

# CENTRAL CREDIT UNION OF FLORIDA

## PANAMA CITY SERVICE BRANCH

2615 HIGHWAY 77

PANAMA CITY, FL 32405

### PERMIT SET / CONSTRUCTION DOCUMENTS

DECEMBER 7, 2012



SAM MARSHALL ARCHITECTS  
325 S. PALAFOX STREET  
PENSACOLA, FL 32502  
(850) 433-7842  
(850) 433-0510 fax



*You Belong.*

## CENTRAL CREDIT UNION OF FLORIDA

## PANAMA CITY SERVICE BRANCH

#### ABBREVIATIONS LEGEND

(SOME ABBREVIATIONS MAY NOT BE USED)

ACOUS	ACOUSTICAL	FE	FE FIRE EXTINGUISHER	PLUMB	PLUMBING
AFF	ABOVE FINISHED FLOOR	FEC	FEC FIRE EXTINGUISHER	PS	PROJECTION SCREEN
ALT	ALTERNATE		IN WALL CABINET	PT	PRESSURE TREATED
ALUM	ALUMINUM	FT	FT FACIAL TISSUE DISPENSER	PLWD	PLYWOOD
AW	ASH/WASTE RECEPTACLE	FM	FM FORCE MAIN	R	RISER
BEJ	BRICK EXPANSION JOINT	FH	FH FIRE HYDRANT	RAD	RADIUS
BLDG	BUILDING	GB	GB GRAB BAR	RCP	REINFORCED CONCRETE PIPE
BRG	BEARING	GA	GA. GAUGE	REIN	REINFORCEMENT
BOTT	BOTTOM	GALV	GALV. GALVANIZED	RM	ROOM
BM	BEAM	GL	GLASS	RO	ROUGH OPENING
BLKG	BLOCKING	GYP BD	GYPSUM BOARD	SD	STORM DRAIN
CW	COLD WATER	HB	HOSE BIB	SC	SCALE
CB	CHALKBOARD	HDWD	HARDWOOD	SMEP	SEEMLESS EPOXY FINISH
CJ	COLD JOINT	HM	HOLLOW METAL	SMFF	SEEMLESS RESINOUS FLOOR SYS.
CLG	CEILING	HMF	HOLLOW METAL FRAME	SS	SANITARY SEWER
CLG HT	CEILING HEIGHT	HORIZ	HORIZONTAL	ST STL	STAINLESS STEEL
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT	STL	STEEL
COL	COLUMN	HEWC	HANDICAPPED ELECTRIC	STO	STORAGE
CONC	CONCRETE		WATER COOLER	STRUCT	STRUCTURE
CONST	CONSTRUCTION	INFO	INFORMATION	SUSP	SUSPENDED
CONT	CONTINUOUS	INSUL	INSULATION	SUSP SYS	SUSPENSION SYSTEM
CT	CERAMIC TILE	INT	INTERIOR	TB	TACKBOARD
CU	COPPER	JAN	JANITOR	TR	TREATED (WOOD)
DET	DETAIL	L	LENGTH	TYP	TYPICAL
DIA	DIAMETER	MB	MARKER BOARD	TCP	THIN COAT PLASTER (SYSTEM)
DWG	DRAWING	MECH	MECHANICAL	TW	TOWEL DISPENSER/
DF	DRINKING FOUNTAIN	MEMB	MEMBRANE		WASTE RECEPTACLE
DS	DOWN SPOUT	MDO	MEDIUM DENSITY	TP	TOILET PAPER DISPENSER
DN	DOWN		OVERLAY PLYWOOD	UON	UNLESS OTHERWISE NOTED
EA	EACH	MH	MANHOLE	VCT	VINYL COMPOSITE TILE
EJ	EXPANSION JOINT	MO	MASONRY OPENING	W	WIDE
EL	ELEVATION (GRADE)	MR	MIRROR	W/	WITH
ELEV	ELEVATION	MS	METAL SHELVING	WD	WOOD
EQ	EQUAL	MT	METAL THRESHOLD	WP	WATERPROOF
EQUIP	EQUIPMENT	MTD	MOUNTED	WR	WATER RESISTANT
EXIST/EX	EXISTING	MW	MILLWORK		
EWC	ELECTRIC WATER COOLER	ND	NAPKIN DISPOSER		
EPS	ELECTRIC PROJECTION SCREEN	NIC	NOT IN CONTRACT		
FBO	FURNISHED BY OWNER	NO	NUMBER		
FD	FLOOR DRAIN	NTS	NOT TO SCALE		
FC	FIRE CODE (GYP. BD.)	NV	NAPKIN VENDOR		
FIN	FINISH	OC	ON CENTER		
FF	FINISHED FLOOR	OPP	OPPOSITE		
FTG	FOOTING	PB	PEG BOARD		
FLR	FLOOR	P/L	PLASTIC LAMINATE		

#### SHEET INDEX

##### CCUF

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#### CODE ANALYSIS

FL BUILDING CODE 2010

BUILDING AREA	2,680 GROSS SQ. FT. (NOT INCLUDING COVERED ENTRY & DRIVE-THROUGH)
USE & OCCUPANCY CLASSIFICATION	BUSINESS (BANK)
BUILDING HEIGHT (STORY, FEET)	1 STORY, 21'-6" IN HEIGHT TO ROOF RIDGE
CONSTRUCTION TYPE	WOOD FRAME W/ BRICK VENEER TYPE V

#### SYMBOLS LEGEND

(SOME SYMBOLS MAY NOT BE USED)

	ROOM NUMBER		DEMOLITION NOTE		DETAIL NUMBER THAT SHEET		WALL TYPE
	DOOR NUMBER		CONSTRUCTION NOTE		BUILDING SECTION, DIRECTION INDICATED BY ARROW		WALL TYPE MARKER
	WINDOW TYPE		DETAIL NUMBER SHEET NUMBER		SECTION CUT, DIRECTION INDICATED BY ARROW		SPOT ELEVATION

#### CONSULTANTS

##### CIVIL

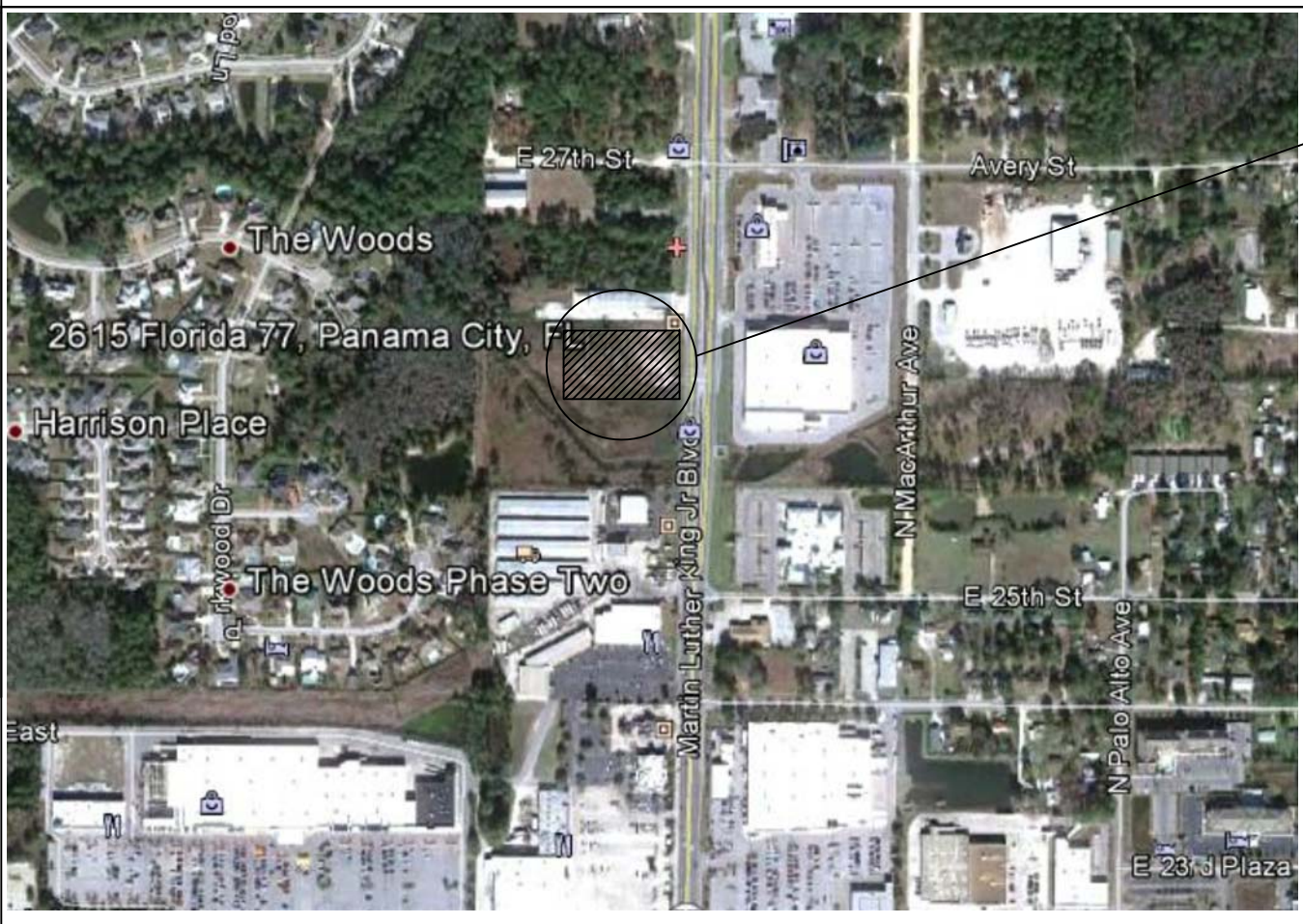
McNEIL CARROLL ENGINEERING, INC.  
475 HARRISON AVE., SUITE 200  
PANAMA CITY, FL 32401  
T. (850) 763-5730  
F. (850) 763-5744

##### STRUCTURAL

BERUBE LEONARD, LLC.  
3101 NORTH 12TH AVENUE  
PENSACOLA, FL 32503  
T. / F. (850) 473-9955

#### VICINITY MAP: NTS

2615 HIGHWAY 77  
PANAMA CITY, FL 32405



#### FLORIDA PRODUCT APPROVAL NUMBERS

STOREFRONT  
# FL10008 (EXTRUDED ALUMINUM IMPACT RESISTANT)  
KAWNEER COMPANY, INC.  
SWINGING EXTERIOR DOORS  
# FL4553 (HOLLOW METAL DOOR & FRAME)  
CECO  
ASPHALT SHINGLES  
# FL5444  
CERTAINTED CORPORATION  
VINYL SOFFIT  
# FL2633  
OWENS CORNING

THESE ITEMS REPRESENT THE BASIS FOR THE DESIGN.  
EACH SECTION OF THE SPECIFICATIONS LISTS EQUAL PRODUCTS.  
THE EQUALS ARE REQUIRED TO HAVE FLORIDA PRODUCT APPROVAL NUMBERS AS WELL.

##### REVISIONS

No.	Description	Date

Title:

COVER SHEET

Scale: As Noted  
Date: December 7, 2012  
Drawn By: JF  
Checked By: DA  
Approved By: DA

Dwg. No.

T-1



# CENTRAL CREDIT UNION OF FLORIDA

## STATE ROAD 77

**FOR:**

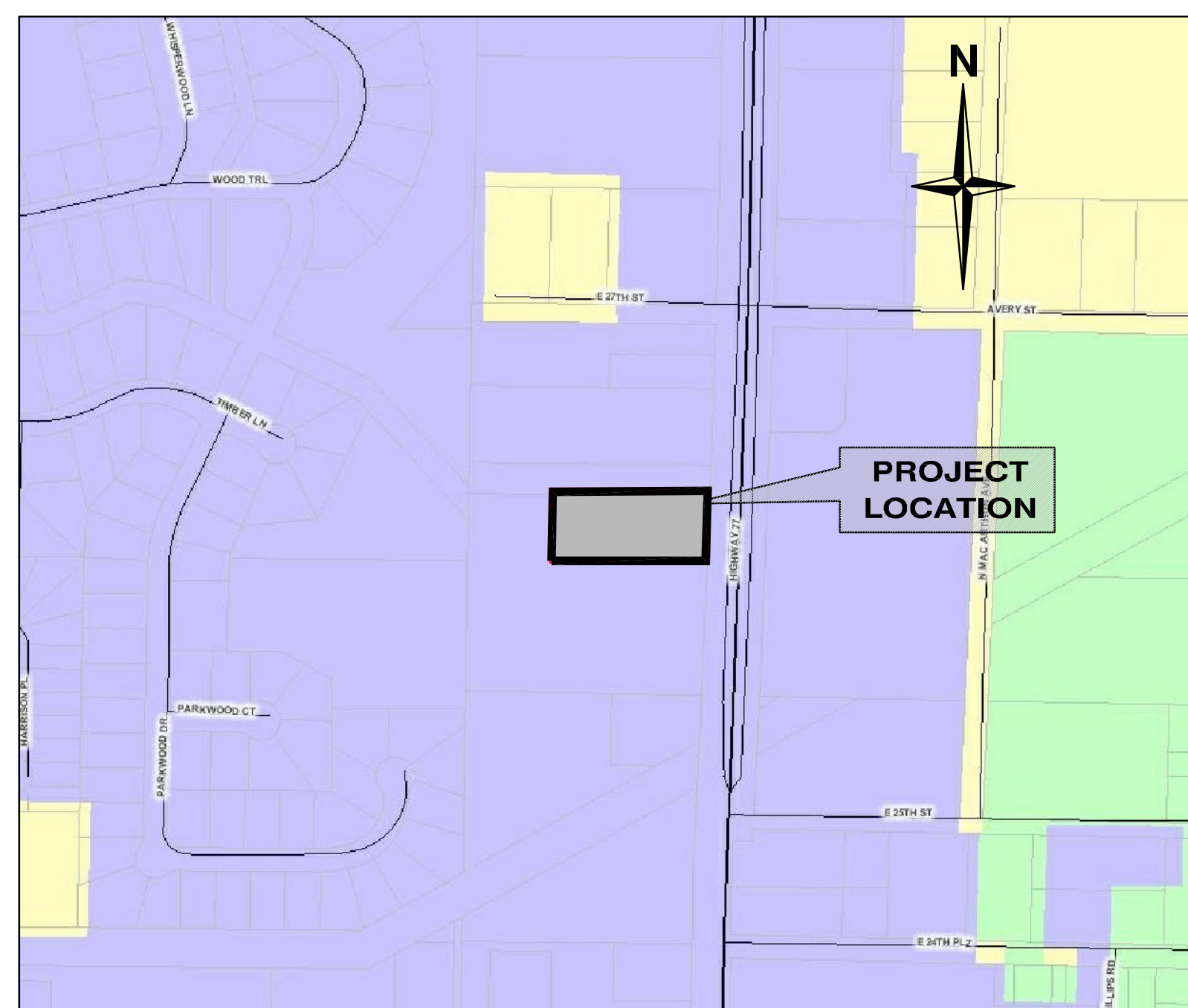
**CENTRAL CREDIT UNION OF FLORIDA**  
**6200 NORTH W STREET**  
**PENSACOLA, FLORIDA 32505**

PREPARED BY:

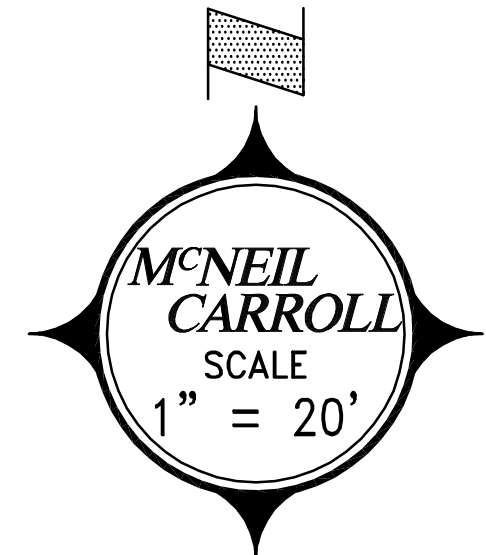
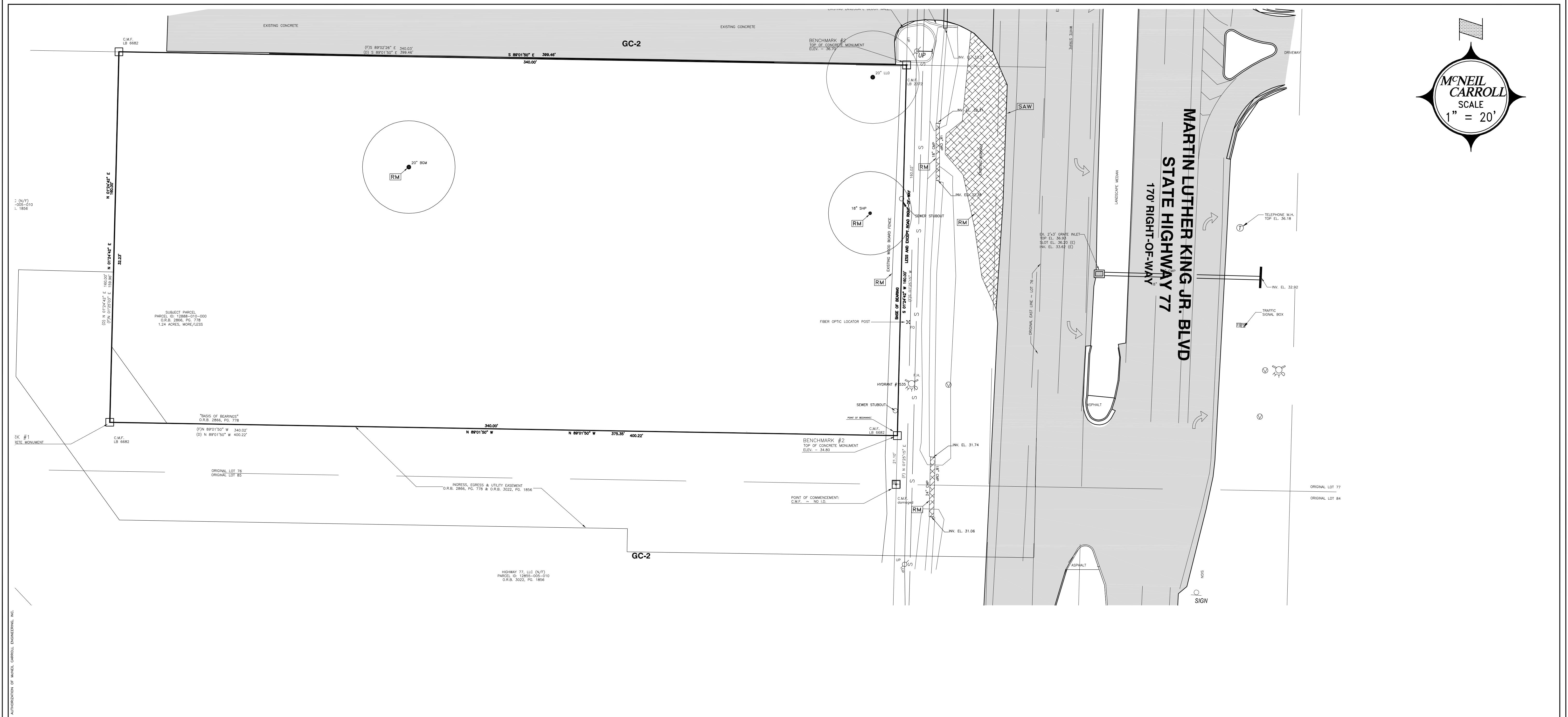


PROJECT 85502

INDEX OF SHEETS	SHEETS
SITE DEMO PLAN	1
SITE EROSION CONTROL PLAN	2
SITE LAYOUT PLAN	3
SITE GRADING PLAN	4
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**VICINITY MAP**  
NOT TO SCALE



SITE DEMOLITION DRAWING NOTES:

1. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
2. ALL DEMOLISHED MATERIALS (i.e., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
3. ALTHOUGH EVERY ATTEMPT TO LOCATE UNDERGROUND UTILITIES HAS BEEN MADE, THERE IS THE POSSIBILITY OF UNDERGROUND GAS, ELECTRICAL, WATER SEWER, ETC... THAT HAS NOT BEEN LOCATED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE", WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.

