, PROTECTED OPENINGS)

**FIRE RESISTANCE RATING PER TABLE 601 (TYPE VB)**

	REQUIRED RATING	PROPOSED RATING	DESIGN NO.
STRUCTURAL FRAME	0	0	N/A
BEARING WALLS			
EXTERIOR	0	0	N/A
INTERIOR	0	0	N/A
NONBEARING WALLS			
EXTERIOR (x230)	0	0	N/A
INTERIOR	0	0	N/A
FLOOR CONSTRUCTION	0	0	N/A
ROOF CONSTRUCTION	0	0	N/A

**INTERIOR FINISH CLASSIFICATION (FBC 2023 TABLE 803.11)**

EXIT ENCLOSURES: B BUSINESS (NON-SPRINKLERED)

INTERIOR EXIT PASSAGEWAYS: A

CORRIDORS: B

ROOMS & ENCLOSED SPACES: C

**INTERIOR FINISH CLASSIFICATION (FFPC, 8TH EDITION - FIRE CODE 2021 SECTION 20.13.3.2)**

B BUSINESS

EXITS & EXIT ACCESS CORRIDORS (20.13.3.3.1): CLASS A OR B

OTHER THAN EXISTS: CLASS A, B OR C

B BUSINESS

	REQUIRED	PROPOSED
COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1):	75 FEET	< 75 FEET
MIN. OPENING WIDTH (1010.1.1):	32 INCHES	34 INCHES
EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2):	200 FEET	< 200 FEET
MINIMUM CORRIDOR WIDTH (TABLE 1020.2):	36 INCHES	> 36 INCHES
MAX. DEAD END CORRIDOR (1020.4):	20 FEET	< 20 FEET

**PLUMBING CALCULATIONS**

**USE GROUP: B BUSINESS**  
(TABLE 403)

OCCUPANT LOAD: 35 PERSONS  
17 MALE / 18 FEMALE

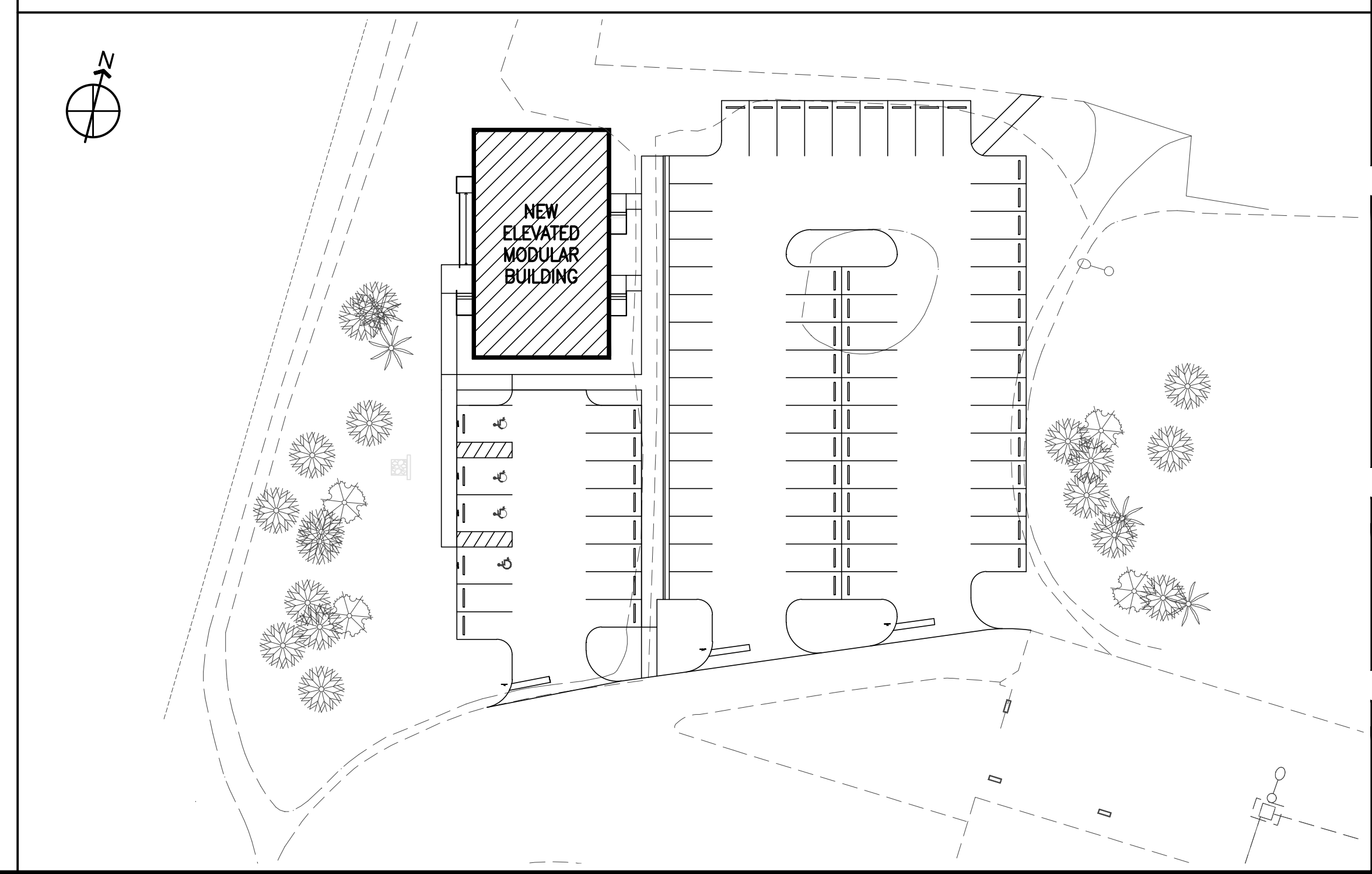
	REQUIRED	PROPOSED
<b>WATER CLOSETS:</b>		
MALE (1 PER 25)	1	5
FEMALE (1 PER 25)	1	3
<b>LAVATORIES:</b>		
MALE (1 PER 40)	1	5
FEMALE (1 PER 40)	1	3
<b>DRINKING FOUNTAINS:</b>		
1 PER 100	1	1
<b>SERVICE SINK:</b>		
1 SERVICE SINK	1	1

**NOTES TO PLANS EXAMINER**

- THIS PROJECT IS FULLY ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.
- FIRE EXTINGUISHERS PROVIDED PER NFPA 10, SEE FLOOR PLAN A-1.
- METAL STAIRS BY STAIR MANUFACTURER TO BE SUBMITTED UNDER A SEPARATE PERMIT.

**SHEET INDEX**

T-1	TITLE PAGE, CODE DATA & NOTES
LS-1	LIFE SAFETY PLAN
A-1	FLOOR PLAN, ROOM SCHEDULES & WALL TYPES
A-2	REFLECTED CEILING PLAN
A-3	ENLARGED PLANS & INTERIOR ELEVATIONS
A-4	BUILDING ELEVATIONS
A-5	BUILDING SECTIONS & WALL SECTIONS
A-6	LOW VOLTAGE PLAN
SP-1	SPECIFICATIONS
SP-2	SPECIFICATIONS
P-1	PLUMBING DETAILS, NOTES AND SCHEDULES
P-2	PLUMBING SANITARY PLAN
P-3	PLUMBING WATER PLAN
P-4	PLUMBING ISOMETRICS
M-1	HVAC DETAILS, NOTES AND SPECIFICATIONS
M-2	HVAC FLOOR PLAN
M-3	HVAC DETAILS AND OUTSIDE AIR CALCS
E-1	ABBREVIATIONS, SPECIFICATIONS, SYMBOL LEGEND
E-2	SITE PLAN
E-3	LIGHTING PLAN, LIGHTING FIXTURE & PANEL SCHEDULE
E-4	POWER AND SYSTEMS PANEL SCHEDULES
E-5	EGRESS PHOTOMETRY PLAN AND SCHEDULES
PE-1	PUMP STATION



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STATION EMPLOYEE BUILDING  
10450-10550 BUCKINGHAM ROAD  
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**CASTELLANOS  
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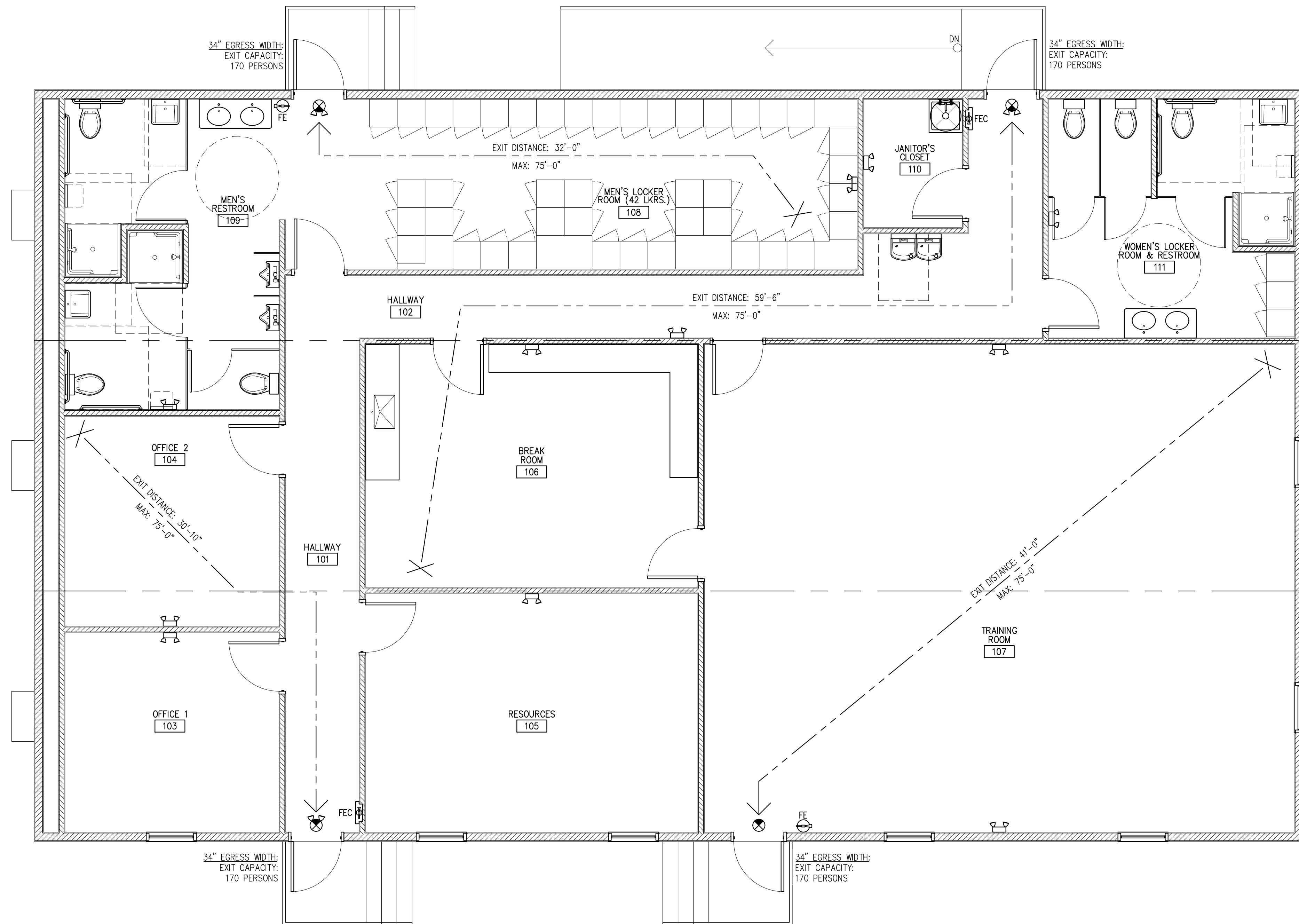
LIFE SAFETY PLAN

SHEET

LS-1

- GENERAL NOTES**
- DO NOT SCALE DRAWINGS.
  - ALL DOORS IN THE MEAN OF EGRESS SHALL BE SINGLE ACTION RELEASE AND SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE TO OPEN FROM EGRESS SIDE.
  - EXIT AND EMERGENCY LIGHTS SHALL BE FULLY OPERABLE AT THE TIME OF THE FIRE FINAL INSPECTION.
  - PLANS SHALL COMPLY WITH ALL REQUIREMENTS OF THE FLORIDA FIRE PREVENTION CODE, CURRENT EDITION, NFPA 101 (LIFE SAFETY CODE), CURRENT EDITION, AND NFPA 1 (UNIFORM FIRE CODE), CURRENT EDITION.
  - ALL EMERGENCY LIGHTS AND EXIT SIGNS HAVE BATTERY BACK-UP.
  - PROVIDE HAND HELD FIRE EXTINGUISHERS ACCORDING TO THE LOCAL FIRE MARSHALL REQUIREMENTS - PROVIDE 2A:10B:C FIRE EXTINGUISHERS EVERY 3,000 SF AS PER NFPA 10 TABLE 6.2.1.1 (LIGHT HAZARD)

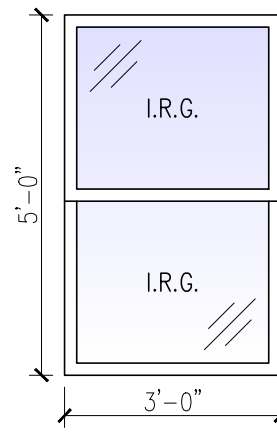
- LEGEND**
- EMERGENCY LIGHTS WITH BATTERY BACKUP
  - EMERGENCY EXIT SIGN WITH BATTERY BACKUP
  - EMERGENCY LIGHTS AND EXIT SIGN WITH BATTERY BACKUP
  - FIRE EXTINGUISHER ON HOOK - 2A:10B:C
  - FIRE EXTINGUISHER IN CABINET - 2A:10B:C
  - INDICATES LONGEST PATH OF EGRESS TRAVEL



**FLOOR PLAN**  
3/8" = 1'-0"

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**WINDOW TYPES:** I.R.G.: IMPACT RESISTANT GLASS

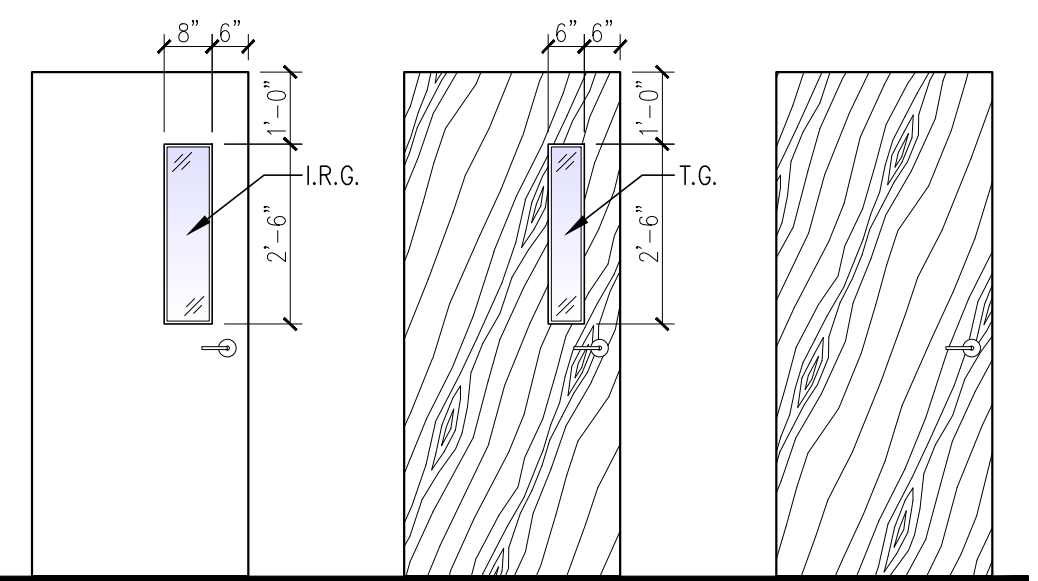


**ALUMINUM EXTERIOR WINDOWS SHALL BE PGT INDUSTRIES, INC.**

- PWT720A ALUMINUM FIXED WINDOW
- LARGE & SMALL MISSILE IMPACT RESISTANT
- ANNOXIDIZED ALUMINUM PREFINISH WITH: 7/16" LAMINATE GLASS CONSISTING OF: 3/16" ANNEALED "GRAY" .090 CLEAR PVB 3/16" HEAT STRENGTHENED GLASS HIGH PERFORMANCE LOW-E 35 SHGC .42 SHADING COEFFICIENT IMPACT RESISTANT
- PRODUCT APPROVAL: FL 243.8

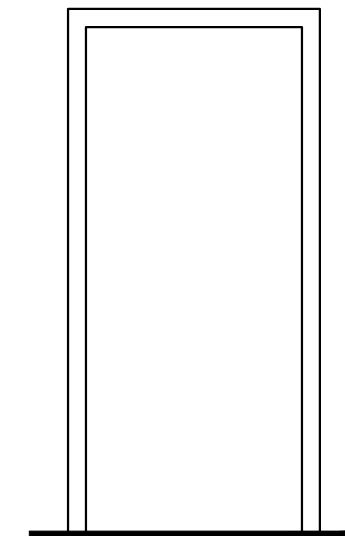


**DOOR TYPES:** I.R.G.: IMPACT RESISTANT GLASS  
T.G.: 5/16" CLEAR TEMPERED GLASS



**TYPE A** HOLLOW METAL DOOR WITH LITE  
**TYPE B** SOLID CORE WOOD WITH LITE  
**TYPE C** SOLID CORE WOOD

**FRAME TYPES:**



**TYPE F-1** HOLLOW METAL FRAME

**DOOR AND FRAME SCHEDULE**

MARK	ROOM NAME	ROOM #	WIDTH	HEIGHT	THICKNESS	TYPE	DESCRIPTION	HARDWARE SET	FRAMES				REMARKS	IMPACT RESISTANT GLASS	FL PRODUCT APPROVAL NO.
									HEAD	MATERIAL	FINISH	TYPE			
1	TRAINING ROOM/EXTERIOR	107	3'-0"	6'-8"	1 3/4"	A	HOLLOW METAL W LITE	1	2"	HOLLOW METAL	PTD.	F-1	-	NO	FL 4613.1
2	HALLWAY/EXTERIOR	101	3'-0"	6'-8"	1 3/4"	A	HOLLOW METAL W LITE	1	2"	HOLLOW METAL	PTD.	F-1	-	NO	FL 4613.1
3	OFFICE 1	105	3'-0"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	2	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
4	RESOURCES	103	3'-0"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	2	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
5	OFFICE 2	104	3'-0"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	2	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
6	MEN'S LOCKER ROOM	109	3'-0"	6'-8"	1 3/4"	C	SOLID CORE WOOD	3	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
7	MEN'S LOCKER ROOM	108	3'-0"	6'-8"	1 3/4"	A	HOLLOW METAL W LITE	1	2"	HOLLOW METAL	PTD.	F-1	-	NO	FL 4613.1
8	BREAK ROOM	106	3'-0"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	4	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
9	BREAK ROOM	107	5'-8"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	4	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
10	JANITOR'S CLOSET	110	3'-0"	6'-8"	1 3/4"	A	SOLID CORE WOOD W LITE	5	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
11	WOMEN'S LOCKER ROOM & RESTROOM	111	3'-0"	6'-8"	1 3/4"	C	SOLID CORE WOOD	3	2"	HOLLOW METAL	PTD.	F-1	-	NO	-
12	HALLWAY/EXTERIOR	102	3'-0"	6'-8"	1 3/4"	A	HOLLOW METAL W LITE	1	2"	HOLLOW METAL	PTD.	F-1	-	NO	FL 4613.1
13	TRAINING ROOM	107	3'-0"	6'-8"	1 3/4"	B	SOLID CORE WOOD W LITE	3	2"	HOLLOW METAL	PTD.	F-1	-	NO	-

**HARDWARE SCHEDULE:** BASIS OF DESIGN BELOW IS SCHLAGE NO SERIES LEVERS RHODES (RHO) EACH TO HAVE:

- 1 1/2 PAIR HINGES, ENTRANCE LOCK (ND53PD), LATCH PROTECTION DEVICE, CLOSER 1, RAIN DRIP CAP TOP & BOTTOM, WEATHERSEAL, SWEEP, KICK PLATE AND ALUMINUM SADDLE THRESHOLD.
- 1 1/2 PAIRS HINGES, OFFICE LATCH (ND50PD), SILENCERS & WALL STOP.
- 1 1/2 PAIR HINGES, PASSAGE LATCH (ND10S), CLOSER 2, SILENCERS & WALL STOP.
- 1 1/2 PAIR HINGES, PASSAGE LATCH (ND10S), SILENCERS & WALL STOP.
- 1 1/2 PAIR HINGES, STOREROOM LOCK (ND50PD), SILENCERS & WALL STOP.

**HARDWARE GENERAL NOTE:**

- ALL HARDWARE FINISHES SHALL BE US260 UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE OWNER.
- SUBSTITUTIONS SHALL BE PERMITTED WITH ARCHITECT'S APPROVAL.

**HARDWARE SPECIFICATIONS:**

- CLOSER 1 - HAGER 5100 W/5108 HOLD OPEN ARM
- CLOSER 2 - HAGER 5100 SERIES
- HINGES - HAGER BB1279
- DRIP - NPG 16A
- WEATHER SEAL - NPG 5050CL
- DOOR SWEEP - NPG 2000A
- KICK PLATE - HAGER 190S 12"H. X 34"W. (US28)
- WALL STOP - ROCKWOOD 409
- SILENCERS - IVES SR64

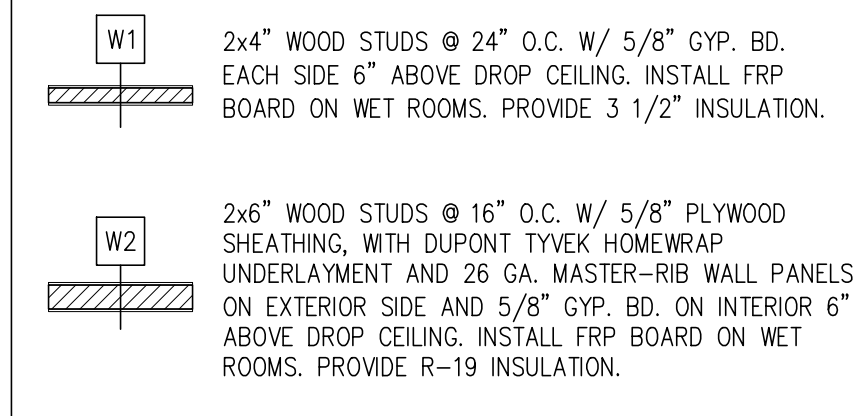
**ROOM FINISH SCHEDULE**

ROOM NAME	ROOM #	WALL BASE	FLOOR	WALLS				CEILING		REMARKS
				N	S	E	W	MATERIAL	HEIGHT	
HALLWAY	101	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
HALLWAY	102	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
OFFICE 1	103	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
OFFICE 2	104	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
RESOURCES	105	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
BREAK ROOM	106	VB	LVT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
TRAINING ROOM	107	VB	MCT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
MEN'S LOCKER ROOM	108	VB	LVT	PTD	PTD	PTD	PTD	ACT	9'-0"	-
MEN'S RESTROOM	109	VB	LVT	FRP	FRP	FRP	FRP	ACT	9'-0"	-
JANITOR'S CLOSET	110	VB	LVT	FRP	FRP	FRP	FRP	ACT	9'-0"	-
WOMEN'S LOCKER ROOM & RESTROOM	111	VB	LVT	FRP	FRP	FRP	FRP	ACT	9'-0"	-

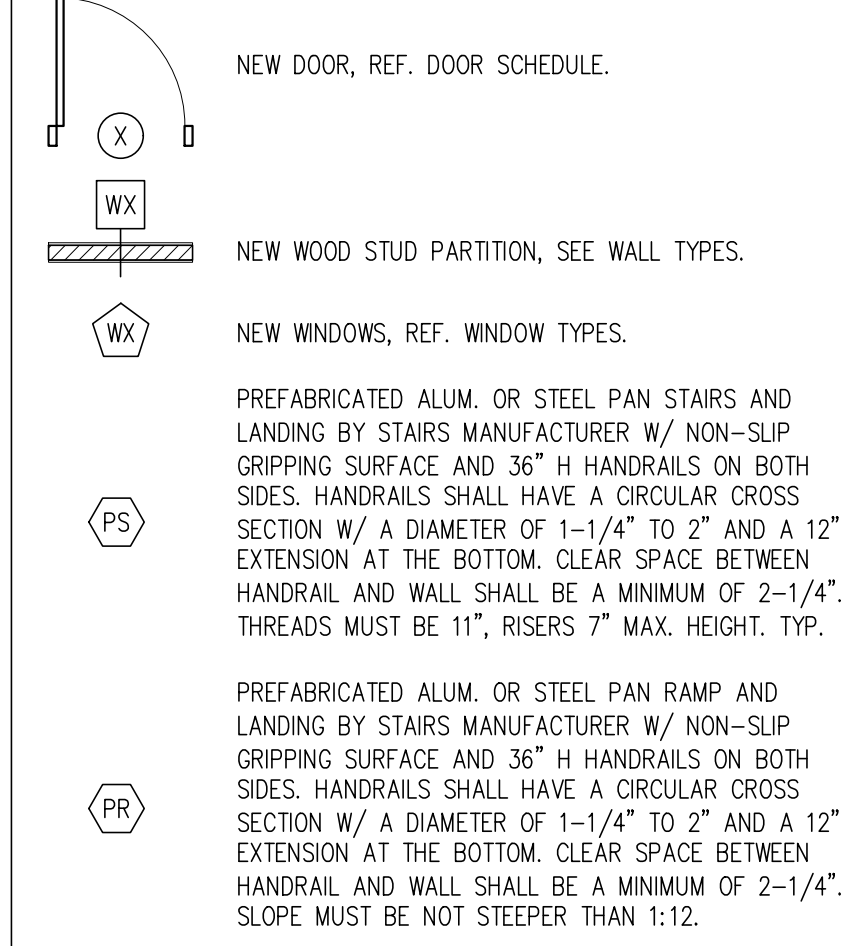
- ROOM FINISH LEGEND**
- TAPE, FLOAT, AND SAND DRYWALL TO A SMOOTH (LEVEL 4) FINISH.
  - PAINT ALL SURFACES AS DIRECTED BY OWNER.
  - OWNER SHALL SELECT ALL COLORS, PATTERNS, TRIM & OTHER ITEMS REQUIRED FOR A COMPLETE PROJECT.
  - ALL FINISHES TO BE SELECTED BY OWNER.

- ROOM FINISH LEGEND**
- LVT LUXURY VINYL TILE
  - MCT MODULAR CARPET TILE
  - VB 4" H. VINYL WALL BASE
  - PTD PAINTED GYP BD., SEE SPEC.
  - ACT ACOUSTIC CEILING TILE
  - FRP MOISTURE RESISTANT PANELS
- WALLS:** (PAINT COLOR TBD)
- FIRST COAT SHERWIN WILLIAMS PREPRITE 200 INTERIOR LATEX PRIMER  
SECOND & THIRD COATS SHERWIN WILLIAMS PROMAR 200 INTERIOR LATEX EGGSHELL PAINT TYPE
- TRIM:** (PAINT COLOR TBD)
- SHERWIN WILLIAMS INTERIOR DOOR & TRIM ACRYLIC ENAMEL SEMI-GLASS

**WALL TYPES**

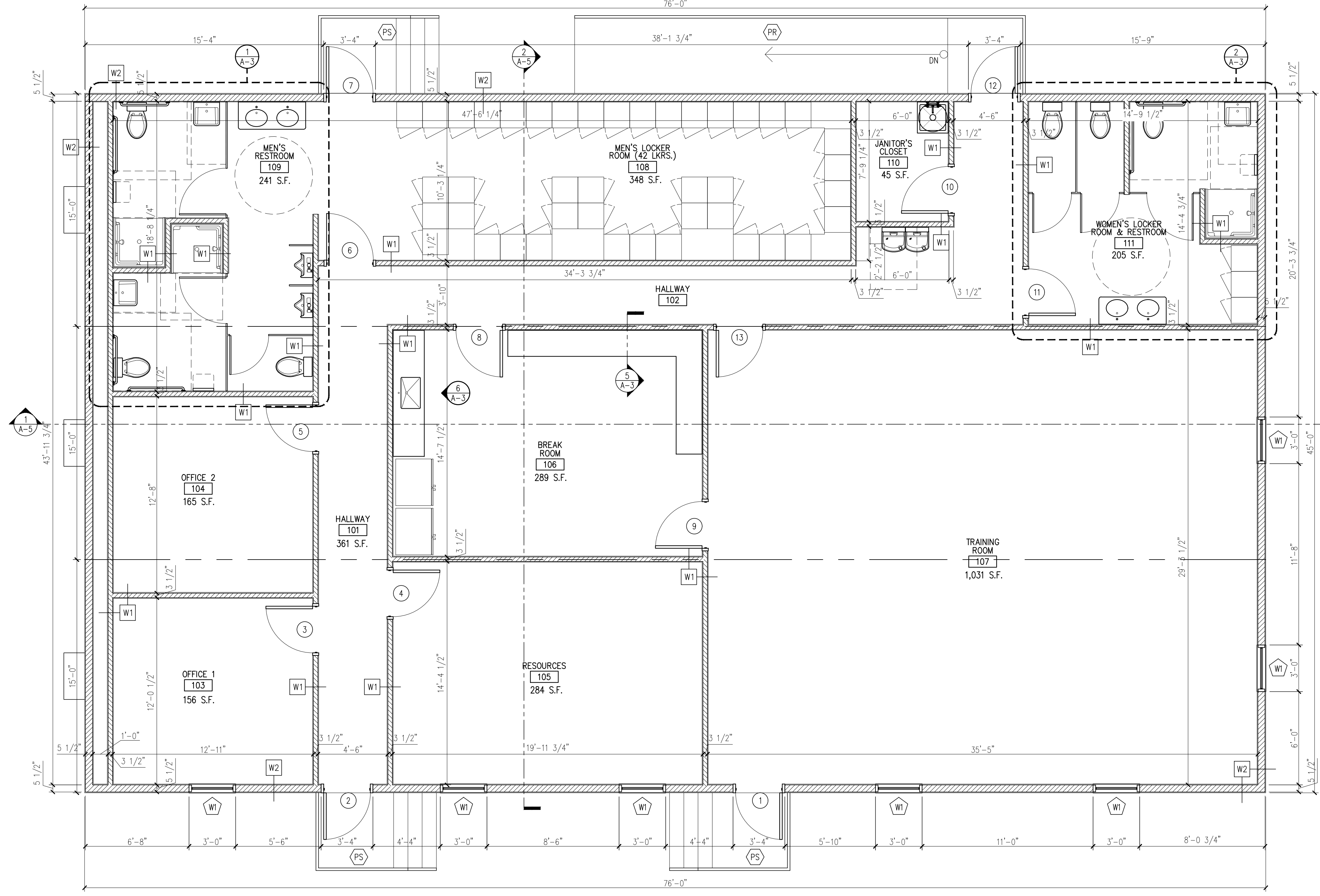


**LEGEND**



**GENERAL NOTES**

- PROVIDE ALL WOOD BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES, DOOR HARDWARE, ELECTRICAL DEVICES, GRAB BARS, HANDRAILS, CASEWORK AND MILLWORK.
- THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE.
- FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
- PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON LIFE SAFETY PLAN. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC.
- PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD AT WALLS AT ALL DAMP LOCATIONS (RESTROOMS, BREAK AREA, JAN. CL.).
- PROVIDE F.R.P. WALL PANEL LAID-UP ON GYPSUM (CLASS C) FULL HEIGHT ON RESTROOM WALLS, STORAGE ROOM WALLS & BREAK ROOM WALLS ONLY.
- UNLESS OTHERWISE NOTED ON THE PLAN OR AS CLEAR DIMENSIONS, ALL PLAN DIMENSIONS ARE TAKEN FROM FACE OF CMU OR CONCRETE TO FACE OF STUD OR FACE OF STUD TO FACE OF STUD.
- DOORS NOT OTHERWISE DIMENSIONED SHALL BE 4" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.