SYMBOL LEGEND

- [N1] (SEE NOTE 1e, #1 - SEE NOTES ON THIS SHEET)
- [RM] (REMOVE EXISTING MATERIALS)
- [SAW] (SAW CUT AND REMOVE EXISTING MATERIALS)

PERMIT PURPOSES ONLY

SITE DEMO PLAN  
CENTRAL CREDIT UNION OF FLORIDA  
STATE ROAD 77  
PANAMA CITY, FLORIDA

SCALE: SHOWN  
DESIGNED BY: JFP  
DRAWN BY: JFP  
REVIEWED BY: SDM  
ISSUE DATE: 12/11/2012  
CF/ID: 85502E01  
NOT RELEASED FOR CONSTRUCTION  
BY: [Signature]  
DATE:

**McNEIL  
CARROLL**  
ENGINEERING, INC.

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401  
Phone: 850-763-5730  
Fax: 850-763-5744

Professional Engineering Consultants  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.  
PROFESSIONAL ENGINEER  
FL IC # 49303

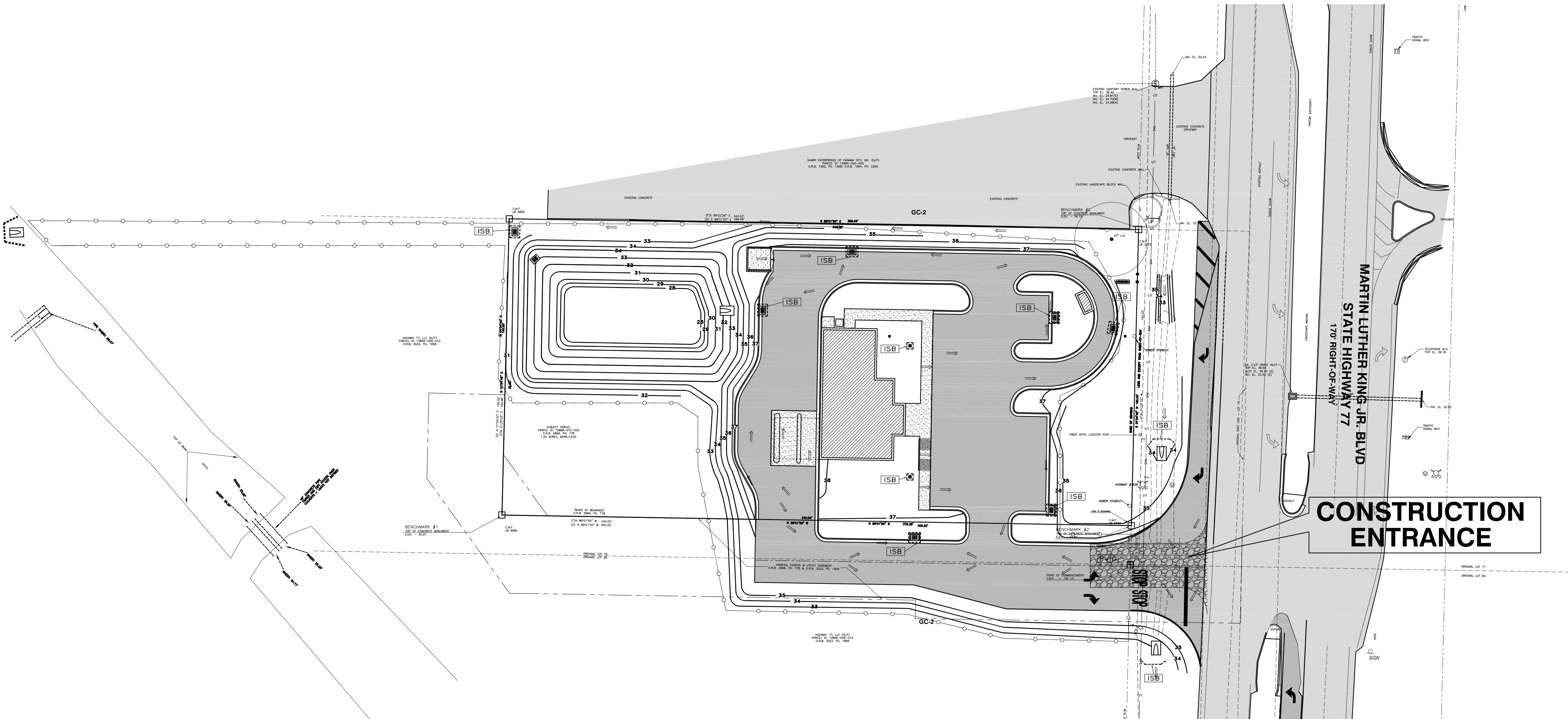
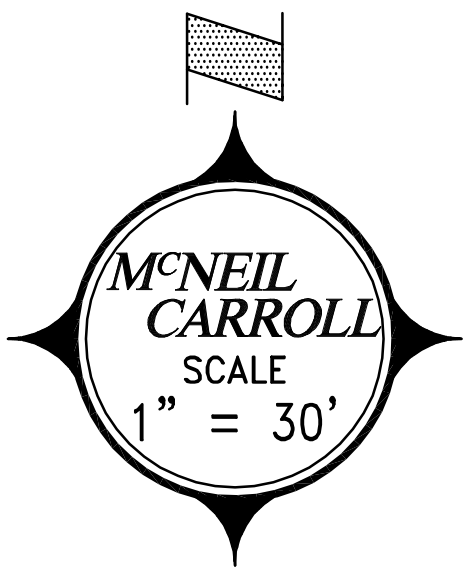
Robert L. Carroll, P.E.  
PROFESSIONAL ENGINEER  
FL IC # 57988

SHEET NUMBER

1 OF 12

85502 - CENTRAL CREDIT UNION OF FLORIDA





SITE EROSION CONTROL DRAWING NOTES:

1. EROSION CONTROL SHALL BE MAINTAINED FOR THE DURATION FOR THE PROJECT.
2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.).
3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
4. SEE SECTIONS IN CONSTRUCTION DETAILS.
5. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
6. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
7. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
8. ALL CATCH BASINS, INLETS AND ACCESSSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
9. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).
10. CONSTRUCTION DRIVES SHALL SLOPE AWAY FROM THE ROADWAY AT A MINIMUM SLOPE OF 2.00% TO DISTANCE OF NOT LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT. THE MAXIMUM WIDTH OF THE DRIVE SHALL BE 30 FEET WITH #57 GRAVEL SURFACE 6 INCHES THICK. SIGNS SHALL BE PLACED (IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS) TO WARN APPROACHING DRIVERS AND PEDESTRIANS.
11. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE", WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR OR PRIVATE PROPERTY.
12. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE FDP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN 1 ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 48 HOUR NOTIFICATION TO THE APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL REQUIRED ELEMENTS OF THE SWPP MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.
13. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM EVENT (RAINFALL) THAT IS A 1/2 INCH OR GREATER:
  - A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
  - B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM WATER SYSTEMS.
  - C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
  - D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
  - E. STRUCTURAL CONTROLS.
  - F. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

SYMBOL LEGEND

- (STORMWATER SURFACE FLOW)
- [ISB] (INLET SEDIMENT BARRIER - SEE CONSTRUCTION DETAILS)
- [SILT] (SILT FENCE - SEE CONSTRUCTION DETAILS)
- [PVI] (24" WIDE x 50" DEEP FDOT #1 OR #2 GRAVEL CONSTRUCTION ENTRANCE 6" THICK)

14. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
15. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH, AS NEEDED.
16. RECORDS OF THE INSPECTIONS AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
17. ALL STORMWATER MANAGEMENT FACILITIES AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, DEMOLITION OR OTHER DISTURBANCE TO THE SUBJECT SITE.

CONSTRUCTION SEQUENCE AND BMP'S NWFWM

18. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORMWATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/4" HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORMWATER BASIN.
19. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO THE KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
20. SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING, SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
21. EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE THE THE STATE NPDES PROGRAM.
22. THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
23. CENTRAL CREDIT UNION OF FLORIDA IS RESPONSIBLE FOR MONITORING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY AND SUBMITTING TO THE APPROPRIATE AGENCY NOTICE OF COMMENCEMENT AND AS-BUILT CERTIFICATIONS FOR THE PROJECT WHEN COMPLETED.

DEWATERING

DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, APPLICANT'S HANDBOOK VOLUME I.

PERMIT PURPOSES ONLY

SITE GRADING AND DRAINAGE PLAN  
CENTRAL CREDIT UNION OF FLORIDA  
STATE ROAD 77  
PANAMA CITY, FLORIDA

SCALE: SHOWN  
DESIGNED BY: JFP  
DRAWN BY: JFP  
REVIEWED BY: SDH  
ISSUE DATE: 12/11/2012  
CF/D: 85502E01  
NOT RELEASED FOR CONSTRUCTION  
DATE:

**McNEIL  
CARROLL**  
ENGINEERING, INC.

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401  
Phone: 850-763-5730  
Fax: 850-763-5744

Professional Engineering Consultants  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.  
PROFESSIONAL ENGINEER  
FL IC # 49305

Robert L. Carroll, P.E.  
PROFESSIONAL ENGINEER  
FL IC # 57988

SHEET NUMBER

2 OF 12

85502 - CENTRAL CREDIT UNION OF FLORIDA





- |             |                                                    |
|-------------|----------------------------------------------------|
| <b>CSW</b>  | (CONCRETE SIDEWALK - SEE CONSTRUCTION DETAILS)     |
| <b>CUJF</b> | (F.D.O.T. CURB i.e., TYPE F)                       |
| <b>DE</b>   | (DUMPSITER ENCLOSURE - SEE CONSTRUCTION DETAILS)   |
| <b>DS</b>   | (DRAINAGE STRUCTURE - SEE GRADING & DRAINAGE PLAN) |
| <b>FDOT</b> | (SEE F.D.O.T. CONNECTION PERMIT)                   |
| <b>N1</b>   | (SEE NOTE i.e., #1 - SEE NOTES ON THIS SHEET)      |
| <b>SA</b>   | (SEE ARCH. PLANS)                                  |
| <b>SWMF</b> | (STORM WATER MANAGEMENT FACILITY)                  |
| <b>WF</b>   | (WATER FIXTURE - SEE UTILITY PLAN)                 |

SITE DATA TABLE		
GOVERNING ENTITY — CITY OF PANAMA CITY		
ZONING — GENERAL COMMERCIAL — 2 (GC-2)		
TOTAL AREA OF SITE: 54,398 SQUARE FEET — 1.24 ACRES		
TOTAL BUILDING AREA: 2,680 SQUARE FEET — 0.60 ACRES		
FLOOD ZONES ON PROPERTY: X		
	ALLOWED/REQUIRED	PROPOSED
TOTAL IMPERVIOUS AREA	48,958 SQUARE FEET — 1.12 ACRES	20,395 SQUARE FEET — 0.47 ACRES
IMPERVIOUS SURFACE RATIO	0.90	0.37
FLOOR AREA RATIO	3.00	0.05
OPEN SPACE AREA	5,440 SQUARE FEET — 0.12 ACRES	34,003 SQUARE FEET — 0.77 ACRES
OPEN SPACE RATIO	0.10 MIN.	0.63
FRONT YARD SETBACK	20 FEET	123 FEET
SIDE YARD SETBACK	15 FEET	33 FEET
REAR YARD SETBACK	7 FEET	123 FEET

PARKING SPACE SCHEDULE				
NO.	ANGLE	WIDTH	DEPTH	NOTES:
1-7	90°	9	20	
8	90°	12	20	W/ DRIVERS SIDE 5' WIDE AISLE
9-20	90°	9	20	

ALL PARKING STALLS SHALL BE 4" WHITE STRIPING ON ASPHALT AND 4" YELLOW ON CONCRETE. HANDICAP SIGNAGE AND STRIPING SHALL BE TO STATE AND CITY CODE. LANE SEPARATION LINES SHALL BE 6" WIDE.

REQUIRED PARKING CALCULATION			
PROPOSED USE	PARKING REQUIREMENT	SQUARE FOOTAGE/UNITS	SPACES REQUIRED
FINANCIAL INSTITUTION	1 PER 300 SQ. FT	2,680 SQUARE FEET	8.933
		TOTAL PARKING REQUIRED = 9	
		TOTAL PARKING PROVIDED = 20	

TRIP GENERATION SCHEDULE				
DESCRIPTION/ ITE CODE	UNIT DESIGNATION	EXPECTED UNITS	EXPECTED DAILY TRIPS	P.M. PEAK TRIPS
DRIVE-IN BANK	DRIVE-IN LANES	3.0	418	82

**PERMIT PURPOSES ONLY**

**SITE LAYOUT PLAN**  
**CENTRAL CREDIT UNION OF FLORIDA**  
**STATE ROAD 77**  
**PANAMA CITY, FLORIDA**

**McNEIL**  
— **CARROLL**  
ENGINEERING, INC.

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401

Phone: 850-763-5730  
Fax: 850-763-5744

Professional Engineering Consultants  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

SCALE: SHOWN
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ISSUE DATE: 12/11/2012
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BY: DJT:

NO.	DATE	BY	REVISIONS
01			
02			
03			
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Sean D. McNeil, P.E.  
PROFESSIONAL ENGINEER  
FL LC # 49303

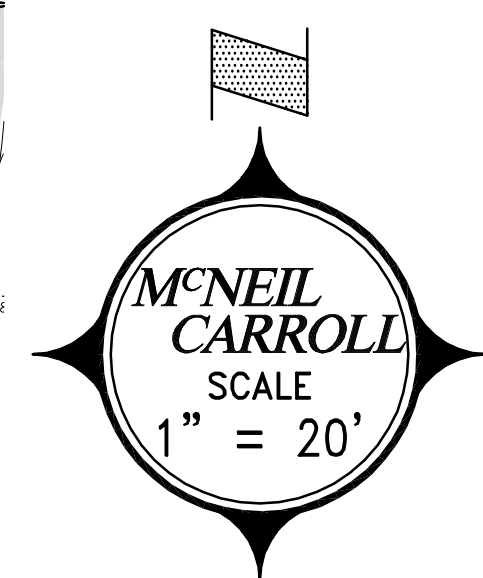
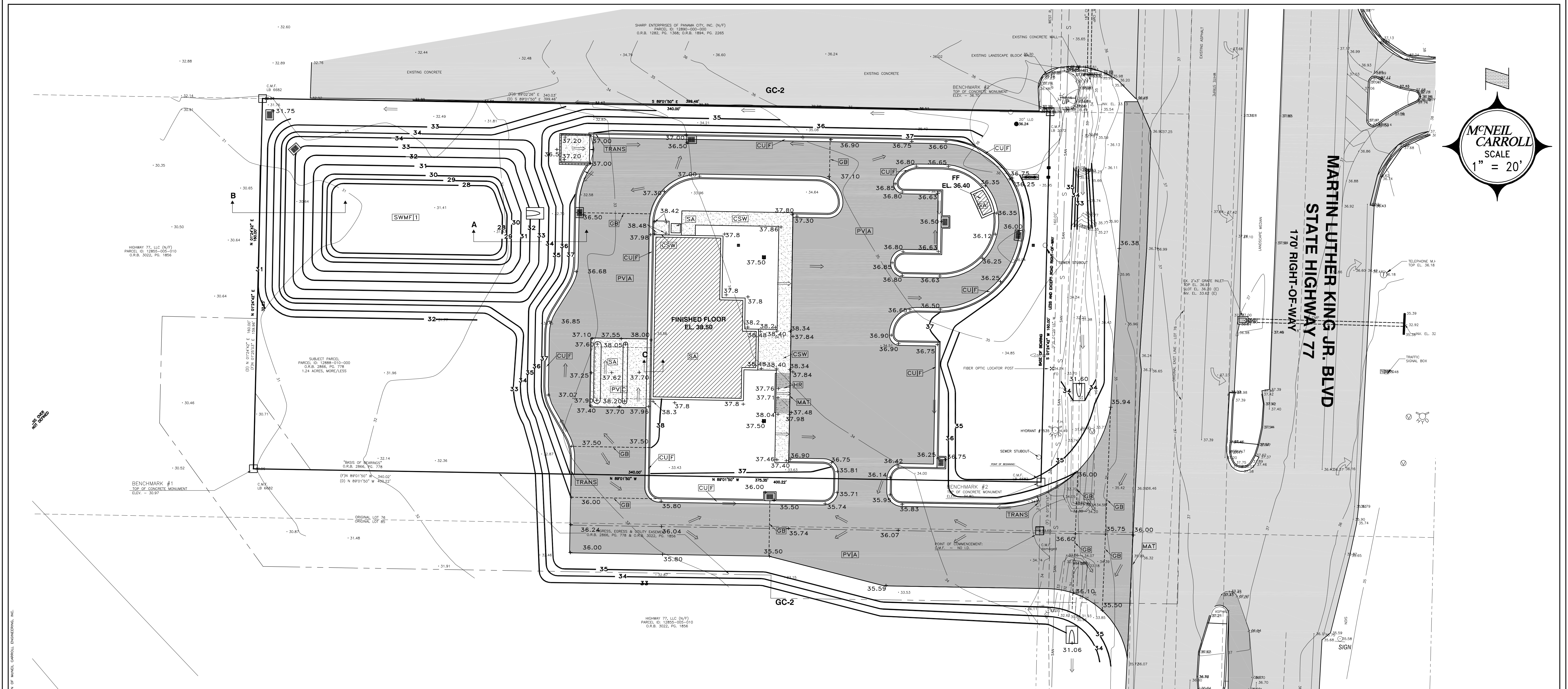
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FL LC # 57988

SHEET NUMBER

3 OF 12

85502 - CENTRAL CREDIT UNION OF FLORIDA





SITE GRADING DRAWING NOTES:

- SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
- ALL DEMOLISHED MATERIALS (i.e., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
- SEE SECTIONS IN CONSTRUCTION DETAILS.
- CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS AND ONE (1) DIGITAL COPY (AUTOCAD FORMAT) OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FOOT INDEX 105.

SYMBOL LEGEND

- 34.60 (EXISTING SPOT ELEVATION)
- 3G— (EXISTING CONTOUR)
- 12— (PROPOSED FINISHED CONTOUR)
- +12.50 (PROPOSED FINISHED GRADE)
- ⇒ (STORMWATER SURFACE FLOW)
- CSW (CONCRETE SIDEWALK— SEE CONSTRUCTION DETAILS)
- CUF (F.D.O.T. CURB 16" TYPE F — SEE CONSTRUCTION DETAILS)
- GB (PROPOSED GRADE BREAK)
- HR (5' WIDE HANDICAP RAMP 1:12:1 SLOPE)
- PVIA (ASPHALT PAVEMENT — SEE CONSTRUCTION DETAILS)
- PVIC (CONCRETE PAVEMENT — SEE CONSTRUCTION DETAILS)
- MAT (MATCH PROPOSED FLUSH WITH EXISTING SURFACE)
- NI (SEE NOTE 16.#1 — SEE NOTES THIS SHEET)
- SA (SEE ARCHITECTURAL PLANS)
- SWMF1 (SEE STORM WATER MANAGEMENT FACILITY SCHEDULE THIS SHEET)
- SK (SKIMMER — SEE CONSTRUCTION DETAILS)
- TRANS (TRANSITION CURB 3')

STORM WATER MANAGEMENT FACILITY SCHEDULE					
NO.	AREA AT PERM. POOL	TOP OF BANK ELEV.	SIDE SLOPE	PERM. POOL ELEV.	WATERSHED AREA
SWMF1	0.12 AC.	EL. 34.00	VARIES	EL. 32.00	0.93 AC.

SEE SITE LAYOUT PLAN FOR DIMENSIONS

STORMWATER OPERATION AND MAINTENANCE SCHEDULE

- (A) STORMWATER MANAGEMENT SYSTEM SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED DESIGN, PLANS AND CALCULATIONS.
- (B) THE OPERATION AND MAINTENANCE ENTITY SHALL PROVIDE FOR THE INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM IN ACCORDANCE WITH SUBSECTION 62-346.095(6), F.A.C. DURING THE INSPECTION, SPECIAL ATTENTION SHOULD BE MADE TO INSURE THAT:
- ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE.
  - THE SURFACE WATER MANAGEMENT SYSTEM IS KEPT FREE OF DEBRIS, TRASH, GARBAGE, OILS AND GREASES, AND OTHER REFUSE.
  - ENGINEERED STORMWATER MANAGEMENT SYSTEM THAT INCLUDE OIL AND GREASE SEPARATORS, SKIMMERS, OR COLLECTION DEVICES ARE WORKING PROPERLY AND DO NOT ALLOW THE DISCHARGE OF OIL OR GREASES, OILS AND GREASES OR OTHER MATERIALS REMOVED FROM SUCH A DEVICE DURING ROUTINE MAINTENANCE SHALL BE DISPOSED OF AT A SANITARY LANDFILL OR BY OTHER LAWFUL MEANS.
  - ALL STRUCTURES WITHIN STORMWATER MANAGEMENT SYSTEMS HAVE NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS TO RENDER THEM INOPERABLE.
- (C) INSPECTIONS OF THE PERMITTED SYSTEM SHOULD BE CONDUCTED AT LEAST ONCE EVERY THIRD YEAR AFTER CONVERSION OF A PERMIT TO THE OPERATION PHASE.

PERMIT PURPOSES ONLY

SITE GRADING PLAN  
CENTRAL CREDIT UNION OF FLORIDA  
STATE ROAD 77  
PANAMA CITY, FLORIDA

SCALE: SHOWN  
DESIGNED BY: JFP  
DRAWN BY: JFP  
REVIEWED BY: SDM  
ISSUE DATE: 12/11/2012  
C/D: 85502E01  
NOT RELEASED FOR CONSTRUCTION  
DATE:

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STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

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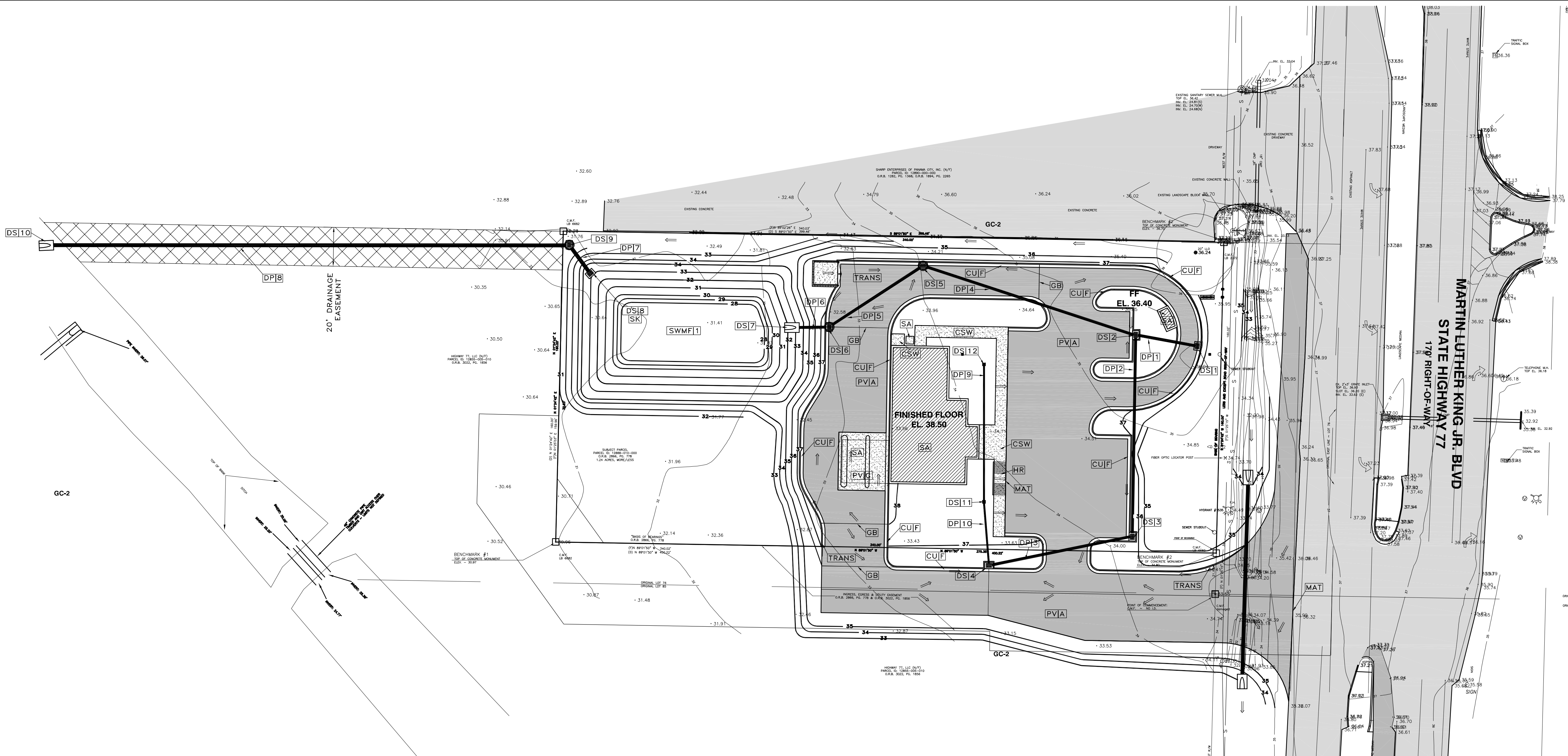
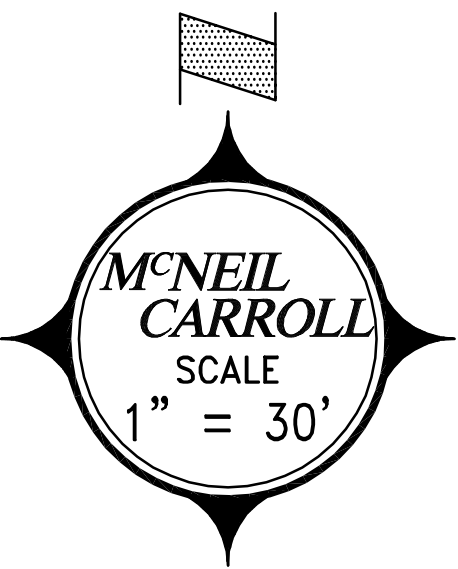
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4 OF 12

85502 — CENTRAL CREDIT UNION OF FLORIDA





SITE DRAINAGE DRAWING NOTES:

- SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
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SYMBOL LEGEND

- 34.00 (EXISTING SPOT ELEVATION)
- 36— (EXISTING CONTOUR)
- 12— (PROPOSED FINISHED CONTOUR)
- (STORMWATER SURFACE FLOW)
- [CSW] (CONCRETE SIDEWALK - SEE CONSTRUCTION DETAILS)
- [CUIF] (F.D.O.T. CURB i.e., TYPE F - SEE CONSTRUCTION DETAILS)
- [DP16] (SEE DRAINAGE PIPE SCHEDULE THIS SHEET i.e., #16)
- [DS12] (SEE DRAINAGE STRUCTURE SCHEDULE THIS SHEET i.e., #12)
- [GB] (PROPOSED GRADE BREAK)
- [HR] (5' WIDE HANDICAP RAMP i.e., 1:21.1 SLOPE)
- [PVIA] (ASPHALT PAVEMENT - SEE CONSTRUCTION DETAILS)
- [PVC] (CONCRETE PAVEMENT - SEE CONSTRUCTION DETAILS)
- [MAT] (MATCH PROPOSED FLUSH WITH EXISTING SURFACE)
- [N1] (SEE NOTE i.e., #1 - SEE NOTES THIS SHEET)
- [SA] (SEE ARCHITECTURAL PLANS)
- [SWMF1] (SEE STORM WATER MANAGEMENT FACILITY SCHEDULE THIS SHEET)
- [SK] (SKIMMER - SEE CONSTRUCTION DETAILS)
- [TRANS] (TRANSITION CURB 3')

DRAINAGE PIPE SCHEDULE				
NO.	SIZE	LF	TYPE	SLOPE
DP1	18	30	ADS	0.20%
DP2	18	101	ADS	0.20%
DP3	18	73	ADS	0.20%
DP4	18	112	ADS	0.20%
DP5	18	14	ADS	0.20%
DP6	18	14	ADS	0.20%
DP7	18	16	ADS	1.17%
DP8	18	229	ADS	1.17%
DP9	18	70	ADS	0.20%
DP10	18	32	ADS	0.20%

STORM WATER MANAGEMENT FACILITY SCHEDULE					
NO.	AREA AT PERM. POOL	TOP OF BANK ELEV.	SIDE SLOPE	PERM. POOL ELEV.	WATERSHED AREA
SWMF1	0.12 AC.	EL. 34.00	VARIABLE	EL. 32.00	0.93 AC.