**FLOOR PLAN**  
1/4" = 1'-0"

LEE COUNTY SOLID WASTE TRANSFER  
STATION EMPLOYEE BUILDING  
10450-10550 BUCKINGHAM ROAD  
FORT MYERS, FL 33905

**CASTELLANOS + TRAMONTE ARCHITECTS**  
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(239) 549-0997 AA 26003303

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CHECKED BY:	BAM
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60% REVIEW COMMENTS:	4/24/24
70% REVIEW COMMENTS:	6/7/24
PERMIT/BID SET:	8/23/24

ARCHITECT/ENGINEER  
STAMP

DRAWING NAME:

FLOOR PLAN,  
SCHEDULES &  
WALL TYPES

SHEET

A-1

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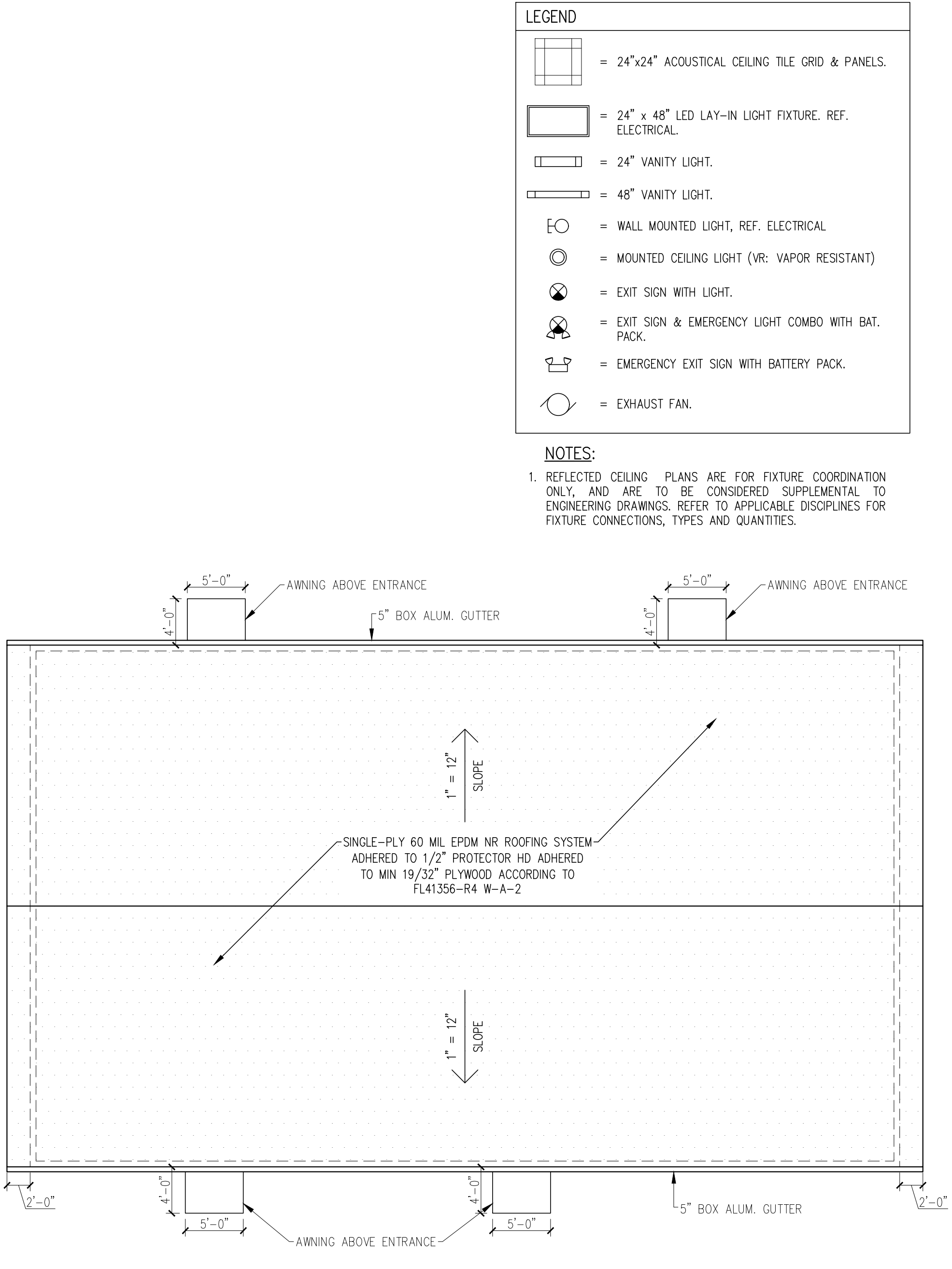
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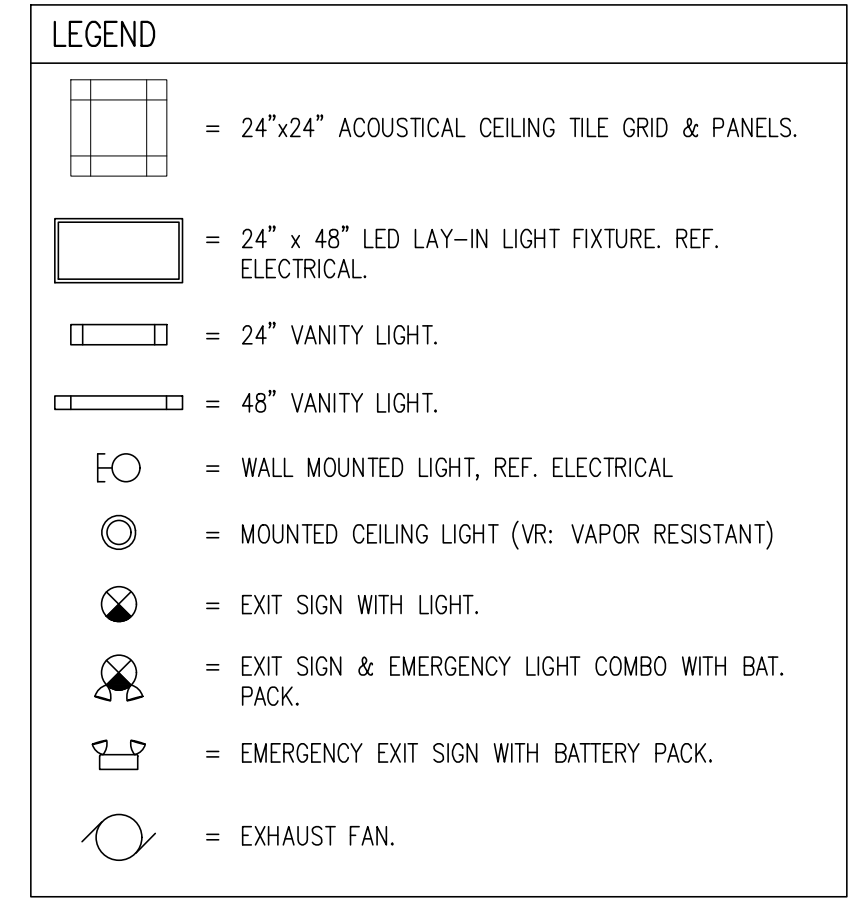
REFLECTED CEILING  
PLAN & ROOF PLAN

SHEET

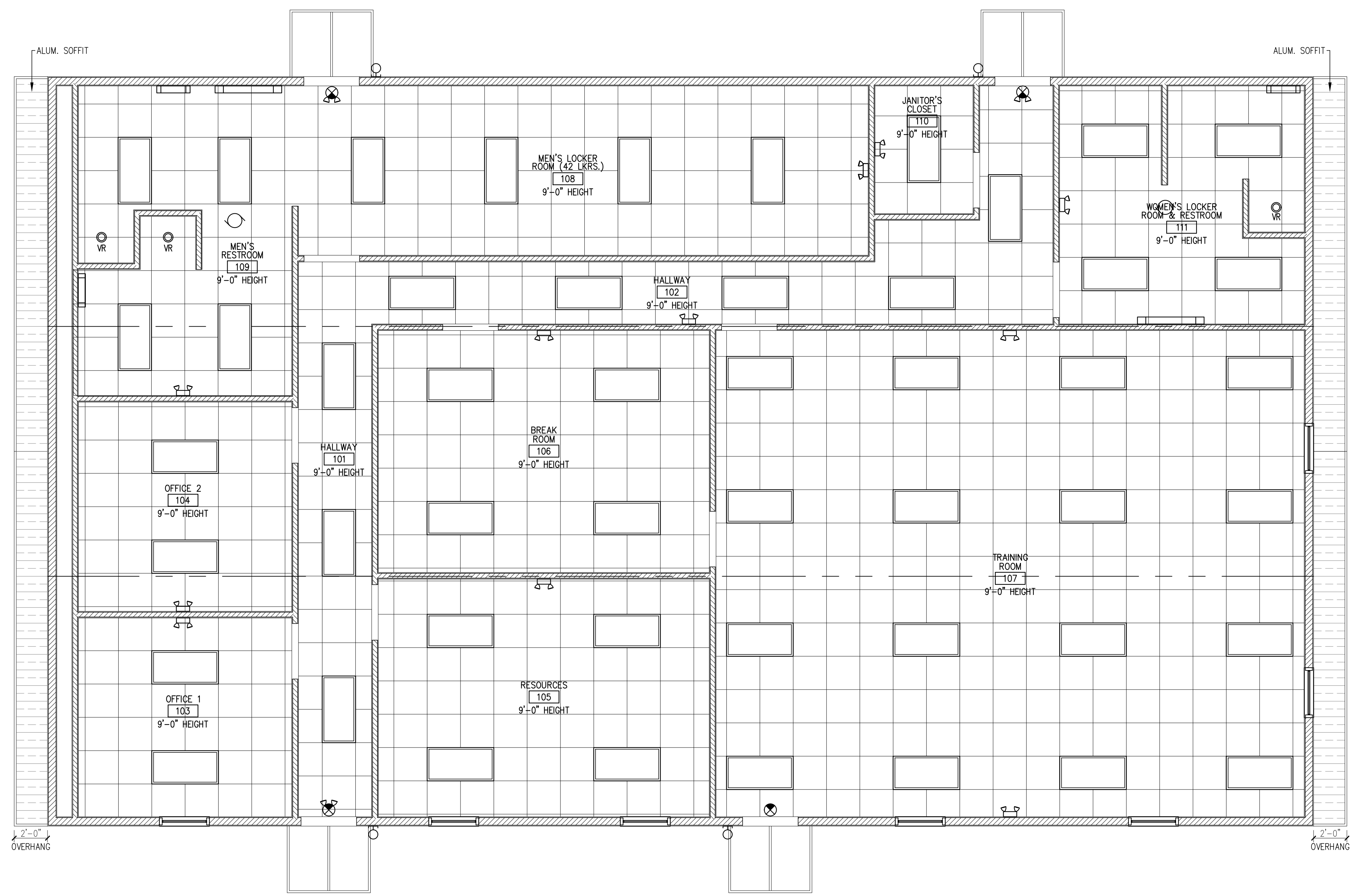
A-2



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

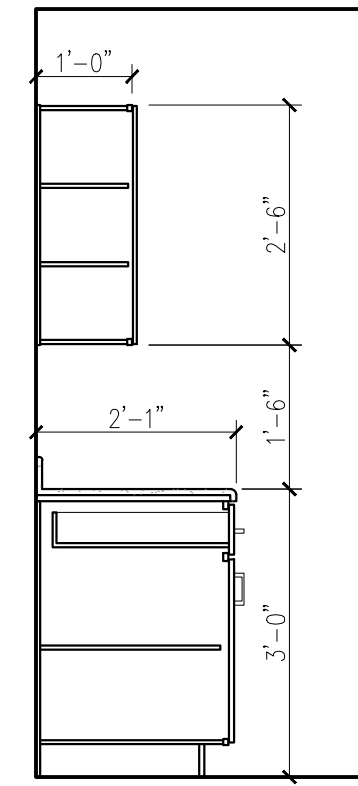


**NOTES:**  
1. REFLECTED CEILING PLANS ARE FOR FIXTURE COORDINATION ONLY, AND ARE TO BE CONSIDERED SUPPLEMENTAL TO ENGINEERING DRAWINGS. REFER TO APPLICABLE DISCIPLINES FOR FIXTURE CONNECTIONS, TYPES AND QUANTITIES.



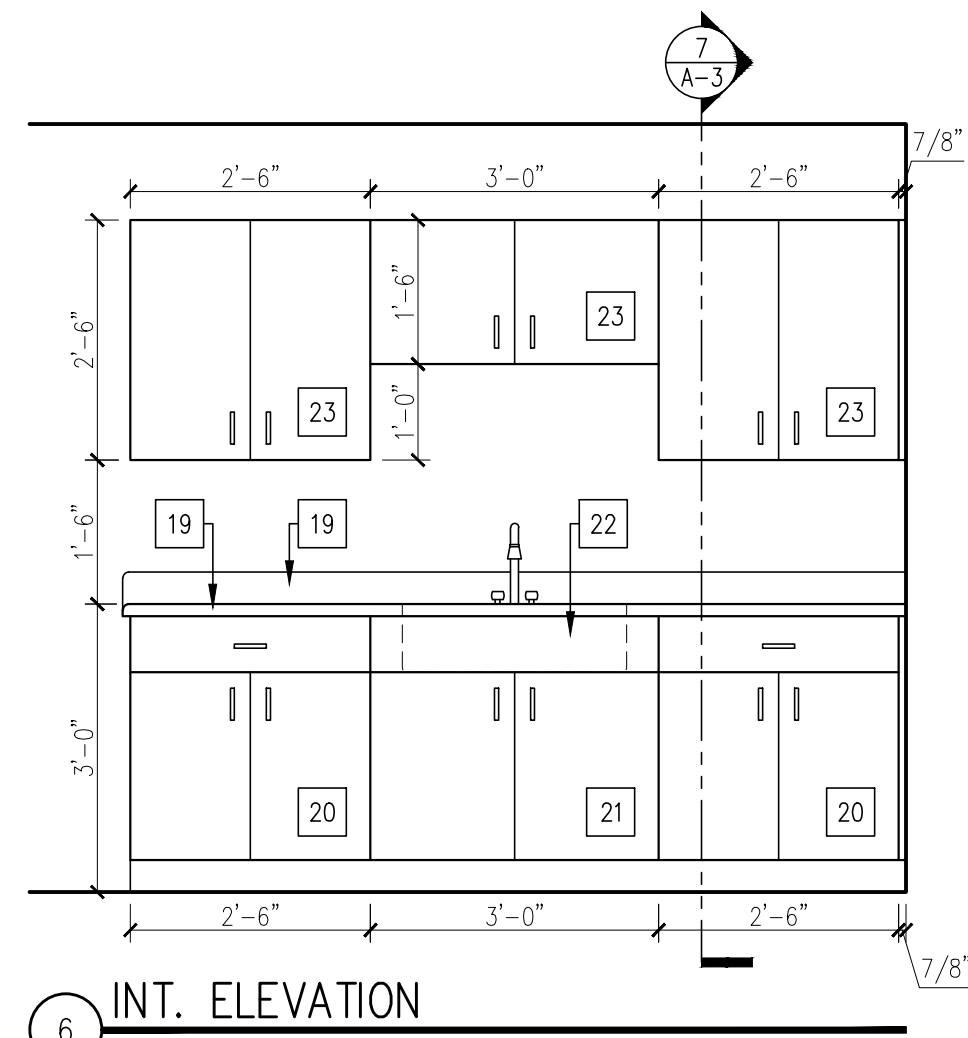
REFLECTED CEILING PLAN  
1/4" = 1'-0"

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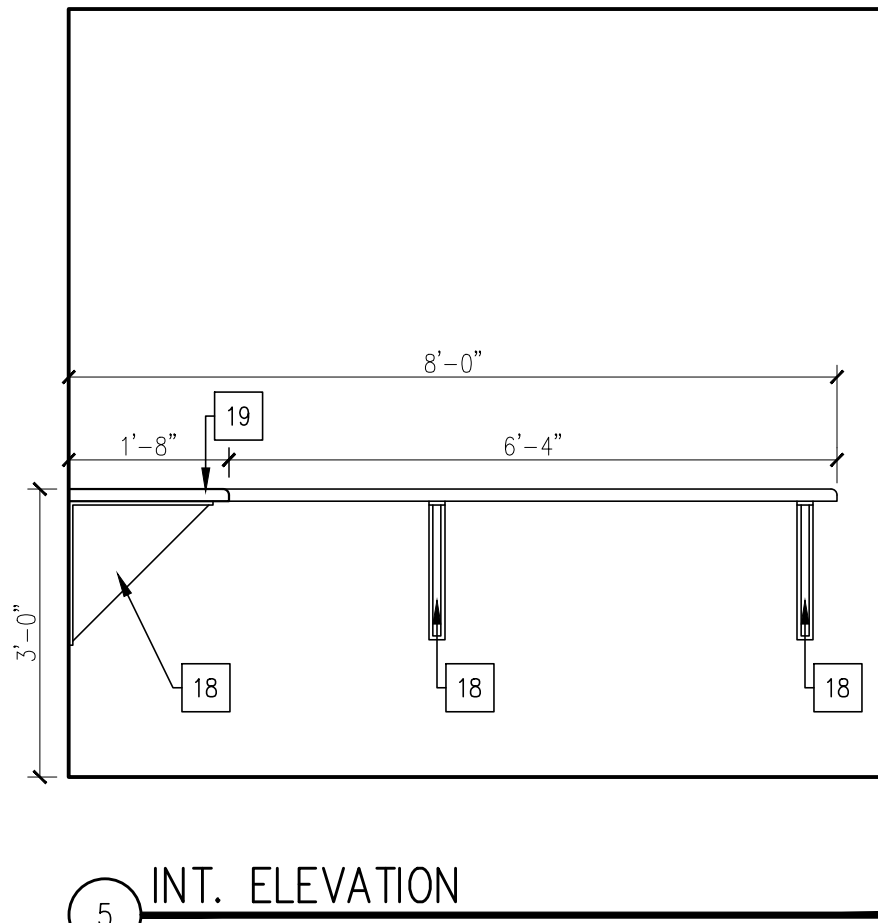


NOTES:  
 1. ALL CABINETS ARE PLYWOOD W/COMMERCIAL GRADE PLAM. STYLE, FINISH, COLOR BY OWNER.  
 2. CONTRACTOR TO PROVIDE BID FOR ALT. BACKSPASH AND/OR COUNTERTOP.

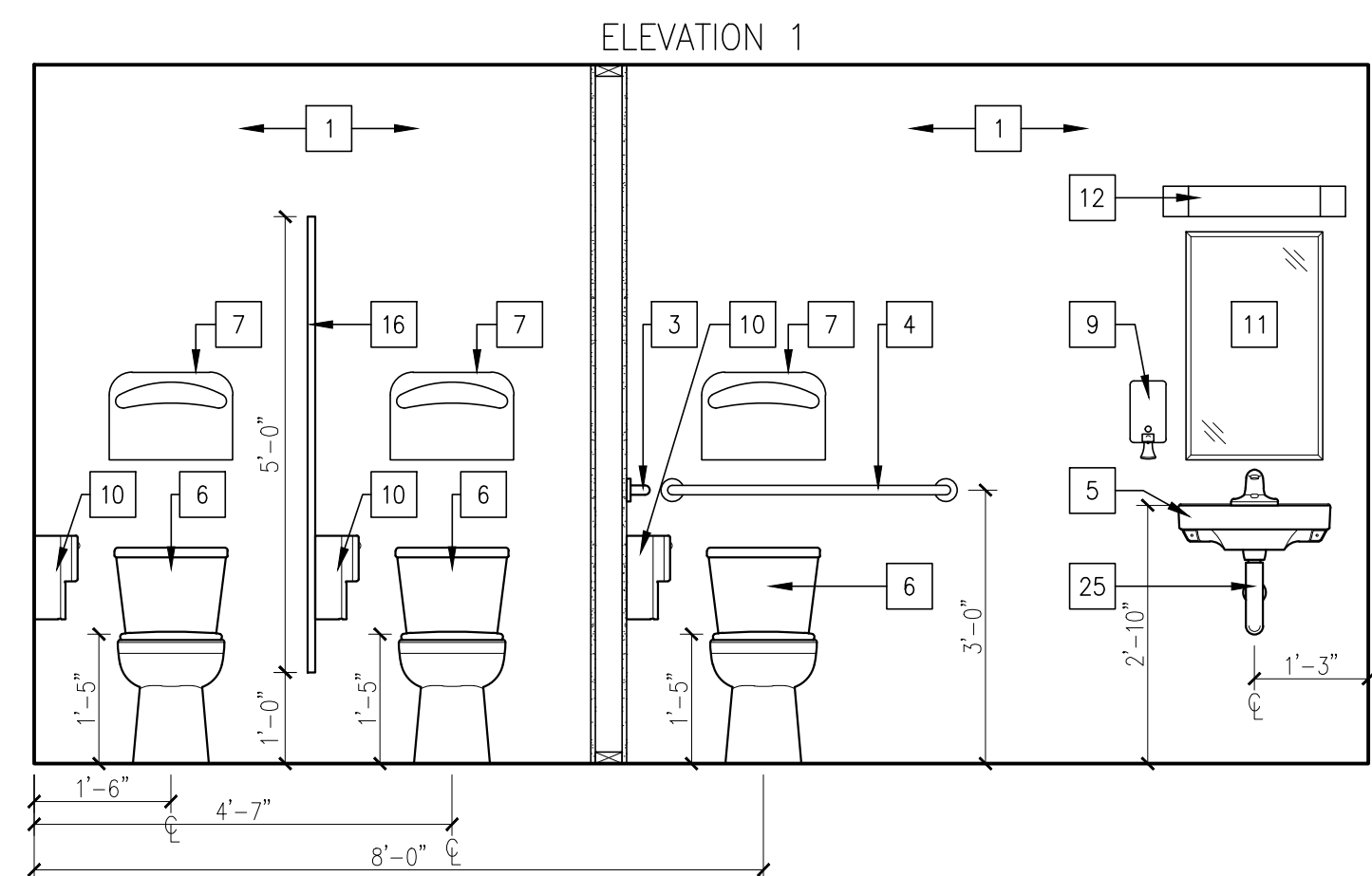
7 CABINETRY  
 1/2" = 1'-0"



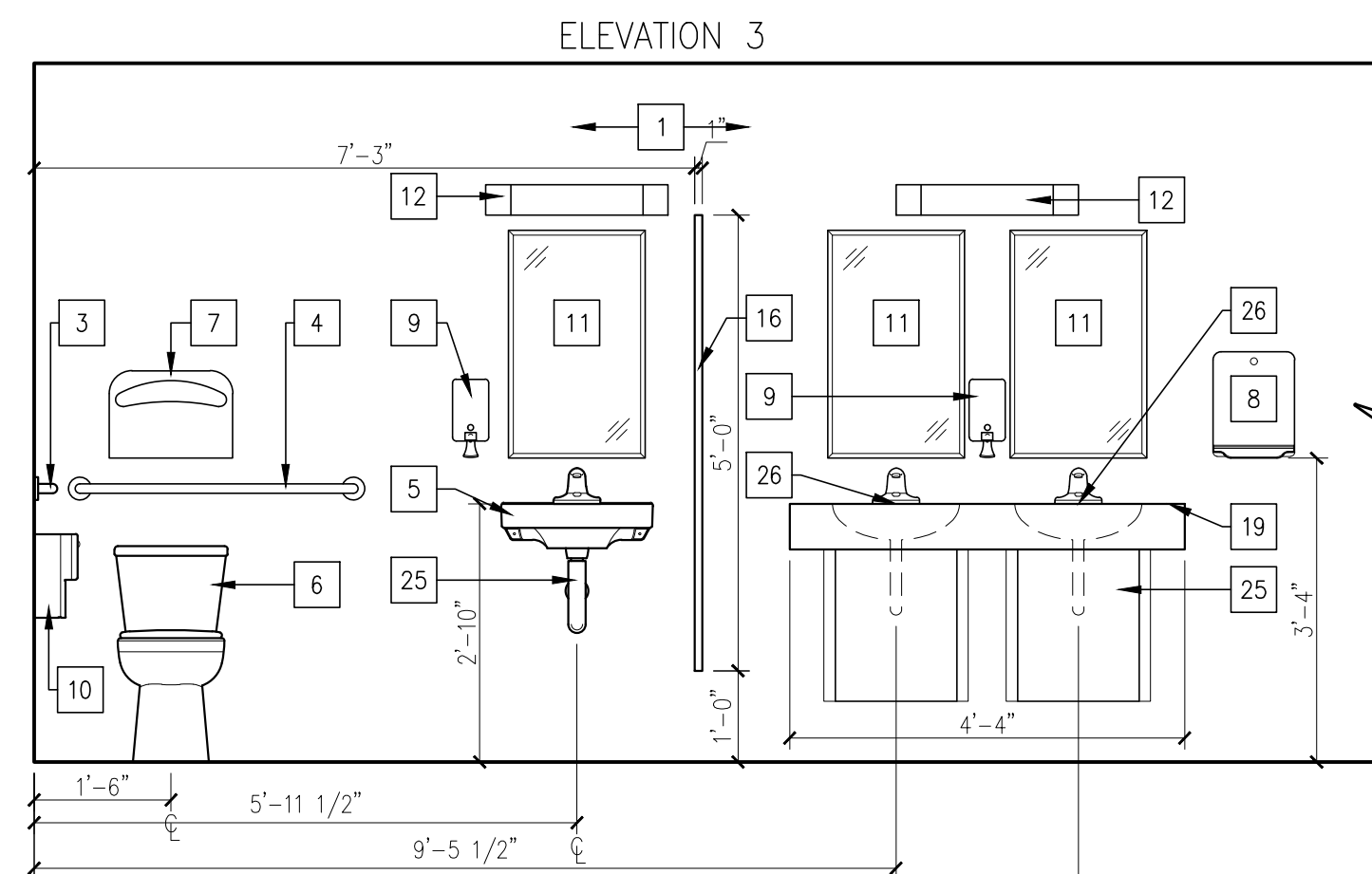
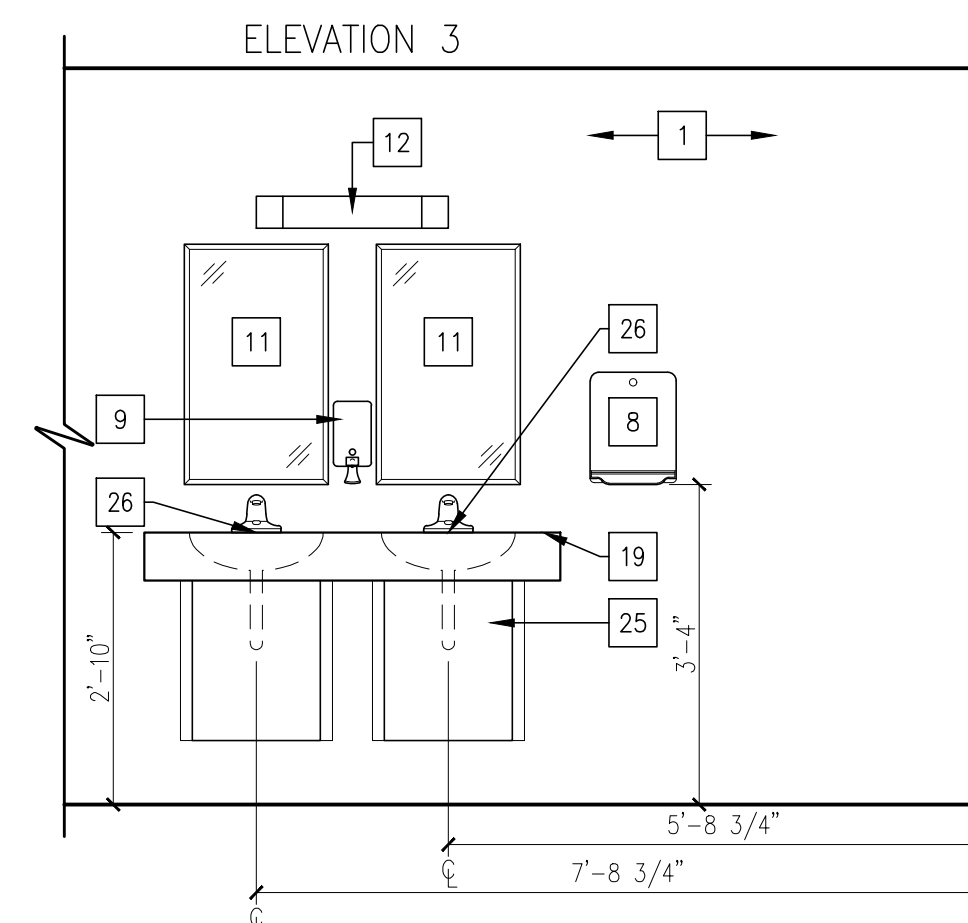
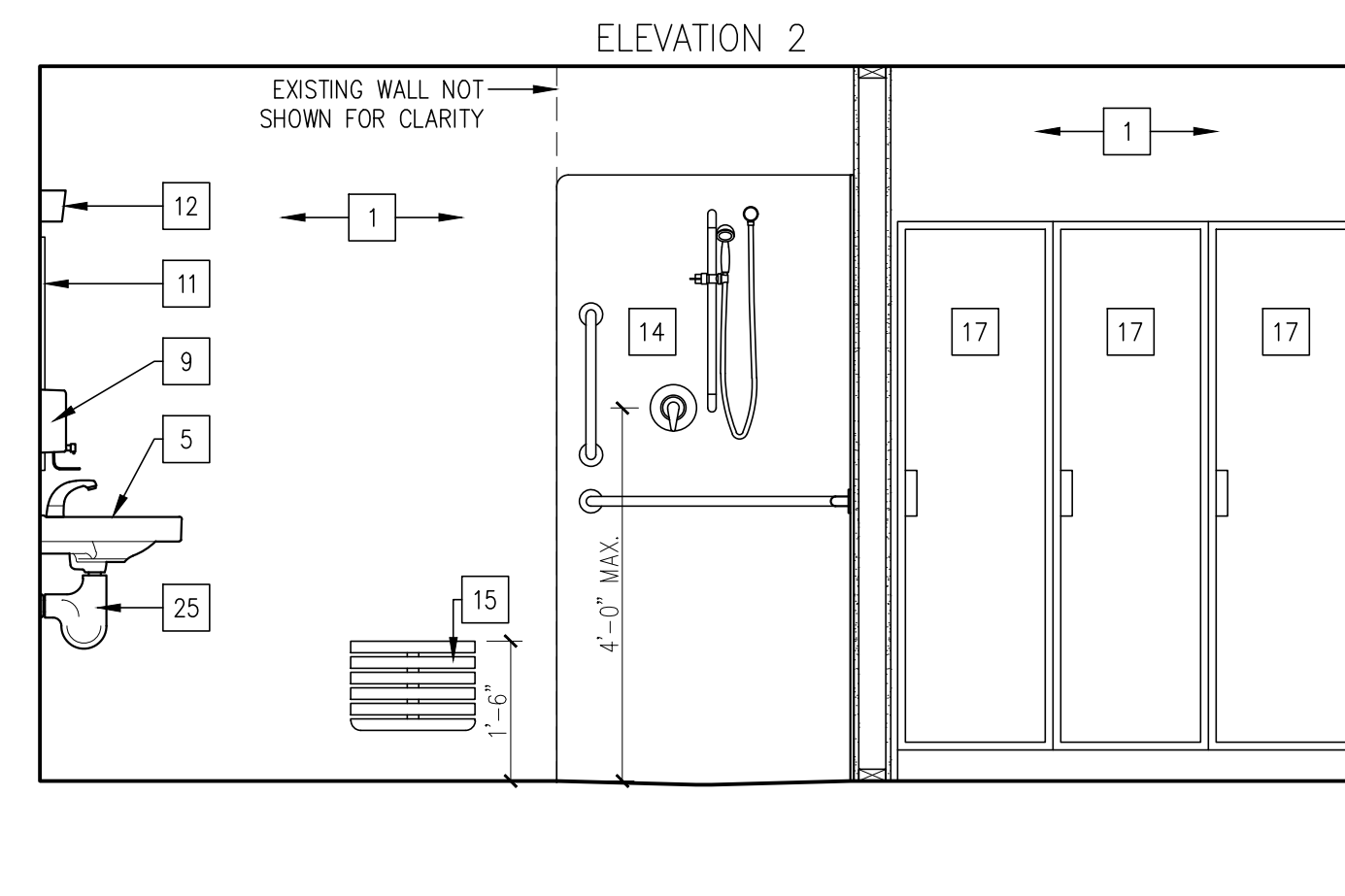
6 INT. ELEVATION  
 1/2" = 1'-0"



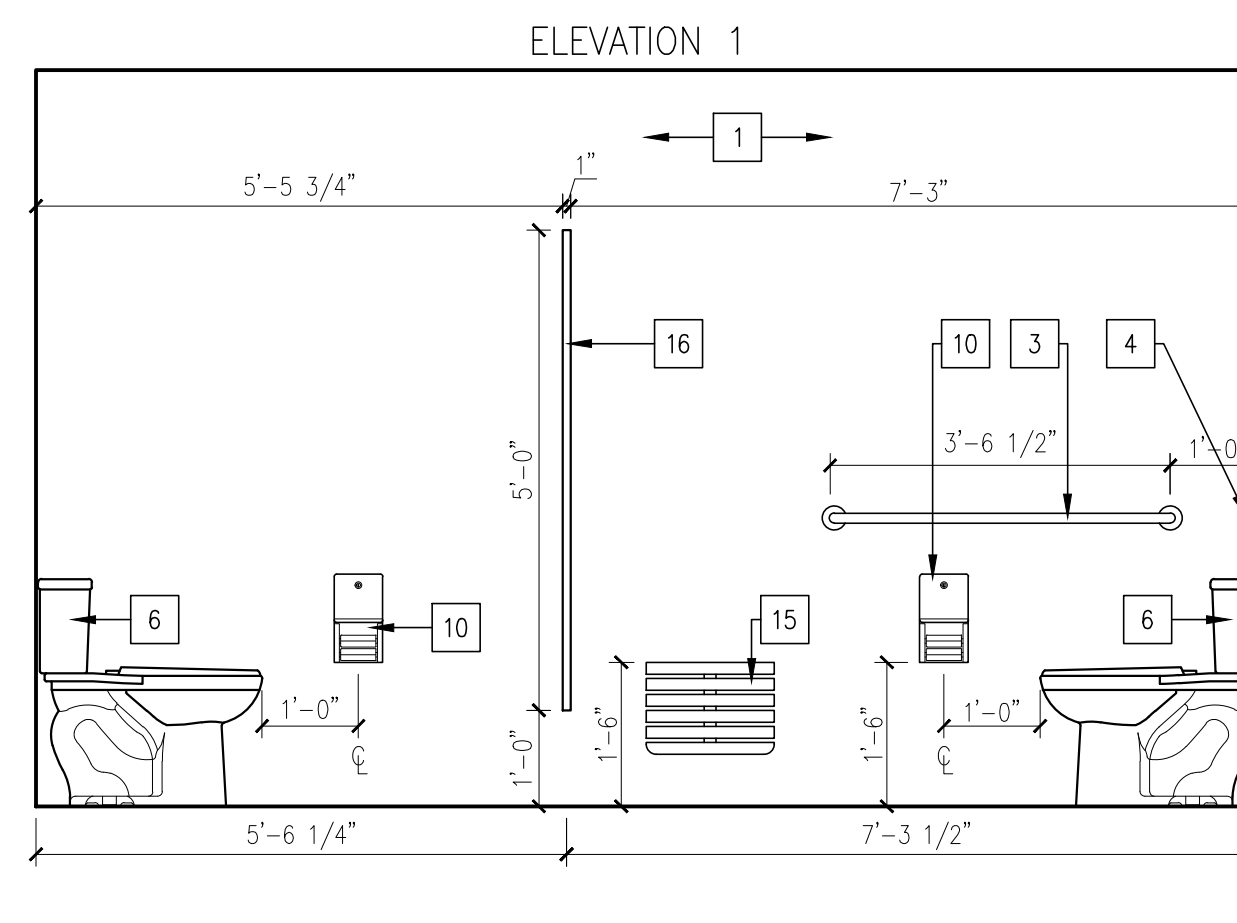
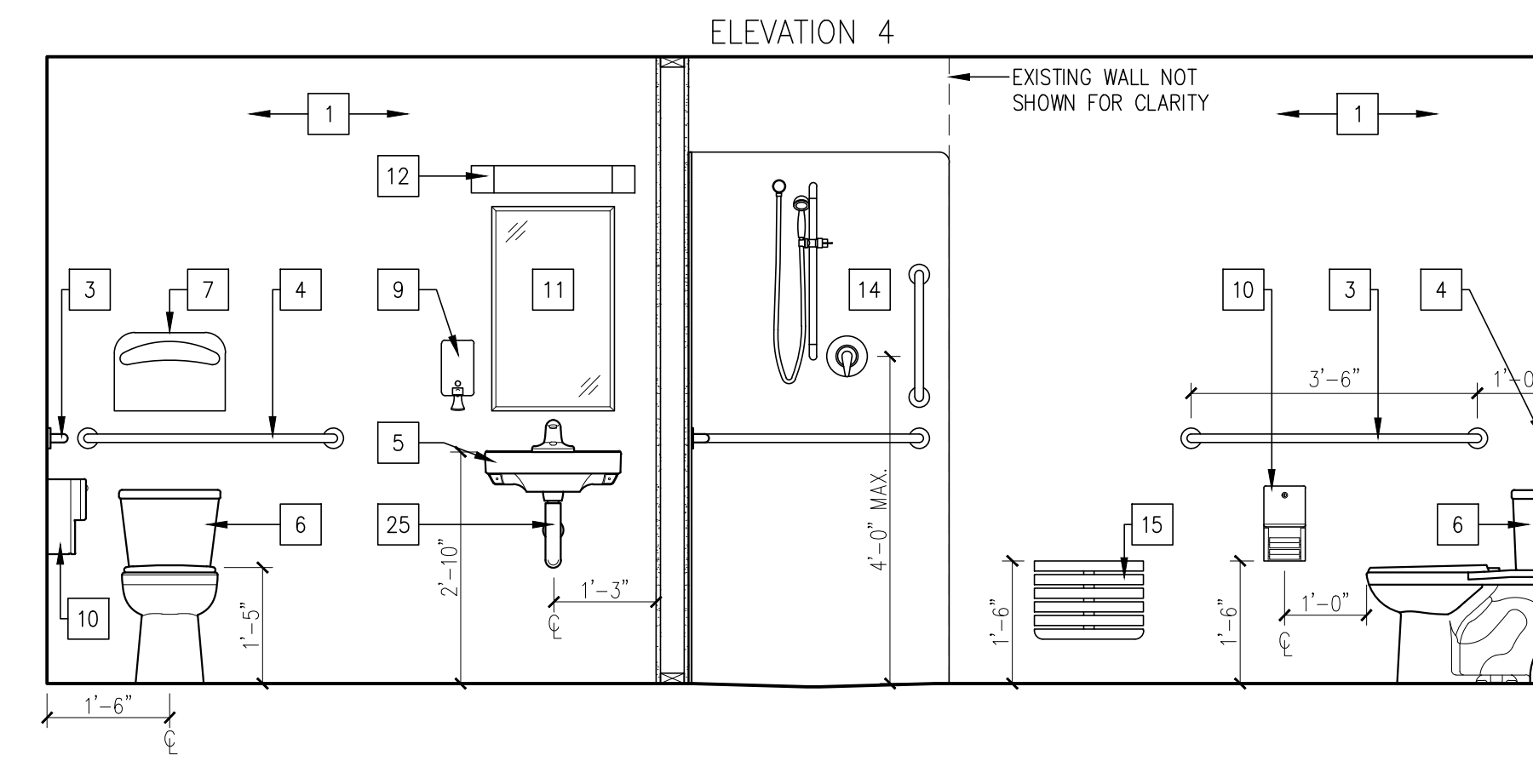
5 INT. ELEVATION  
 1/2" = 1'-0"



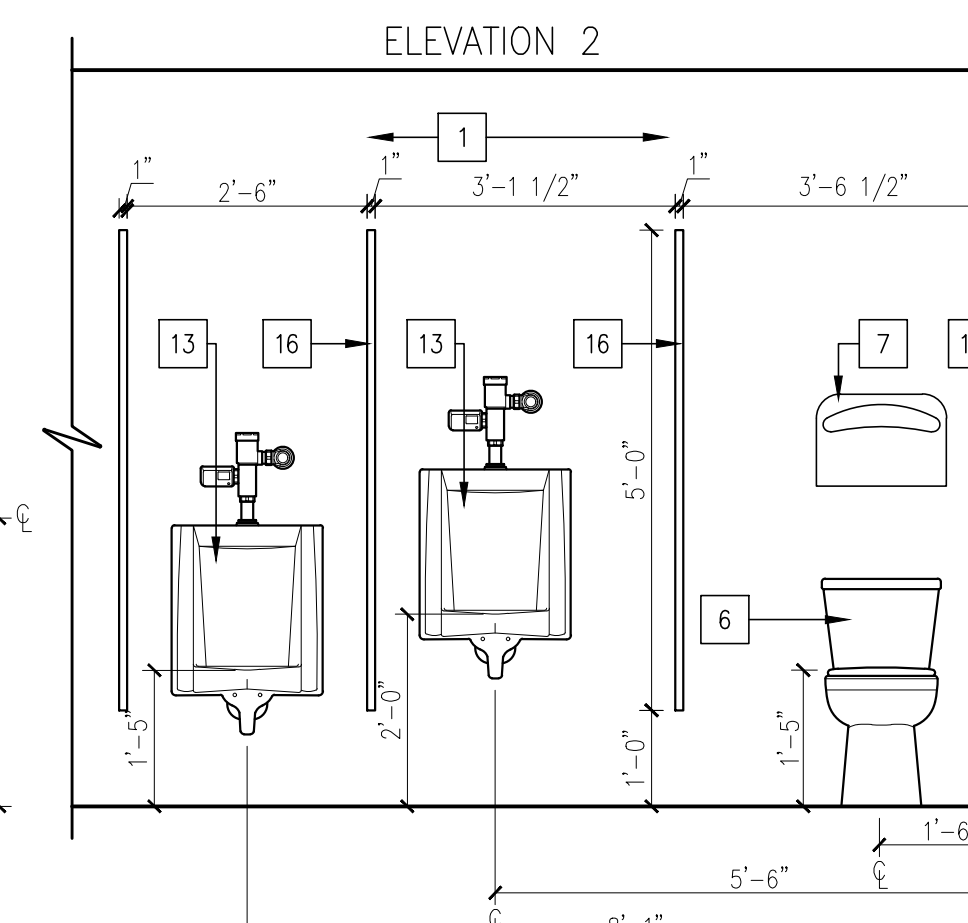
4 ENLARGED PLANS  
 1/2" = 1'-0"



3 ENLARGED PLANS  
 1/2" = 1'-0"

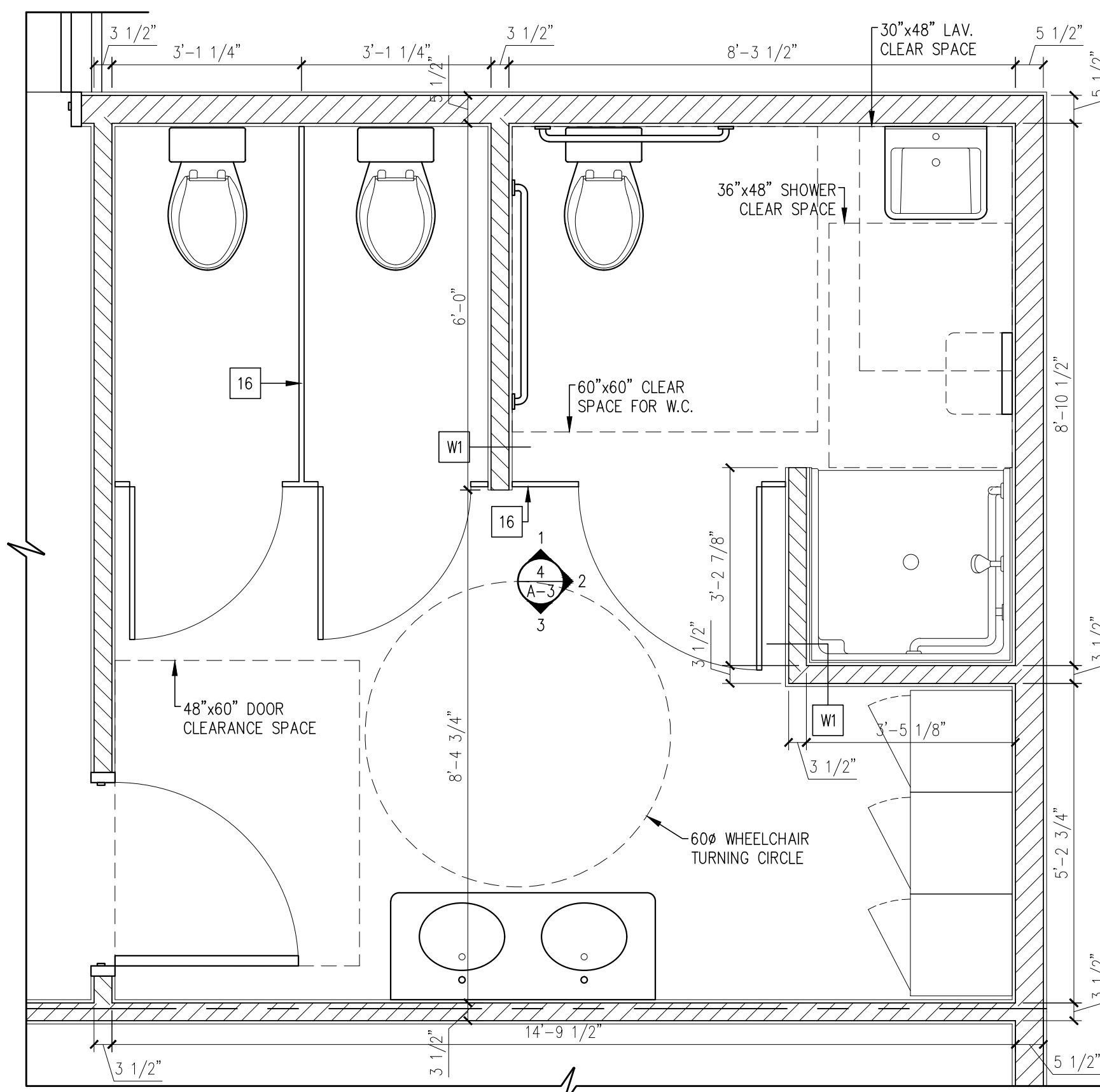


3 ENLARGED PLANS  
 1/2" = 1'-0"

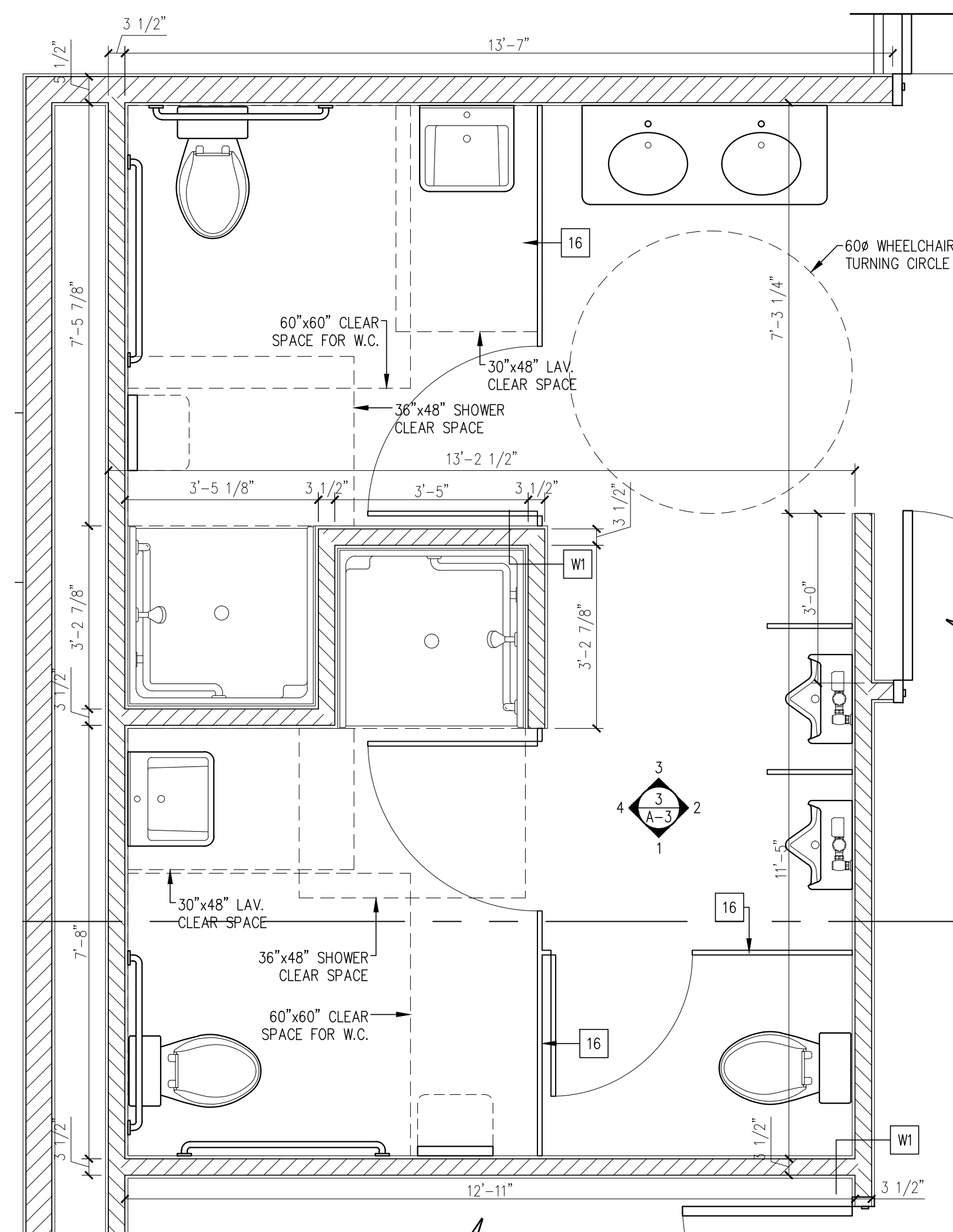


INT. ELEVATION KEYNOTES	
1	MOISTURE RESISTANT PANELS (FRP).
2	NOT USED
3	BOBRICK B-6806 36" CONCEALED SCREW STAINLESS STEEL GRAB BAR
4	BOBRICK B6806 42" CONCEALED SCREW STAINLESS STEEL GRAB BAR
5	ADA COMPLIANT WALL HUNG LAVATORY AND SENSORED FAUCET. REF. PLUMBING DWGS.
6	COMFORT HEIGHT ELONGATED TOILET WITH FLUSH LEVER TANK CONTROL. REF. PLUMBING DWGS.
7	TOILET SEAT COVER DISPENSER
8	BOBRICK B-262 PAPER TOWEL DISPENSER
9	BOBRICK B-2111 STAINLESS SOAP DISPENSER
10	BOBRICK-2888 TOILET TISSUE DISPENSER
11	BOBRICK B-16 18"x30" STAINLESS STEEL CHANNEL FRAME MIRROR
12	24" VANITY LIGHT
13	WALL HUNG URINAL, REF. PLUMBING DRAWINGS

14	ADA COMPLIANT TRANSFER SHOWER
15	ADA COMPLIANT FOLD DOWN SHOWER SEAT
16	SOLID PLASTIC (HPDE) TOILET PARTITION AS SELECTED BY OWNER
17	72" TALL LOCKER CABINET
18	PLYWOOD SUPPORT BRACKETS
19	SOLID SURFACE COUNTERTOP WITH 4" INTEGRAL BACKSPASH AS SELECTED BY OWNER, PROVIDE PLYWOOD SUBSTRATE AS REQUIRED
20	24"D KRAFTMAID LEVEL 5 LYNDALE OR EQUAL BASE CABINET W/ ADJUSTABLE SHELVES
21	24"D KRAFTMAID LEVEL 5 LYNDALE OR EQUAL SINK BASE CABINETS W/ ADJUSTABLE SHELVES
22	UNDERMOUNT SINK WITH SPOT RESIST AND ONE HANDLE PULL DOWN KITCHEN FAUCET. REF. PLUMBING DWGS.
23	12"D KRAFTMAID LEVEL 5 LYNDALE OR EQUAL WALL CABINETS W/ ADJUSTABLE SHELVES
24	NOT USED
25	LAV SHIELD/SHROUD @ COUNTERTOP SINK (ADA COMPLIANT) OR INSULATED SCALD GUARD @ WALL MOUNTED HAND SINK
26	UNDERMOUNT SINK & 4" SENSORED FAUCETS CENTERS. REF. PLUMBING & ELECT. DWGS.



2 WOMEN'S RESTROOM ENLARGED PLAN  
 1/2" = 1'-0"



1 MEN'S RESTROOM ENLARGED PLANS  
 1/2" = 1'-0"

LEE COUNTY SOLID WASTE TRANSFER  
 STATION EMPLOYEE BUILDING  
 10450-10550 BUCKINGHAM ROAD  
 FORT MYERS, FL 33905

**CASTELLANOS + TRAMONTE**  
 ARCHITECTS  
 1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904  
 (239) 549-0997 AA 26003303

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70% REVIEW COMMENTS:	6/7/24
PERMIT/BID SET:	8/23/24

ARCHITECT/ENGINEER  
 STAMP

DRAWING NAME:  
 ENLARGED PLANS &  
 INTERIOR ELEVATIONS

SHEET  
 A-3

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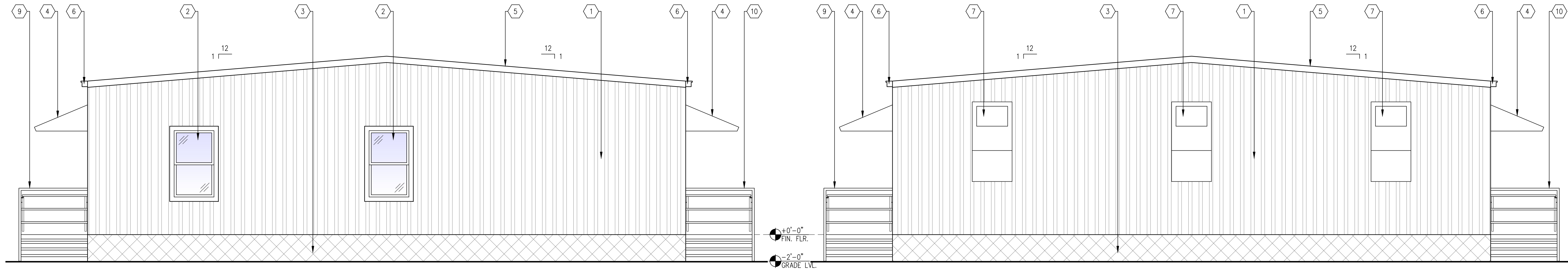
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BUILDING ELEVATIONS

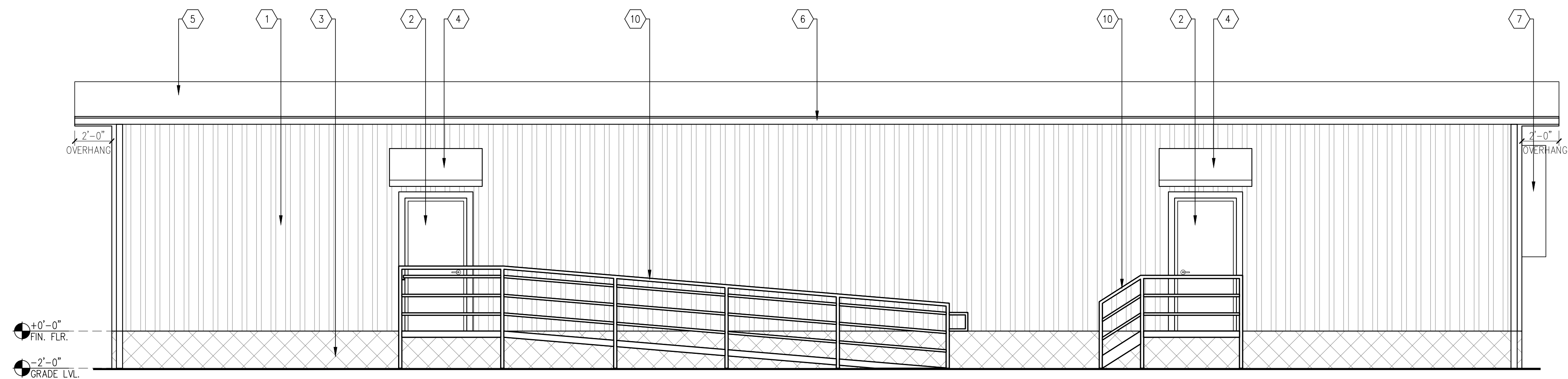
SHEET  
**A-4**



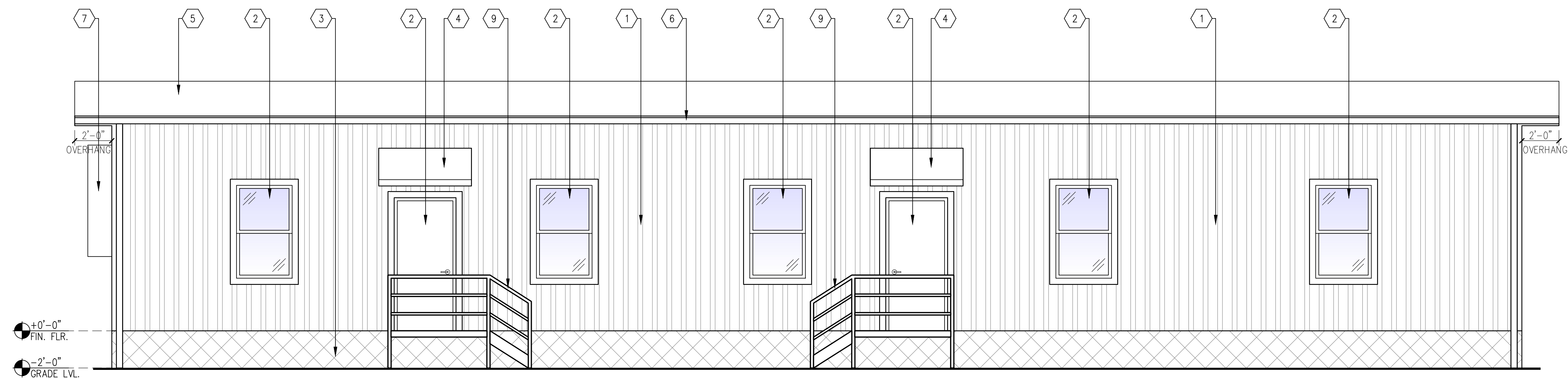
4 BUILDING ELEVATION  
1/4" = 1'-0"

3 BUILDING ELEVATION  
1/4" = 1'-0"

ELEVATION KEYNOTES	
1	HI-RIB STEEL SIDING AND TRIM.
2	SEE A-1 FOR DOOR & WINDOW TYPES.
3	DECORATIVE PTD. LATTICE FENCING TO COVER CRAWL SPACE.
4	CANVAS AWNINGS SUBMITTED UNDER A SEPARATE PERMIT.
5	17'12" SLOPED ROOF WITH ADHERED EPDM ROOF SYSTEM.
6	NEW 5" .032 ALUM. PRE-FINISHED BOX GUTTERS, ATTACHED TO 5x4" ALUM. DOWNSPOUTS SECURED @ 48" TO WALL.
7	A/C. UNIT, REF. MECHANICALS.
8	NOT USED.
9	PREFABRICATED ALUM. OR STEEL PAN RAMP AND LANDING BY STAIR MANUFACTURER W/ NON-SLIP GRIPPING SURFACE AND 36" H HANDRAILS ON BOTH SIDES. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION W/ A DIAMETER OF 1-1/4" TO 2" AND A 12" EXTENSION AT THE BOTTOM. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 2-1/4". SLOPE MUST BE NOT STEEPER THAN 1:12.
10	PREFABRICATED ALUMINUM RAMP AND LANDING BY RAMP/STAIR MANUFACTURER W/ NON-SLIP GRIPPING SURFACE AND 36" H HANDRAILS ON BOTH SIDES. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION W/ A DIAMETER OF 1-1/4" TO 2" AND A 12" EXTENSION AT THE BOTTOM. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 2-1/4". THREADS MUST BE 11", RISERS 7" MAX. HEIGHT, TYP.
11	NOT USED.