SEE SITE LAYOUT PLAN FOR DIMENSIONS

ALL ADS PIPE SHALL BE AS SHOWN OR EQUAL  
ALL PERFORATED PIPE SHALL HAVE A GRAVEL PACK  
ALL ADS PIPE SHALL BE RATED N-12  
SEE CONSTRUCTION DETAILS.

DRAINAGE STRUCTURE SCHEDULE				
NO.	TYPE STRUCTURE	TOP OF GRATE	PIPE INVERT	BOTTOM INVERT
DS1	FDOT TYPE C INLET (INDEX 232)	EL. 36.00	EL. 32.50 18" OUT W	EL. 31.50
DS2	FDOT TYPE C INLET (INDEX 232)	EL. 36.50	EL. 32.44 18" IN E, 31.64 18" S, 18" OUT W	EL. 31.44
DS3	FDOT TYPE C INLET (INDEX 232)	EL. 36.25	EL. 31.85 18" IN W, OUT N	EL. 30.85
DS4	FDOT TYPE C INLET (INDEX 232)	EL. 35.50	EL. 32.00 18" OUT E, 18" IN N	EL. 31.00
DS5	48" DIA. FDOT TYPE MODIFIED C INLET (INDEX 232)	EL. 37.00	EL. 31.41 18" IN E, OUT W	EL. 30.41
DS6	48" DIA. FDOT TYPE MODIFIED C INLET (INDEX 232)	EL. 37.00	EL. 31.50 18" IN E, OUT W	EL. 30.50
DS7	18" CONCRETE MITERED END 3' TO SLOPE	EL. N/A	EL. 31.24 18" OUT	EL. 28.00
DS8	FDOT TYPE C INLET (INDEX 232)	EL. 35.25	EL. 29.00 18" OUT W	EL. 28.00
DS9	FDOT TYPE C INLET (INDEX 232)	EL. 31.75	EL. 28.81 18" IN E, OUT W	EL. 28.00
DS10	18" CONCRETE MITERED END 3' TO SLOPE	EL. N/A	EL. 28.00 18" OUT	EL. 28.00
DS11	18" ADS CATCH BASIN	EL. 37.50	EL. 35.00 18" OUT	EL. 34.00
DS12	18" ADS CATCH BASIN	EL. 37.50	EL. 34.86 18" IN N, OUT S	EL. 33.86

STORMWATER OPERATION AND MAINTENANCE SCHEDULE

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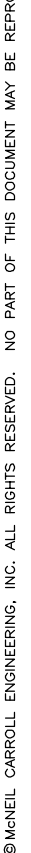
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5 OF 12

85502 - CENTRAL CREDIT UNION OF FLORIDA













SITE UTILITIES

MATERIALS: WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CRADLES OF 2500 PSI CONCRETE FULL WIDTH OF TRENCH WITH TWO NO. 4 REINFORCING BARS CONTINUOUSLY ALONG THE BOTTOM OF PIPE.

BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN TEN PERCENT (10%) BY VOLUME PASSING THROUGH A 200 MESH SIEVE.

UTILITY PIPING AND FITTINGS SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING: MANHOLES STRUCTURES SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:

REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478 OR ASHTO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS.

BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM.

CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS CONFORMING TO ASTM C-139.

IRON CASTING SHALL CONFORM TO ASTM A-48, CLASS 30, BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS, GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING, SYSTEM IDENTIFYING LETTER "2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY MAY BE PLAINLY VISIBLE. CASTING SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC., NEEHAH FOUNDRY COMPANY OR EQUAL.

CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF SITE UTILITY STRUCTURES AND PAIDS SHALL CONSIST OF THE FOLLOWING:

PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II.

FINE OR COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10% TO 100% PASSING NO. 50 SIEVE.

HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S.

WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40.

FORMS FOR CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE SUFFICIENT STRENGTH TO PREVENT DEFORMATIONS UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS PERMIT.

CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD. CONCRETE FILL BELOW GRADE FOR THRUST BLOCKS, PIPE CRADLES ETC., MAY BE 2500 PSI AT 28 DAYS.

CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% ± 1%, ADDITIVE SHALL BE USED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.

READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.

TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 PSI, AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME.

MORTAR FOR PARING SHALL CONSIST OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND.

BACKFILL SHALL BE SAME MATERIAL SPECIFIED FOR PIPE BEDDING, WHERE SERVICE OR UTILITY LINES CROSS A STREET, BEDDING SHALL BE CARRIED TO FINISH GRADE OF CURB, OR WHERE SIDEWALKS EXIST, TO THE SIDE OF THE SIDEWALK FARTHEST AWAY FROM THE STREET.

FLUSHING REQUIREMENTS FOR WATER AND SEWER FORCE MAINS

FLUSHING TIME SHALL BE AT LEAST THAT AMOUNT OF TIME NEEDED TO FLUSH TWO TIMES THE PIPE VOLUME AFTER 3 FPS VELOCITY IS REACHED OR UNTIL CLEAR, WHICHEVER IS LONGER. MAXIMUM LENGTH OF PIPE BETWEEN FLUSHING ASSEMBLIES SHALL BE 5,000 FEET.

SEWER COLLECTION SYSTEM

POLY (VINYL CHLORIDE) PIPE (PVC): PLASTIC GRAVITY SEWER PIPE AND FITTINGS SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (PVC) MEETING AND/OR EXCEEDING ASTM SPECIFICATIONS D-3034 (LATEST EDITION).

PIPE LENGTHS SHALL NOT EXCEED 20 FEET AND PROVISIONS SHALL BE MADE AT EACH JOINT TO ACCOMMODATE EXPANSION AND CONTRACTIONS.

COMPLY WITH REQUIREMENTS OF FS RR-F-621, FOR TYPE AND STYLE REQUIRED.

MATERIALS FOR SEWER FORCE MAINS: PVC PIPE FOR FORCE MAINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2241 FOR PRESSURE RATING OF 160 PSI 230 C (73 DEGREES F). PIPE JOINTS SHALL BE INTEGRAL BELL AND SPIGOT TYPE WITH RUBBER RING SEALING GASKET. THE PIPE BELL SHALL BE DESIGNED TO BE AT LEAST AS STRONG AS THE PIPE WALL. STANDARD LENGTHS SHALL BE 20 FEET, EXCEPT THAT 15% OF TOTAL FOOTAGE FOR A PARTICULAR PROJECT MAY BE RANDOM LENGTHS OF NOT LESS THAN 10 FEET EACH. EACH PIECE OF PIPE SHALL BE TESTED BY THE MANUFACTURER OF 6000 PSI FOR A MINIMUM OF 50% OF EACH. EACH SHALL BE TESTED WITH THREE (3) ALL PIPE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND BY FACTORY MUTUAL AS APPROVED FOR USE IN UNDERGROUND MUNICIPAL WATER DISTRIBUTION SYSTEMS AND PRIVATE FIRE PROTECTION SYSTEM. CAST IRON OR DUCTILE IRON FITTINGS SHALL BE USED WITH PVC PIPE.

CAST IRON FITTINGS SHALL BE MECHANICAL JOINT AND SHALL CONFORM TO ANSI SPECIFICATION A21.10 FOR SIZES 1/2 INCHES THROUGH 12 INCHES AND SHALL BE CLASS 250. FITTINGS 14 INCHES AND LARGER SHALL BE CLASS 150 AND SHALL BE OF THE DIMENSIONS AND METAL THICKNESSES AS SHOWN IN THE HANDBOOK OF CAST IRON PIPE AS PUBLISHED BY THE CAST IRON PIPE RESEARCH ASSOCIATION. CAST IRON FITTINGS MAY BE USED IN DUCTILE IRON OR CAST IRON LINES, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

DUCTILE IRON FITTINGS SHALL BE DESIGNED FOR PRESSURE RATING OF 250 PSI AND SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.10. FITTING SHALL BE MECHANICAL JOINT. DUCTILE IRON FITTING SHALL BE USED IN DUCTILE IRON OR CAST IRON LINES, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

THE INTERIOR AND EXTERIOR OF ALL CAST IRON AND DUCTILE IRON FITTINGS SHALL BE COATED WITH AN APPROVED BITUMINOUS COATING. AT THE CONTRACTOR'S OPTION, THE INTERIOR OF THE PIPE MAY BE CEMENT LINED IN ACCORDANCE WITH ANSI A21.4 IN LIEU OF BITUMINOUS COATING.

MATERIALS FOR CONCRETE MANHOLES: PRECAST OF CAST-IN-PLACE, AT CONTRACTOR'S OPTION. USE CONCRETE WHICH WILL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

INSPECTIONS AND TESTS: IT IS IMPERATIVE THAT ALL SEWERS AND MANHOLES BE BUILT PRACTICALLY WATER TIGHT AND THAT THE CONTRACTOR MUST ADHERE RIGIDLY TO THE SPECIFICATIONS AND WORKMANSHIP.

THE ALLOWABLE LIMIT OF GROUNDWATER INFILTRATION FOR THE GRAVITY SYSTEM OF NEW SEWERS OR ANY ONE TRUNK, OR INTERCEPTOR, SHALL BE IN COMPLETE ACCORDANCE WITH ASTM 425-71T AND SHALL NOT EXCEED A LIMIT OF INFILTRATION EQUAL TO 0.2 GAL/INCH DIAMETER/HOUR/100 LINEAR FEET OF PIPE.

THE TEST WILL BE MADE BY MEASURING THE INFILTRATED FLOW OF WATER OVER A MEASURING WEIR SET UP IN THE INVERT OF THE SEWER, OR BY ALTERNATE METHOD APPROVED BY THE ENGINEER. A KNOWN DURATION FROM A TEMPORARY BULKHEAD OR OTHER LIMITING POINT OF INFILTRATION. AFTER THE SEWER OF SEWERS HAVE BEEN PUMPED OUT, AND NORMAL INFILTRATION CONDITIONS PREVAIL, TESTS SHALL BE STARTED.

TESTS SHALL BE RUN CONTINUOUSLY FOR A PERIOD OF NOT LESS THAN THREE HOURS, WITH WEIR READINGS TAKEN AT 20 MINUTE INTERVALS.

THE CONTRACTOR MAY TEST THE SYSTEM WITH JOINTS EXPOSED OR BACKFILLING COMPLETE AT HIS OPTION, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL WATER USED. CARE SHALL BE USED TO PREVENT BACKFLOW OF TEST WATER INTO POTABLE WATER SOURCE. POTABLE WATER SOURCE SHALL BE DISCONNECTED PRIOR TO PRESSURIZING TEST LINE. WATER USED DURING TEST SHALL BE TAKEN FROM A CONTAINER, NOT DIRECTLY FROM THE EXISTING WATER SYSTEM.

AT LEAST 24 HOURS PRIOR TO THE START OF THE PRESSURE AND LEAKAGE TEST, PRESSURE SHALL BE RAISED TO 150 PSIG AND HELD TO ALLOW ANY "SOIL CREEP" OR OTHER STRESS RELAXATION TO OCCUR. IF ANY PRESSURE REDUCTION OCCURS DURING THE 24 HOUR "SHAKEDOWN" PERIOD, REESTABLISH THE REQUIRED HYDROSTATIC TEST PRESSURE, THEN PROCEED WITH THE LEAKAGE TEST.

THE PRESSURE REQUIRED FOR THE FIELD HYDROSTATIC PRESSURE TEST SHALL BE 150 PSI. THE CONTRACTOR SHALL PROVIDE TEMPORARY PLUGS AND BLOCKING NECESSARY TO MAINTAIN THE REQUIRED TEST PRESSURE. CORPORATION COCKS AT LEAST 3/4 INCHES IN DIAMETER AND GLOBE VALVES AND GLOBE VALVES SHALL BE PROVIDED AT EACH END AND HIGH POINTS IN ORDER TO BLEED AIR FROM THE LINE. DURATION OF PRESSURE TEST SHALL BE AT LEAST TWO HOURS. ALL LEAKS EVIDENT AT THE SURFACE SHALL BE REPAIRED AND LEAKAGE ELIMINATED REGARDLESS OF TOTAL LEAKAGE AS SHOWN BY TEST. LINES WHICH FAIL TO MEET TESTS SHALL BE REPAIRED AND RETESTED AS NECESSARY UNTIL TEST REQUIREMENTS ARE COMPLIED WITH. DEFECTIVE MATERIALS, PIPES, VALVES AND ACCESSORIES SHALL BE REMOVED AND REPLACED. THE PIPE LINES SHALL BE TESTED IN SUCH SECTION AS MAY BE DIRECTED BY THE ENGINEER BY SHUTTING VALVES OR INSTALLING TEMPORARY PLUGS REQUIRED. THE LINE SHALL BE FILLED WITH WATER, ALL AIR REMOVED, AND TEST PRESSURE SHALL BE MAINTAINED IN THE PIPE FOR THE ENTIRE TEST PERIOD BY MEANS OF A GASOLINE OR ELECTRIC DRIVEN TEST PUMP TO BE FURNISHED BY THE CONTRACTOR. ACCURATE MEANS SHALL BE PROVIDED FOR MEASURING THE WATER REQUIRED TO MAINTAIN THIS PRESSURE. THE AMOUNT OF WATER REQUIRED IS A MEASURE OF THE LEAKAGE.

NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL THE LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 2.2 GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER. THE FOLLOWING TABULATES THE ALLOWABLE LEAKAGE:

ALLOWABLE LEAKAGE PER 1000 FT OF PIPELINE (IN GALLONS)

DURATION OF TEST	-2-	-3-	-4-	-6-	-8-	-10-	-12-	-14-
1 HOUR	0.18	0.28	0.37	0.55	0.74	0.92	1.10	1.29
2 HOURS	0.08	0.07	0.05	0.04	0.03	0.02	0.01	0.01

WHERE ANY SECTION OF A MAIN IS PROVIDED WITH CONCRETE REACTION BACKING THE HYDROSTATIC PRESSURE TEST SHALL NOT BE MADE UNTIL AT LEAST FIVE (5) DAYS HAVE ELAPSED AFTER THE CONCRETE REACTION BACKING IS INSTALLED. HIGH EARLY-STRENGTH CEMENT IS USED IN THE CONCRETE REACTION BACKING, THE HYDROSTATIC PRESSURE TEST SHALL NOT BE MADE UNTIL AT LEAST THREE (3) DAYS HAVE ELAPSED.

LEAKAGE TESTS FOR GRAVITY SEWER

LINES SHALL BE TESTED FOR LEAKAGE BY LOW PRESSURE AIR TESTING, LOW PRESSURE AIR TESTING FOR CONCRETE PIPES SHALL BE AS PRESCRIBED IN ASTM C 828. LOW PRESSURE AIR TESTING FOR PVC PIPE SHALL BE AS PRESCRIBED IN ASTM F1417. AND PRESSURE DROP LIMITS SHALL BE DETERMINED BY USING ASTM F1417. AS SHOWN BELOW. LOW PRESSURE AIR TESTING PROCEDURES FOR OTHER PIPE MATERIALS SHALL USE THE PRESSURES AND TESTING TIMES PRESCRIBED IN ASTM C 828 AND ASTM C 924, AFTER CONSULTATION WITH THE PIPE MANUFACTURER. VISIBLE LEAKS ENCOUNTERED SHALL BE CORRECTED REGARDLESS OF LEAKAGE TEST RESULTS. WHEN LEAKAGE EXCEEDS THE MAXIMUM AMOUNT SPECIFIED, SATISFACTORY CORRECTION SHALL BE MADE AND RETESTING ACCOMPLISHED. TESTING, CORRECTION, AND RETESTING SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

ASTM F1417 TABLE 1  
MINIMUM SPECIFIED TIME REQUIRED FOR 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q=0.0015  
1. SEE PRACTICE UNI-B-6-90.  
2. CONSULT WITH PIPE AND APPURTENANCE MANUFACTURER FOR MAXIMUM TEST PRESSURE FOR PIPE SIZE GREATER THAN JOIN DIA.

PIPE DIAMETER IN.	MINIMUM TIME IN. MIN.	LENGTH MINIMUM TIME, FT.	TIME FOR LONGER LENGTHS, MIN.	100FT	150FT	200FT	250FT	300FT	350FT	400FT	450FT
4	3:46	597	0.380L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0.854L	5:40	5:40	5:40	5:40	5:40	5:40	5:40	5:40
8	7:34	298	1.520L	7:34	7:34	7:34	7:34	7:34	7:34	7:34	7:34
10	9:28	239	2.374L	9:28	9:28	9:28	9:28	9:28	9:28	9:28	9:28
12	11:20	199	3.418L	11:20	11:20	11:20	11:20	11:20	11:20	11:20	11:20
15	14:10	159	5.342L	14:10	14:10	14:10	14:10	14:10	14:10	14:10	14:10
18	17:00	133	7.692L	17:00	17:00	17:00	17:00	17:00	17:00	17:00	17:00
21	19:50	114	10.470L	19:50	19:50	19:50	19:50	19:50	19:50	19:50	19:50
24	22:40	99	13.674L	22:40	22:40	22:40	22:40	22:40	22:40	22:40	22:40
27	25:30	88	17.368L	25:30	25:30	25:30	25:30	25:30	25:30	25:30	25:30
30	28:20	80	21.366L	28:20	28:20	28:20	28:20	28:20	28:20	28:20	28:20
33	31:10	72	25.852L	31:10	31:10	31:10	31:10	31:10	31:10	31:10	31:10
36	34:00	66	30.768L	34:00	34:00	34:00	34:00	34:00	34:00	34:00	34:00

DRAINAGE AS-BUILT DRAWINGS AND INFORMATION CHECKLIST

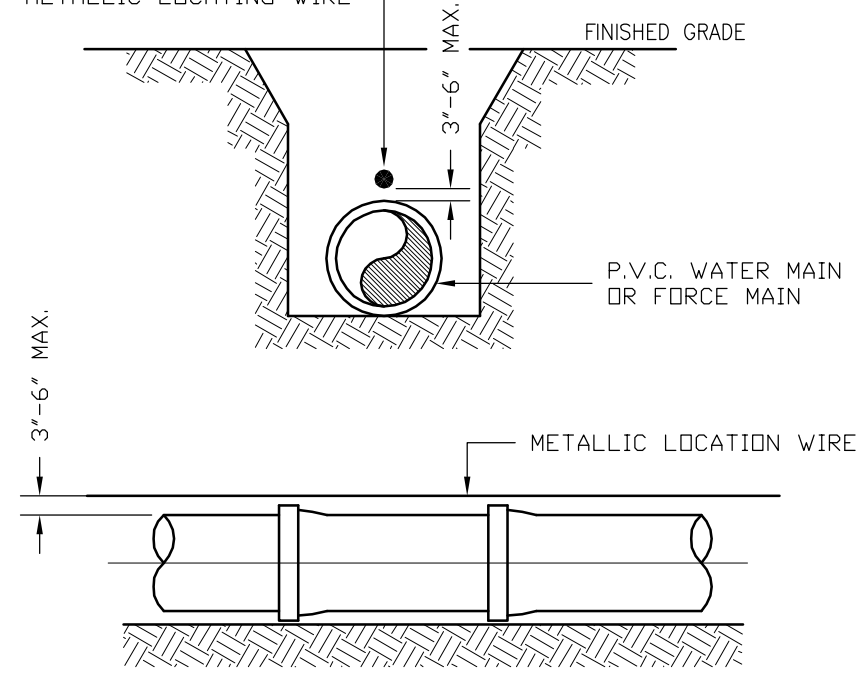
FOLLOWING IS A LIST OF INFORMATION THAT IS TO BE VERIFIED AND SUBMITTED BY THE REGISTERED PROFESSIONAL IN SUPPORT OF THE "AS-BUILT CERTIFICATION."