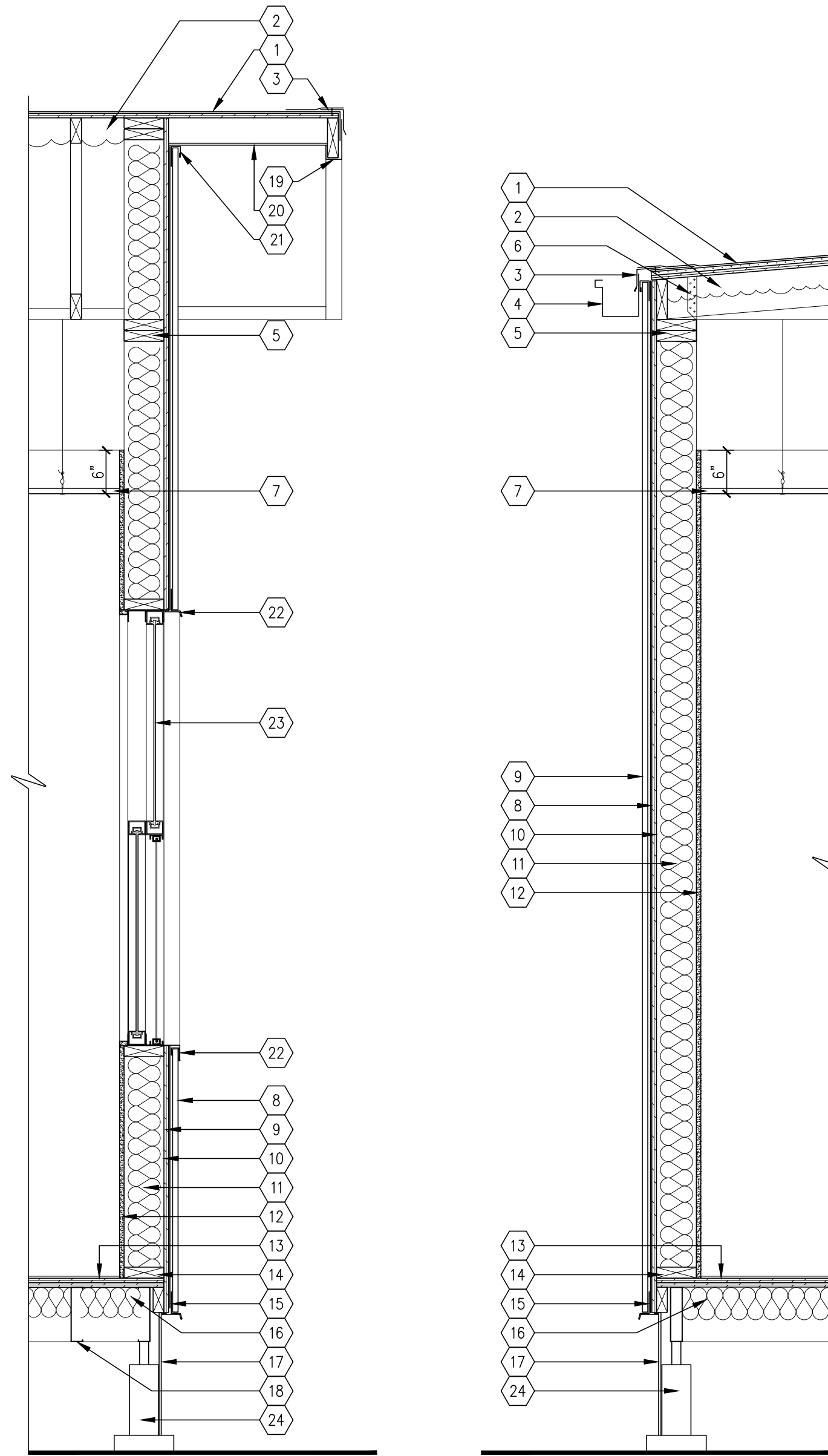


2 BUILDING ELEVATION  
1/4" = 1'-0"



1 BUILDING ELEVATION  
1/4" = 1'-0"

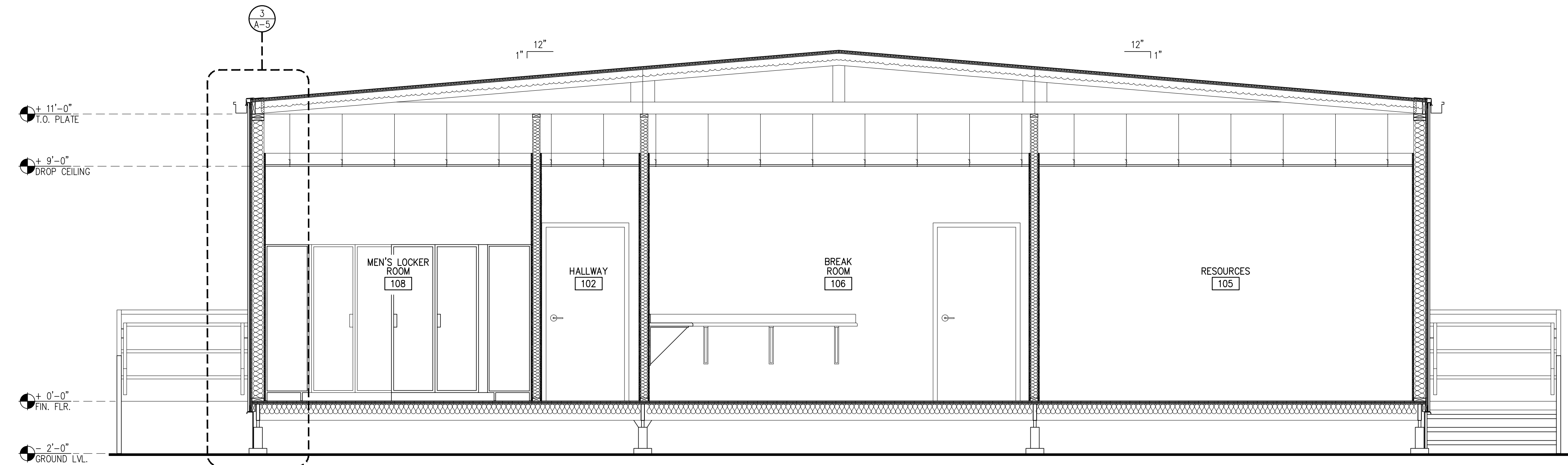
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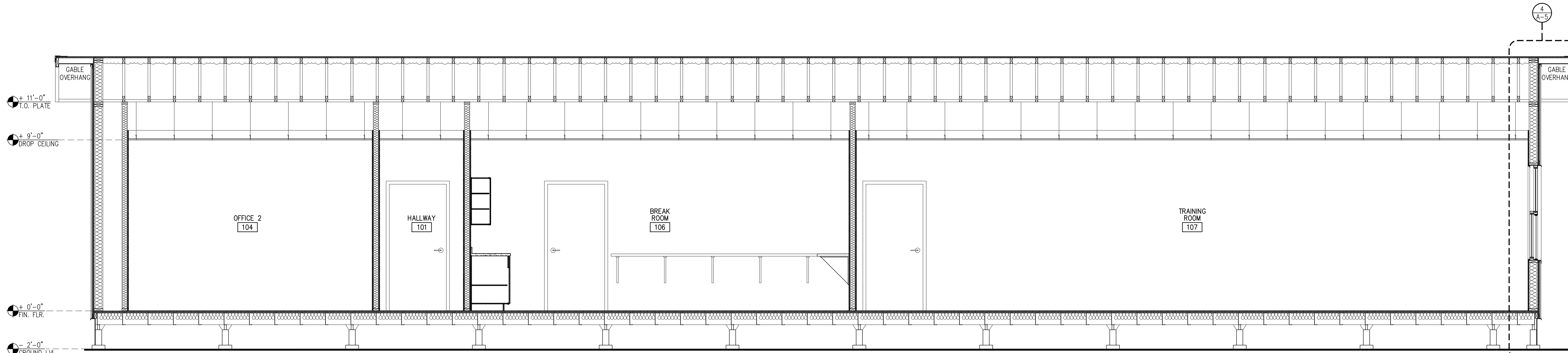
4 WALL SECTION  
3/4" = 1'-0"

3 WALL SECTION  
3/4" = 1'-0"

WALL SECTION KEYNOTES	
1	SINGLE-PLY 60 MIL EPDM NR ROOFING SYSTEM ADHERED TO 1/2" PROTECTOR HD ADHERED TO MIN 19/32" PLYWOOD ACCORDING TO FL41356-R4 W-A-2
2	SPRAY FOAM INSULATION TO UNDERSIDE PLYWOOD
3	24 GA. KYNAR FINISH DRIP-EDGE.
4	24 GA. 5" BOX GUTTERS WITH 3"x4" SQUARE DOWNSPOUTS.
5	(2) 2x6 TOP PLATE
6	HURRICANE STRAPS @ EACH TRUSS.
7	DROPPED ACOUSTIC CEILING TILE
8	MIN. 19/32" APA PLYWOOD SECURED TO STUDS.
9	26 GA. MASTER-RIB WALL PANELS ATTACHED TO PLYWOOD WITH FASTENERS SPECIFIED IN FLORIDA APPROVAL CODE FL20484.5-R1 INCLUDING DUPONT TYVEK HOMEWRAP UNDERLAYMENT ATTACHED TO PLYWOOD.
10	2x6" WOOD STUDS @ 16" O.C. (TYP.)
11	R-19 BATT INSULATION
12	5/8" PTD. GYP. BD. ATTACHED TO WOOD STUDS.
13	(2) 5/8" CDX PLYWOOD ATTACHED TO METAL JOISTS.
14	2x6" BASE PLATE.
15	26 GA. KYNAR FINISH SILL TRIM.
16	R-30 BATT INSULATION TO UNDERSIDE FLOOR
17	DECORATIVE LATTICE.
18	STEEL FLOOR JOISTS @ 16" O.C., R REF. STRUCT. DWGS.
19	24 GA. KYNAR FINISH METAL 2x WRAPPED FASCIA.
20	WHITE ALUMINUM SOFFIT.
21	26 GA. STEEL KYNAR FINISH J-CHANNEL.
22	26 GA. STEEL KYNAR FINISH J-TRIM WINDOW SILL.
23	NEW WINDOW, SEE WINDOW SCHEDULES.
24	FOUNDATION DESIGNED AND INSTALLED BY MODULAR BUILDING CONTRACTOR.



2 BUILDING SECTION  
3/8" = 1'-0"



1 BUILDING SECTION  
3/8" = 1'-0"

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ARCHITECT/ENGINEER  
STAMP

DRAWING NAME:  
BUILDING SECTIONS  
& WALL SECTIONS

SHEET  
A-5

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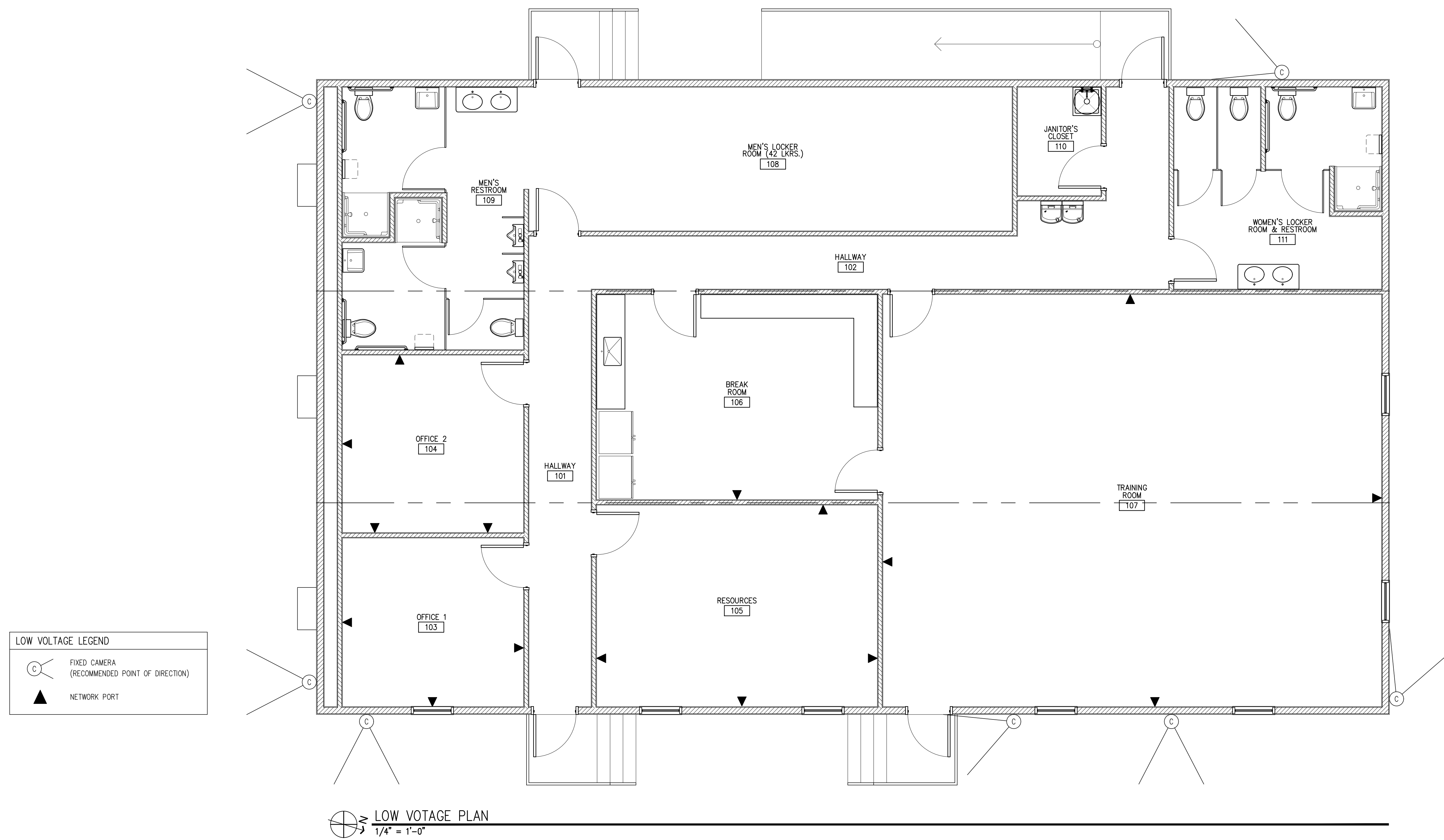
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LOW VOLTAGE PLAN

SHEET  
**A-6**



**LOW VOLTAGE LEGEND**

	FIXED CAMERA (RECOMMENDED POINT OF DIRECTION)
	NETWORK PORT

**LOW VOLTAGE PLAN**  
1/4" = 1'-0"



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DIVISION 1 GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

PART 1 - GENERAL
1.1 SUMMARY OF WORK
A. Project: LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING
B. Owner: LEE COUNTY
C. Architect: CASTELLANOS + TRAMONTE ARCHITECTS.

SECTION 01200 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL
1.1 PAYMENT PROCEDURES
A. Submit a Schedule of Values at least 5 days before the initial Application for Payment. Break down the Contract Sum into at least one line item for each Specification Section.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL
1.1 PROJECT MANAGEMENT AND COORDINATION
A. Coordinate construction to ensure efficient and orderly installation of each part of the Work.

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS
A. Product Data: Mark each copy to show applicable choices and options. Include the following:
1. Data indicating compliance with specified standards and requirements.

2.3 DELEGATED DESIGN

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required by Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 SECTION REQUIREMENTS
A. Testing and inspecting services are required to verify compliance with requirements specified or indicated.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 SECTION REQUIREMENTS
A. Use Charges: Estimate use charges for temporary facilities shall be included in the Contract Sum.

SECTION 01420 - REFERENCES

- 1.1 GENERAL REQUIREMENTS
A.1 American Laminators Association (www.lma.org)
LPI Lighting Protection Institute (800) 488-6864
www.lighting.org (847) 577-7200
MBMA Metal Building Manufacturers Association (216) 241-7333 www.mbma.com

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 SECTION REQUIREMENTS
A. Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and surface water to adjacent properties and walkways, according to requirements of authorities having jurisdiction.

SECTION 01600 - PRODUCT REQUIREMENTS

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

SECTION 01700 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 - GENERAL
1.1 CLOSEOUT SUBMITTALS
A. Record Drawings: Maintain a set of prints of the Contract Drawings as Record Drawings. Mark to show actual installation where installation varies from that shown originally.

SECTION 02361 - TERMITE CONTROL

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and product certificates for each type of product indicated. Include the EPA-Registered Label.

DIVISION 3 CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS (SEE SHEET S-1 FOR ADDITIONAL STRUCTURAL NOTES)
A. Submittals: Product Data, concrete mix designs and submittals required by ACI 301.

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ARCHITECT/ENGINEER STAMP

DRAWING NAME:

SPECIFICATIONS

SHEET
SP-1

DIVISION 6

SECTION 06100 - ROUGH CARPENTRY

- 1.1 SECTION REQUIREMENTS
A. Submittals: Model code evaluation reports for treated wood.

- 2.1 WOOD PRODUCTS
A. Lumber: Provide dressed lumber, 5/4S, 19 percent maximum moisture content for 2-inch nominal thickness or less...

- 2.2 TREATED MATERIALS
A. Preservative-Treated Materials: AWWA C2 Lumber and AWWA C27 Lumber...

- 2.3 LUMBER
A. Dimension Lumber: The following grades are per inspection agency indicated...

- 2.4 MISCELLANEOUS PRODUCTS
A. Fasteners: Provide as indicated...

DIVISION 7 THERMAL AND MOISTURE PROTECTION

- 1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.

- 2.1 INSULATION PRODUCTS
A. Foil-Faced Polystyrene Board Insulation: ASTM C 1289, Type I, Class 1 or 2...

- 2.2 JOINT SEALANTS
A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another...

- 2.3 WINDOW FRAMES
A. General: Provide sealant backings of material and type that are nonstaining...

- 2.4 SHOP FINISHING OF INTERIOR ARCHITECTURAL WOODWORK
A. Finishes: Same grades as items to be finished.

DIVISION 8 DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

- 1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and door schedule.

- 2.1 MATERIALS
A. Hot-Rolled Steel Sheets: ASTM A 1011/A 1011M.

- 2.2 STEEL DOORS AND FRAMES
A. Manufacturers: CECC DOOR, ASSA ABLÖV, Door Silencers, etc.

- 2.3 GLAZING
A. Glazing Stops: Nonremovable stops on outside of exterior doors...

- 2.4 SUPPLIER
A. All items of Finish Hardware shall be delivered to the project site...

SECTION 08200 - GYPSUM BOARD ASSEMBLIES

- 1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Samples.

- 2.1 METAL FRAMING AND SUPPORTS
A. Steel Framing Members, General: ASTM C 754.

- 2.2 PANEL PRODUCTS
A. Interior regular gypsum wallboard: Provide type III, grade R...

- 2.3 PAINTING
A. Summitts: Point exposed surfaces, unless otherwise indicated.

- 2.4 APPLICATION
A. Remove hardware lighting fixtures and similar items that are not to be painted...

SECTION 08910 - PAINTING

- 1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Samples.

- 2.1 METAL FRAMING AND SUPPORTS
A. Steel Framing Members, General: ASTM C 754.

- 2.2 PAINT PRODUCTS
A. Interior regular gypsum wallboard: Provide type III, grade R...

- 2.3 PAINTING
A. Summitts: Point exposed surfaces, unless otherwise indicated.

- 2.4 APPLICATION
A. Remove hardware lighting fixtures and similar items that are not to be painted...

SECTION 09511 - ACOUSTICAL PANEL CEILING

- 1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and material Samples.

- 2.1 METAL FRAMING AND SUPPORTS
A. Steel Framing Members, General: ASTM C 754.

- 2.2 CEILING SUSPENSION SYSTEM
A. Direct-hung: ASTM C 635, intermediate duty structural classification.

- 2.3 INTERIOR PAINT APPLICATION SCHEDULE
A. Concrete, Stucco, and Masonry: Low-Luster Acrylic: Two coats over primer.

- 2.4 APPLICATION
A. Remove hardware lighting fixtures and similar items that are not to be painted...

DIVISION 10 SPECIALTIES

- SECTION 10431 - SIGNS
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data, Shop Drawings, and Samples.

- 2.1 MATERIALS
A. Plastic Laminate: High-pressure laminate engraving stock with face and core in contrasting colors.

- 2.2 SIGNS
A. Unframed Panel Signs: Engraved plastic laminate square-cut edges and square corners.

- 2.3 CEILING
A. Remove hardware lighting fixtures and similar items that are not to be painted...

- 2.4 APPLICATION
A. Remove hardware lighting fixtures and similar items that are not to be painted...

MODULAR BUILDING SPECIALTIES

- DESIGN CRITERIA: BUSINESS OCCUPANCY TYPE V NON-RATED CONSTRUCTION

- FRAME CONSTRUCTION: PERIMETER TYPE 12" STEEL I BEAM, DETACHABLE HITCH

- FLOOR CONSTRUCTION: .040 SIMPLEX BOTTOM BOARD, R-19 INSULATION, STEEL FLOOR JOIST @ 16" O.C.

- EXTERIOR WALL CONSTRUCTION: 2x6" WOOD STUDS @ 16" O.C. R-19 INSULATION HI-RIB STEEL WITH VERTICAL SIDING AND TRIM

- INTERIOR WALL CONSTRUCTION: 2x4" WOOD STUDS @ 16" O.C. TEXTURED PAINTED 5/8" GYPSUM BOARD WITH SOUND BATT INSULATION

- ROOF/CEILING CONSTRUCTION: TRANSVERSE TRUSS WITH A 24" OVERHANG ON GABLES. 5/8" PLYWOOD SHEATHING PER CODE.

- ELECTRICAL: (3) 125 AMP I PHASE 1120/240 VOLT LOAD CENTERS W/ MAIN (4) LED LIGHT

- ELECTRICAL: (4) EXTERIOR INCANDESCENT ENTRANCE LIGHTING, WITH PHOTOCELL AND NO SWITCH.

- ELECTRICAL: (8) LED WALL PACKS ON A PHOTOCELL FOR EXTRA LIGHTING. EXHAUST FAN.

- ELECTRICAL: (2) FLOOR QUAD OUTLETS. (2) WALL QUAD OUTLETS.

- ELECTRICAL: (2) FLOOR QUAD OUTLETS. (2) WALL QUAD OUTLETS.

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DIVISION 11 EQUIPMENT

- NOT APPLICABLE

DIVISION 12 FURNISHINGS

- NOT APPLICABLE

DIVISION 13 SPECIAL CONSTRUCTION

- NOT APPLICABLE

DIVISION 14 CONVEYING SYSTEMS

- NOT APPLICABLE

DIVISION 15 MECHANICAL

- REFERENCE MECHANICAL DRAWINGS

DIVISION 16 ELECTRICAL

- REFERENCE ELECTRICAL DRAWINGS

BLU&C:

- (3) 5.0 TON 10 KW WALL MOUNT. HAVC UNIT(S) - (2) OF THE FLOORS WITH ERV & DEHUM FOR THE LARGE AREAS.

- (2) FLOOR QUAD OUTLETS. (2) WALL QUAD OUTLETS.

- (2) FLOOR QUAD OUTLETS. (2) WALL QUAD OUTLETS.

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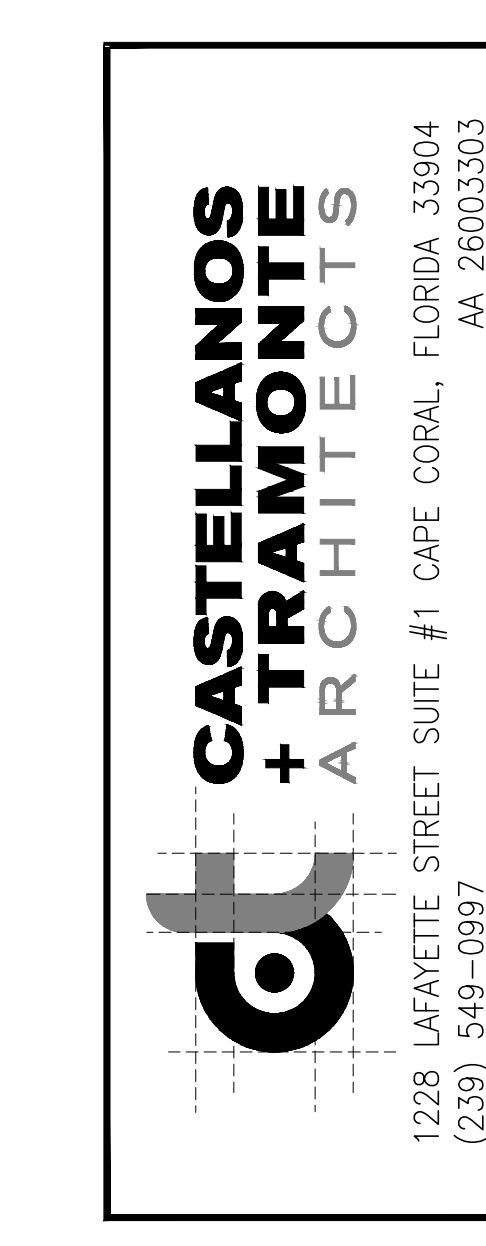
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LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING 10450-10550 BUCKINGHAM ROAD FORT MYERS, FL 33905



1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904 (239) 549-0997 AA 26003303

Table with 2 columns: Field Name and Value. Fields include DRAWN BY (DDG), CHECKED BY (BAM), ISSUED FOR, PRELIMINARY SET (11/7/23), 60% REVIEW COMMENTS (4/24/24), 70% REVIEW COMMENTS (6/7/24), and PERMIT/BID SET (8/23/24).

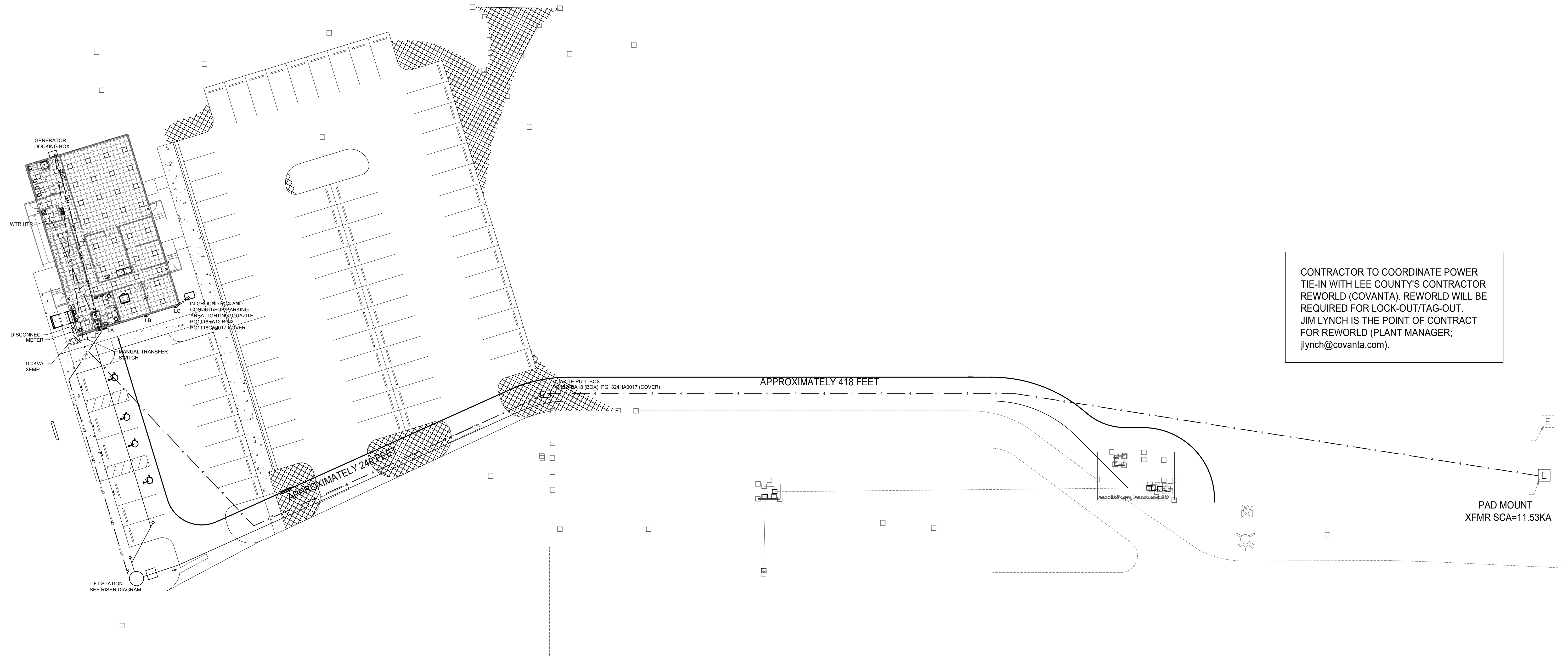
ARCHITECT/ENGINEER STAMP

DRAWING NAME: SPECIFICATIONS

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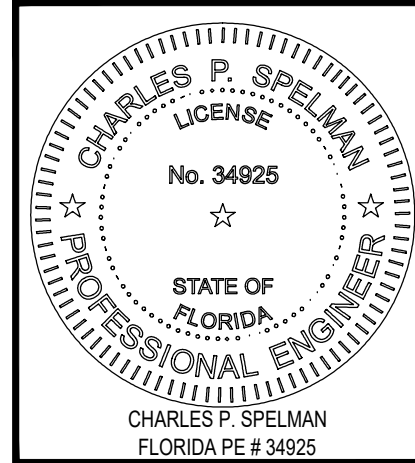


CONTRACTOR TO COORDINATE POWER TIE-IN WITH LEE COUNTY'S CONTRACTOR REWORLD (COVANTA). REWORLD WILL BE REQUIRED FOR LOCK-OUT/TAG-OUT. JIM LYNCH IS THE POINT OF CONTRACT FOR REWORLD (PLANT MANAGER; jlynch@covanta.com).

EMPLOYEE RESOURCE BUILDING  
LEE COUNTY, FLORIDA

**CASTELLANOS + TRAMONTE ARCHITECTS**  
1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904  
(239) 549-0997

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PRELIMINARY SET:	11/7/23
100% PERMIT SET:	07/24/24



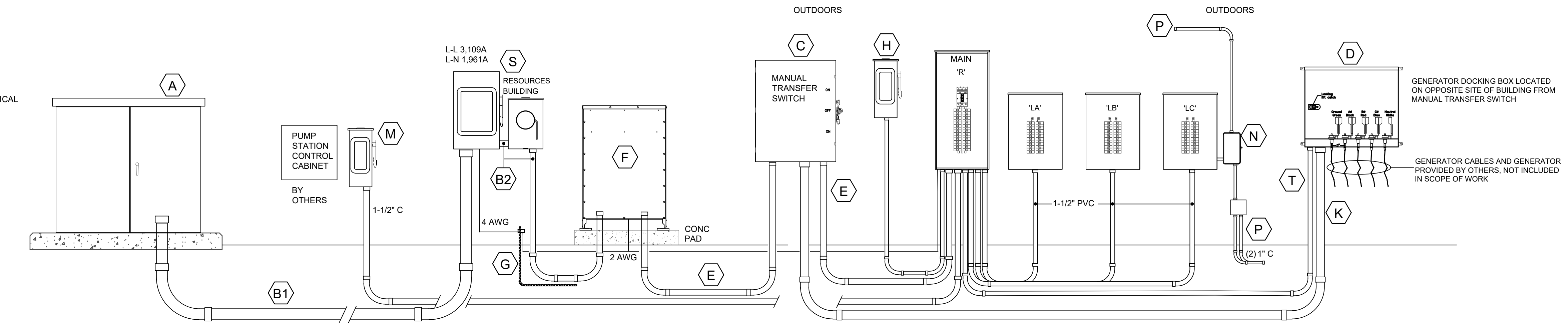
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SITE PLAN  
NOT TO SCALE

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**E-2**  
2 OF 5

SPELMAN ENGINEERING, INC.  
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PHONE 239/770-2930  
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PROJECT 240202  
CHARLES P SPELMAN  
Florida License #34925 FL CA #26955

**ELECTRICAL RISER NOTES**

- (A) FPL PAD MOUNTED TRANSFORMER 480Y/277VAC, 3Ø, 4 WIRE SCA=11.53KA
- (B1) SERVICE ENTRANCE: INSTALL 4" SCHEDULE 80 PVC W/ (4) 2/0 AWG, 75°C, THWN CONDUCTORS.
- (B2) SERVICE ENTRANCE: INSTALL 2" SCHEDULE 80 PVC W/ (4) 2/0 AWG, 75°C, THWN CONDUCTORS.
- (C) MANUAL TRANSFER SWITCH: THOMSON 150A, 3-POLE, 4W, SERVICE ENTRANCE RATED, TS873A0400A2C-E-7-D-NKAA-TCP, IN NEMA 3R ENCLOSURE
- (D) GENERATOR DOCKING BOX: GDS-4 DOCKING STATION WITH MALE CAMLOKS, ALUMINUM ENCLOSURE, ROTATION METER, 400A, 3Ø, WALL MOUNT, MECHANICAL CONNECTION, GDS-043W-LF-C-G
- (E) FEEDER: 3" SCHEDULE 40 PVC CONDUIT W/ (3) 300 KCMIL, (1) 3/0 AWG [N], (1) 3 AWG [EG], 75°C, THWN CONDUCTORS.
- (F) TRANSFORMER: FLOOR MOUNTED TO CONCRETE PAD, WEATHERSHIELD 7400WS22K; EQUAL TO SQ D EX150T3H, 150KVA, 480V DELTA PRJ - 2Ø8Y/120V SECONDARY. SET ON (4) VIBRA PAD SRMP-0404.
- (G) GROUNDING ELECTRODE CONDUCTOR: 2 AWG TO CONCRETE ENCASED ELECTRODE AND OTHER AVAILABLE ELECTRODES SIZE TO ARTICLE 250.
- (H) WATER HEATER DISCONNECT: SQUARE D DU322, 60A, 3BLADE, NO FUSE, NEMA 1 SAFETY SWITCH, 1" SCHEDULE 40 PVC CONDUIT (3) 8 AWG, (1) 10 AWG [EG], 75°C, THWN CONDUCTORS
- (J) GROUNDING ELECTRODE CONDUCTOR: 4 AWG TO CONCRETE ENCASED ELECTRODE, PROTECT CONDUCTOR WITH SCHEDULE 80 PVC, GROUND CASE AND 'XO' TERMINAL
- (K) GENERATOR FEEDER: PROVIDE 3" SCHEDULE 80 PVC W/ (3) 300 KCMIL, (1) 3/0 AWG [N], (1) 3 AWG [EG], 75°C, THWN CONDUCTORS.
- (L) XFMR SECONDARY CONDUCTORS: PROVIDE 1-1/2" SCHEDULE 80 PVC WITH (3) 1 AWG, (1) 1 AWG [N], (1) 6 AWG [EG], 75°C, THWN CONDUCTORS
- (M) LIFT STATION DISCONNECT: PROVIDE CONCRETE POST WITH STAINLESS STEEL STRUT SUPPORT FOR SQUARE D H362RB, 240V, 60A, 3-POLE, FUSIBLE, NEMA 3R, PROVIDE GROUNDING TERMINAL KIT GTK0610C, CONTROL CABINET PROVIDED BY OTHERS
- (N) EXTERIOR LIGHTING TIME SWITCH: 120-277VAC WITH ASTRONOMIC DIAL, SUPER-CAPACITOR 100-HOUR CARRY OVER, 4 LOAD CIRCUITS, INTERMATIC MODEL ET2845CR
- (P) PROVIDE (2) 1" PVC SCHEDULE 40 CONDUITS AS SHOWN ON E-2 FOR PARKING AREA LIGHTING TO QUAZITE BOX 11 x 17" AND INTO ELECTRICAL ROOM PULL BOX, PROVIDE 3/4" EMT TO TIME SWITCH, PROVIDE WIRING FROM EXTERIOR BUILDING LIGHTING TO TIME SWITCH.



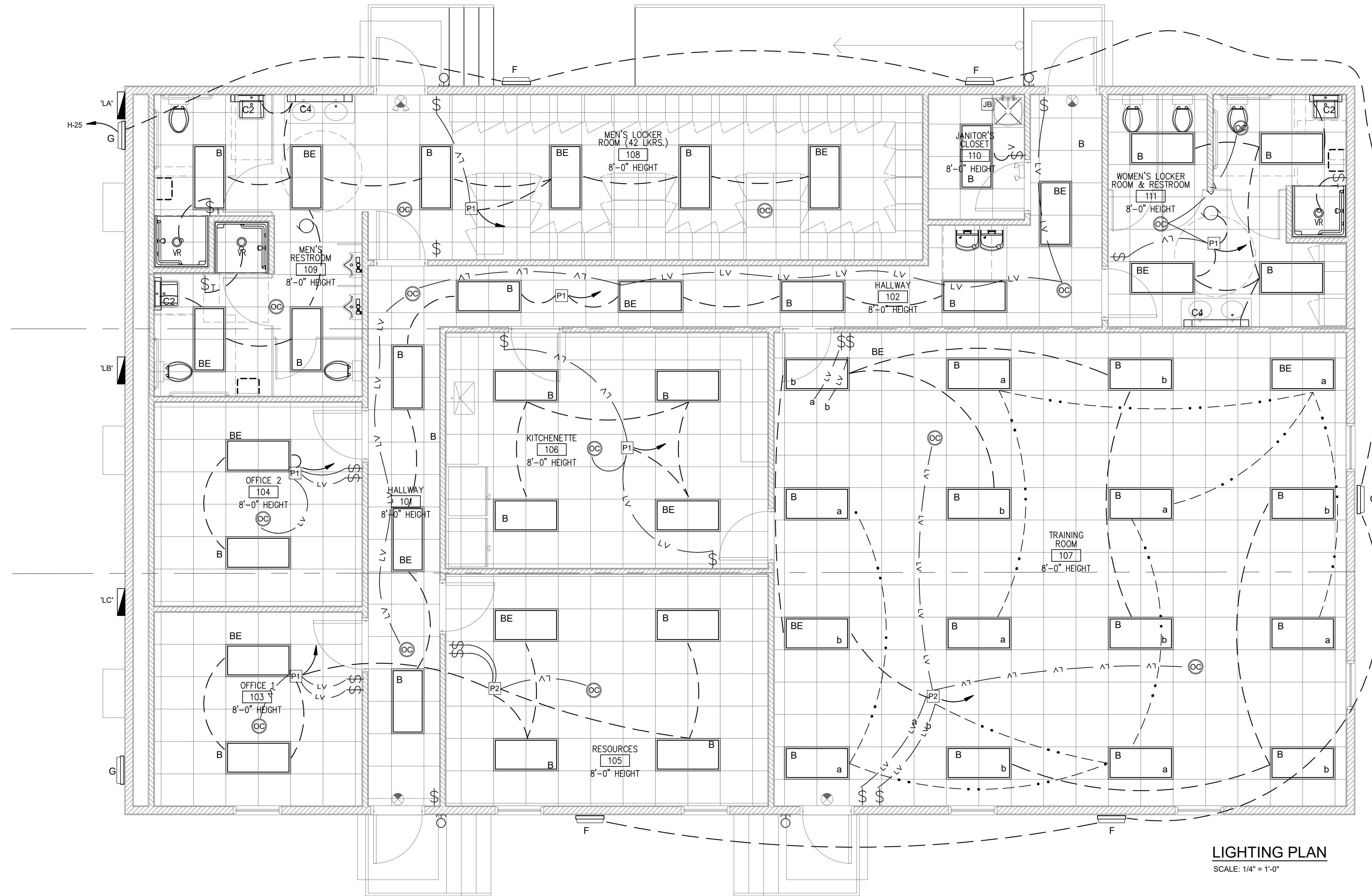
**ELECTRICAL RISER DIAGRAM**

- (R) EQUIPMENT SERVICE DISCONNECT: EQUAL TO SQUARE D HU382RB, 60A, 3-POLE, NO FUSE, NEMA 3R ENCLOSURE PROVIDE GROUNDING TERMINAL KIT GTK0610C, LTMC CONNECTION TO XFMR, REFER TO PANEL SCHEDULE FOR CONDUCTORS.
- (S) DISCONNECT AND METER ENCLOSURE: PROVIDE 600V, 200A, NO-FUSE, 3 BLADE, NEMA 3R DISCONNECT SQUARE D HU364RB WITH SN20C NEUTRAL KIT, 200A, 3Ø, 7 WIRE METER WITH LEVER BYPASS IN ALUMINUM ENCLOSURE NEMA 3R.
- (T) BATTERY CHARGER CIRCUIT: 3/4" PVC CONDUIT WITH 12 AWG CONDUCTORS.

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LIGHTING FIXTURE SCHEDULE									
SYMBOL	MOUNTING	LUMENS	KELVIN TEMP	LAMP TYPE	VOLTS	INPUT WATTS	MANUFACTURER	CATALOG NUMBER	REMARKS
B	GRID MOUNTED 2 X 4	3672 4982	<del>3500</del> 4000 <del>5000</del>	LED	MVOLT	35	LITHONIA	CPX 2X4 AL07 80CRI SWW7 SWL MVOLT SSE ADPT BAA	SWITCHABLE LUMENS
BE	GRID MOUNTED 2 X 4	3672 4982	<del>3500</del> 4000 <del>5000</del>	LED	MVOLT	35	LITHONIA	CPX 2X4 AL07 80CRI SWW7 SWL MVOLT E7W SSE ADPT BAA	SWITCHABLE LUMENS EMERGENCY BATTERY
C2	VANITY	1763	4000	LED	120	16	BROWNLEE	5150-26-GM-H16-40K-BAC	
C4	VANITY	3490	4000	LED	120	32	BROWNLEE	5150-32-GM-H32-40K-BAC	
EM	WALL MOUNTED	1300		LED	120	5.40	COMPASS	CU2HLHO	EMERGENCY LIGHT NIMH BATTERY
EMX	WALL MOUNTED			LED	120	2.80	COMPASS	CCRGRC	COMBO EXIT EMERGENCY NIMH BATTERY
EX	WALL/CEILING		GREEN	LED	120	3.4	COMPASS	CERG	NICAD BATTERY
F	WALL PACK	8500	3000	LED	120	59	LITHONIA	TWR1 LED ALO SWW2 UVOLT PE DDBTXD	ADJUSTABLE, SWITCHABLE, PHOTOCELL
G	WALL PACK	12,100	3000	LED	120	152	LITHONIA	TWR2 LED ALO SWW2 UVOLT PE DDBTXD	ADJUSTABLE, SWITCHABLE, PHOTOCELL
H	4" SHOWER RECESSED	800	4000	LED	120	9	GOTHAM	EVO4RSH 30/ 10 DFR SMO MVOLT EZ10 NLT (277V)	

ALL B & BE LIGHTING FIXTURES SHALL BE SWITCHABLE TO (LOW), ROOMS 103, 104, 105, 106 SWITCH TO (MED)

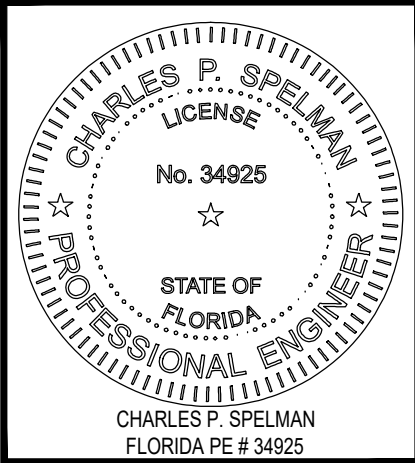


**LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

EMPLOYEE RESOURCE BUILDING  
LEE COUNTY, FLORIDA

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DRAWING NAME:  
LIGHTING PLAN  
LIGHTING FIXTURE & PANEL SCHEDULE

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PANEL: LA																
VOLTAGE: 208/120		PH 10 WIRE 3		PROPOSED		PANELBOARD FEATURES										
MAIN: LUG		BUS RATING: 125A		BR. CIR. AIR RATING: 10K		ISOLATED NEUTRAL BUS		SURGE PROTECTION DEVICE		Select						
NEMA: 3R		MOUNTING: SURFACE ENCLOSURE W/P		MANUFACTURER: SQUARE D or EQUAL		CAT NO: QO124L125GR8		GROUND BAR: PK15GTAL		BUS MATERIAL						
LOAD TYPE	CIR. NO.	LOAD DESCRIPTION	NOTES	BRKR TRIP (A)	POLE	AWG	LOAD (VA)	PHASE	LOAD (VA)	AWG	POLE	BRKR TRIP (A)	LOAD DESCRIPTION	CIR. NO.	LOAD TYPE	
N	1	HAND DRYER		20	2	12	1000	1400	400	12	1	20	1	DRINKING FOUNTAIN	2	N
N	3	.....		20	2	12	1000	1180	180	12	1	20	1	UTILITY ROOM RECEPTACLE	4	R
R	5	MENS LOCKER RM RECEPTACLES		20	1	12	900	900		12	1	20	1	BLANK	6	R
R	7	GENERATOR SERVICE RECEPTACLE		20	1	12	360	460	100	12	1	20	1	WATER HTR RECIRCULATION ROOM	8	R
R	9	SERVICE RECEPTACLE		20	1	12	180	1180	1000	12	2	20	1	WOMENS HAND DRYER	10	N
C	11	HALL & JANITOR LIGHTING		20	1	12	450	1450	1000	12	1	20	1	.....	12	N
C	13	MENS/WOMENS LOCKER RM FAN & LGTS		20	1	12	315	315		12	1	20	1	SPARE	14	R
	15	BLANK						900	900	12	1	20	1	WOMENS LOCKER ROOM RECEPTACLE	16	R
	17	BLANK						0					1	BLANK	18	R
	19	BLANK						0					2	BLANK	20	N
N	21	HAND DRYER		20	2	12	1000	6800	5800	6	2	60	1	BAR	22	N
N	23	.....		20	1	12	1000	6800	5800	6	60	60	1	.....	24	N
Σ CONNECTED LOAD				10359			10776									
Σ AMPACITY				85.3			89.9									
TOTAL CONNECTED LOAD				21.385			103									
LOCATED:				ADJACENT TO BARD												

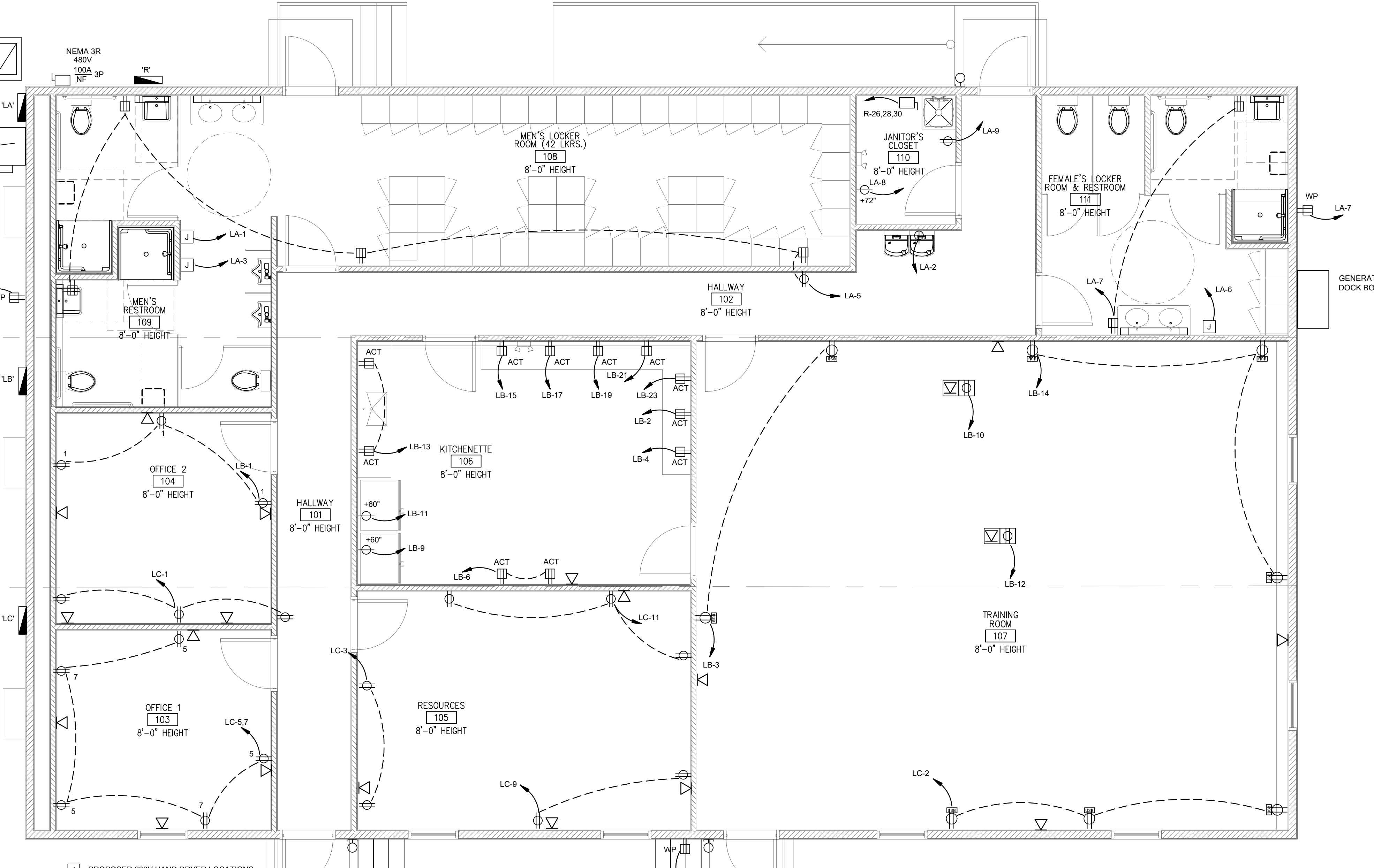
PANEL: LB																
VOLTAGE: 208/120		PH 10 WIRE 3		PROPOSED		PANELBOARD FEATURES										
MAIN: LUG		BUS RATING: 125A		BR. CIR. AIR RATING: 10K		ISOLATED NEUTRAL BUS		SURGE PROTECTION DEVICE		Select						
NEMA: 3R		MOUNTING: SURFACE ENCLOSURE W/P		MANUFACTURER: SQUARE D or EQUAL		CAT NO: QO124L125GR8		GROUND BAR: PK15GTAL		BUS MATERIAL						
LOAD TYPE	CIR. NO.	LOAD DESCRIPTION	NOTES	BRKR TRIP (A)	POLE	AWG	LOAD (VA)	PHASE	LOAD (VA)	AWG	POLE	BRKR TRIP (A)	LOAD DESCRIPTION	CIR. NO.	LOAD TYPE	
R	1	RESOURCES 104 RECEPTACLES		20	1	12	1000	1000	1000	12	1	20	1	MICROWAVE (106)	2	K
R	3	TRAINING ROOM RECEPTACLES		20	1	12	360	1360	1000	12	1	20	1	MICROWAVE (106)	4	K
	5	BLANK						360	360	12	1	20	1	RECEPTACLES (106)	6	R
	7	BLANK						0					1	SPARE	8	R
K	9	REFRIGERATOR 1 (106)		20	1	12	600	780	180	12	1	20	1	FLOOR RECEPTACLE	10	R
K	11	REFRIGERATOR 2 (106)		20	1	12	600	780	180	12	1	20	1	FLOOR RECEPTACLE	12	R
R	13	COUNTER RECEPTACLES (106)		20	1	12	360	900	540	12	1	20	1	TRAINING ROOM RECEPTACLES	14	R
K	15	COFFEE MAKERS (106)		20	1	12	1000	1420	1210	12	1	20	1	TRAINING ROOM RECEPTACLES	16	C
K	17	COFFEE MAKERS (106)		20	1	12	1000	1420	420	12	1	20	1	TRAINING ROOM LIGHTING	18	C
K	19	COFFEE MAKERS (106)		20	1	12	1000	1000					1	BLANK	20	R
R	21	COUNTER RECEPTACLES (106)		20	1	12	1000	6800	5800	6	2	60	1	BAR	22	N
K	23	MICROWAVE (106)		20	1	12	1000	6800	5800	6	60	60	1	.....	24	N
Σ CONNECTED LOAD				11250			11180									
Σ AMPACITY				93.8			92.9									
TOTAL CONNECTED LOAD				22.41			108									
LOCATED:				ADJACENT TO BARD												

PANEL: LC																
VOLTAGE: 240/120		PH 10 WIRE 3		PROPOSED		PANELBOARD FEATURES										
MAIN: LUG		BUS RATING: 125A		BR. CIR. AIR RATING: 10K		ISOLATED NEUTRAL BUS		SURGE PROTECTION DEVICE		Select						
NEMA: 3R		MOUNTING: SURFACE ENCLOSURE W/P		MANUFACTURER: SQUARE D or EQUAL		CAT NO: QO124L125GR8		GROUND BAR: PK15GTAL		BUS MATERIAL						
LOAD TYPE	CIR. NO.	LOAD DESCRIPTION	NOTES	BRKR TRIP (A)	POLE	AWG	LOAD (VA)	PHASE	LOAD (VA)	AWG	POLE	BRKR TRIP (A)	LOAD DESCRIPTION	CIR. NO.	LOAD TYPE	
R	1	RESOURCE RECEPTACLES (104)		20	1	12	540	1080	540	12	1	20	1	TRAINING ROOM RECEPTACLES (107)	2	R
R	3	RESOURCE RECEPTACLES (105)		20	1	12	360	360	360	12	1	20	1	LIGHTING 103, 105	4	C
R	5	OFFICE 1 RECEPTACLES		20	1	12	540	540					1	BLANK	6	R
R	7	OFFICE 1 RECEPTACLES		20	1	12	360	360					1	BLANK	8	R
R	9	RESOURCE RECEPTACLES (105)		20	1	12	360	360					1	BLANK	10	R
R	11	RESOURCE RECEPTACLES (105)		20	1	12	540	540					1	BLANK	12	R
	13	BLANK						0					1	BLANK	14	R
	15	BLANK						0					1	BLANK	16	R
C	17	ASTRONOMIC TIME SWITCH		20	1	12	100	100					1	BLANK	18	R
C	19	PARKING AREA LIGHTING		20	2	12	1650	1650					1	BLANK	20	N
C	21	.....		20	1	12	1650	7450	5800	6	2	60	1	BAR	22	N
R	23	OUTDOOR RECEPTACLE		20	1	12	150	5960	5900	6	60	60	1	.....	24	N
Σ CONNECTED LOAD				9538			9890									
Σ AMPACITY				79.4			74.1									
TOTAL CONNECTED LOAD				18.42			77									
LOCATED:				ADJACENT TO BARD												

LOAD TYPE CODE LETTERS	(VA)	(AMP)
C CONTINUOUS LOAD (SHOWN AT 125%)	356	4.6
K KITCHEN EQUIPMENT	0	0.0
LM LARGEST MOTOR LOAD (SHOWN AT 125%)	0	0.0
M MOTOR LOAD (SHOWN AT 100%)	0	0.0
N NON-CONTINUOUS LOAD (SHOWN AT 100%)	18,000	69.5
R RECEPTACLE LOAD (FIRST 10KVA @ 100%, REMAINDER AT 50%)	2,620	12.6
SLC SEE LOAD CALCULATION	0	0.0
O1 OTHER 1 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
O2 OTHER 2 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
TOTAL DEMAND		21.576

LOAD TYPE CODE LETTERS	(VA)	(AMP)
C CONTINUOUS LOAD (SHOWN AT 125%)	788	3.8
K KITCHEN EQUIPMENT	8	22.5
LM LARGEST MOTOR LOAD (SHOWN AT 125%)	0	0.0
M MOTOR LOAD (SHOWN AT 100%)	0	0.0
N NON-CONTINUOUS LOAD (SHOWN AT 100%)	11,600	45.8
R RECEPTACLE LOAD (FIRST 10KVA @ 100%, REMAINDER AT 50%)	2,980	14.3
SLC SEE LOAD CALCULATION	0	0.0
O1 OTHER 1 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
O2 OTHER 2 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
TOTAL DEMAND		20.048

LOAD TYPE CODE LETTERS	(VA)	(AMP)
C CONTINUOUS LOAD (SHOWN AT 125%)	4,250	17.7
K KITCHEN EQUIPMENT	0	0.0
LM LARGEST MOTOR LOAD (SHOWN AT 125%)	0	0.0
M MOTOR LOAD (SHOWN AT 100%)	0	0.0
N NON-CONTINUOUS LOAD (SHOWN AT 100%)	11,600	45.3
R RECEPTACLE LOAD (FIRST 10KVA @ 100%, REMAINDER AT 50%)	3,420	14.3
SLC SEE LOAD CALCULATION	0	0.0
O1 OTHER 1 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
O2 OTHER 2 (SEE RESIDENTIAL LOAD CALCULATION)	Dem Factor 100%	0
TOTAL DEMAND		19.270



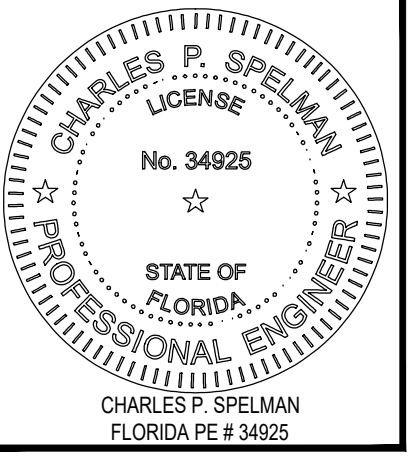
**POWER & SYSTEMS PLAN**  
SCALE: 1/4" = 1'-0"

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CHARLES P SPELMAN PE  
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DRAWING NAME:  
POWER AND SYSTEMS  
PANEL SCHEDULES