1. AS-BUILT DRAWINGS ARE TO BE BASED ON THE CONSTRUCTION DRAWINGS PERMITTED BY THE DEPARTMENT OF NFWMD, AND REVISED AS NECESSARY TO REFLECT ANY CHANGES MADE DURING CONSTRUCTION. BOTH THE ORIGINAL DESIGN AND CONSTRUCTED CONDITION MUST BE CLEARLY SHOWN. THE PLANS NEED TO BE CLEARLY LABELED AS "AS-BUILT" OR "RECORD" DRAWINGS. ALL SURVEYED DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED AND SIGNED, DATED, AND SEALED BY A REGISTERED PROFESSIONAL. THE FOLLOWING INFORMATION, AT A MINIMUM, SHALL BE VERIFIED ON THE AS-BUILT DRAWINGS, AND SUPPLEMENTAL DOCUMENTS, IF NEEDED:

A.DISCHARGE STRUCTURES -- LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL, INCLUDING WEIRS, ORIFICES, GATES, PUMPS, PIPES, AND OIL AND GREASE SKIMMERS;  
B.SIDE BANK AND UNDERDRAIN FILTERS, OR EXFILTRATION TRENCHES -- LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL, INCLUDING CLEAN-OUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES AND POINTS OF DISCHARGE TO RECEIVING WATERS;  
C.STORAGE AREAS FOR TREATMENT AND ATTENUATION -- DIMENSIONS, ELEVATIONS, CONTOURS OR CROSS-SECTIONS TO DETERMINE CONTRIBUTING DRAINAGE AREAS, FLOW DIRECTIONS, AND RELATIONSHIPS OF THE STORAGE AREA AND THE PERMANENT POOL DEPTH AND VOLUME BELOW THE CONTROL ELEVATION FOR NORMALLY WET SYSTEMS;  
D.SYSTEM GRADING -- DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES OR CROSS-SECTIONS TO DETERMINE CONTRIBUTING DRAINAGE AREAS, FLOW DIRECTIONS, AND CONVEYANCE OF RUNOFF TO THE SYSTEM DISCHARGE POINT(S);  
E.CONVEYANCE -- DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES OR CROSS SECTIONS OF SYSTEMS UTILIZED TO DIVERT OFF-SITE RUNOFF AROUND OR THROUGH THE NEW SYSTEM;  
F.WATER LEVELS -- EXISTING WATER ELEVATIONS(S) AND THE DATE DETERMINED;  
G.BENCHMARK(S) -- LOCATION AND DESCRIPTION (MINIMUM OF ONE PER MAJOR WATER CONTROL STRUCTURE).

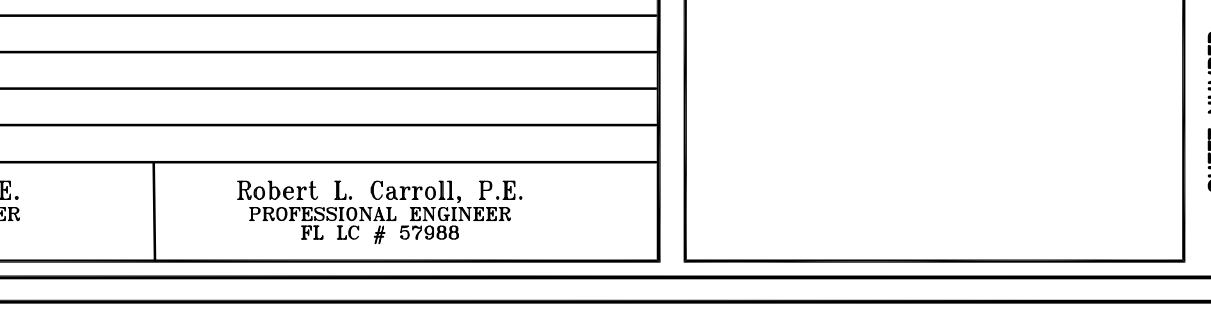
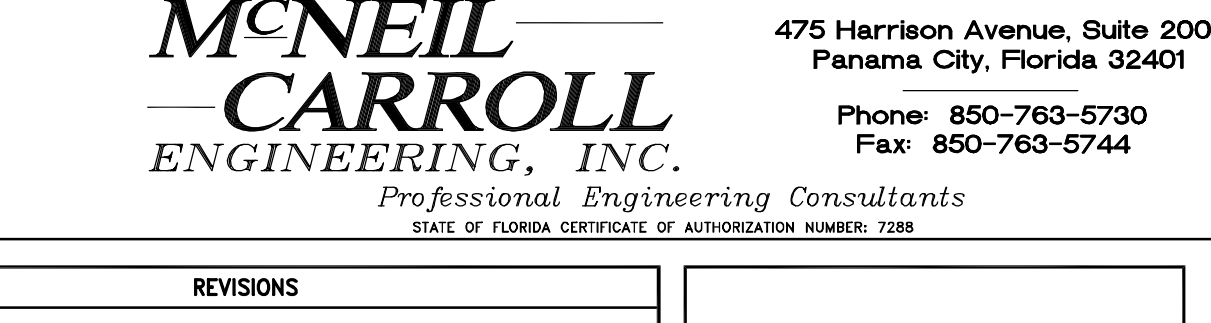
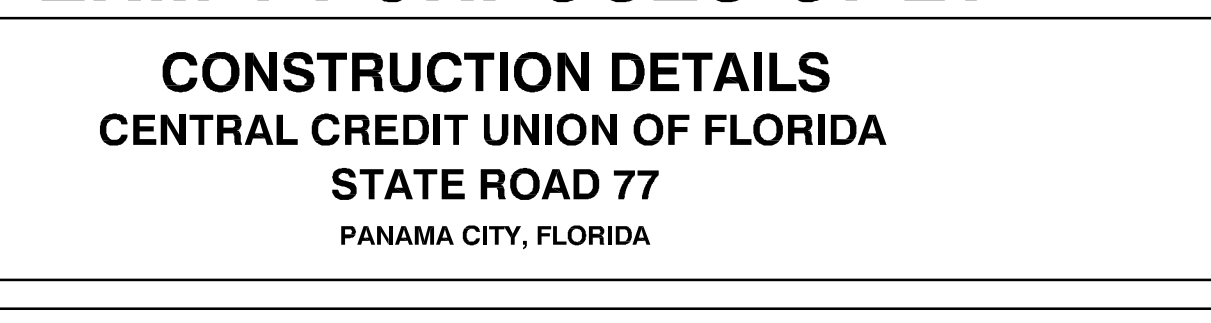
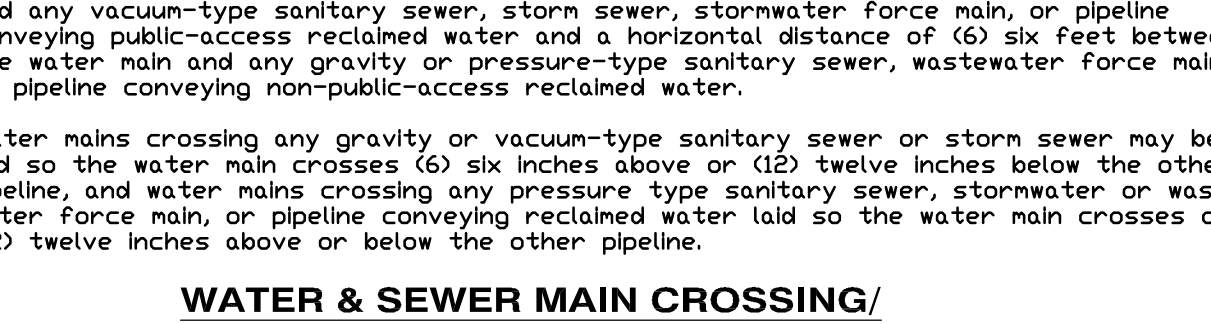
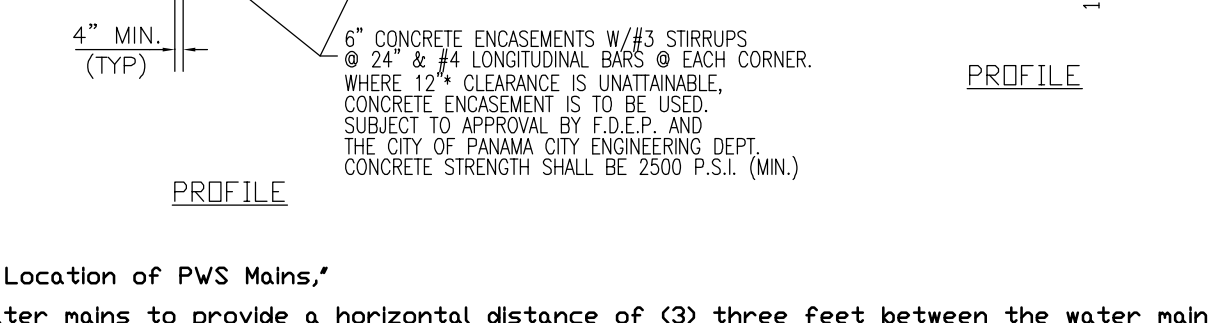
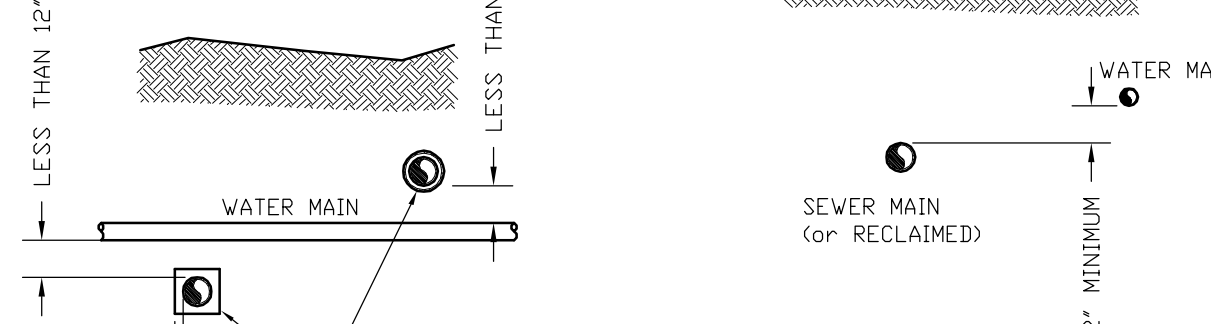
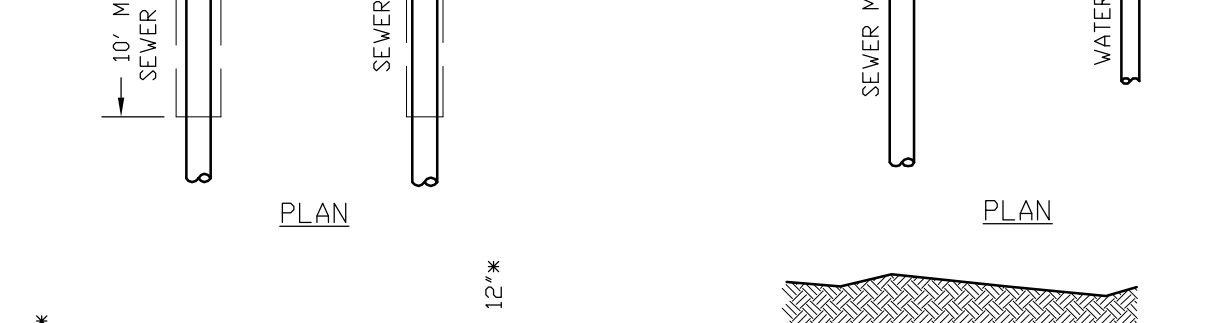
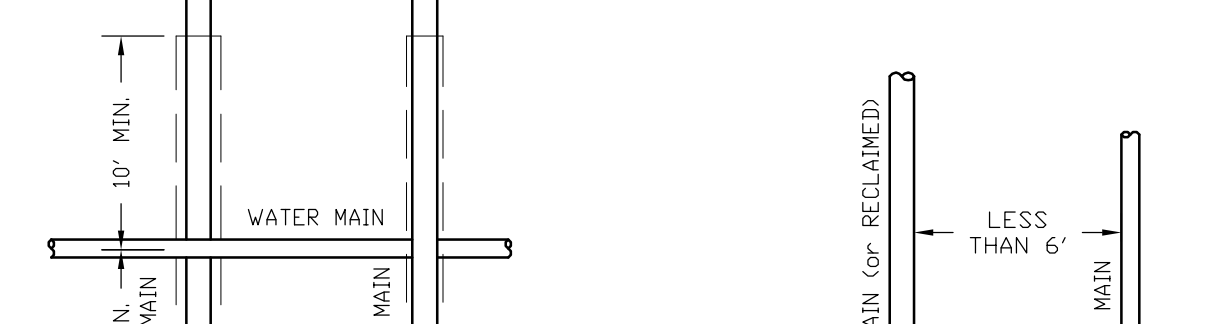
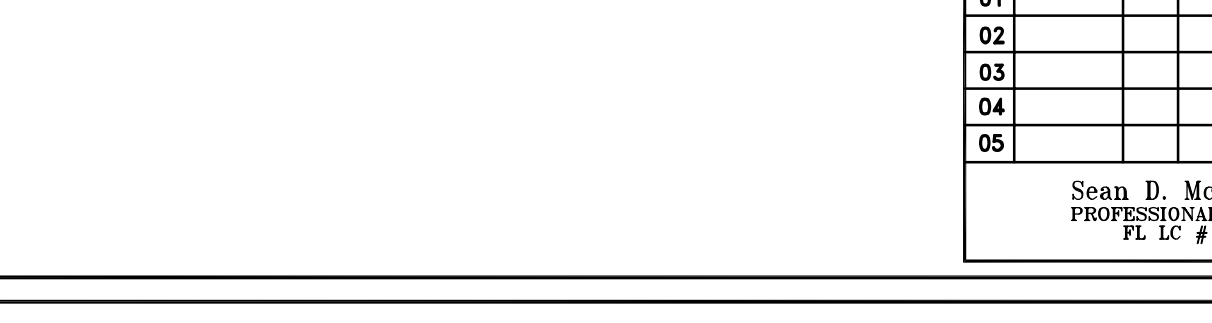
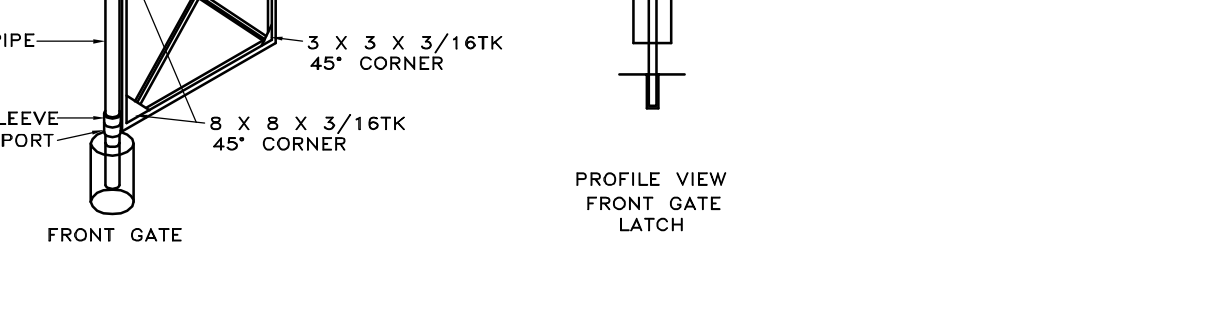
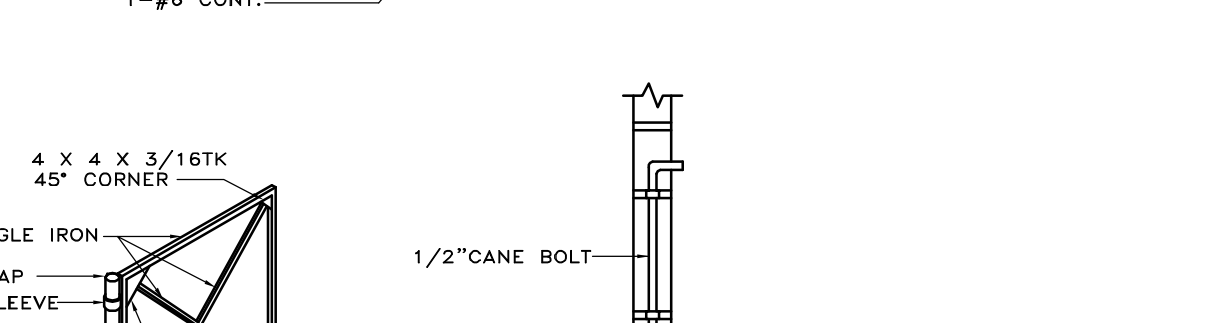
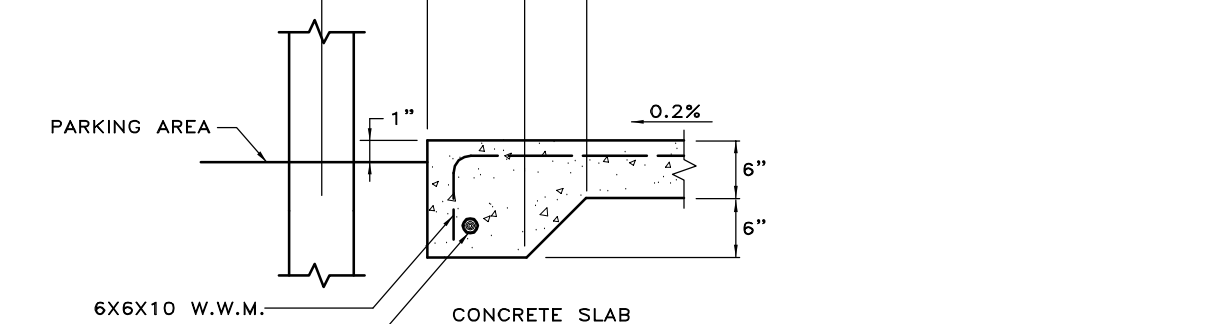
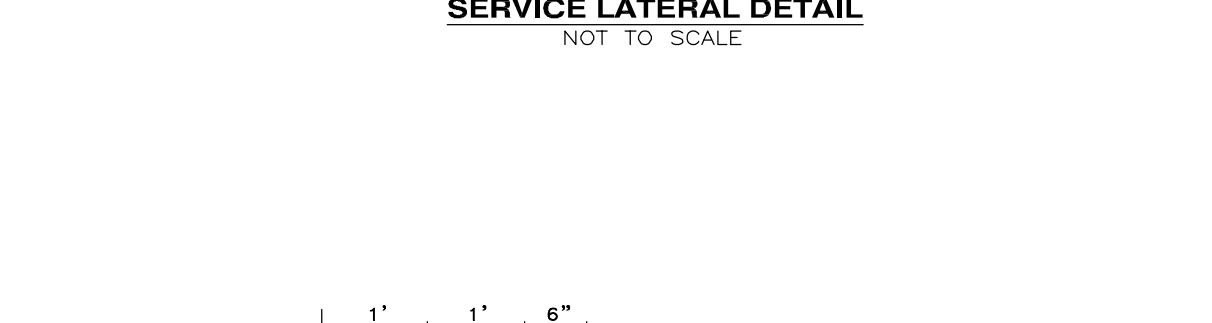
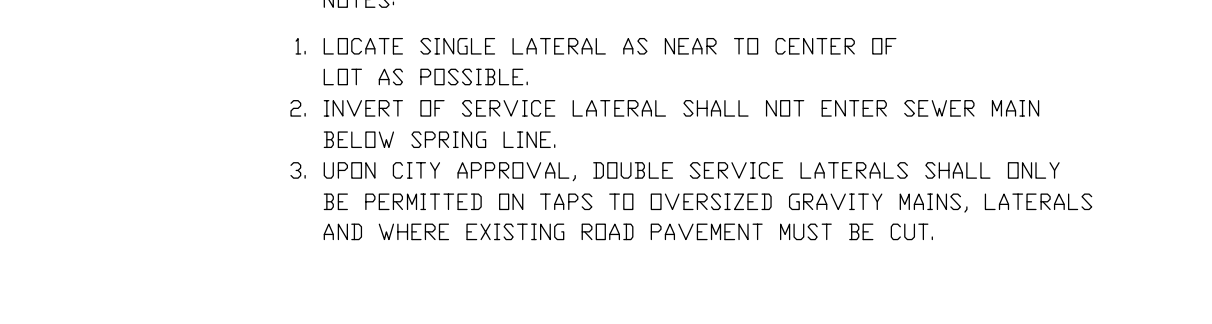
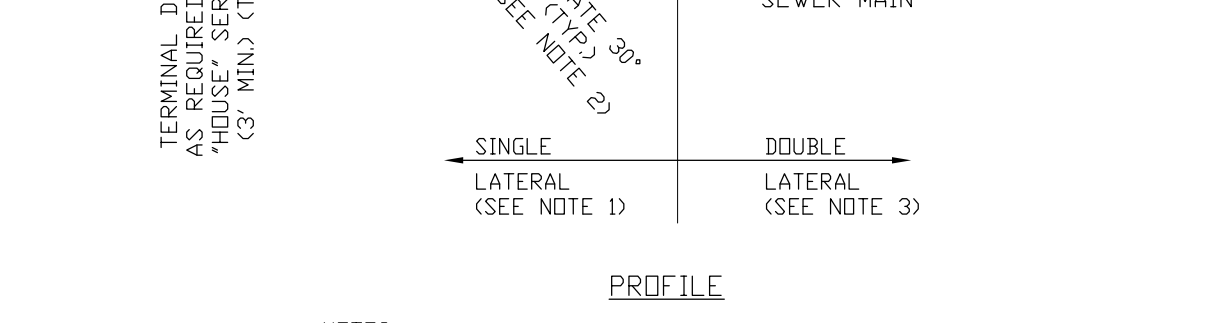
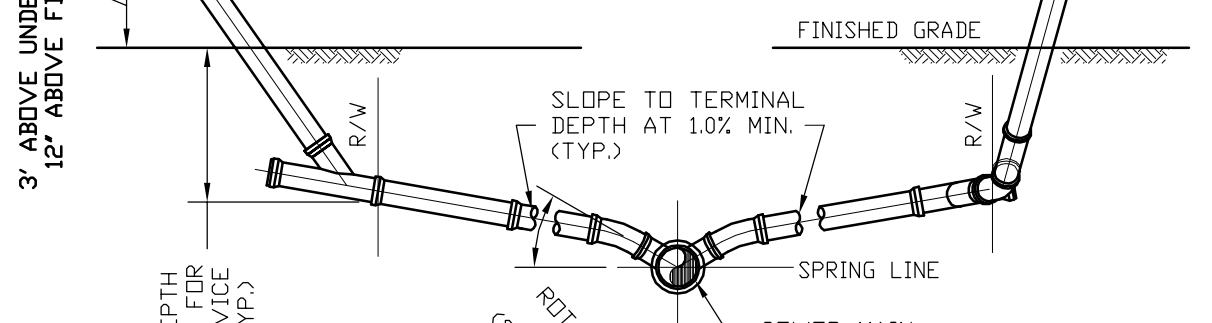
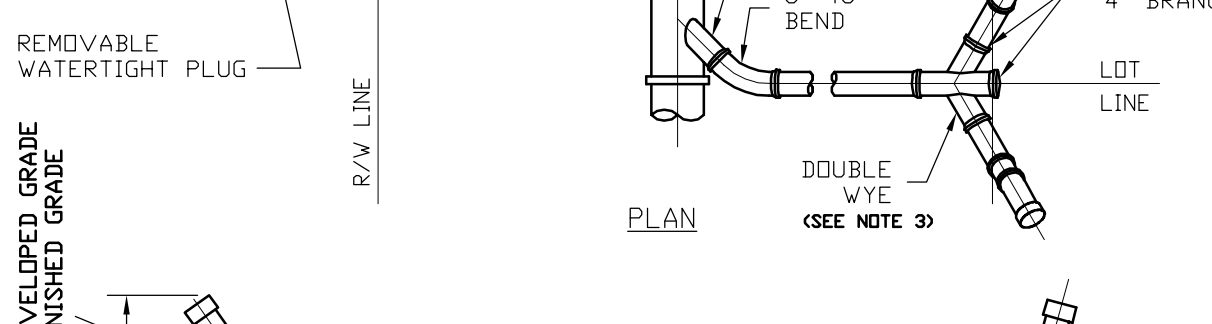
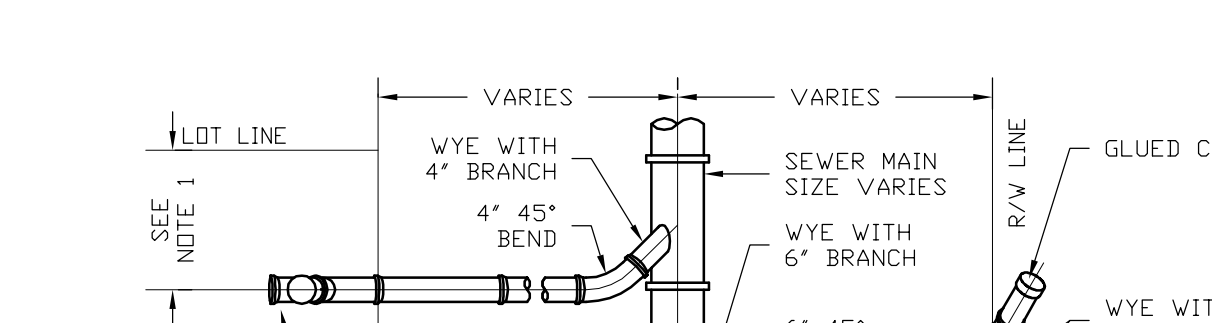
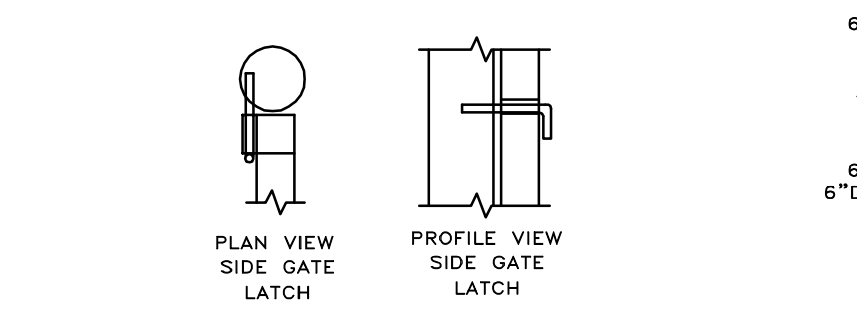
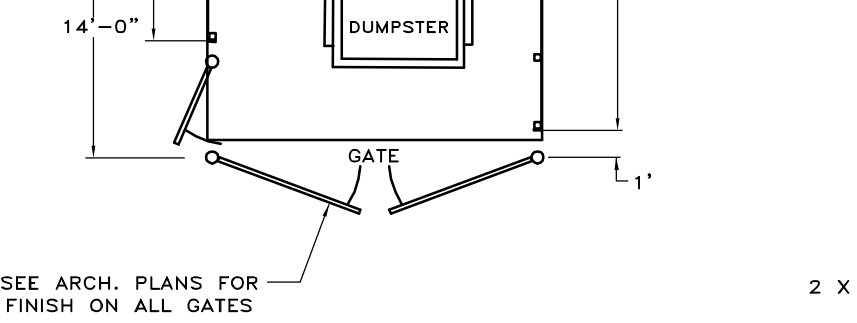
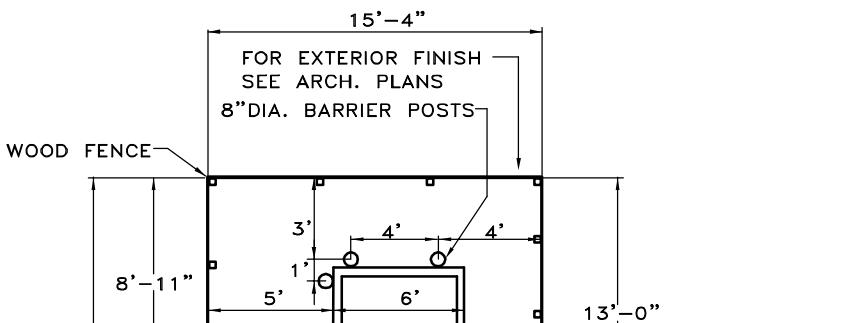
2. SUBMIT THE FINAL SUBDIVISION PLAT OR OTHER LEGAL DOCUMENTS, AS RECORDED IN THE COUNTY PUBLIC RECORDS, SHOWING DEDICATED RIGHTS-OF-WAY, EASEMENT LOCATIONS, AND SPECIAL USE AREAS THAT ARE RESERVED FOR WATER MANAGEMENT PURPOSES AND CONTINUING OPERATION AND MAINTENANCE.