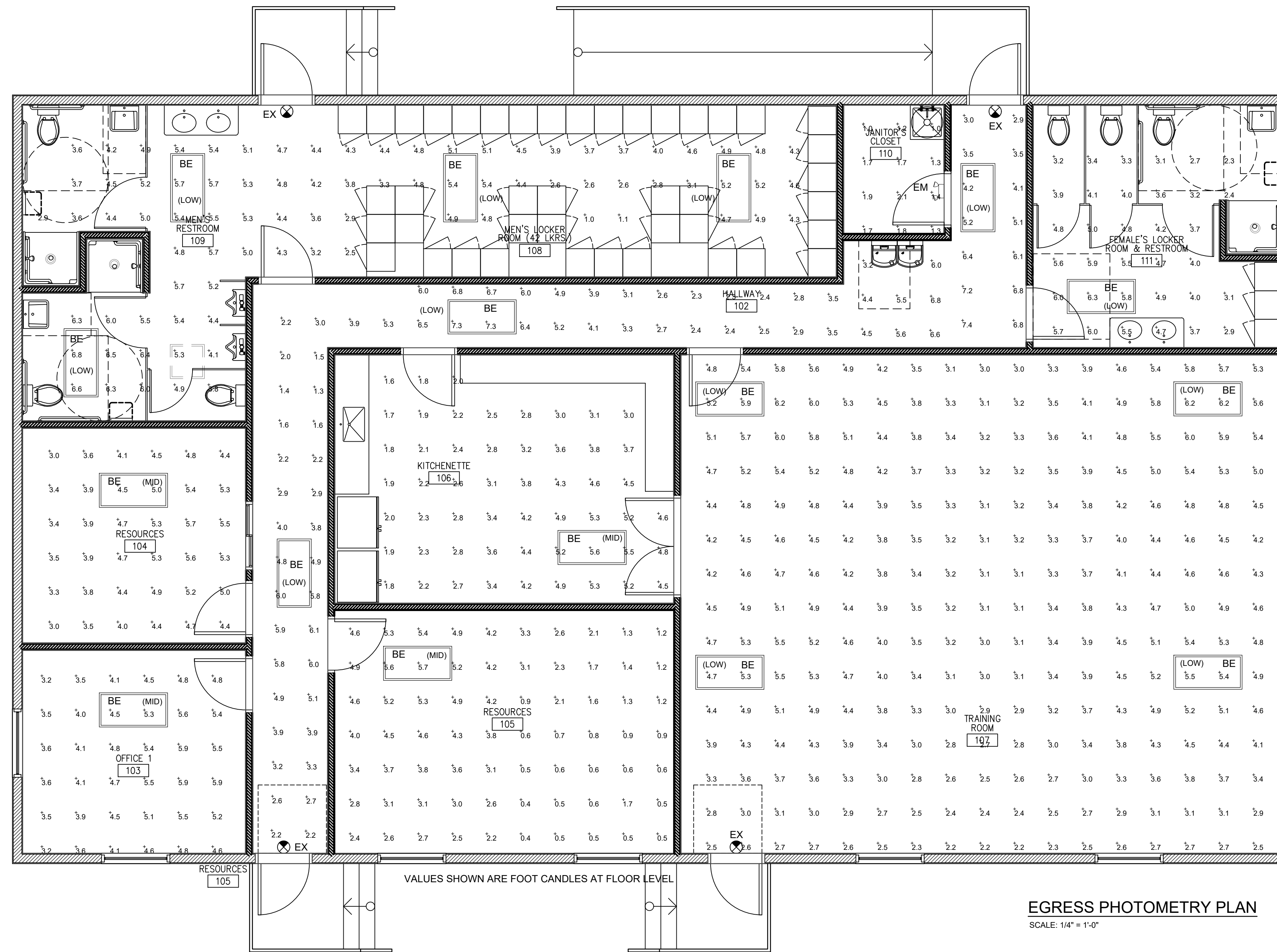
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Luminaire Schedule							
Symbol	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts
☐	COMPASS_LED	Single	CC Series, CU2, CIR, COR		1.000	52	0.6
◻	CPX 2X2 ALO7 (Mid) SWW7 (40K)_1	Single	CPX 2X2 ALO7 (Mid) SWW7 (40K) SWL MVOLT	BE	0.270	3588	25.98
◻	CPX 2X2 ALO7 (Low) SWW7 (40K)_1	Single	CPX 2X2 ALO7 (Low) SWW7 (40K) SWL MVOLT	BE	0.270	2668	25.98

LLF - ADJUSTED FOR 7'W 'EM' BATTERY PACK  
SEE LIGHTING PLAN NOTE FOR SWITCHABLE SETTINGS OF LUMEN FIXTURES

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
101 & 102	Illuminance	Fc	4.00	7.4	1.3	3.08	5.62
103	Illuminance	Fc	4.58	5.9	3.2	1.43	1.84
104	Illuminance	Fc	4.43	5.7	3.0	1.48	1.90
105A & 105B	Illuminance	Fc	2.54	5.7	0.4	6.35	14.25
106	Illuminance	Fc	3.35	5.6	1.6	2.09	3.50
107	Illuminance	Fc	4.01	6.2	2.2	1.82	2.82
108 & 109	Illuminance	Fc	4.57	6.8	1.0	4.57	6.80
110	Illuminance	Fc	1.51	2.1	1.3	1.16	1.62
111	Illuminance	Fc	4.29	6.3	2.3	1.87	2.74

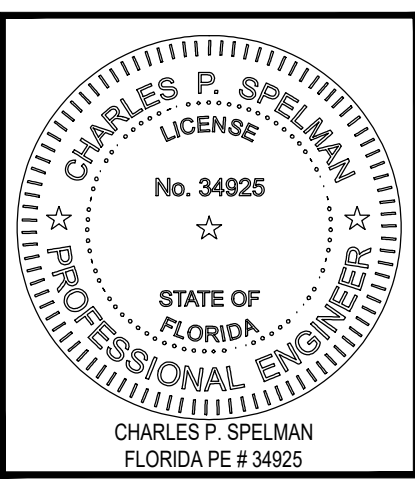


**EGRESS PHOTOMETRY PLAN**  
SCALE: 1/4" = 1'-0"

EMPLOYEE RESOURCE BUILDING  
LEE COUNTY, FLORIDA

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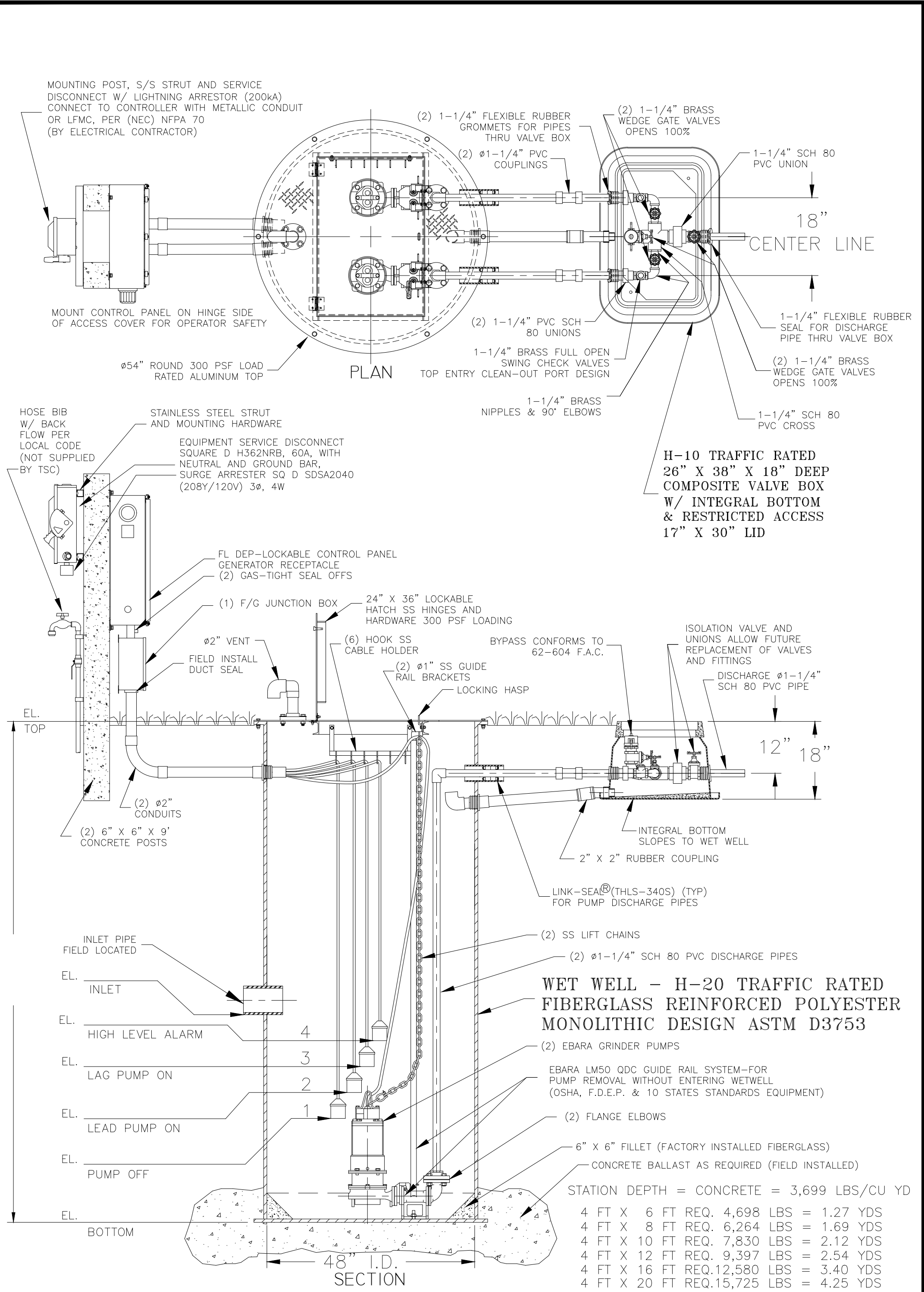


DRAWING NAME:  
EGRESS PHOTOMETRY PLAN  
AND SCHEDULES

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**EBARA SEWAGE GRINDER PUMP  
48" DUPLEX GRINDER STATION - 1.25" PIPING  
WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL  
TSC PRE-FAB PUMP SOLUTIONS®**

MODEL  
TSC2-48.3 R21.dwg©

2. GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM) \_\_\_\_\_ JOB: \_\_\_\_\_
1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER \_\_\_\_\_
- FIELD INSTALL BY CONTRACTOR \_\_\_\_\_ QS: \_\_\_\_\_

**GENERAL NOTES**

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

**DESIGN CONDITION:**

MODEL	32 DGFU	2 HP	HP
GPM			FT/TDH
VOLTAGE	208	THREE	PHASE
DISCHARGE	1.25"		IMPELLER

**SEWAGE GRINDER PUMP:** RATED FOR TWENTY (20) STARTS PER HOUR.

- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

**FIBERGLASS WET WELL:** SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

**ALUMINUM HATCH:** TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

**VALVE BOX:** FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

**ACCESSORIES:** #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

**VALVES:** SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

**PIPING:** 1-1/4" SCHEDULE 80 PVC.

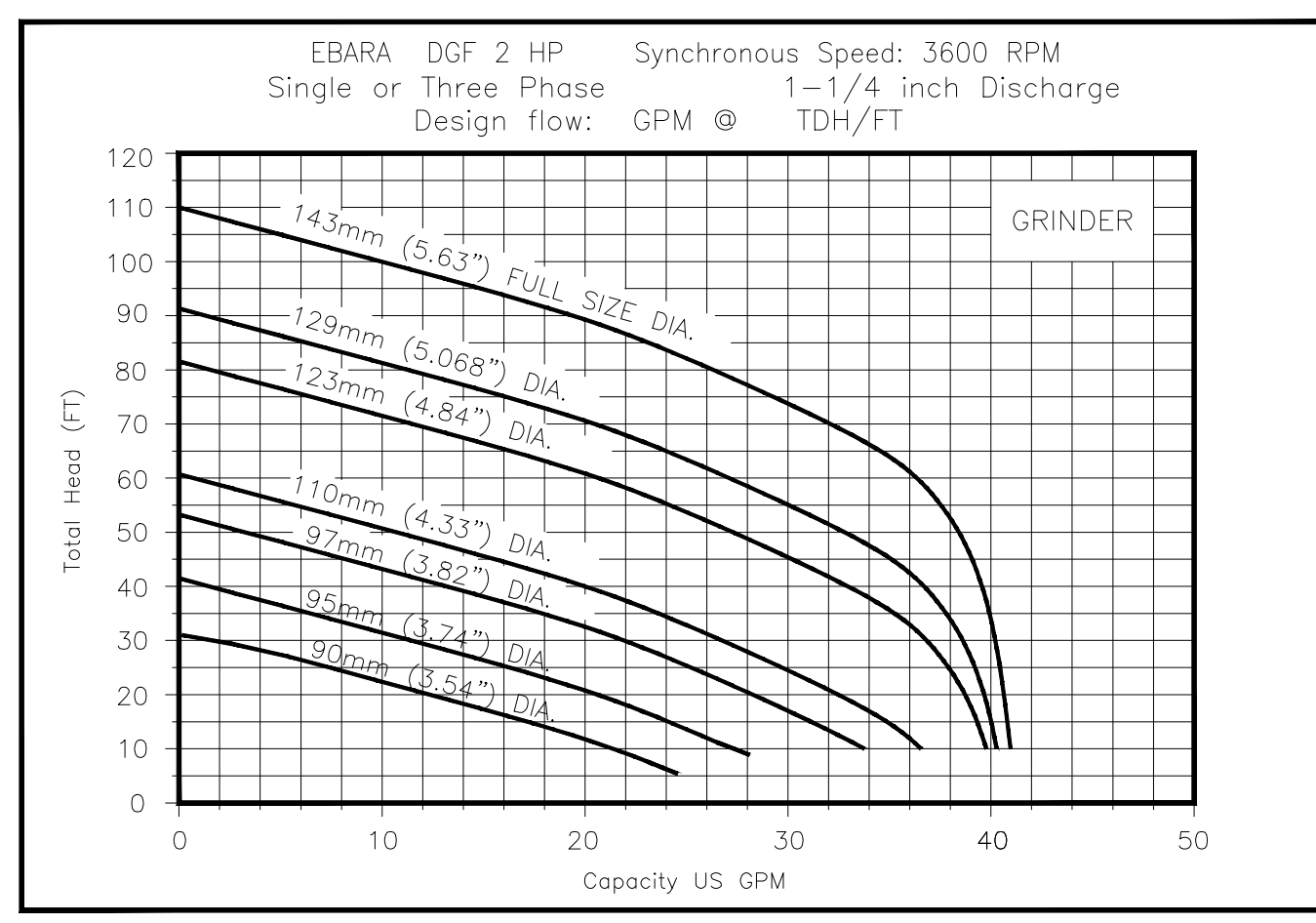
**FLOAT SWITCHES:** UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

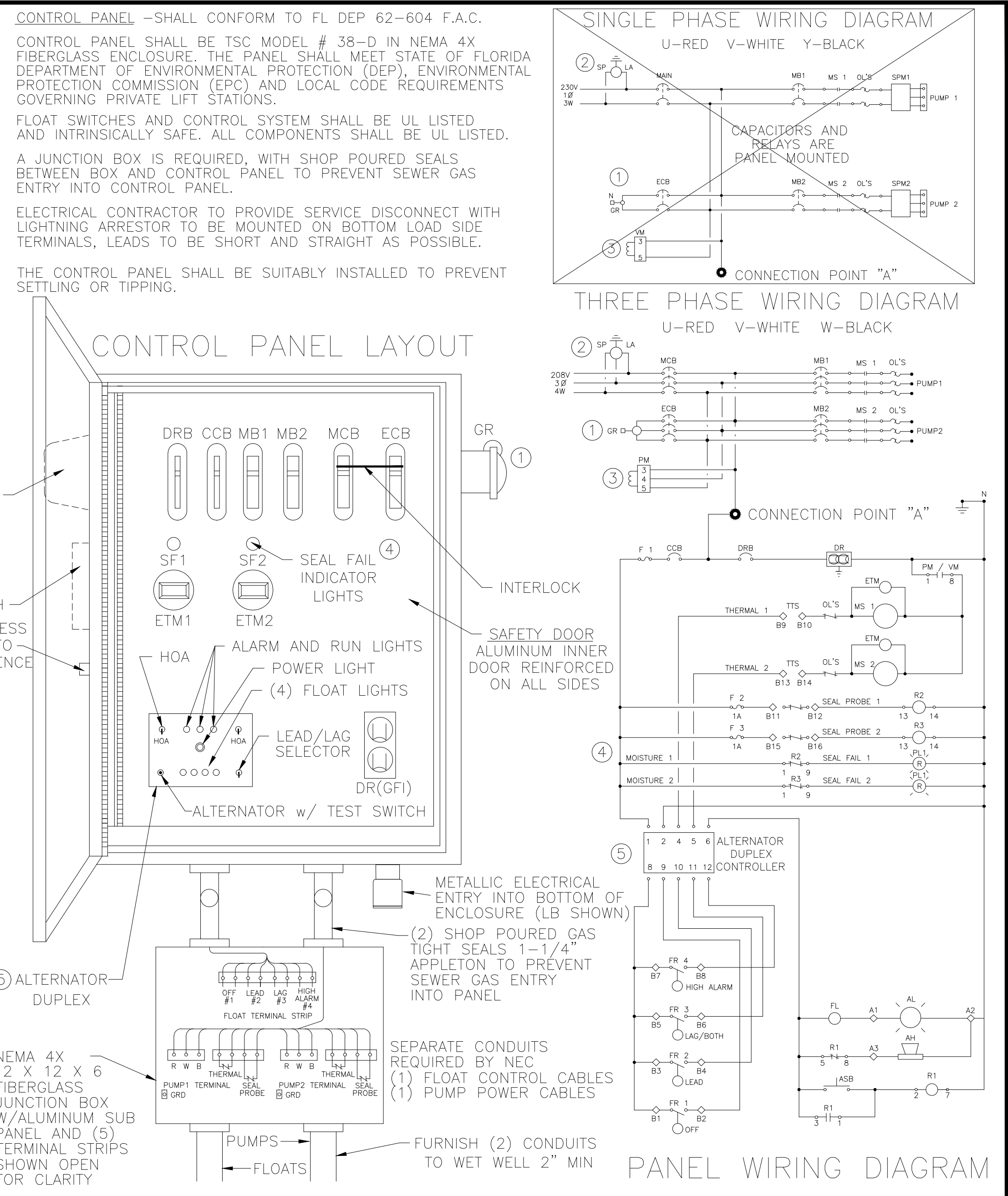
THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

**Ebara Submersible Pumps**



PUMP PERFORMANCE CURVE



**CONTROL PANEL** - SHALL CONFORM TO FL DEP 62-604 F.A.C.

CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED. A JUNCTION BOX IS REQUIRED, WITH SHOP Poured SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR TO BE MOUNTED ON BOTTOM LOAD SIDE TERMINALS, LEADS TO BE SHORT AND STRAIGHT AS POSSIBLE.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.

**PANELS SHALL CONFORM TO FLORIDA DEP 62-604 F.A.C.**

- GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
- SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
- PHASE PROTECTION SHALL BE PROVIDED
- SHAFT SEAL FAIL DETECTION
- ALTERNATOR w/ TEST SWITCH

PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

TSC DUPLEX GRINDER PUMP STATION  
FIBERGLASS WET WELL

**TECHNICAL SALES CORPORATION**  
TSC PRE-FAB PUMP SOLUTIONS®  
WATERWORKS & WASTEWATER SPECIALTIES

Representing Innovative Manufacturers  
MODEL TSC2-48.3 ©

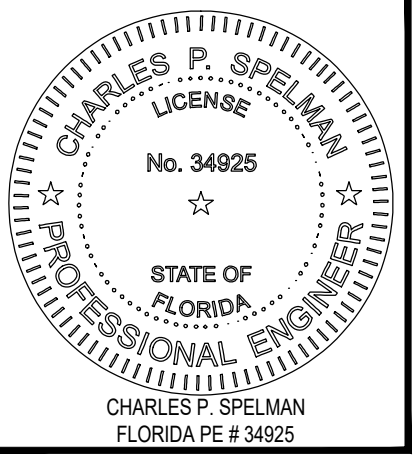
4621 N. HALE AVENUE PH (813)876-9256  
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REV-21 SCALE: N.T.S.

LEE COUNTY SOLID WASTE TRANSFER  
STATION EMPLOYEE BUILDING  
10450-10550 BUCKINGHAM ROAD  
FORT MYERS, FL 33905

**CASTELLANOS + TRAMONTE ARCHITECTS**

1228 LAFAYETTE STREET SUITE #1 CAPE CORAL, FLORIDA 33904  
(239) 549-0897 AA 26003303

DRAWN BY:	DDG
CHECKED BY:	AAC
ISSUED FOR:	
PRELIMINARY SET:	11/7/23
100% PERMIT SET:	07/24/24



DRAWING NAME:  
PUMP STATION  
NOT TO SCALE

SHEET  
**PE-1**  
1 OF 1

SPELMAN ENGINEERING, INC.  
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### LEGEND

REVISION # SUPPLY DUCT: EXISTING "14x10" SUPPLY DUCT: NEW "14x10" RETURN DUCT: EXISTING "14x10" RETURN DUCT: NEW "14x10" FLEXIBLE DUCT: EXISTING FLEXIBLE DUCT: NEW PIPE TURNING UP PIPE TURNING DOWN REFRIGERANT LINE THERMOSTAT AND HUMIDISTAT DUCT MOUNTED TEMPERATURE/HUMIDISTAT CARBON MONOXIDE SENSOR TIME CLOCK DIFFUSER, REGISTER, OR GRILLE SYMBOL, LETTER DENOTES TYPE, NUMBER INDICATES CFM. SUPPLY DIFFUSER RETURN DIFFUSER	RETURN DUCT: EXISTING "14x10" RETURN DUCT: NEW "14x10" ALL MECH ITEMS: DEMOLITION EQUIPMENT MARK: "AC-1" INDICATES POINT OF CONNECTION BETWEEN EXISTING AND NEW OPPOSED BLADE BALANCING DAMPER OPPOSED BLADE DAMPER W/MOTORIZED ACTUATOR & MIN. SETPOINT STOP. DUCT SMOKE DETECTOR DUCT TEMPERATURE SENSOR SPRING LOADED DAMPER THAT SHUTS OFF WHEN FAN SHUTS OFF EXHAUST FAN RETURN OR EXHAUST DUCT SECTION SUPPLY OR OUTSIDE AIR DUCT SECTION	SUPPLY DUCT: EXISTING "14x10" SUPPLY DUCT: NEW "14x10" RETURN DUCT: EXISTING "14x10" RETURN DUCT: NEW "14x10" FLEXIBLE DUCT: EXISTING FLEXIBLE DUCT: NEW PIPE TURNING UP PIPE TURNING DOWN REFRIGERANT LINE THERMOSTAT AND HUMIDISTAT DUCT MOUNTED TEMPERATURE/HUMIDISTAT CARBON MONOXIDE SENSOR TIME CLOCK DIFFUSER, REGISTER, OR GRILLE SYMBOL, LETTER DENOTES TYPE, NUMBER INDICATES CFM. SUPPLY DIFFUSER RETURN DIFFUSER
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DESCRIPTION	SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL
DUCTWORK WITH INSIDE DIMENSIONS INDICATED (WxH) INCHES	WxH	WxH
TRANSITION	AxB CxD	AxB CxD
SPIN-IN FITTING WITH SCOOP EXTRACTOR AND BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR		
RECTANGULAR 90° ELBOW W/TURNING VANE		
ROUND ELBOW W/TURNING VANE		
RECTANGULAR TEE W/TURNING VANE AND BALANCING DAMPER		
RECTANGULAR 45° ELBOW		
FIRE DAMPER (PROVIDE W/ACCESS PANEL)		
ROUND RIGID DUCT (D = DIAMETER)	D"ø	D"ø
BRANCH TAKEOFF W/RADIUS BEND		
ROUND FLEXIBLE DUCT (D = DIAMETER)	D"ø	D"ø

### EXHAUST FAN SCHEDULE

MARK	MFR.	MODEL	TYPE	SERVICE	CFM	TSP	MOTOR DATA:				DRIVE	FINISH	WEIGHT	WALL/ROOF OPENING	REMARKS
							WATTS	RPM	AMPS	VOLT/PHASE/HERTZ					
EF-1	ACME	PV075E4	ON ROOF	MENS	340	0.125	1/4 HP	884	0.017 BHP	120/1/60	BELT	GALV STL	78 lbs	WITH 14" ROOF CURB	1-3
EF-2	ACME	PV075E4	ON ROOF	WOMENS	225	0.125	1/4 HP	717	0.01 BHP	120/1/60	BELT	GALV STL	78 lbs	WITH 14" ROOF CURB	1-3

**REMARKS:**  
 1. COORDINATE WITH ELECTRICAL CONTRACTOR TO TIE INTO OCCUPANCY SENSOR TO RUN CONTINUOUSLY.  
 2. PROVIDE UNIT WITH GRAVITY BACKDRAFT DAMPER.  
 3. ACCEPTABLE MANUFACTURERS: ACME, COOK, BROAN, NUTONE.

- ### NOTES AND SPECIFICATIONS
- THE MECHANICAL CONTRACTOR SHALL COMPLY WITH THE 8th EDITION 2023 FLORIDA BUILDING CODES. THIS SHALL INCLUDE THE MECHANICAL CODE, ENERGY CODE, AND ALL LOCAL CODES AS MAY BE APPLICABLE. SIX SHOP DRAWING SUBMITTALS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED FOR APPROVAL PRIOR TO ORDERING AND PROCUREMENT OF SAME.
  - MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED. ALL RISERS AND DROPS IN PIPING AND DUCTWORK NOT NECESSARILY SHOWN.
  - WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL AIR CONDITIONING SYSTEM.
  - THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL, ETC.).
  - VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS.
  - UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
  - GENERAL CONTRACTOR SHALL FURNISH AND INSTALL CURBS AND BASES FOR ALL EQUIPMENT AS SHOWN ON PLAN. THIS CONTRACTOR SHALL CONFIRM ALL CURB REQUIREMENTS AND THEIR SIZES.
  - PROVIDE INSULATION FOR REFRIGERANT LINES SIMILAR TO ARMAFLEX. WEATHER-EXPOSED INSULATION TO BE PROVIDED WITH WEATHER PROOF COATING AS RECOMMENDED BY MANUFACTURER. EXPOSED CONDENSATE LINES THOSE CONCEALED IN WALLS AND CEILINGS TO BE PROVIDED WITH SAME TYPE OF INSULATION.
  - EQUIPMENT AS PER SCHEDULED LIST OF ACCEPTABLE MANUFACTURERS:  
 A/C EQUIPMENT: CARRIER, LENNOX, TRANE, MITSUBISHI, SAMSUNG  
 A/C GRILLES: PRICE, METALAIR, TITUS  
 FANS: ACME, NUTONE, COOK  
 WALL LOUVERS: POTTORFF, RUSKIN
  - ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED AND BALANCED FOR AIR DELIVERY AS INDICATED ON THE PLANS, AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN WARRANTY CERTIFICATES.
  - ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED WITH SPRING ISOLATORS.
  - ALL EQUIPMENT SHALL BE LOCATED WITH ADEQUATE CLEARANCES FOR FILTER REMOVAL, REPAIR, AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT.
  - ALL EQUIPMENT SHALL BE MOUNTED AND SECURED TO WITH-STAND HURRICANE WIND CODE.
  - PROVIDE FLEXIBLE DUCT CONNECTIONS FOR CONCEALED SHEET METAL DUCTS FOR ALL AIR HANDLING UNITS AND EXHAUST FANS.
  - ALL CONTROL AND LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
  - DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UNLESS NOTED OR INDICATED OTHERWISE. ROUTING SHALL BE COORDINATED WITH TRUSS MANUFACTURER. DO NOT INSTALL ANY DUCTWORK OR PIPING OF ANY KIND ABOVE ELECTRICAL PANEL.
  - ALL DUCTWORK, INSTALLATION AND EQUIPMENT SHALL MEET STATE OF FLORIDA ENERGY CODE REQUIREMENTS.
  - RIGID FIBERGLASS DUCTWORK SHALL BE EQUAL TO MANVILLE "SUPERDUCT", 1.5" THICK R-6.5 FOR UNDER ATTIC INSTALLATIONS. DUCT TO HAVE ACRYLIC POLYMER AIRSTREAM SURFACE COATING TO INHIBIT BIOLOGICAL GROWTH. DUCT SHALL BE REINFORCED AND FABRICATED PER LATEST EDITION SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL JOINTS SHALL BE ASSEMBLED SHIP-LAPPED USING STAPLES AND TAPE WITH FISSION 0810 DUCT TAPE WITH UL181B-FX RATING PROVIDING A LEAK PROOF JUNCTURE.
  - METAL DUCTWORK IN EXPOSED CEILING AREAS SHALL BE AS FOLLOWS: SUPPLY AND RETURN DUCTWORK SHALL BE DOUBLE WALL SPIRAL DUCTWORK MEETING THE 3RD EDITION OF 2005 SMACNA STANDARDS. DROPS FROM ROOFTOP UNITS SHALL BE GALVANIZED SHEET METAL DUCT IN ACCORDANCE WITH FMC SECTION 603 AND HAVE INTERNAL DUCT INSULATION.
  - FLEXIBLE DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE EQUAL TO FLEXAIRE WITH WIRE HELIX FRAME, R-6 INSULATION, POLYESTER LINER, HIGH DENSITY FIBERGLASS INSULATION AND METALIZED REINFORCED VAPOR BARRIER EXTERIOR COVERS. PROVIDE SPIN-IN FITTINGS WITH SCOOP OR BELL MOUTH TYPE FITTINGS WITH ADJUSTABLE DAMPERS. DUCT SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRAPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW.
  - OUTSIDE AIR AND TOILET EXHAUST DUCTWORK SHALL BE METAL. ALUMINUM FLEXIBLE PIPE ACCEPTABLE FOR SHORT EXHAUST DUCTS. DUCT TOILET EXHAUST TO ROOF, SOFFIT, OR WALL CAP AS SHOWN ON PLANS. CAPS SHALL BE ALUMINUM CONSTRUCTION WITH INSECT SCREEN.
  - HVAC SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE WHITE FINISH, ALUMINUM CONSTRUCTION. SEE PLANS FOR THROAT CONNECTION SIZES.
  - WALL MOUNTED THERMOSTAT(S) SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
  - PROGRAMMABLE THERMIDISTAT FOR COOLING, HEATING, FAN, AUTO AND MANUAL MODE WHEN SPECIFIED ON FLOOR PLANS.
  - PROVIDE AIR HANDLING UNITS OR ROOFTOP UNITS WITH DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY DUCT FOR ANY UNIT OF 2000 CFM OR GREATER.

### HVAC UNITS CONTROL SEQUENCE

HVAC UNIT CONTROL SEQUENCE

THE HVAC UNITS SHALL BE ENERGIZED BASED UPON OCCUPIED/UNOCCUPIED OPERATING REQUIREMENTS AS ESTABLISHED BELOW:

IN THE OCCUPIED COOLING MODE, THE SUPPLY AIR FAN SHALL BE ENERGIZED AND SHALL CONTINUOUSLY OPERATE. A PROGRAMMABLE, AUTOMATIC CHANGE OVER THERMOSTAT/HUMIDISTAT SHALL LOAD/UNLOAD THE COMPRESSOR AND MAINTAIN THE SPACE SETPOINT OF 75 DEGREES F AND/OR 50% RELATIVE HUMIDITY. UPON UNIT OPERATION IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER(S) SHALL GO FROM FULLY CLOSED TO FULLY OPEN. WHEN RELATIVE HUMIDITY IS ABOVE 60% THE OUTSIDE AIR DAMPERS SHALL CYCLE CLOSED UNTIL THE RELATIVE HUMIDITY IS UNDER 50% AND THEN THEY SHALL REOPEN AS DESCRIBED ABOVE.

IN THE OCCUPIED HEATING MODE, THE SUPPLY AIR FAN IN THE UNIT SHALL BE AS IN THE COOLING MODE DESCRIBED ABOVE, EXCEPT THE ELECTRIC RESISTANCE HEATING COILS OR GAS FIRED HEAT EXCHANGER WILL BE STAGED TO MAINTAIN A SPACE SETPOINT OF 70 DEGREES F.

IN THE UNOCCUPIED COOLING MODE, THE SUPPLY AIR FAN IN THE UNIT SHALL BE ENERGIZED TO CYCLE ON AND OFF BASED UPON SPACE TEMPERATURE, THE THERMOSTATS SHALL CYCLE THE FAN AND STAGE (OR LOAD/UNLOAD) THE COMPRESSORS TO MAINTAIN THE SPACE SETPOINT OF 80 DEG. F. THE OUTSIDE AIR DAMPER SHALL BE 100% CLOSED.

IN THE UNOCCUPIED HEATING MODE, THE OPERATION OF THE UNIT SHALL BE AS IN THE COOLING MODE DESCRIBED ABOVE, EXCEPT THE ELECTRIC RESISTANCE HEATING COILS OR GAS FIRED HEAT EXCHANGERS WILL BE STAGED TO MAINTAIN A SPACE SETPOINT OF 60 DEGREES F. THE OUTSIDE AIR DAMPER SHALL BE 100% CLOSED.

NOTE:  
ALL FANS SHALL SHUT DOWN UPON ACTIVATION OF THE FIRE ALARM.

### TEST AND BALANCE

MECHANICAL CONTRACTOR TO ADJUST VOLUME DAMPERS AND VERIFY THAT ALL EQUIPMENT SERVING THE AIR CONDITIONING AND HEATING OF THE BUILDING SHALL BE OPERATING TO VOLUMES SHOWN ON CONTRACT DOCUMENTS.

**TEST AND BALANCE SHALL DOCUMENT THE FOLLOWING:**  
(THIS IS THE MINIMUM REQUIREMENT ALLOWED)

UNIT PRESSURE THROUGH OUT UNIT IE, DISCHARGE, RETURN IN INCHES WG  
 OUTSIDE AIR TEMPERATURE (DB/WB)  
 OUTSIDE AIR VOLUME (CFM)  
 RETURN AIR TEMPERATURE (DB/WB)  
 RETURN AIR VOLUME (CFM)  
 MIXED AIR TEMPERATURE (DB/WB)  
 MIXED AIR VOLUME (CFM)  
 SUPPLY AIR TEMPERATURE (DB/WB)  
 SUPPLY AIR VOLUME (CFM)  
 DIFFUSER DISCHARGE TEMPERATURE (DB)  
 DIFFUSER AIR VOLUME SUPPLY AND RETURN (CFM)

POSITION AND SETTING OF OUTSIDE AIR DAMPER AT THE TIME OF DATA COLLECTION.  
 MOTOR HP, VOLTAGE  
**SKETCH OF SYSTEM:**  
 AHU/RTU  
 DUCTWORK AND DIFFUSERS  
 INDICATE LOCATION AND SETTING OF TEMPERATURE OR SENSOR/THERMIDISTAT

**PUMPS**  
 INLET GPM, PRESSURE IN FT HD  
 DISCHARGE GPM AND PRESSURE IN FT HD  
 INLET TEMPERATURE

### AIR DISTRIBUTION SCHEDULE

MARK	MAKE	MODEL	SIZE / RANGE	MATERIAL	CONN	DAMPER	THROW	NC/MAX	USE	REMARKS
1	PRICE	CVD	6"x4" / 30-100 CFM	SEE NOTE 4	6" RND	T/O	7-10 FT	-/30	SUPPLY	2, 4
2	PRICE	SCD	24"x24" / 30-135 CFM	SEE NOTE 4	6" RND	T/O	3-8 FT	24/30	SUPPLY	1, 2, 4
3	PRICE	SCD	24"x24" / 140-250 CFM	SEE NOTE 4	8" RND	T/O	3-8 FT	21/30	SUPPLY	1, 2, 4
4	PRICE	SCD	24"x24" / 251-450 CFM	SEE NOTE 4	10" RND	T/O	4-12 FT	24/30	SUPPLY	1, 2, 4
A	PRICE	81	6"x6" / 50-100 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	RETURN	3, 4
B	PRICE	81	8"x8" / 105-300 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	RETURN	3, 4
C	PRICE	81	10"x10" / 305-500 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	RETURN	3, 4
D	PRICE	81	20"x20" / 1680-3000 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	RETURN	3, 4
E	PRICE	81	10"x10" / 50-100 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	TRANSFER	3, 4
F	PRICE	81	12"x12" / 105-300 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	TRANSFER	3, 4
G	PRICE	81	14"x14" / 305-500 CFM	SEE NOTE 4	SEE PLAN	N/A	---	28/30	TRANSFER	3, 4

**REMARKS:**  
 ① SUPPLIES BASED ON PRICE WHITE FIXED PATTERN CONE DIFFUSER FOR LAY-IN OR DRYWALL CEILING. IF DIFFUSER NECK SIZE DOES NOT MATCH DUCT SIZE, PROVIDE NECK SIZE TO MATCH FLEX DUCT SIZE.  
 ② CONTRACTOR TO PROVIDE 1.5" INSULATION ON TOP RATED AT R-6.  
 ③ TRANSFER, RETURN AND EXHAUST GRILLES BASED ON PRICE EGG CRATE 1/2"x1/2"x1". PROVIDE SUPPLEMENTAL STEEL SUCH THAT GRILLES ARE NOT SUPPORTED BY THE CEILING TILE ALONE. TYPICALLY CEILING TBAR IS USED.  
 ④ ACCEPTABLE MANUFACTURERS: METALAIR, TITUS  
 ⑤ PAINT BEHIND ANY DIFFUSER, REGISTER OR GRILLE FLAT BLACK.

### HVAC Equipment Schedule

UNIT MARK	MFR	MODEL	CFM				INDOOR FAN			ELECTRIC HEATER**			COIL EAT			COL LAT			COOLING CAPACITY REQUIRED			UNIT		EFFICIENCY	REMARKS
			TOTAL	O.A.	ESP/IN	HP	FLA	MBH	KWH	VOLTAGE	DB (F)	WB (F)	DB (F)	WB (F)	TMBH	SH/WH	UM/WH	VOLTAGE	IN/AN/OCSP	EEER/SEER2					
AHJ-1	BARD	W04YD10XXXXXE	845	XX	0.5	1/2	0.0	34.1	10.0	238/180	78.0	63.0	55.6	52.5	20.2	15.2	4.9	208/180	5760	-114.3	ALL				
AHJ-2	BARD	W04YD10XXXXXE	1780	450	0.5	3/4	0.0	34.1	10.0	238/180	78.0	63.5	56.6	53.4	62.0	36.2	25.9	208/180	5880	-113.8	ALL				
AHJ-3	BARD	W42YD10MXXXXXE	1160	XX	0.5	1/2	0.0	34.1	10.0	238/180	78.8	63.5	55.7	52.4	33.2	24.6	6.7	208/180	5880	-114.3	ALL				

\* (STAR) ON EFFICIENCY INDICATES MINIMUM RATING REQUIRED TO PASS THE ENERGY CODE CALCULATIONS ATTACHED  
 \*\* HEATER MBH AS REQUIRED

Notes:  
 1. Provide Harsh Environment Coating on Cabinet, Condenser Coil, Evaporator Coil, Reheat Coil and Sub cooling Coil.  
 2. Provide a spare set of 1" pleated media MERV 8 filters for the owner.  
 3. Provide motorized 2-Position Outside air damper with 2-Position Actuator.  
 4. Outside ventilation intake, motorized damper to open during occupied hours and close during unoccupied hours as described in operation sequence above.

### ABBREVIATIONS

§ AC AFF AHU ASHRAE BAROM BTUH CD CFM CLG CU CD DB DP DPR DWG EAT EF ESP EXH FA FB FD FL HVAC INSUL KW LAT MANUF MAX MSH MECH MIN MTD NFPA OA OPNG PD RA REFC REQ'D RTU SA SBCCI SMACNA SP TSTAT UL W/W VOL W/ W/O WB WG	ROUND AIR CONDITIONING ABOVE FINISHED FLOOR AIR HANDLING UNIT AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS BAROMETRIC BRITISH THERMAL UNIT PER HOUR CONDENSATE DRAIN CUBIC FEET PER MINUTE CELSIUS CONDENSING UNIT CONDENSATE LINE DRY BULB DIFFERENTIAL PRESSURE DAMPER DRAWING ENTERING AIR TEMPERATURE EXHAUST FAN EXTERNAL STATIC PRESSURE EXHAUST FROM ABOVE FROM BELOW FIRE DAMPER FLOOR HEATING VENTILATING AND AIR CONDITIONING INSULATION KILOWATT LEAVING AIR TEMPERATURE MANUFACTURER MAXIMUM BTUH X 1000 MECHANICAL MINIMUM MOUNTED NATIONAL FIRE PROTECTION ASSOCIATION OUTSIDE AIR OPENING PRESSURE DROP RETURN AIR REFRIGERANT REQUIRED ROOFTOP AIR CONDITIONING UNIT SUPPLY AIR SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION STATIC PRESSURE THERMOSTAT UNDERWRITERS LABORATORIES VARIABLE AIR VOLUME VOLUME WITH WITHOUT WET BULB WATER GAUGE
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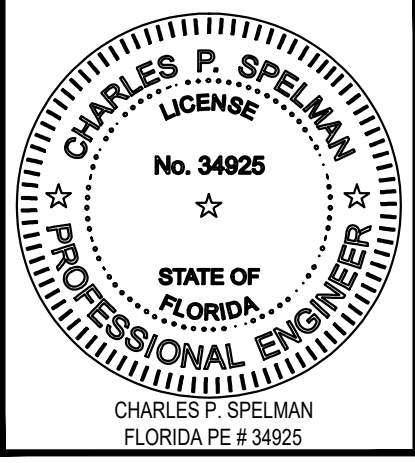
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LEE COUNTY SOLID WASTE TRANSFER  
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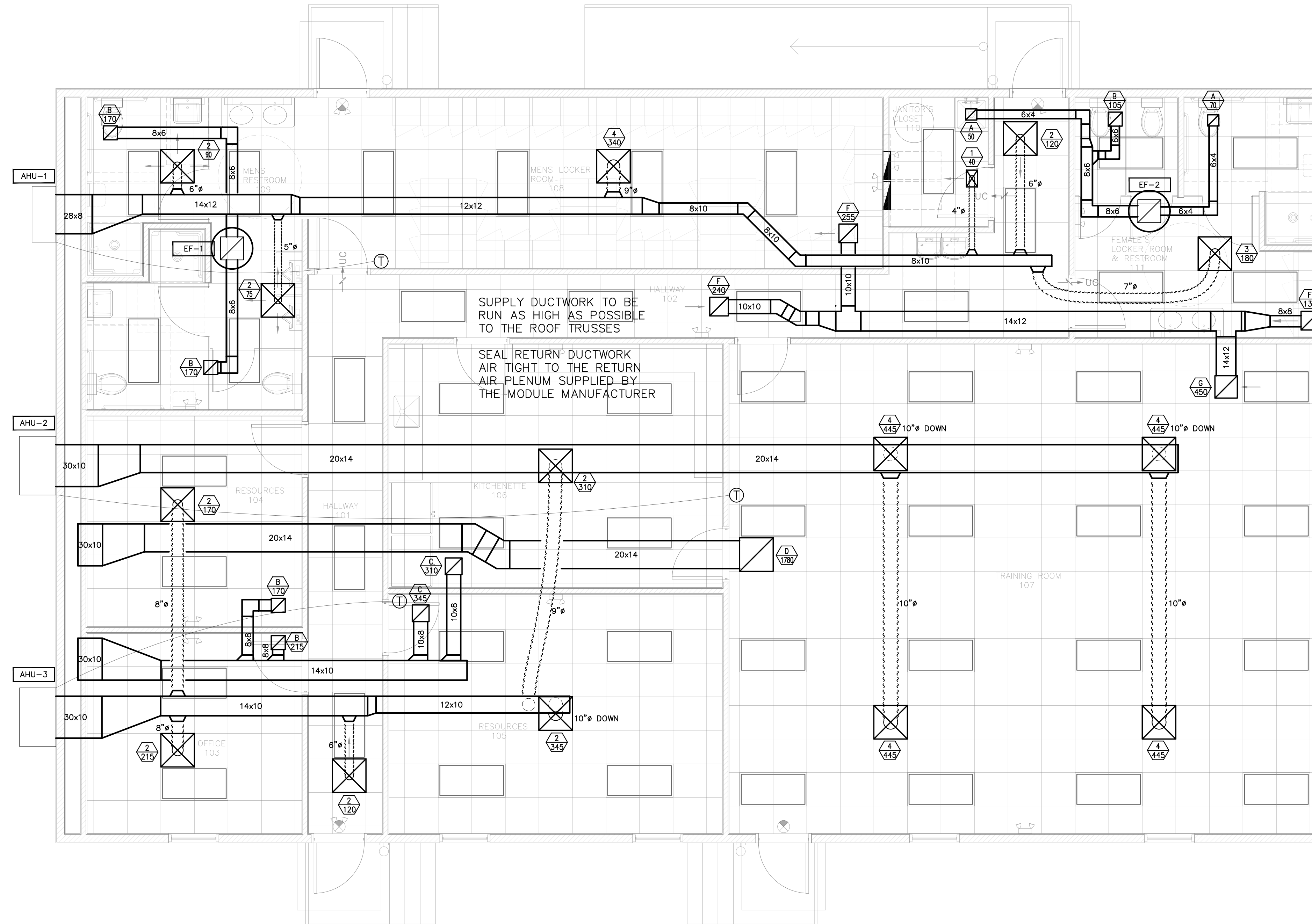
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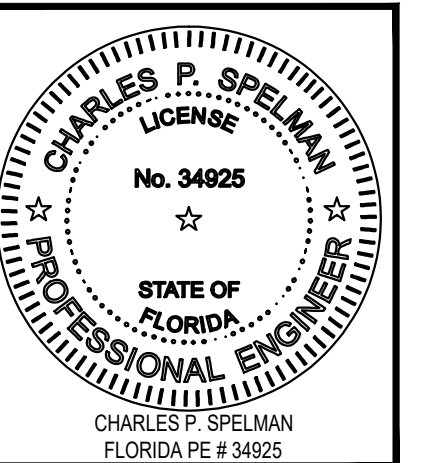
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M-2 SCALE: 1/4"=1'-0"

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STATION EMPLOYEE BUILDING  
10450-10550 BUCKINGHAM ROAD  
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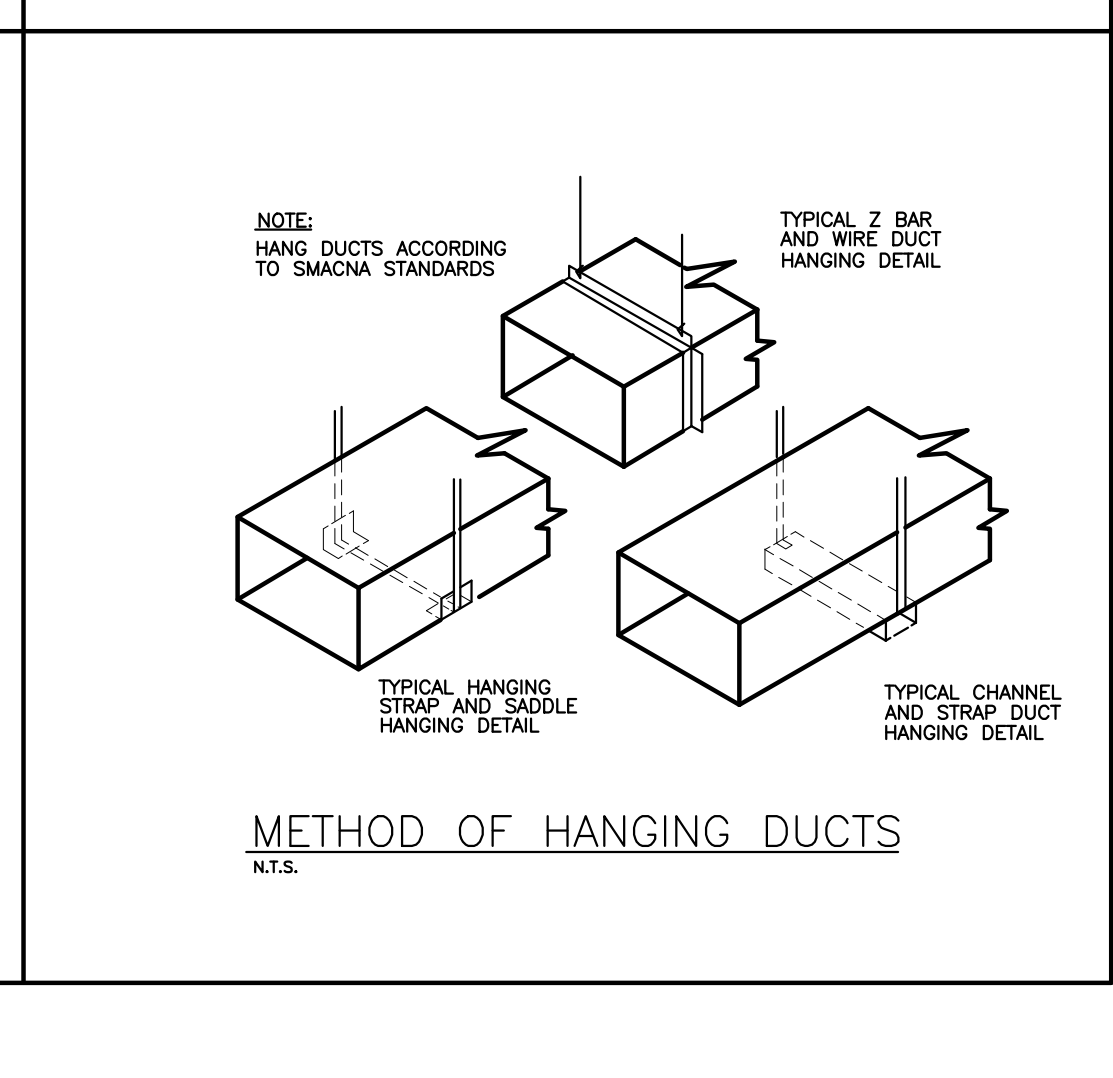
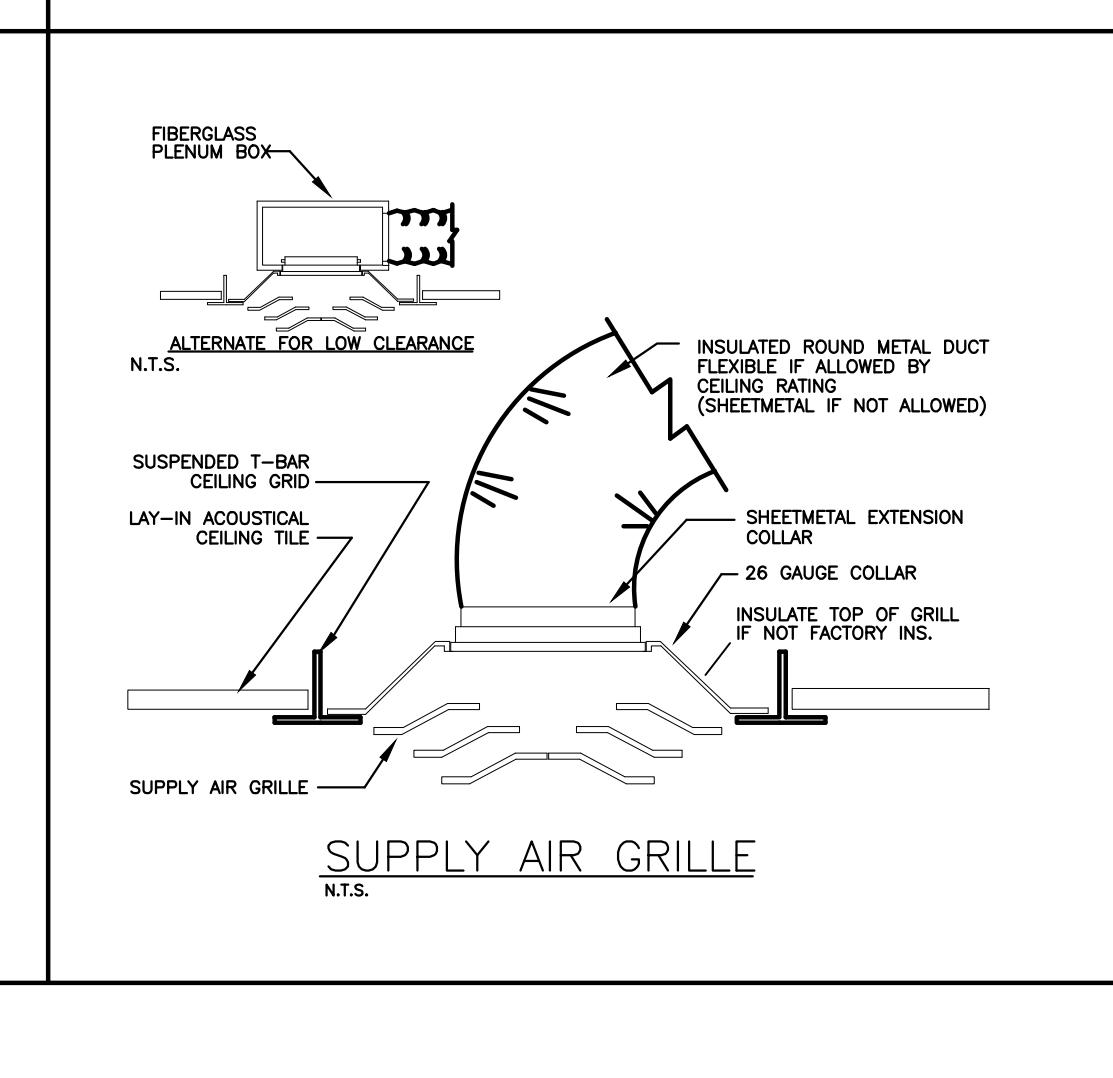
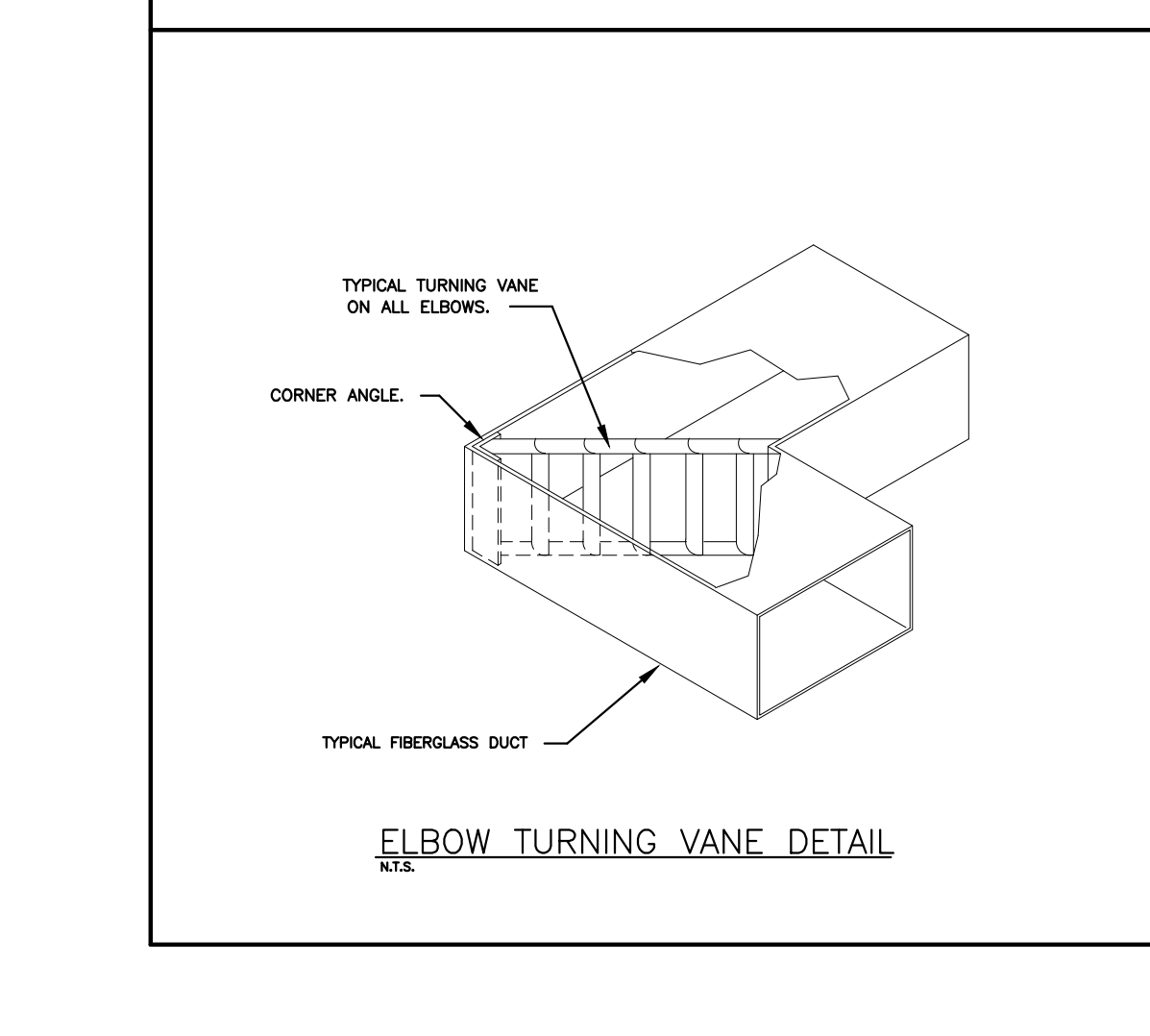
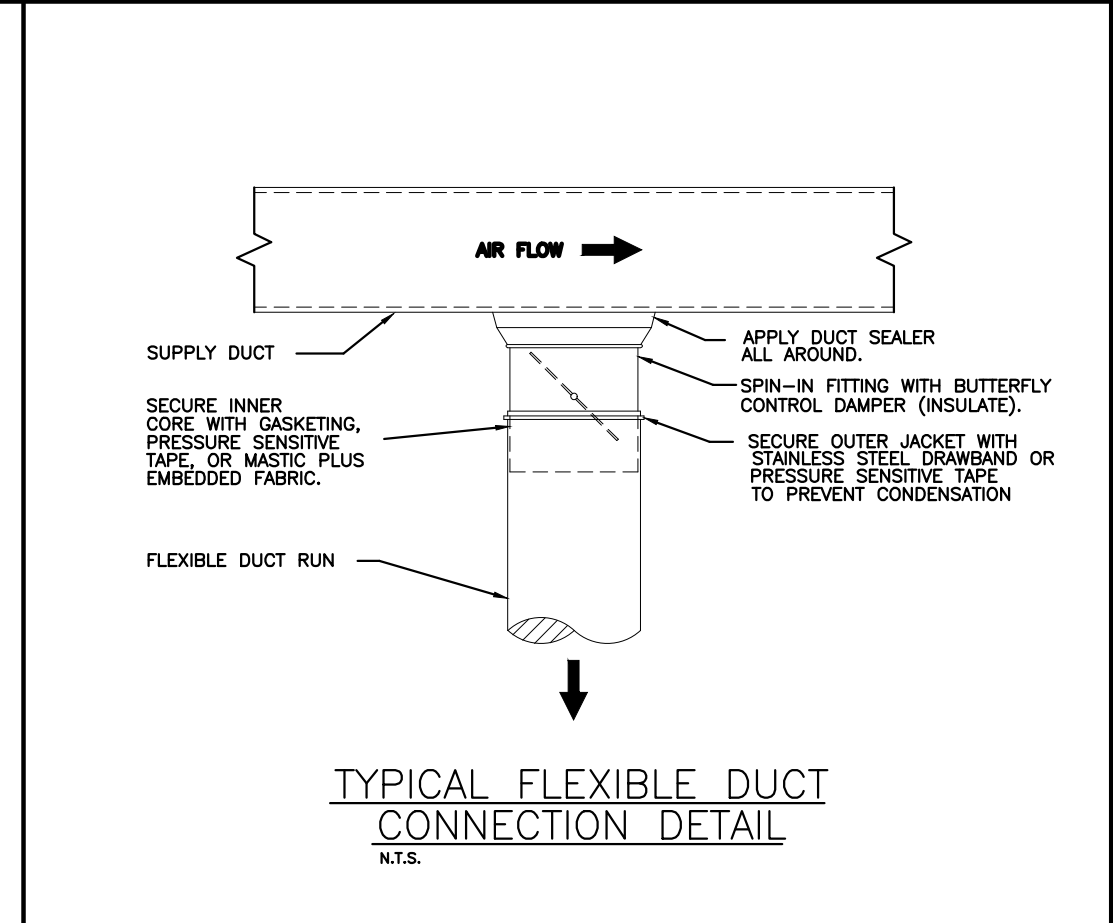
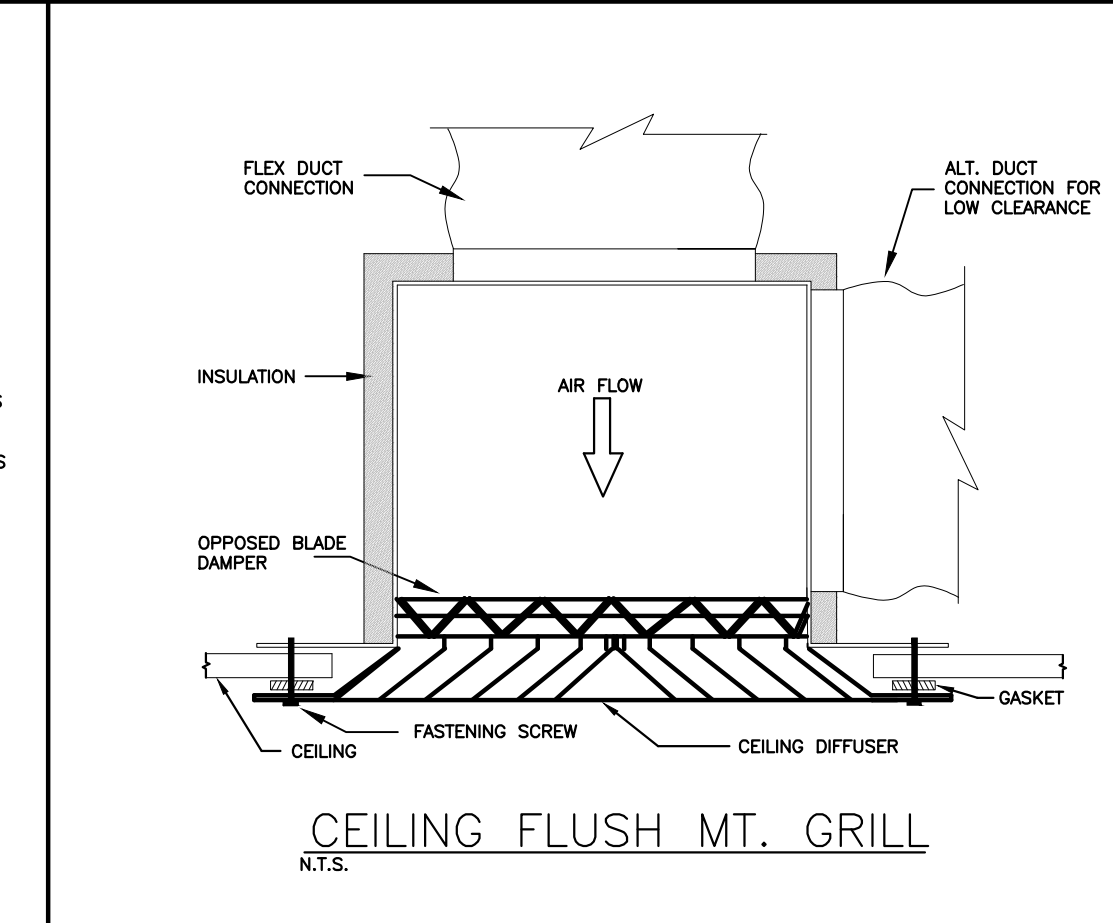
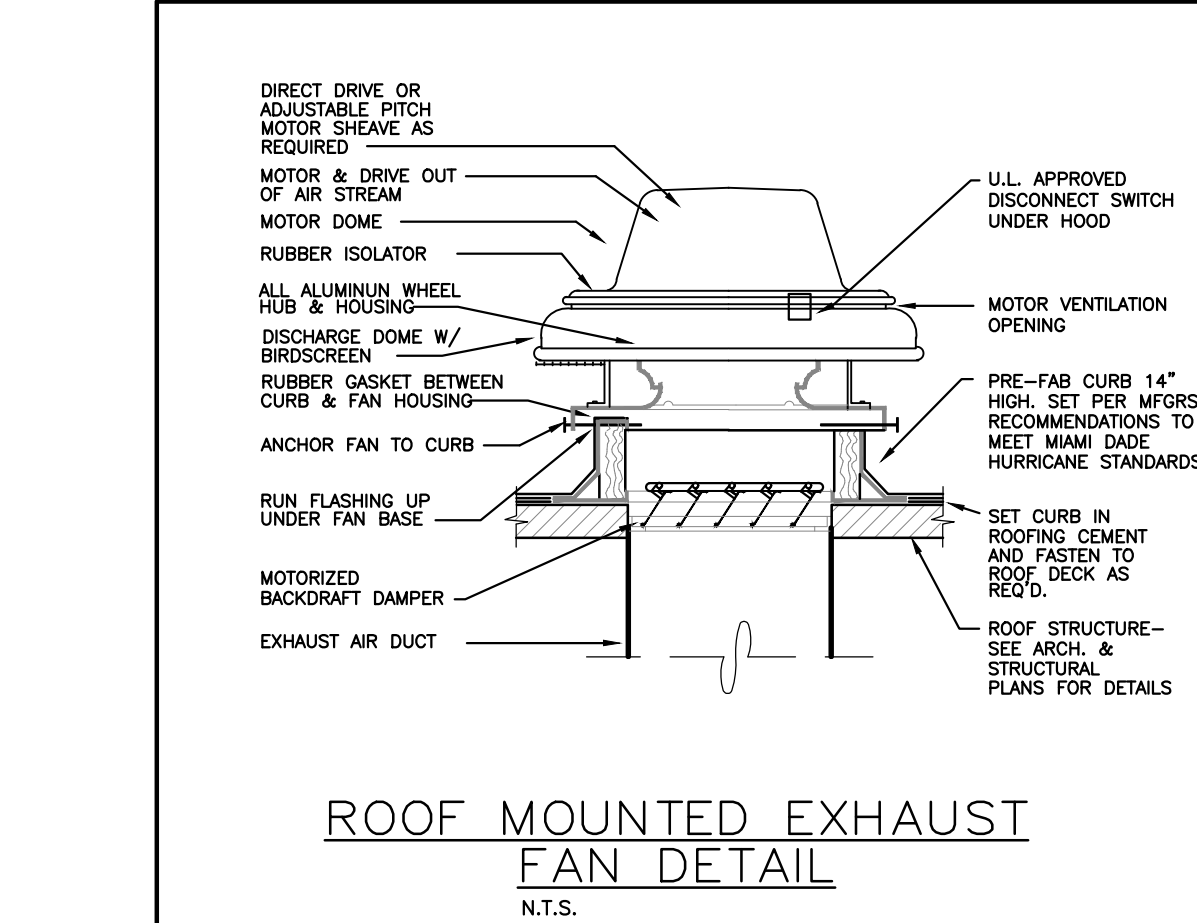
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SHEET  
**M-2**  
2 OF 3