3. ADDITIONAL INFORMATION WILL BE SHOWN ON THE AS-BUILT DRAWINGS OTHERWISE PROVIDED AS NEEDED TO SUPPORT THE AS-BUILT CERTIFICATION (EXAMPLE: HOMEOWNER'S ASSOCIATION FINAL DOCUMENTS AND OTHER ITEMS REQUIRED BY PERMIT CONDITIONS).



- NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
  2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 24\"/>
  3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

PVC PIPE LOCATING WIRE DETAIL



PERMIT PURPOSES ONLY

**CONSTRUCTION DETAILS**  
**CENTRAL CREDIT UNION OF FLORIDA**  
**STATE ROAD 77**  
**PANAMA CITY, FLORIDA**

SCALE: SHOWN  
DESIGNED BY: JFP  
DRAWN BY: JFP  
REVIEWED BY: SDM  
ISSUE DATE: 12/11/2012  
C/F/D: 85502E02  
NOT RELEASED FOR CONSTRUCTION DATE

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401  
Phone: 850-763-5730  
Fax: 850-763-5744

**McNEIL CARROLL**  
**ENGINEERING, INC.**  
*Professional Engineering Consultants*  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

Sean D. McNeil, P.E.  
PROFESSIONAL ENGINEER  
FL LIC # 49303

Robert L. Carroll, P.E.  
PROFESSIONAL ENGINEER  
FL LIC # 57888

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

SHEET NUMBER  
**9 OF 12**

WATER DISTRIBUTION SYSTEM

PRODUCTS: PROVIDE ELBS, TEES, REDUCING TEES, WYES, COUPLINGS, AND OTHER REQUIRED PIPING ACCESSORIES OF SAME TYPE AND CLASS OF MATERIALS AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO THE ENGINEER.

UNPLASTICIZED POLYVINYL CHLORIDE (PVC PIPE SHALL HAVE AN INTEGRATED BELL-TYPE JOINT DESIGNED FOR CONVEYING POTABLE WATER UNDER PRESSURE.

RING-TYPE NEOPRENE GASKETS SHALL BE PROVIDED IN RECESSED IN THE BELLS TO MAKE JOINTS WATER TIGHT. ALL PIPES SHALL BE SUITABLE FOR USE AT MAXIMUM HYDROSTATIC PRESSURES OF 200 PSI AT 75 DEGREES F AND MEETING AND/OR EXCEEDING THE MINIMUM REQUIREMENTS OF AWWA C-900-07 MADE TO (4"-8" DR18, 10" AND GREATER DR25) DIMENSIONS. MAXIMUM LAYING LENGTHS SHALL BE 40 FEET WITH MANUFACTURER'S OPTION TO SUPPLY UP TO 15 PERCENT RANDOMS (MINIMUM LENGTH EQUALS 10 FT.). ALL FITTINGS SHALL BE CAST IRON WITH MECHANICAL.

PIPE FITTINGS SHALL BE ASSEMBLED WITH A NON-TOXIC LUBRICANT AS RECOMMENDED BY THE MANUFACTURER. PVC PIPE SHALL BE AS MANUFACTURED BY THE U.S. PIPE COMPANY, THE CERTAIN-TEED PRODUCTS CORPORATION, THE JOHNS-MANSVILLE COMPANY, THE ETHYL CORPORATION, OR APPROVED EQUAL.

PROVIDE VALVES AND FLOW CONTROL DEVICES AS INDICATED:

MINIMUM WORK PRESSURE, 160 PSI, UNLESS OTHERWISE INDICATED.

GATE VALVES: STANDARD SHUT-OFF VALVES WITH MAXIMUM WORK PRESSURE CAST INTO BODY, OUTSIDE-SCREW-AND-YOKE TYPE COMPLYING WITH AWWA C-500. ALL VALVES SHALL BE COUNTERCLOCKWISE.

FOUR-INCHES AND OVER: SHALL BE CAST-IRON BODY, FULLY BRONZE MOUNTED DOUBLE-DISC, PARALLEL SEAL VALVES WIDE FLANGE OR SPIGOT END DEPENDING ON INSTALLATION. FLANGED GATE VALVES SHALL BE PROVIDED WITH 125 POUND AMERICAN STANDARD FLANGES.

ALL VALVES TO BE INSTALLED ABOVE THE GROUND SHALL BE FITTED WITH WHEEL-TYPE HAND OPERATORS. ALL VALVES TO BE SET BELOW GRADE SHALL BE FITTED WITH HUB-TYPE OPERATORS AND SHALL HAVE A CAT-IRON VALVE BOX INSTALLED CONCENTRICALLY OVER THE VALVE.

UNDER FOUR-INCHES: GATE VALVES UNDER FOUR-INCHES SHALL BE IRON OR BRONZE BODY, SOLID WEDGE VALVES EQUIPPED WITH OPERATING HAND WHEELS.

ALL ECCENTRIC VALVES 10-INCHES OR LARGER SHALL BE GEAR OPERATED WITH HAND WHEELS FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES.

ALL ECCENTRIC VALVES 8-INCHES AND SMALLER SHALL BE LEVEL OPERATED FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES.

ALL HUB OPERATED UNITS SHALL BE PROVIDED A CAST-IRON VALVES BOX AND COVER.

CHECK VALVES: THE CHECK VALVES OVER THREE INCHES SHALL BE IRON BODY, BRONZE MOUNTED, HORIZONTAL SWING CHECK WITH FLANGED ENDS. ALL WORK PARTS SHALL BE RING LOCATED TO PREVENT SLAMMING. THE CHECK VALVES SHALL BE CLOW F-2955, OR APPROVED EQUAL.

CHECK VALVES UNDER THREE INCHES SHALL BE SCREWED END, BRONZE BODY, SILENT CHECK VALVES AS MANUFACTURED BY CRANE COMPANY, NO. 34 OR APPROVED EQUAL.

PROVIDE ANCHORAGES FOR TEE, PLUGS, CAPS, AND BENDS.

AFTER INSTALLATION, APPLY A FULL COAT OF ASPHALT OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL TO SURFACES OF RODS AND CLAMPS.

CLAMPS, STRAPS AND WASHERS: STEEL ANSI/ASTM A-506

RODS: STEEL, ANSI/ASTM A-575

ROD COUPLINGS: MALLEABLE IRON, ANSI/ASTM A-197

BOLTS: STEEL, ANSI/ASTM A-307

CAST IRON WASHERS: ANSI/ASTM A-126, CLASS A

WATER SERVICE IDENTIFICATIONS: PLASTIC LINE MARKS, NOMENCLATURE "CAUTION, BURIED WATER LINE BELOW"

FLEXIBLE COUPLINGS: STEEL MIDDLE RING, TWO STEEL FOLLOWER RINGS, TWO RESILIANT GASKETS AND STEEL BOLTS. DRESSER TYPE 38 OR APPROVED EQUAL.

INSPECTION AND HYDROSTATIC TESTING: AFTER THE PIPE HAS BEEN LAID AND BACKFILLED AS SPECIFIED EACH VALVED SECTION OF NEWLY LAID PIPE SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE OF 150 PSI.

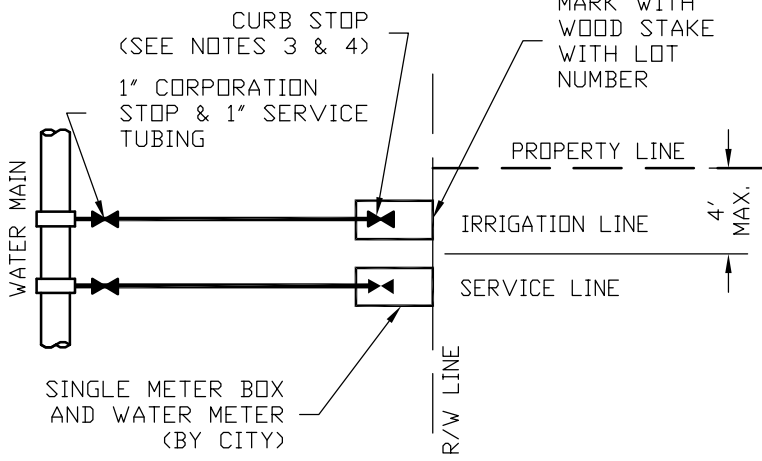
THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST TWO HOURS OR UNTIL THE LINE HAS BEEN COMPLETELY INSPECTED FOR VISIBLE LEAKS.

PERMISSIBLE LEAKAGE: NO PIPE INSTALLATION WILL BE ACCEPTABLE UNTIL OR UNLESS THIS LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 4 U.S. GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER IN ACCORDANCE WITH AWWA C600.

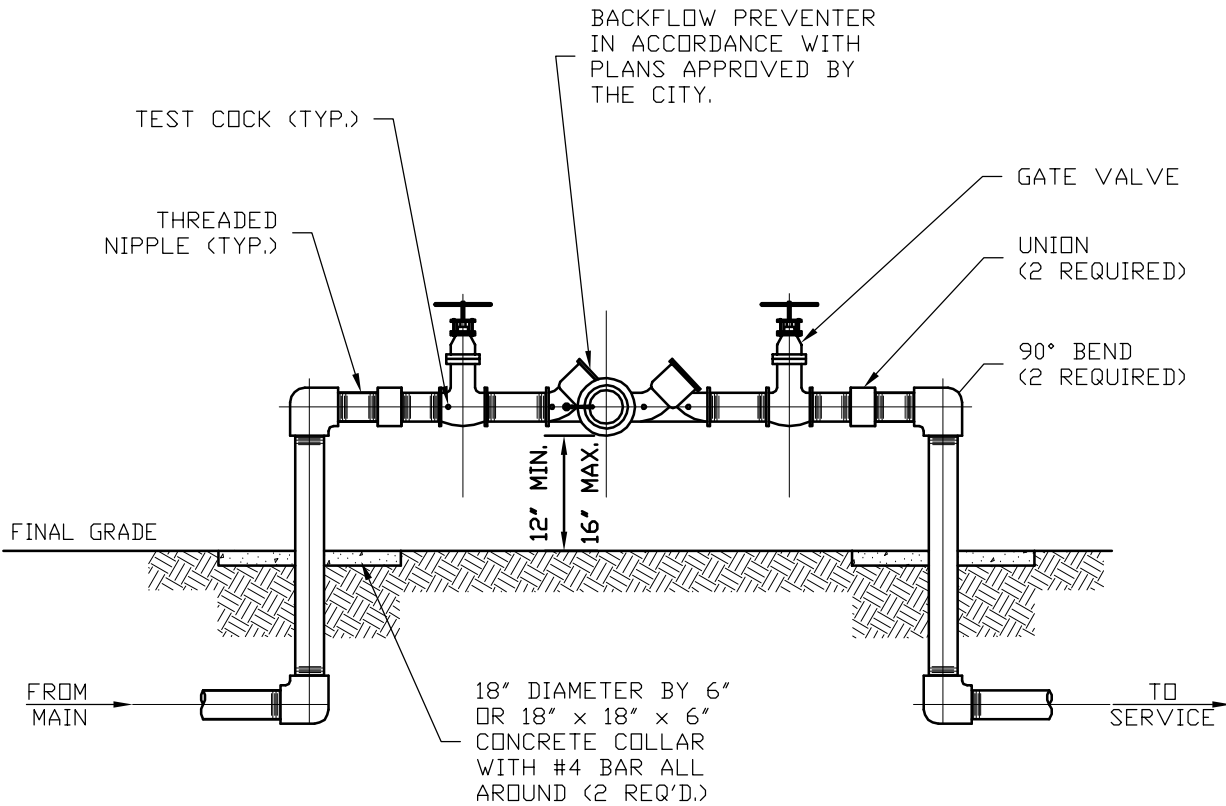
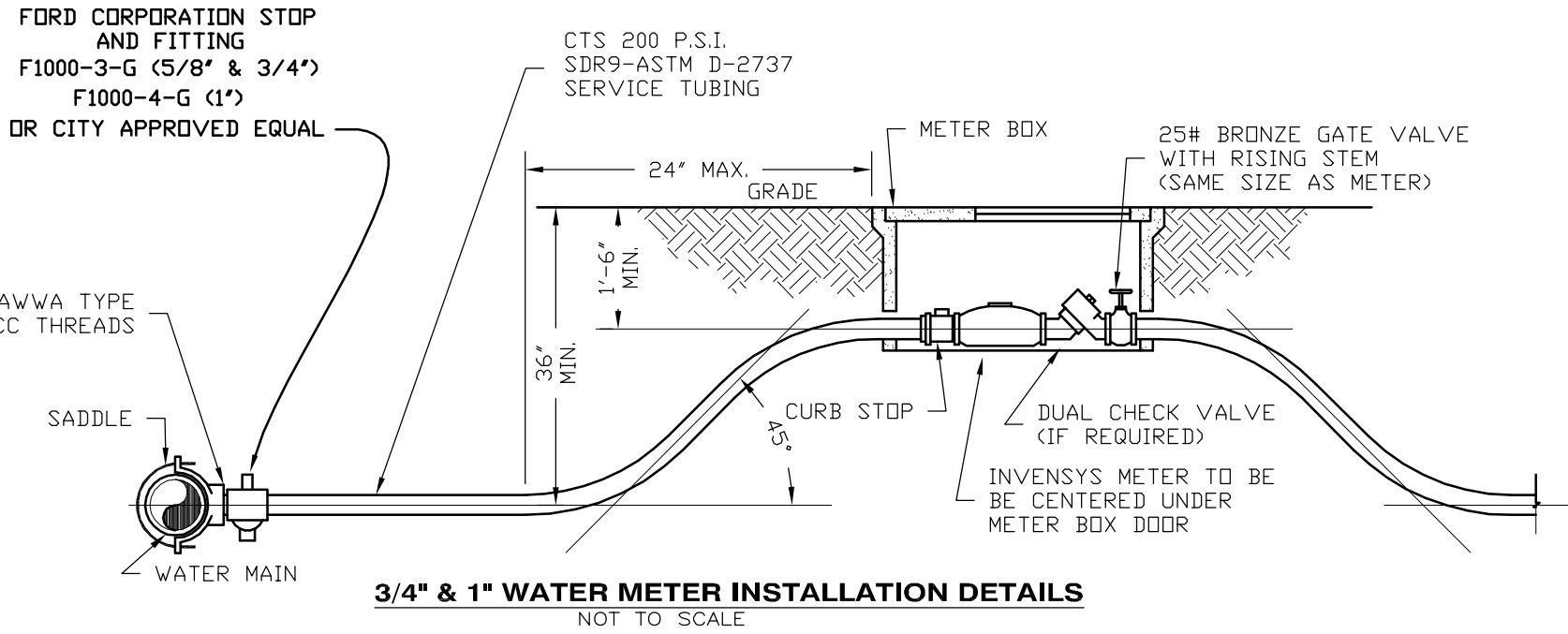
DISINFECTION SHALL BE AFTER THE DISTRIBUTION SYSTEM HAS BEEN TESTED TO THE SATISFACTION OF THE ENGINEER AND SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATION C-651 WHICH PROVIDES FOR THE INJECTION OF A 50 PPM SOLUTION OF CHLORINE REMAINING FOR 24 HOURS.

IN THE PROCESS OF CHLORINATING WATER PIPE, ALL VALVES OR OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPE LINE IS FILLED WITH CHLORINATING AGENT.

WATER VALVES 12" AND LESS SHALL BE EPOXY COATED RESILIENT SEAT GATE VALVE.



TYPICAL CITY SERVICE (PER LOT)



- NOTES:
1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.
  2. PROVIDE PROTECTION AGAINST FREEZING.
  3. TWO PIPE SUPPORTS REQUIRED.
  4. ALL ITEMS ABOVE GRADE SHALL HAVE TWO COATS OF APPROVED RUST RESISTANT BLUE ENAMEL PAINT.