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Building:		Employee Resources	
System Tag/Name:		AHU 1	
Operating Condition Description:			
Units (select from pull-down list)		IP	
<b>Inputs for System</b>			
Floor area served by system	As	sf	1080
Population of area served by system	Ps	P	1
Design primary supply fan airflow rate	Vpsd	cfm	845
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06
OA req'd per person for system area (Weighted average)	Rps	cfm/p	0.0
Percent increase in Vbz over minimum required			0%
<b>Inputs for Potentially Critical zones</b>			
Zone Name	Zone title turns purple italic for critical zone(s)		
Zone Tag			
Occupancy Category	Select from pull-down list:		
Floor Area of zone	Az	sf	
Design population of zone	Pz	P	(default value listed; may be overridden)
Design total supply to zone (primary plus local recirculated)	Vzdz	cfm	
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?	Select from pull-down list or leave blank if N/A:		
Frac. of local recirc. air that is representative of system RA	Er		
<b>Inputs for Operating Condition Analyzed</b>			
Percent of total design airflow rate at conditioned analyzed	Ds	%	19%
Air distribution type at conditioned analyzed	Select from pull-down list:		
Zone air distribution effectiveness at conditioned analyzed	Ez		
Primary air fraction of supply air at conditioned analyzed	Ep		
<b>Results</b>			
System Ventilation Efficiency	Ev		1.00
Outdoor air intake required for system	Vot	cfm	50
Outdoor air per unit floor area	Vot/As	cfm/sf	0.05
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	49.7
Outdoor air as a % of design primary supply air	Ypd	%	6%
<b>Detailed Calculations</b>			
<b>Initial Calculations for the System as a whole</b>			
System primary supply air flow at conditioned analyzed	Vps	cfm	= Vpsd Ds = 160
Uncorrected OA intake flow req'd for system	Vou	cfm	= Rps Ps + Ras As = 65
Uncorrected OA req'd as a fraction of primary SA	Xs		= Vou / Vps = 0.41
<b>Initial Calculations for individual zones</b>			
Area outdoor air rate	Ra	cfm/sf	0.06
People outdoor air rate	Rp	cfm/p	0.00
Total supply air to zone (at condition being analyzed)	Vzd	cfm	Vzdz Ds = 120
Primary airflow to zone (at condition being analyzed)	Vpz	cfm	= Vzdz Ep = 120
Breathing zone outdoor airflow	Vbz	cfm	= Rp Pz + Ra Az = 8
Zone outdoor airflow	Voz	cfm	= Vbz / Ez = 8
Fraction of zone supply not directly recirc. from zone	Fa		= Ep + (1-Ep) Er = 1.00
Fraction of zone supply from fully mixed primary air	Fb		= Ep = 1.00
Fraction of zone OA not directly recirc. from zone	Fc		= 1-(1-Ez)(1-Ep)(1-Er) = 1.00
OA fraction required in the supply air to the zone	Zd		= Voz / Vzdz = 0.07
OA fraction required in the primary air to the zone	Zpz		= Voz / Vpz = 0.07
<b>System Ventilation Efficiency</b>			
Zone Ventilation Efficiency (App A Method)	Evz		= (Fa+FBXs-FcZpzEp)/Fa = 1.34
System Ventilation Efficiency (App A Method)	Ev		= min (Evz) = 1.30
System Ventilation Efficiency (Table 6.3 Method)	Ev		= Value from Table 6.3 = 1.05
<b>Minimum outdoor air intake airflow</b>			
Outdoor Air Intake Flow required to System	Vot	cfm	= Vou / Ev = 50
OA intake req'd as a fraction of primary SA	Y		= Vot / Vps = 0.31
Outdoor Air Intake Flow required to System (Table 6.3 Method)	Vot	cfm	= Vou / Ev = 62
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		= Vot / Vps = 0.39
<b>OA Temp at which Min OA provides all cooling</b>			
OAT below which OA Intake flow is @ minimum	Deg F		= ((Tp-dTsf)-(1-Y)*(Tr+dTrf))/Y = 17

Building:		Employee Resources	
System Tag/Name:		AHU 2	
Operating Condition Description:			
Units (select from pull-down list)		IP	
<b>Inputs for System</b>			
Floor area served by system	As	sf	820
Population of area served by system	Ps	P	53
Design primary supply fan airflow rate	Vpsd	cfm	1,780
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.5
Percent increase in Vbz over minimum required			0%
<b>Inputs for Potentially Critical zones</b>			
Zone Name	Zone title turns purple italic for critical zone(s)		
Zone Tag			
Occupancy Category	Select from pull-down list:		
Floor Area of zone	Az	sf	820
Design population of zone	Pz	P	53.3
Design total supply to zone (primary plus local recirculated)	Vzdz	cfm	1,780
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?	Select from pull-down list or leave blank if N/A:		
Frac. of local recirc. air that is representative of system RA	Er		
<b>Inputs for Operating Condition Analyzed</b>			
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%
Air distribution type at conditioned analyzed	Select from pull-down list:		
Zone air distribution effectiveness at conditioned analyzed	Ez		CS
Primary air fraction of supply air at conditioned analyzed	Ep		1.00
<b>Results</b>			
System Ventilation Efficiency	Ev		1.00
Outdoor air intake required for system	Vot	cfm	449
Outdoor air per unit floor area	Vot/As	cfm/sf	0.55
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	8.4
Outdoor air as a % of design primary supply air	Ypd	%	25%
<b>Detailed Calculations</b>			
<b>Initial Calculations for the System as a whole</b>			
System primary supply air flow at conditioned analyzed	Vps	cfm	= Vpsd Ds = 1780
Uncorrected OA intake flow req'd for system	Vou	cfm	= Rps Ps + Ras As = 449
Uncorrected OA req'd as a fraction of primary SA	Xs		= Vou / Vps = 0.25
<b>Initial Calculations for individual zones</b>			
Area outdoor air rate	Ra	cfm/sf	0.06
People outdoor air rate	Rp	cfm/p	7.50
Total supply air to zone (at condition being analyzed)	Vzd	cfm	Vzdz Ds = 1780
Primary airflow to zone (at condition being analyzed)	Vpz	cfm	= Vzdz Ep = 1780
Breathing zone outdoor airflow	Vbz	cfm	= Rp Pz + Ra Az = 449
Zone outdoor airflow	Voz	cfm	= Vbz / Ez = 449
Fraction of zone supply not directly recirc. from zone	Fa		= Ep + (1-Ep) Er = 1.00
Fraction of zone supply from fully mixed primary air	Fb		= Ep = 1.00
Fraction of zone OA not directly recirc. from zone	Fc		= 1-(1-Ez)(1-Ep)(1-Er) = 1.00
OA fraction required in the supply air to the zone	Zd		= Voz / Vzdz = 0.25
OA fraction required in the primary air to the zone	Zpz		= Voz / Vpz = 0.25
<b>System Ventilation Efficiency</b>			
Zone Ventilation Efficiency (App A Method)	Evz		= (Fa+FBXs-FcZpzEp)/Fa = 1.00
System Ventilation Efficiency (App A Method)	Ev		= min (Evz) = 1.00
System Ventilation Efficiency (Table 6.3 Method)	Ev		= Value from Table 6.3 = 0.90
<b>Minimum outdoor air intake airflow</b>			
Outdoor Air Intake Flow required to System	Vot	cfm	= Vou / Ev = 449
OA intake req'd as a fraction of primary SA	Y		= Vot / Vps = 0.25
Outdoor Air Intake Flow required to System (Table 6.3 Method)	Vot	cfm	= Vou / Ev = 500
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		= Vot / Vps = 0.28
<b>OA Temp at which Min OA provides all cooling</b>			
OAT below which OA Intake flow is @ minimum	Deg F		= ((Tp-dTsf)-(1-Y)*(Tr+dTrf))/Y = 5

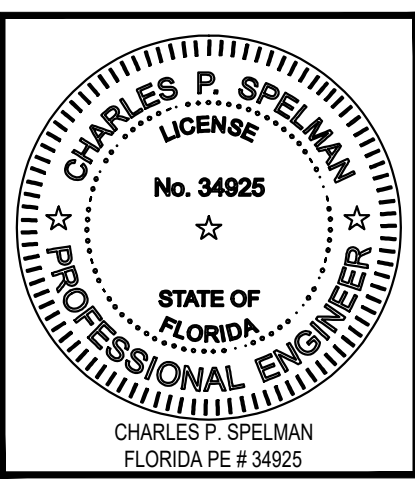


Building:		Employee Resources	
System Tag/Name:		AHU 3	
Operating Condition Description:			
Units (select from pull-down list)		IP	
<b>Inputs for System</b>			
Floor area served by system	As	sf	1,206
Population of area served by system	Ps	P	13
Design primary supply fan airflow rate	Vpsd	cfm	1,160
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.08
OA req'd per person for system area (Weighted average)	Rps	cfm/p	5.0
Percent increase in Vbz over minimum required			0%
<b>Inputs for Potentially Critical zones</b>			
Zone Name	Zone title turns purple italic for critical zone(s)		
Zone Tag			
Occupancy Category	Select from pull-down list:		
Floor Area of zone	Az	sf	
Design population of zone	Pz	P	(default value listed; may be overridden)
Design total supply to zone (primary plus local recirculated)	Vzdz	cfm	
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?	Select from pull-down list or leave blank if N/A:		
Frac. of local recirc. air that is representative of system RA	Er		
<b>Inputs for Operating Condition Analyzed</b>			
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%
Air distribution type at conditioned analyzed	Select from pull-down list:		
Zone air distribution effectiveness at conditioned analyzed	Ez		CS
Primary air fraction of supply air at conditioned analyzed	Ep		1.00
<b>Results</b>			
System Ventilation Efficiency	Ev	cfm	0.86
Outdoor air intake required for system	Vot	cfm	183
Outdoor air per unit floor area	Vot/As	cfm/sf	0.15
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	13.8
Outdoor air as a % of design primary supply air	Ypd	%	16%
<b>Detailed Calculations</b>			
<b>Initial Calculations for the System as a whole</b>			
System primary supply air flow at conditioned analyzed	Vps	cfm	= Vpsd Ds = 1160
Uncorrected OA intake flow req'd for system	Vou	cfm	= Rps Ps + Ras As = 157
Uncorrected OA req'd as a fraction of primary SA	Xs		= Vou / Vps = 0.14
<b>Initial Calculations for individual zones</b>			
Area outdoor air rate	Ra	cfm/sf	0.12
People outdoor air rate	Rp	cfm/p	5.00
Total supply air to zone (at condition being analyzed)	Vzd	cfm	Vzdz Ds = 310
Primary airflow to zone (at condition being analyzed)	Vpz	cfm	= Vzdz Ep = 310
Breathing zone outdoor airflow	Vbz	cfm	= Rp Pz + Ra Az = 86
Zone outdoor airflow	Voz	cfm	= Vbz / Ez = 86
Fraction of zone supply not directly recirc. from zone	Fa		= Ep + (1-Ep) Er = 1.00
Fraction of zone supply from fully mixed primary air	Fb		= Ep = 1.00
Fraction of zone OA not directly recirc. from zone	Fc		= 1-(1-Ez)(1-Ep)(1-Er) = 1.00
OA fraction required in the supply air to the zone	Zd		= Voz / Vzdz = 0.28
OA fraction required in the primary air to the zone	Zpz		= Voz / Vpz = 0.28
<b>System Ventilation Efficiency</b>			
Zone Ventilation Efficiency (App A Method)	Evz		= (Fa+FBXs-FcZpzEp)/Fa = 0.86
System Ventilation Efficiency (App A Method)	Ev		= min (Evz) = 0.86
System Ventilation Efficiency (Table 6.3 Method)	Ev		= Value from Table 6.3 = 0.87
<b>Minimum outdoor air intake airflow</b>			
Outdoor Air Intake Flow required to System	Vot	cfm	= Vou / Ev = 183
OA intake req'd as a fraction of primary SA	Y		= Vot / Vps = 0.16
Outdoor Air Intake Flow required to System (Table 6.3 Method)	Vot	cfm	= Vou / Ev = 180
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		= Vot / Vps = 0.16
<b>OA Temp at which Min OA provides all cooling</b>			
OAT below which OA Intake flow is @ minimum	Deg F		= ((Tp-dTsf)-(1-Y)*(Tr+dTrf))/Y = -36

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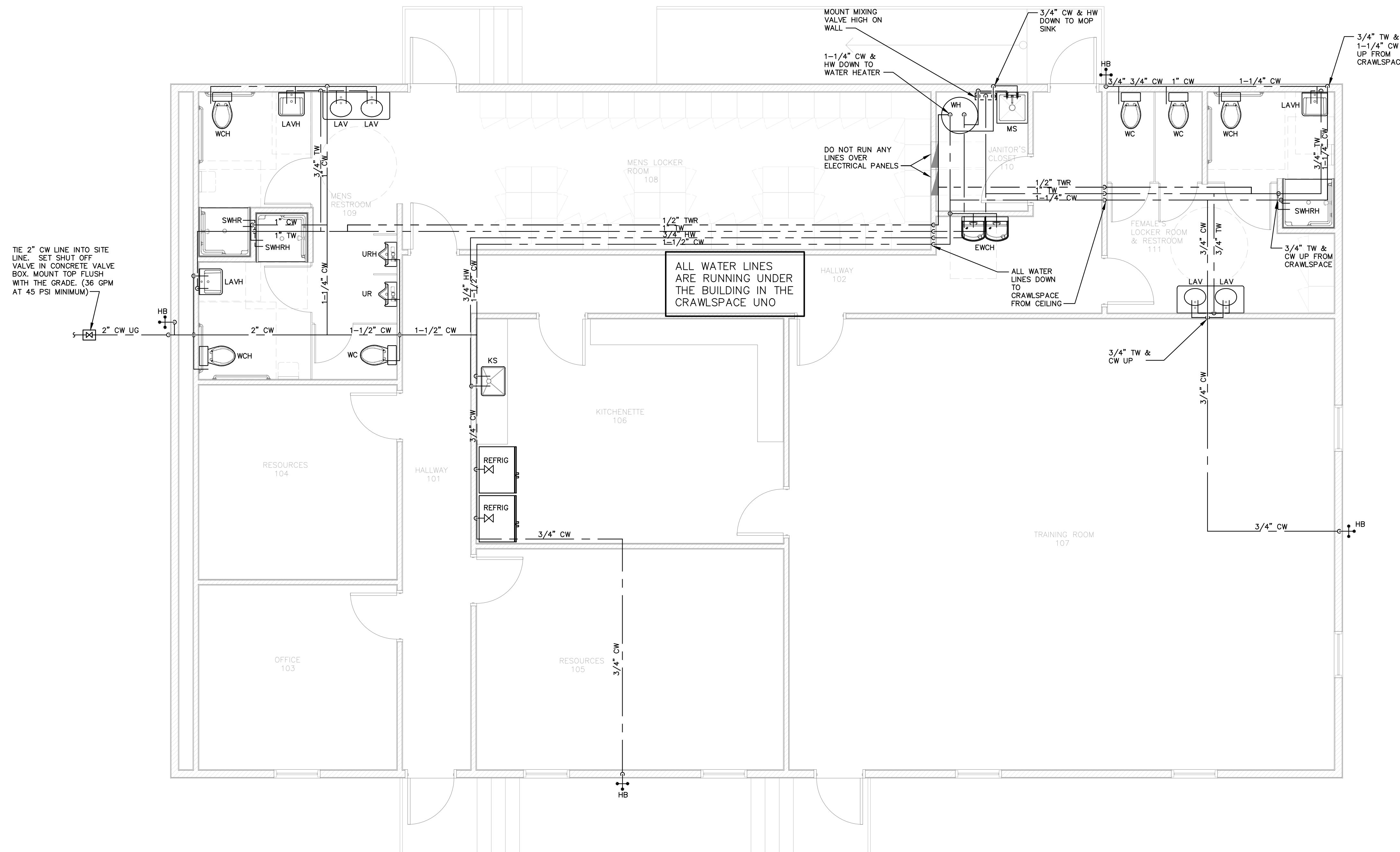
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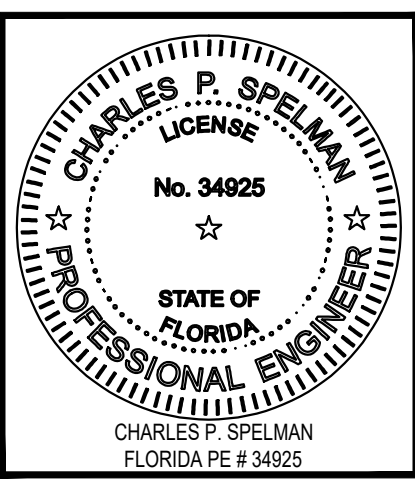
1 WATER PLAN  
P-3 SCALE: 1/4"=1'-0"

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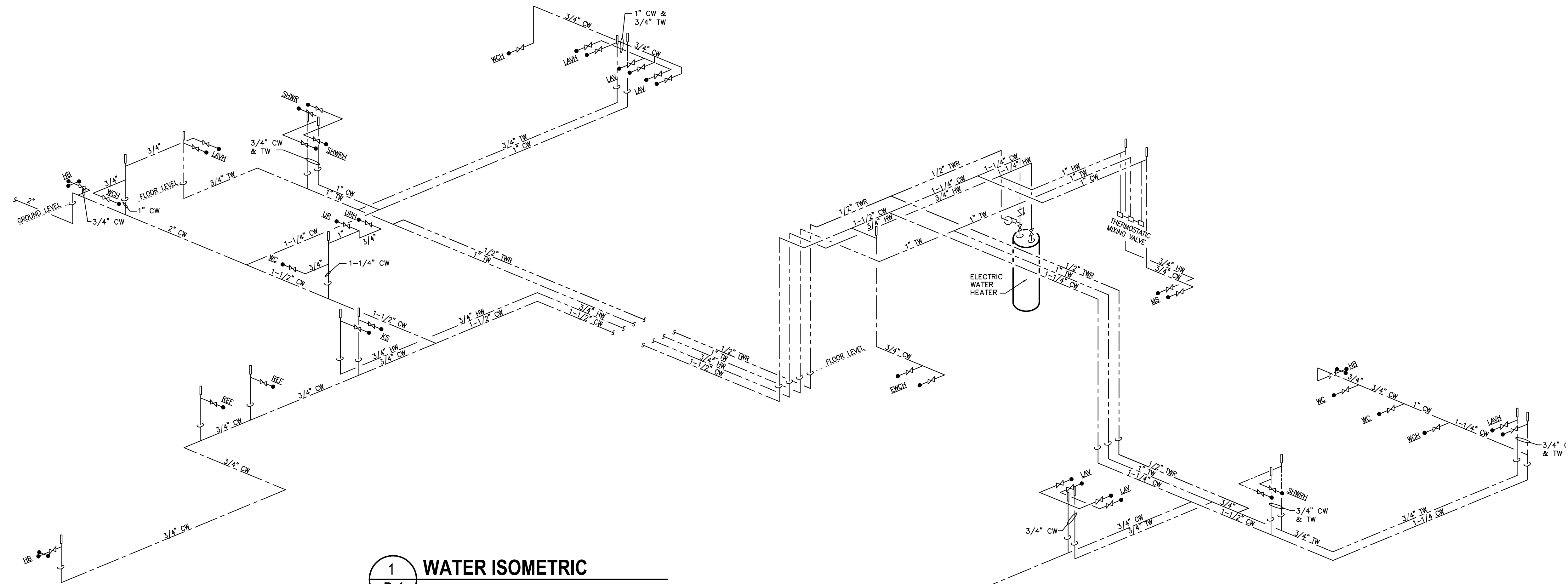
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WATER PLAN

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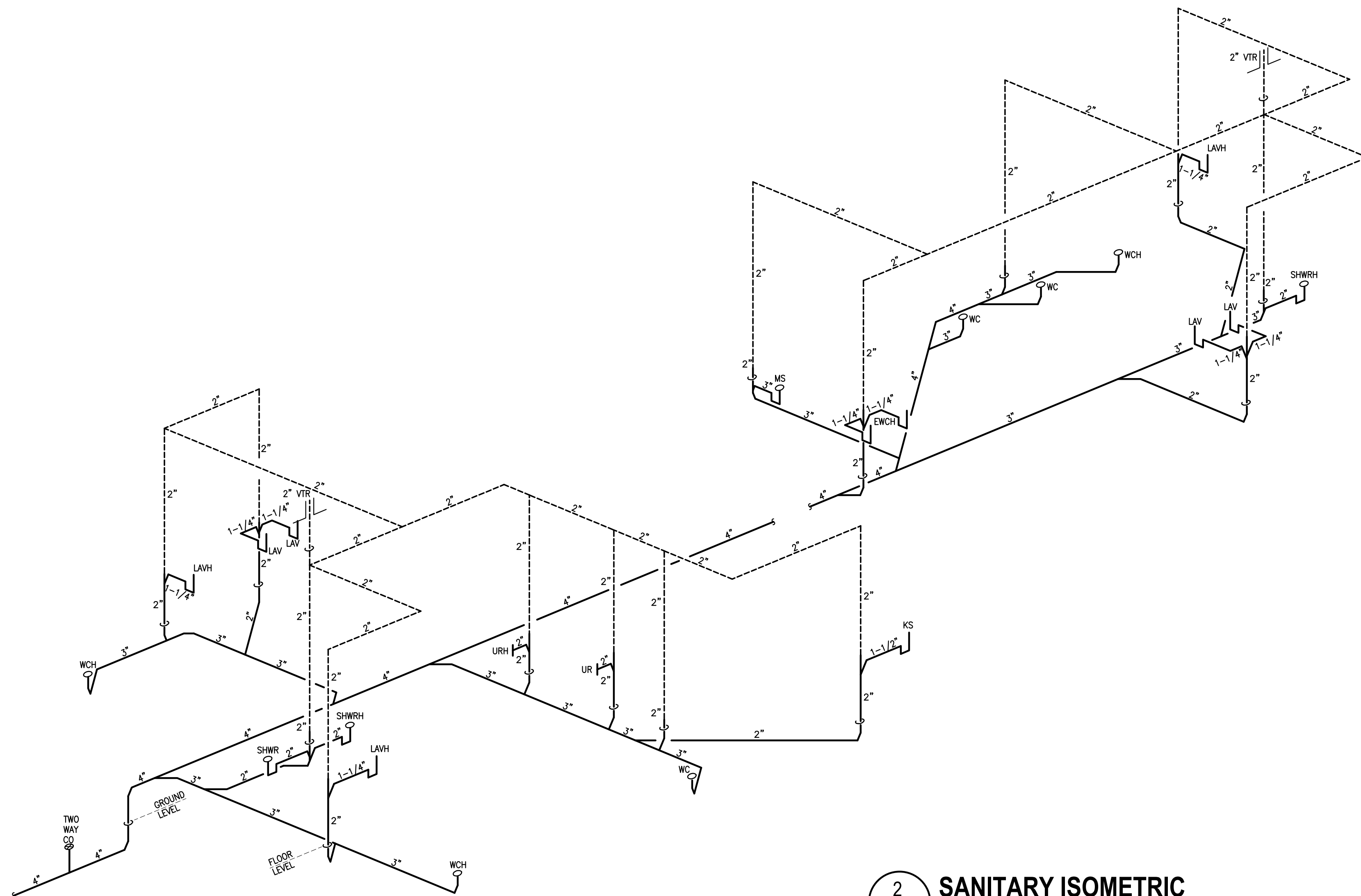
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**P-3**  
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**1 WATER ISOMETRIC**  
P-4 SCALE: NONE



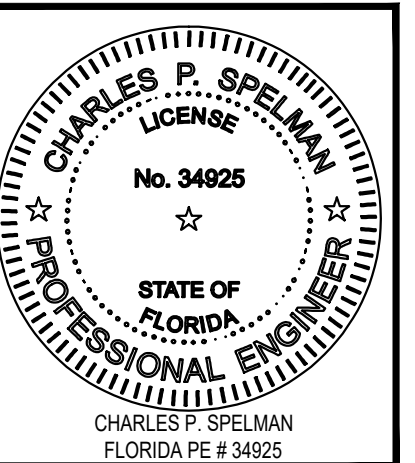
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P-4 SCALE: NONE

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**P-4**  
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