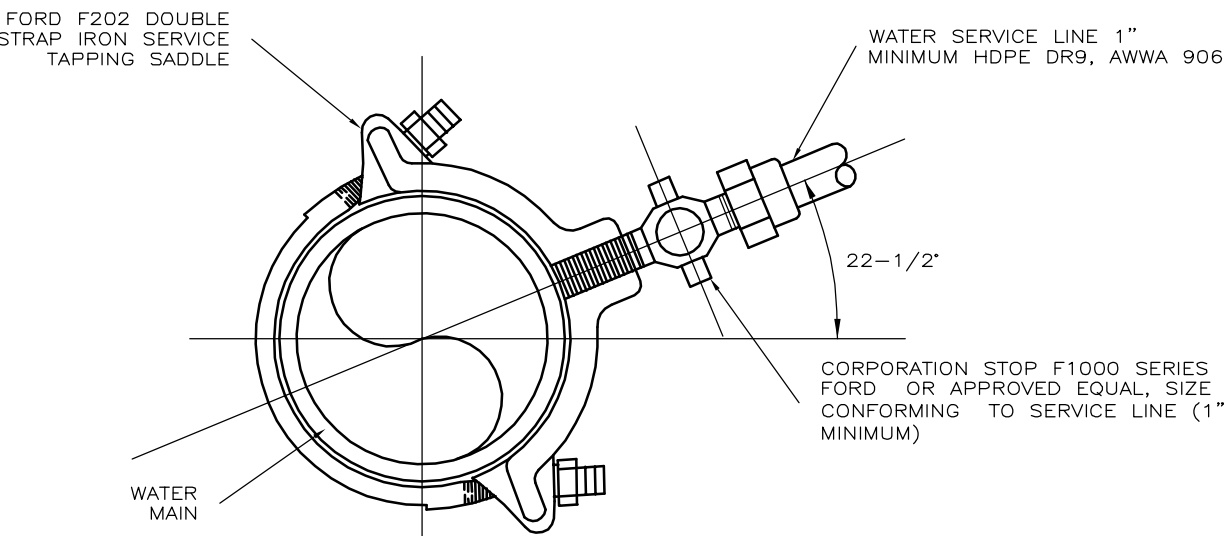
BACKFLOW PREVENTER NOT TO SCALE

NOTES:

- 1.) RESTRAIN TO NEXT FULL JOINT BEYOND GIVEN LENGTH.
- 2.) RESTRAIN 11.25' BENDS 50% OF LENGTH FOR 22.5' BENDS.
- 3.) ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- 4.) ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- 5.) PIPE SIZES ARE GIVEN IN INCHES.
- 6.) PIPE LENGTHS ARE GIVEN IN FEET.
- 7.) LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
- 8.) THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON THE USE OF LIGHTLY COMPACTED CLEAN SAND WITH AT LEAST A 95% COARSE PARTICLE CONTENT. ACTUAL SOIL CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.

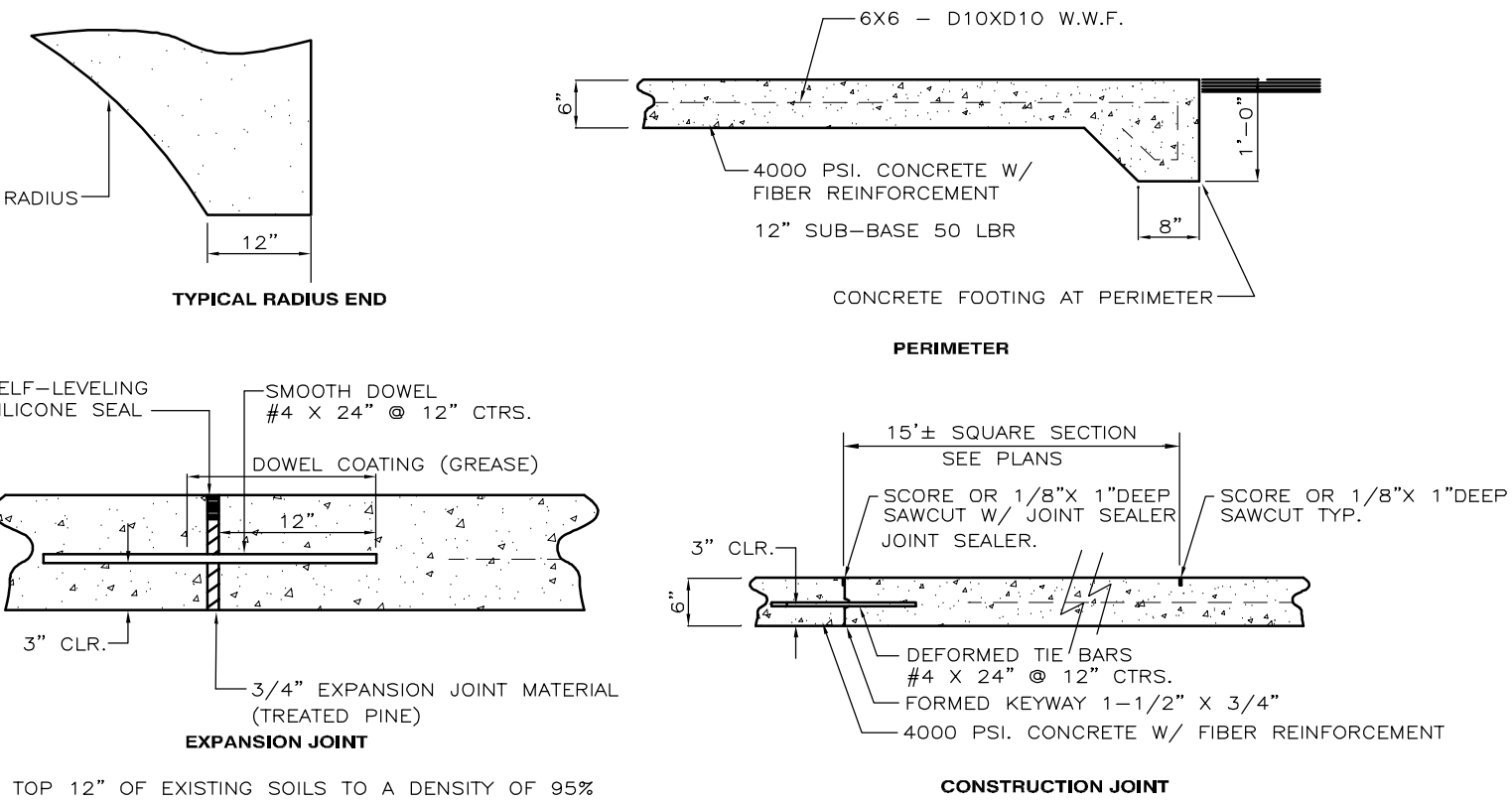
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

NOT TO SCALE



TYPICAL WATER SERVICE CONNECTION

N.T.S.



COMPACT TOP 12" OF EXISTING SOILS TO A DENSITY OF 95% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D-1557) SEE GEO-TECH REPORT

WITHIN 4" OF SUBGRADE BOTTOM ALL SILTY AND PEATY SOILS OR ANY OTHER ORGANIC SOILS SHALL BE REMOVED. FILL SOILS SHALL BE SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THAN 15% OF DRY WEIGHT, FINER THAN THE U.S. NO. 200 MESH. SIEVE AND COMPACTED TO A DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH.

CONCRETE PAVEMENT DETAIL

NOT TO SCALE

CONSTRUCTION JOINTS MUST BE USED WHERE AN INCOMPLETE POUR IS MADE BETWEEN PLANNED EXPANSION JOINTS. THE MAXIMUM SQUARE MUST BE HALF THE DISTANCE BETWEEN EXPANSION JOINTS (SEE PLANS). WHERE A COMPLETE POUR IS MADE A SAW CUT OR SCORE SHALL BE PLACED IN LIEU OF CONSTRUCTION JOINTS.

MAIN PIPE SIZE	HORIZ. BENDS			TEES										REDUCERS					PLUGS
	90°	45°	22.5°	SIZE					LENGTH					SIZE					
24	90°	38	18	X24	X20	X16	X12	X10	X8	X6	X4	X20	X16	X12	X10	X8	X6	214	
20	78	32	15	X20	X16	X12	X10	X8	X6	X4	X2	X20	X16	X12	X10	X8	X6	184	
16	66	27	13	X16	X12	X10	X8	X6	X4	X2	X1	X16	X12	X10	X8	X6	X4	151	
12	51	22	10	X12	X10	X8	X6	X4	X2	X1	X1/2	X12	X10	X8	X6	X4	X2	118	
10	44	18	9	X10	X8	X6	X4	X2	X1	X1/2	X3/4	X10	X8	X6	X4	X2	X1	100	
8	37	15	7	X8	X6	X4	X2	X1	X1/2	X3/4	X1/2	X8	X6	X4	X2	X1	X1/2	83	
6	29	12	5	X6	X4	X2	X1	X1/2	X3/4	X1/2	X3/4	X6	X4	X2	X1	X1/2	X3/4	63	
4	21	8	4	X4	X2	X1	X1/2	X3/4	X1/2	X3/4	X1/2	X4	X2	X1	X1/2	X3/4	X1/2	45	

NOTES:

1. RESTRAINED JOINT PIPING SHALL BE USED FOR ALL THRUST RESTRAINTS. THE ADJACENT SCHEDULE GIVES MINIMUM PIPE LENGTHS (FT) TO BE RESTRAINED ON EACH SIDE OF ALL FITTINGS. ALL CALCULATIONS ARE BASED ON 20' PIPE LENGTHS. THIS INCLUDES ALL MAIN RUNS ON TEES.
2. CONCRETE THRUST BLOCKS SHALL NOT BE USED UNLESS DIRECTED BY THE ENGINEER.
3. SOME PIPE RESTRAINT REQUIREMENTS ARE SHOWN IN THE PLANS FOR SPECIFIC CIRCUMSTANCES.
4. ALL 45° AND 22-1/2° COMBINATIONS BENDS AND 22-1/2° AND 11-1/4° COMBINATION BENDS SHALL BE TREATED AS 90° BENDS AND 45° BENDS, RESPECTIVELY, FOR RESTRAINED LENGTHS.
5. ALL FITTINGS AND RESTRAINED JOINTS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER BEFORE COVERED.
6. CONTRACTOR SHALL INSTALL BELL HARNESS RESTRAINTS ON ALL EXISTING PIPE AT TIE IN LOCATIONS TO ACCOMMODATE THE THRUST RESTRAINT SCHEDULE.
7. ALL CAPS AND PLUGS SHALL BE RESTRAINED.
8. ALL TIE-INS TO EXISTING WATER MAINS AND FORCE MAINS, SHALL BE TREATED LIKE A 90° BEND (NOY LIKE TEES) AND SHALL BE RESTRAINED ACCORDINGLY.
9. CONTRACTOR SHALL INSTALL A MINIMUM OF 20' OF RESTRAINED JOINT PIPE ON EACH SIDE OF ALL VALVES, SMALL SIDE OF ALL REDUCERS AND ON THE MAIN RUN OF ALL TEES.

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

NOT TO SCALE

PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS  
CENTRAL CREDIT UNION OF FLORIDA  
STATE ROAD 77  
PANAMA CITY, FLORIDA

SCALE: SHOWN
DESIGNED BY: JFP
DRAWN BY: JFP
REVIEWED BY: SDM
ISSUE DATE: 12/11/2012
CF/D: 85502E02
NOT RELEASED FOR CONSTRUCTION BY DATE:

**MCNEIL CARROLL**  
ENGINEERING, INC.

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401  
Phone: 850-763-5730  
Fax: 850-763-5744

Professional Engineering Consultants  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			
Sean D. McNeil, P.E. PROFESSIONAL ENGINEER FL LC # 49303			Robert L. Carroll, P.E. PROFESSIONAL ENGINEER FL LC # 57988

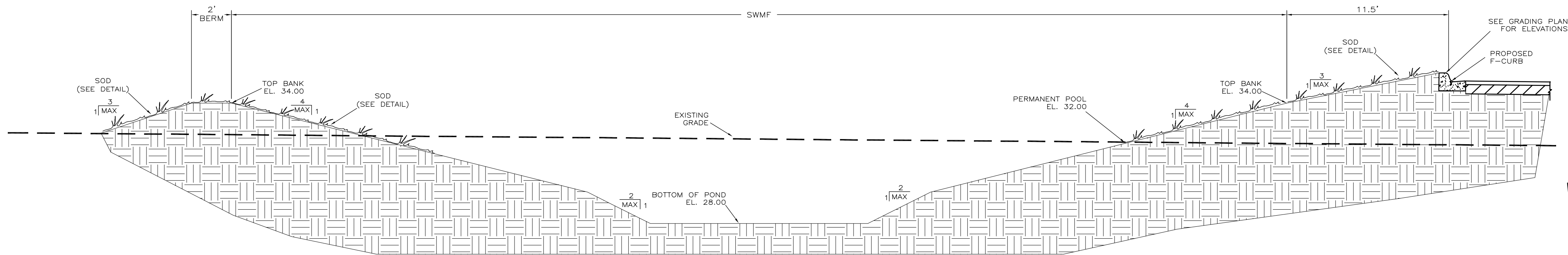
SHEET NUMBER

10 OF 12

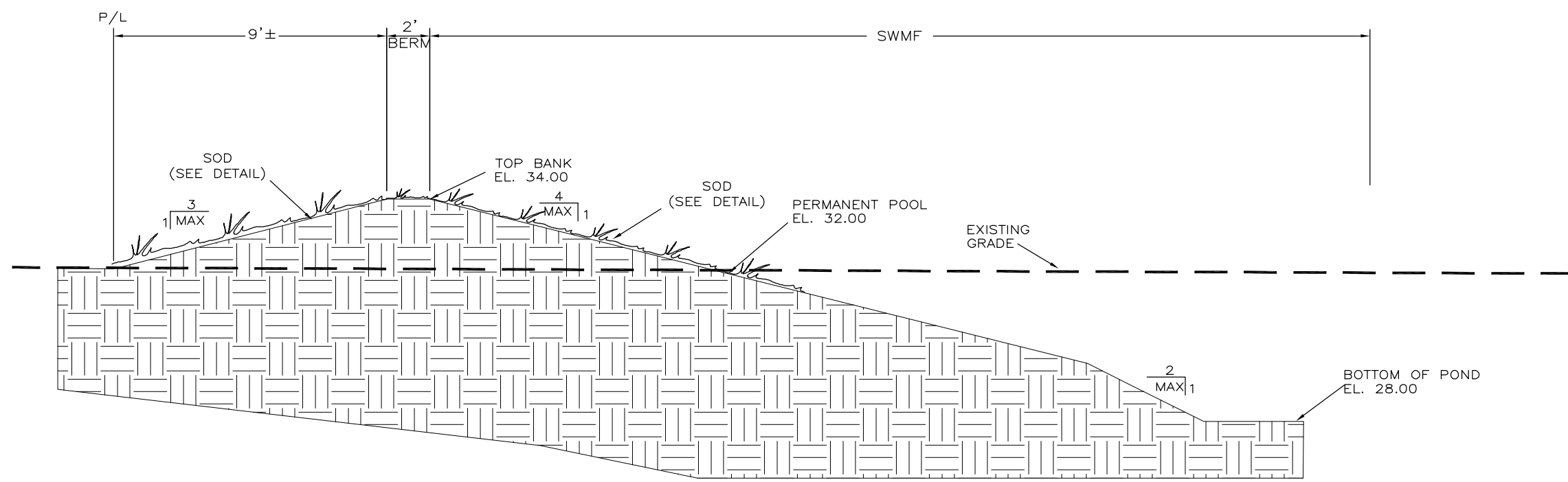
85502 - CENTRAL CREDIT UNION OF FLORIDA



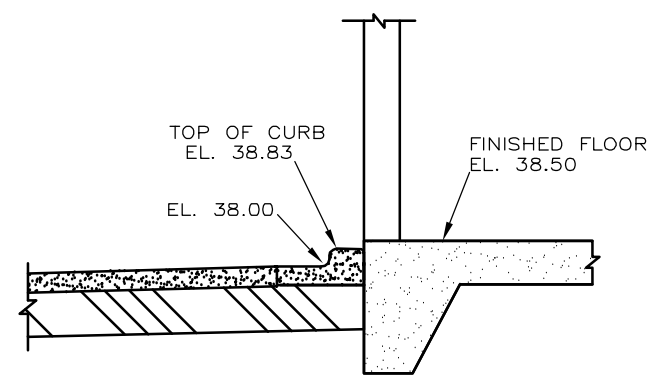
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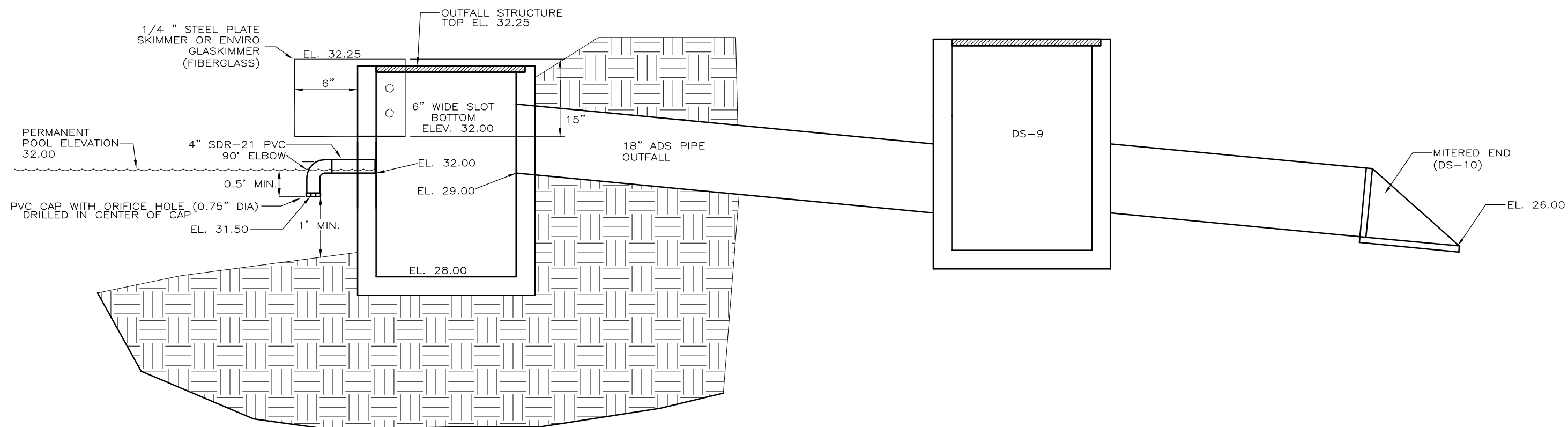
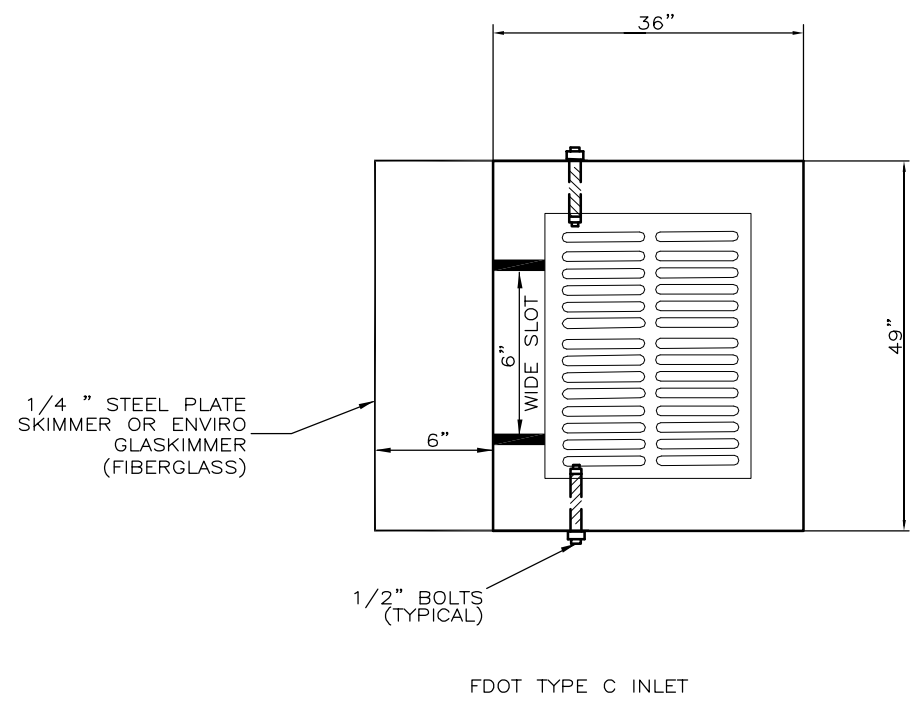
SECTION A  
NOT TO SCALE



SECTION B  
NOT TO SCALE

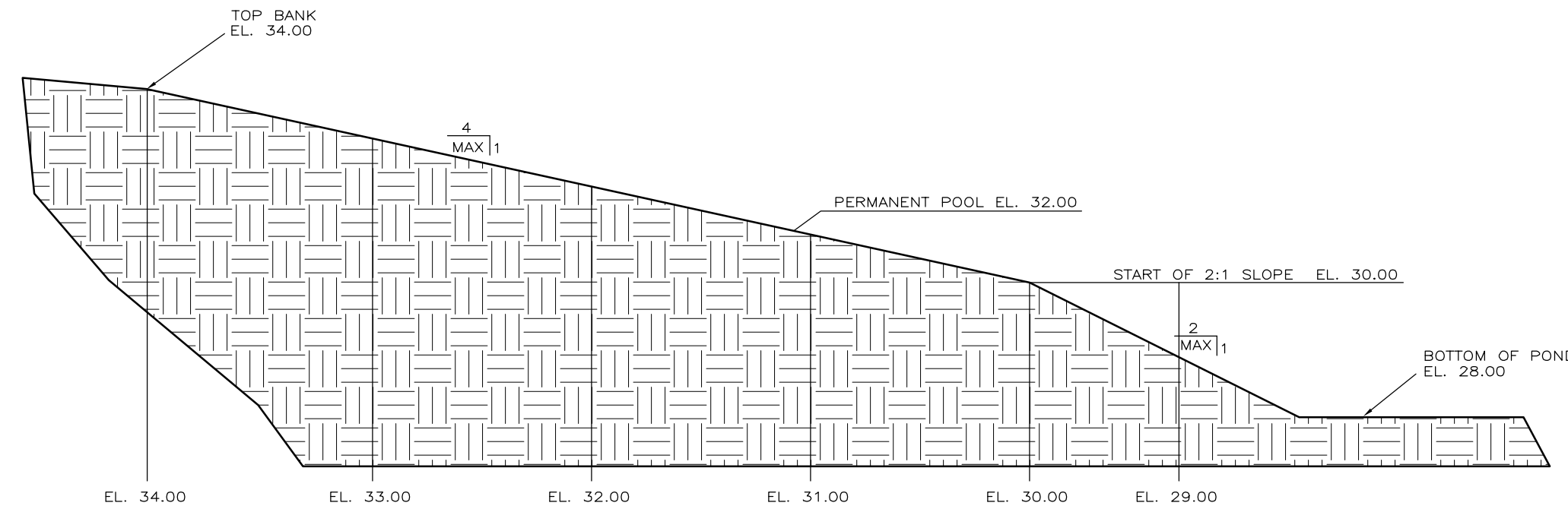


SECTION C  
NOT TO SCALE



SEE INLET DETAIL FOR INLET CONSTRUCTION.

OUTFALL STRUCTURE DETAIL (DS-8)  
NOT TO SCALE



CROSS SECTION OF WET DETENTION POND  
NOT TO SCALE

	D	X	M								S-1/2" CONCRETE SLAB (CY) B				SODDING (SQ. YDS.)						
			A	B	C	E	F	G	SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE	SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE					
2:1 SLOPE	15"	2'-2"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	4.63'	7.21'	9.79'	12.37'	1.19'	0.38	0.58	0.77	0.96	21	24	27	30
	18"	2'-10"	1.97'	2.74'	4.71'	2.56'	6'	1.41'	4.92'	7.75'	10.58'	13.42'	1.21'	0.44	0.65	0.87	1.09	22	25	28	31
	24"	3'-5"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	5.50'	8.92'	12.33'	15.75'	1.25'	0.54	0.83	1.12	1.42	24	28	32	35
	30"	4'-3"	2.15'	4.95'	7.10'	4.58'	8'	2.00'	6.08'	10.33'	14.58'	18.83'	1.29'	0.66	1.09	1.50	1.91	26	31	35	40
	36"	5'-1"	2.25'	6.08'	8.33'	5.56'	9'	2.24'	6.67'	11.75'	16.83'	21.92'	1.33'	0.81	1.38	1.95	2.51	28	34	39	45
	42"	6'-0"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	7.25'	13.25'	19.25'	25.25'	1.38'	0.97	1.70	2.45	3.19	30	37	43	50
	48"	6'-9"	2.43'	8.33'	10.76'	7.56'	11'	2.65'	7.83'	14.58'	21.33'	28.08'	1.42'	1.13	2.04	2.93	3.84	32	39	47	54
	54"	7'-8"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	8.42'	16.08'	23.75'	31.42'	1.46'	1.31	2.44	3.58	4.72	34	42	51	59
	60"	8'-6"	2.62'	10.56'	13.18'	9.56'	14'	3.00'	9.00'	17.50'	26.00'	34.50'	1.50'	1.51	2.89	4.28	5.68	36	45	55	64
	66"	9'-2"	2.71'	11.68'	14.39'	10.56'	15'	3.18'	9.58'	18.75'	27.92'	37.08'	1.54'	1.68	3.25	4.84	6.43	38	48	58	68
72"	10'-0"	2.80'	12.80'	15.60'	11.56'	16'	3.30'	10.16'	20.16'	30.16'	40.16'	1.58'	1.89	3.74	5.59	7.45	40	51	62	73	
4:1 SLOPE	15"	2'-2"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.63'	7.21'	9.79'	12.37'	1.19'	0.57	0.87	1.15	1.44	23	28	33	38
	18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'	1.21'	0.66	0.99	1.31	1.65	25	29	34	40
	24"	3'-5"	2.53'	7.183'	9.71'	7.036'	11'	1.73'	5.50'	8.92'	12.33'	15.75'	1.25'	0.85	1.30	1.76	2.20	28	32	36	40
	30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	6.08'	10.33'	14.58'	18.83'	1.29'	1.10	1.74	2.39	3.05	31	36	41	46
	36"	5'-1"	2.87'	11.312'	14.18'	11.030'	15'	2.24'	6.67'	11.75'	16.83'	21.92'	1.33'	1.32	2.21	3.08	3.96	34	40	46	52
	42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	7.25'	13.25'	19.25'	25.25'	1.38'	1.58	2.76	3.91	5.19	38	44	51	58
	48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	7.83'	14.58'	21.33'	28.08'	1.42'	1.85	3.30	4.73	6.17	41	48	56	63
	54"	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	8.42'	16.08'	23.75'	31.42'	1.46'	2.14	3.95	5.77	7.58	44	52	61	69
	60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	9.00'	17.50'	26.00'	34.50'	1.50'	2.45	4.66	6.87	9.07	47	56	66	75
	66"	9'-2"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	9.58'	18.75'	27.92'	37.08'	1.54'	2.88	5.54	8.18	10.84	49	59	69	80
72"	10'-0"	3.91'	23.68'	27.59'	23.03'	27'	3.30'	10.16'	20.16'	30.16'	40.16'	1.58'	3.54	6.61	9.87	13.13	52	63	74	85	

SEE GENERAL NOTE NO. 3  
SEE SHEET OF 5  
SLAB QUANTITIES

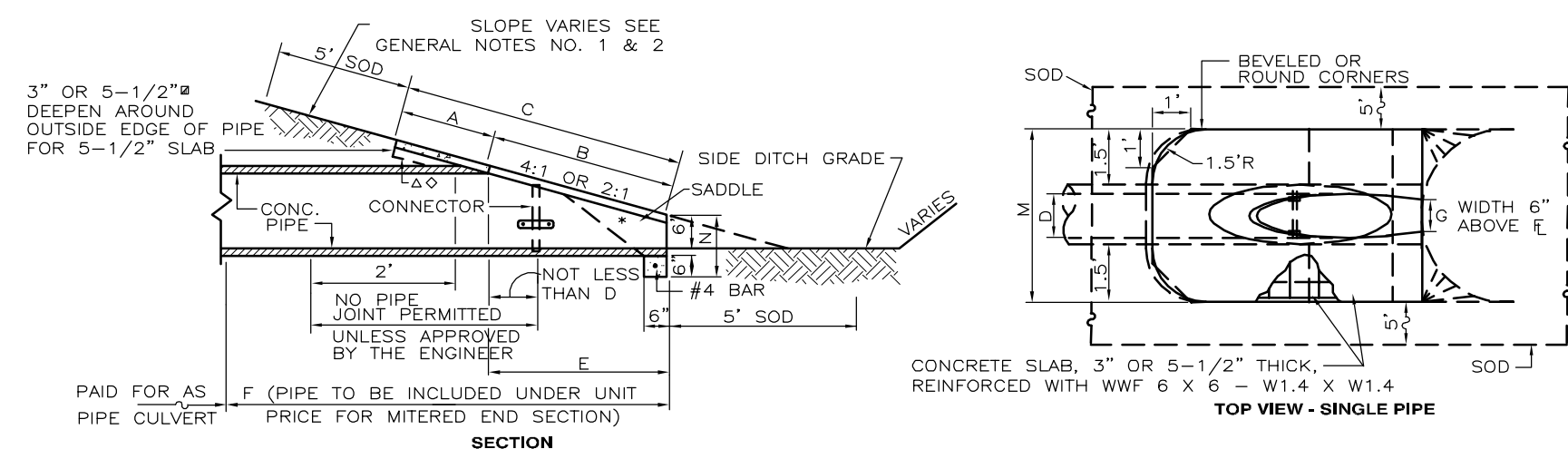
△ 6.42" ± 6.25" DIMENSIONS PERMITTED TO ALLOW USE OF 8" STANDARD PIPE LENGTHS.

△ 10.40" ± 10.10" DIMENSIONS PERMITTED TO ALLOW USE OF 12" STANDARD PIPE LENGTHS.

△ CONCRETE SLAB SHALL BE ORDERED TO FORM BRIDGE ACROSS CROWN OF PIPE. SEE SECTION BELOW.

SEE GENERAL NOTE NO. 3.  
SEE SHEET 9 OF 8 FOR 3" SLAB QUANTITIES

△ 6'-42" △ 6'-25" DIMENSIONS PERMITTED TO ALLOW USE  
OF 8' STANDARD PIPE LENGTHS.  
□ 10'-40" □ 10'-10" DIMENSIONS PERMITTED TO ALLOW USE  
OF 12' STANDARD PIPE LENGTHS.  
◇ CONCRETE SLAB SHALL BE SLOPED TO FORM BRIDGE  
ACROSS CROWN OF PIPE. SEE SECTION BELOW.



\* SLOPE: 4:1 MITER: TO Q PIPE FOR PIPES 18" AND SMALLER  
2:1 FOR PIPES 24" AND LARGER  
2:1 MITER: TO Q PIPE FOR PIPES 18" AND SMALLER.  
1:1 FOR PIPES 24" AND LARGER.

FDOT MITERED END DETAIL  
NOT TO SCALE

## PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS  
CENTRAL CREDIT UNION OF FLORIDA  
STATE ROAD 77  
PANAMA CITY, FLORIDA

SCALE: SHOWN  
DESIGNED BY: JFP  
DRAWN BY: JFP  
REVIEWED BY: SDM  
ISSUE DATE: 12/11/2012  
C/D: 85502E02  
NOT RELEASED FOR CONSTRUCTION  
BY: DATE:

**McNEIL  
CARROLL**  
ENGINEERING, INC.

475 Harrison Avenue, Suite 200  
Panama City, Florida 32401  
Phone: 850-763-5730  
Fax: 850-763-5744

Professional Engineering Consultants  
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
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Sean D. McNeil, P.E.  
PROFESSIONAL ENGINEER  
FL LC # 49303

Robert L. Carroll, P.E.  
PROFESSIONAL ENGINEER  
FL LC # 57988

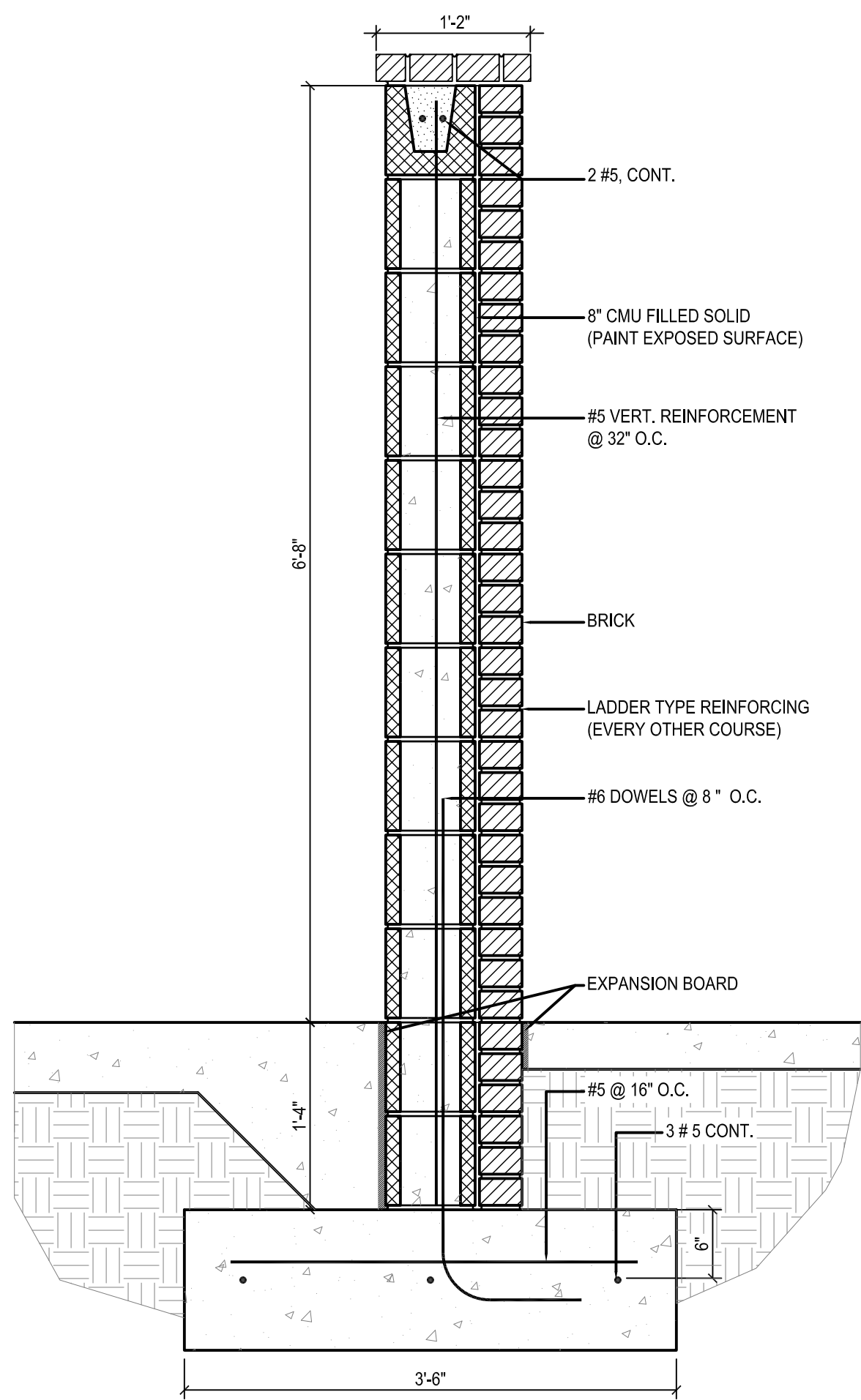
SHEET NUMBER

11 OF 12

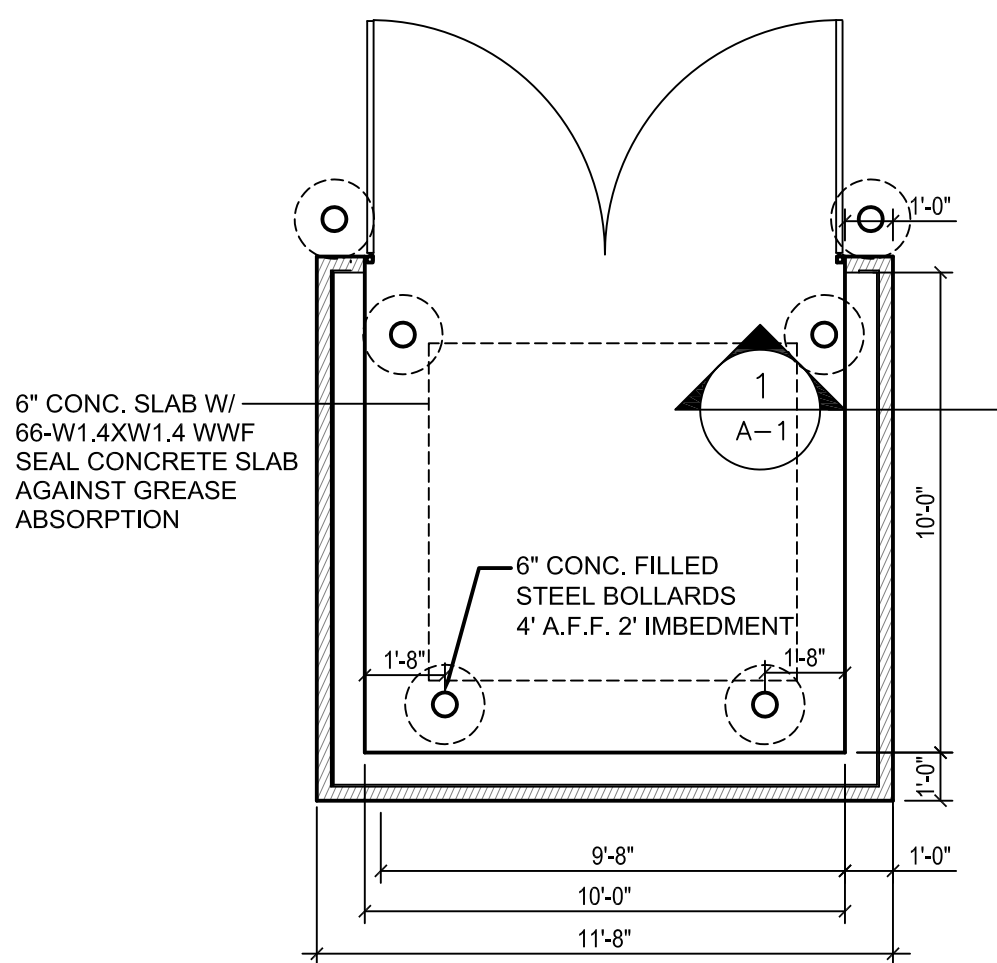
85502 - CENTRAL CREDIT UNION OF FLORIDA



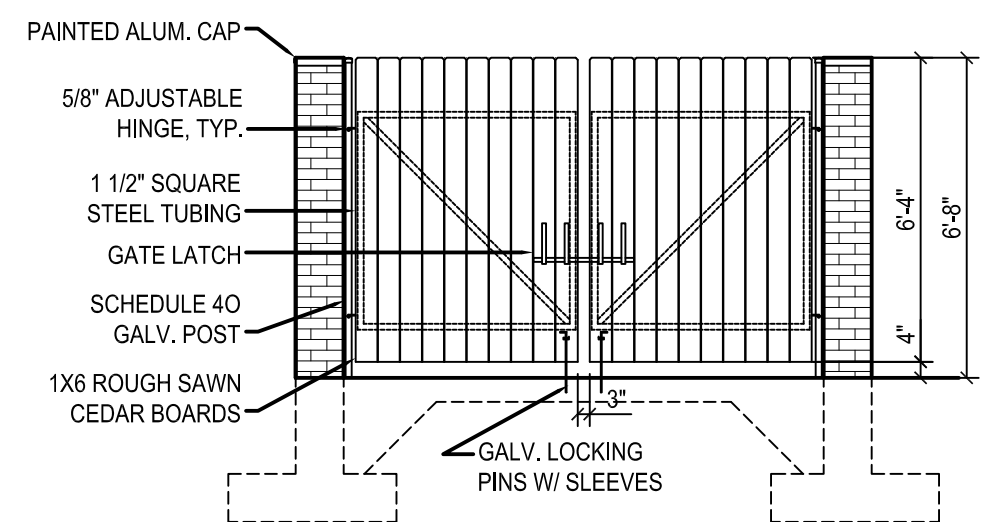




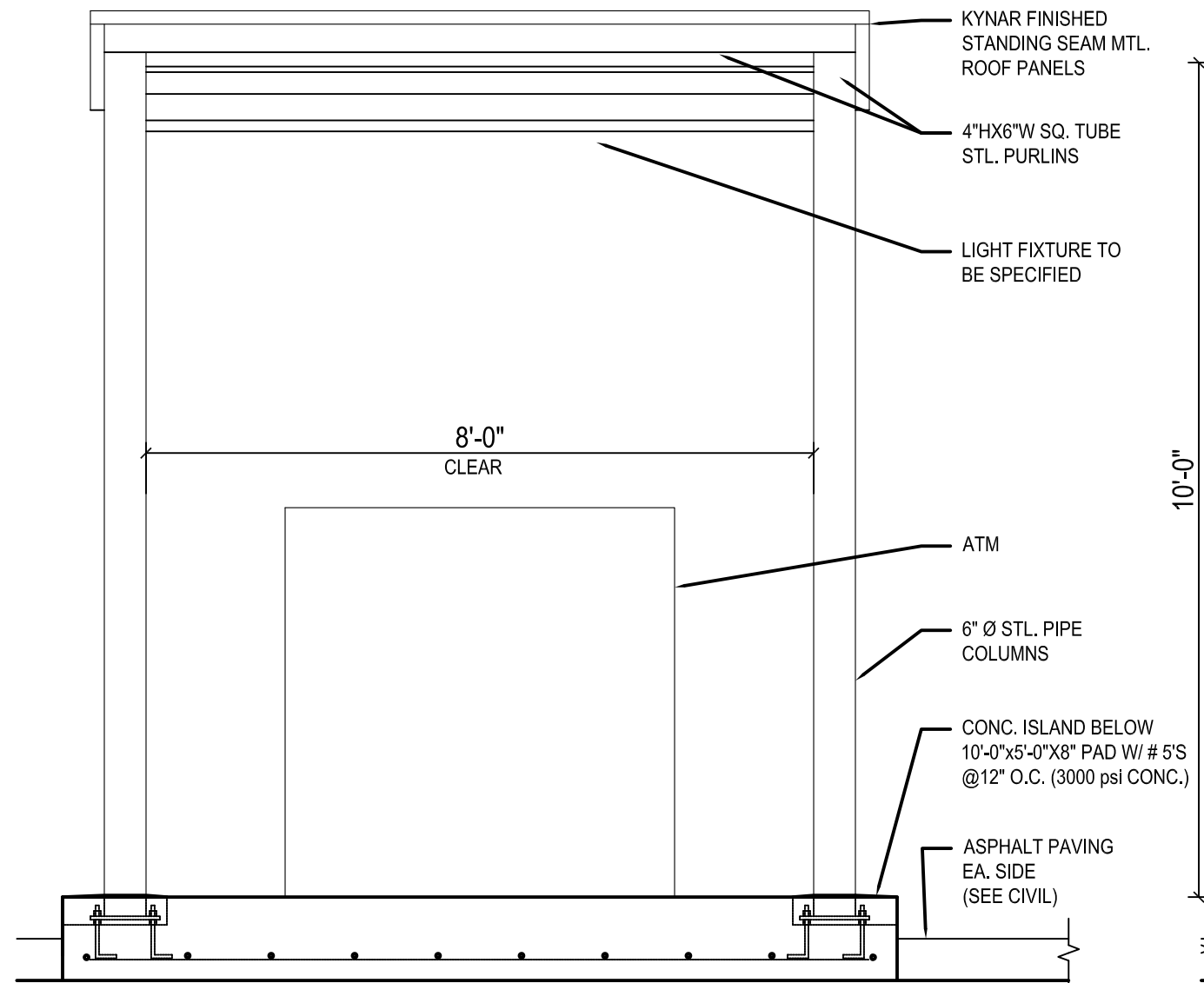
1 SCREEN WALL SECTION  
SCALE: 1"=1'-0"



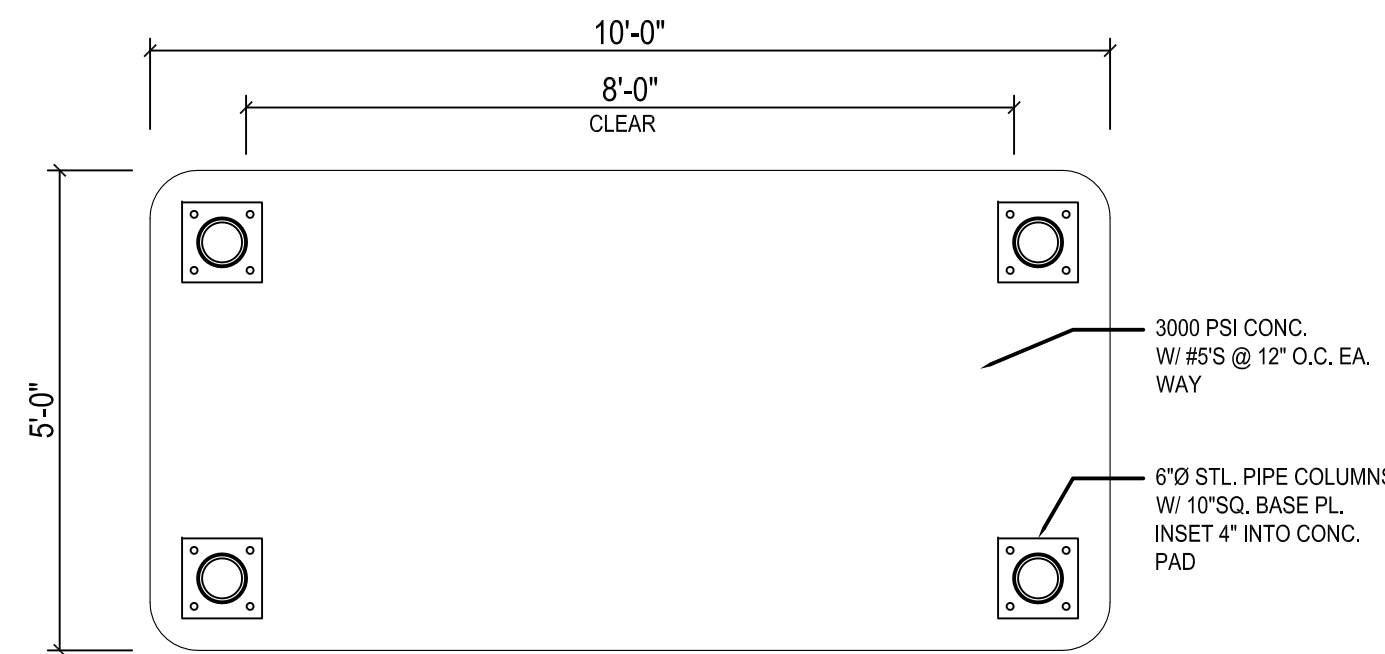
2 SCREEN WALL PLAN  
SCALE: 1/4"=1'-0"



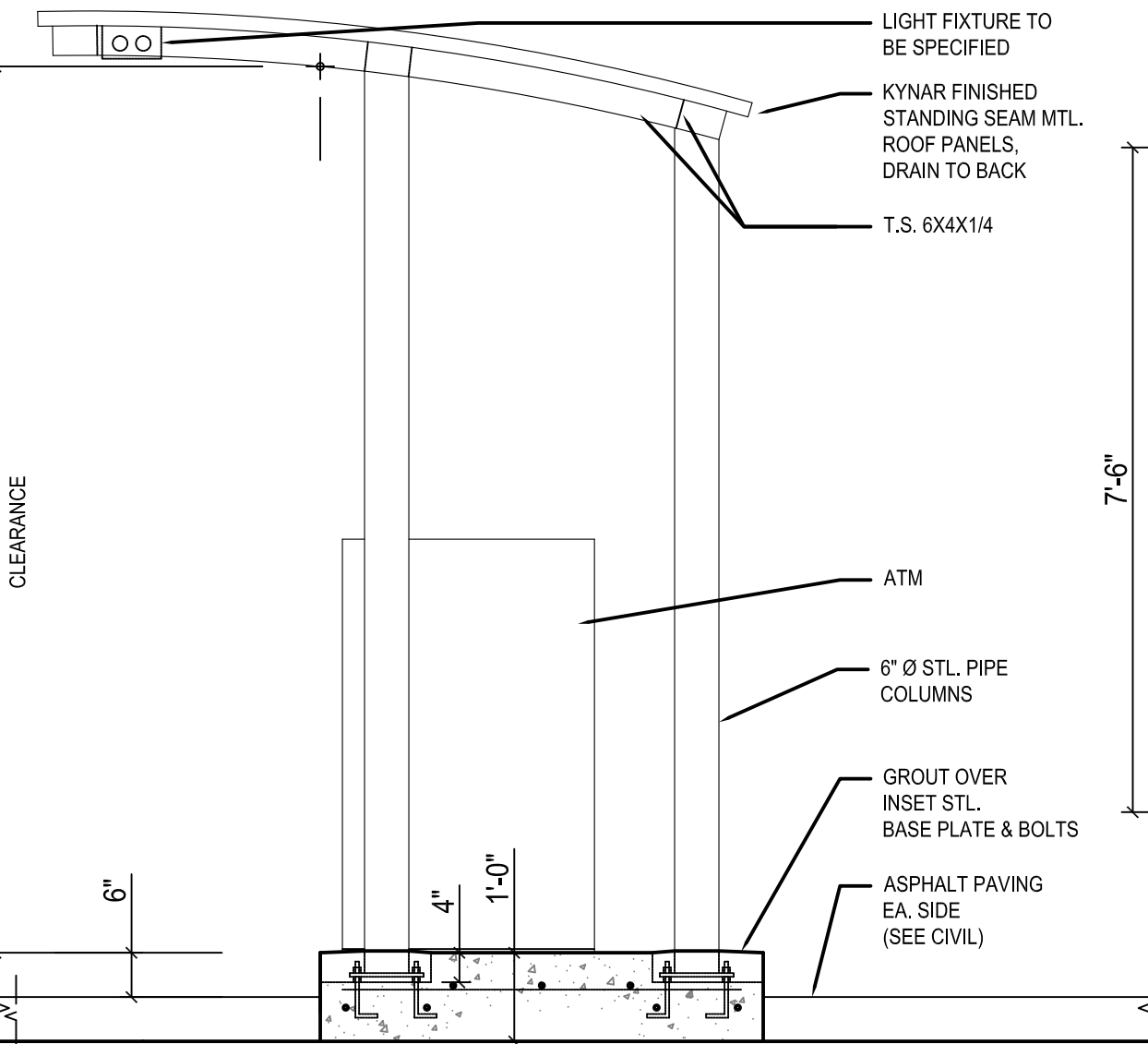
3 SCREEN WALL ELEVATION  
SCALE: 1/4"=1'-0"



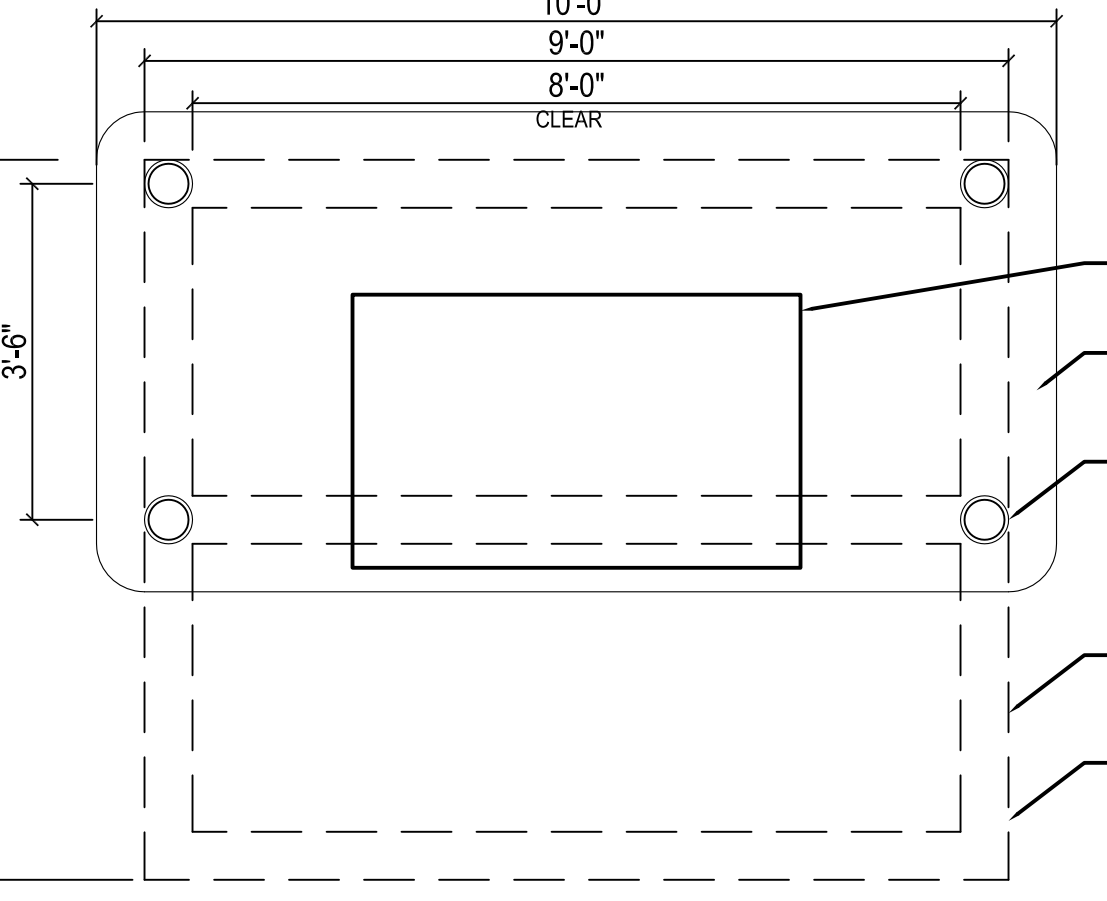
4 ATM ELEVATION  
SCALE: 1"=1'-0"



5 ATM FOUNDATION  
SCALE: 1"=1'-0"

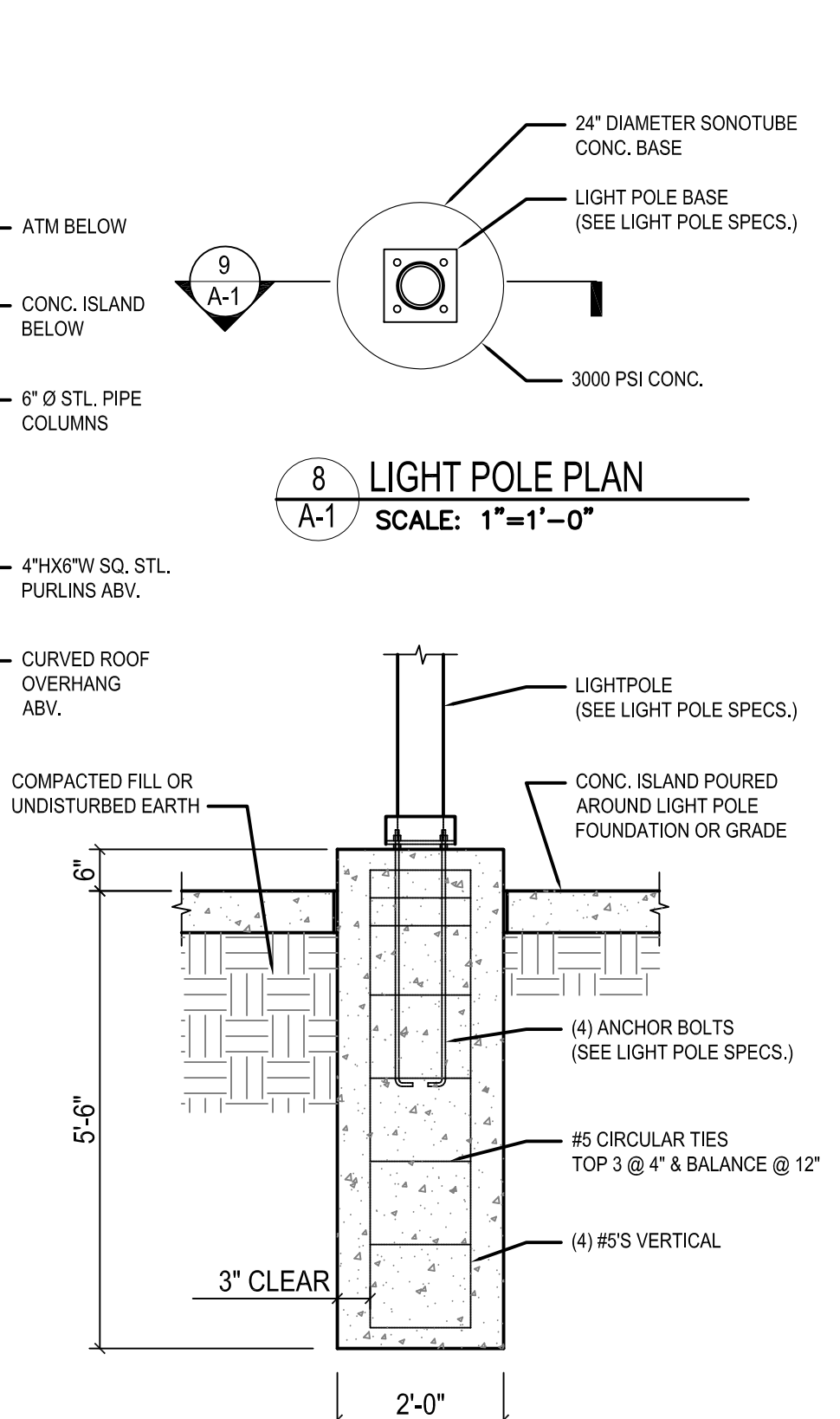


6 ATM ELEVATION  
SCALE: 1"=1'-0"



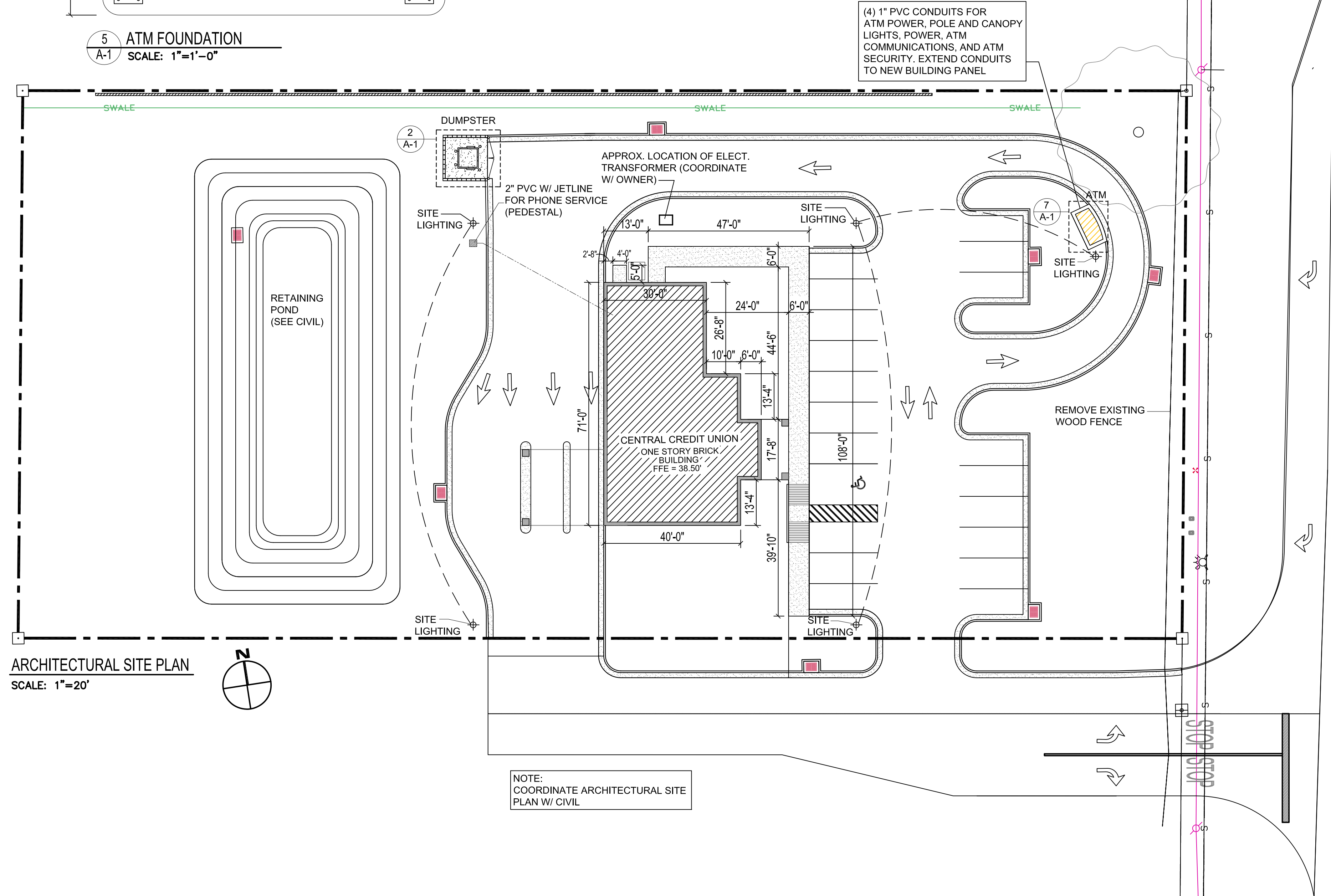
7 ATM PLAN  
SCALE: 1"=1'-0"

NOTE: RADIUS CONC. BASE OF ATM TO FOLLOW CURB RADIUS. (COORDINATE W/ CIVIL)



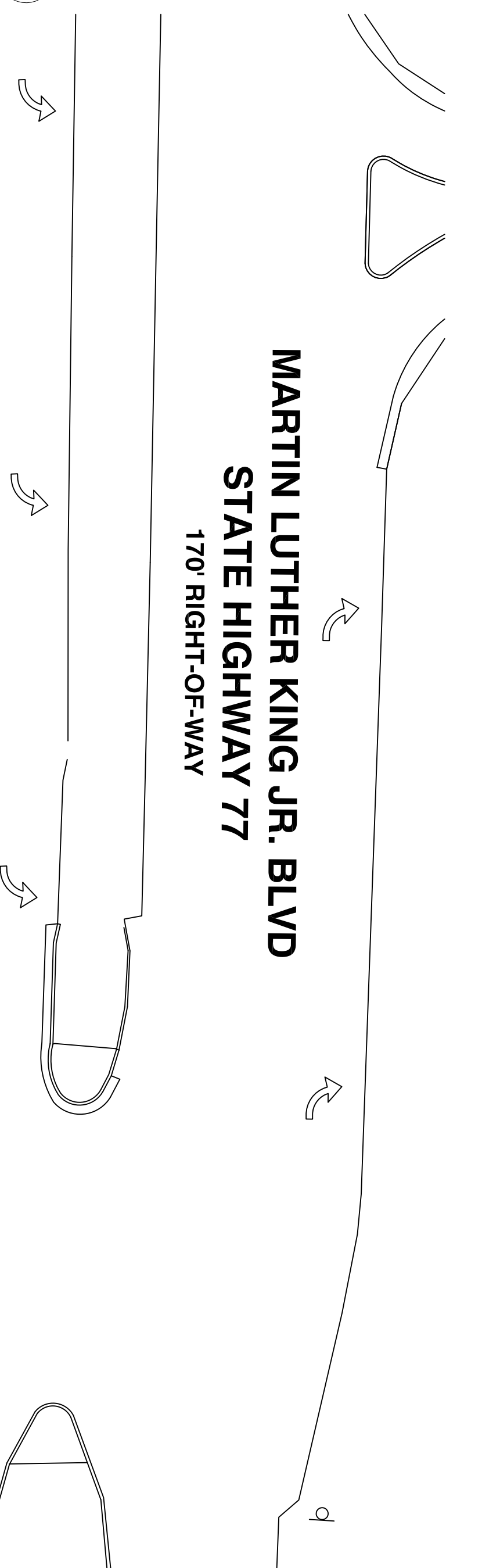
8 LIGHT POLE PLAN  
SCALE: 1"=1'-0"

9 LIGHT POLE SECTION  
SCALE: 1"=1'-0"



ARCHITECTURAL SITE PLAN  
SCALE: 1"=20'

NOTE: COORDINATE ARCHITECTURAL SITE PLAN W/ CIVIL



CENTRAL CREDIT UNION OF FLORIDA  
PANAMA CITY SERVICE BRANCH

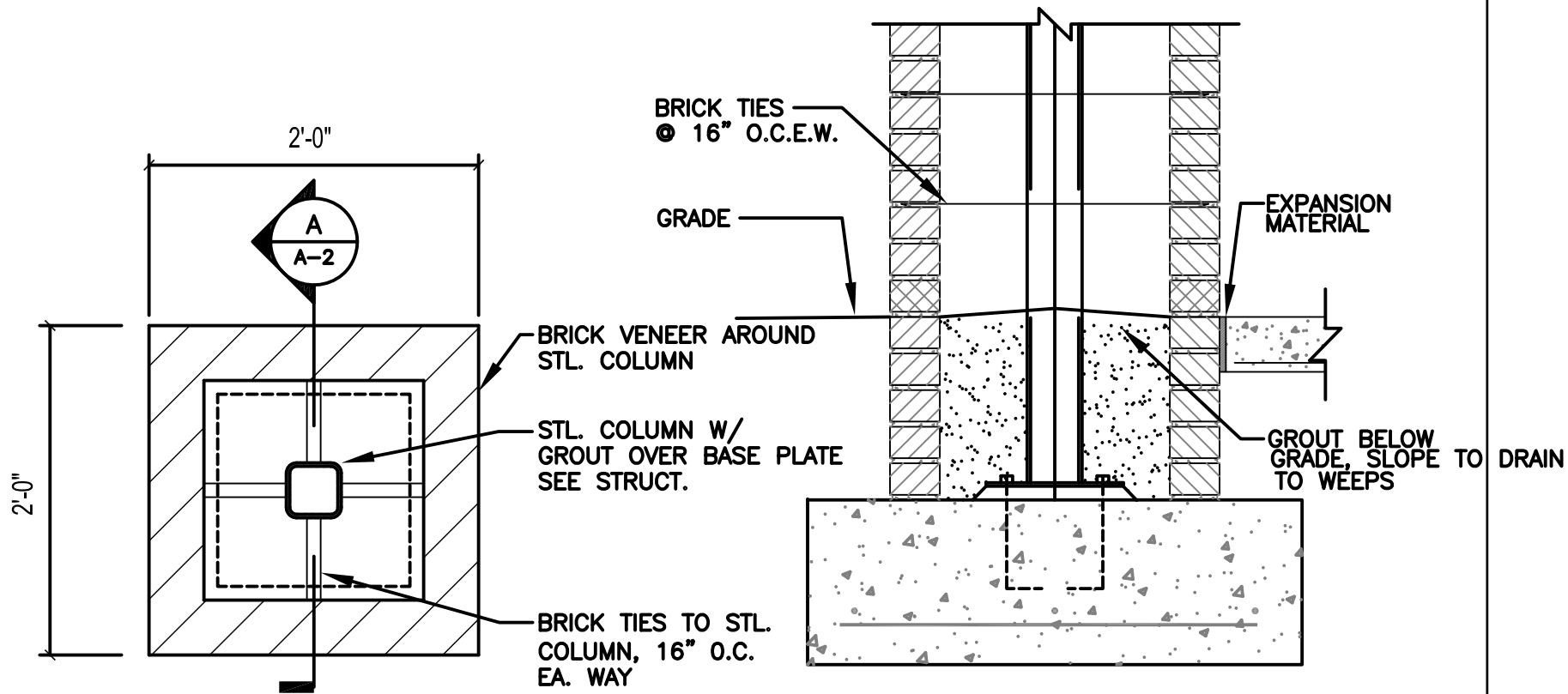
REVISIONS		
No.	Description	Date
Title: ARCHITECTURAL SITE PLAN		
Scale:	As Noted	
Date:	December 7, 2012	
Drawn By:	JF	
Checked By:	DA	
Approved By:	DA	
Dwg. No.	A-1	



ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	FLOORS	BASE	WALLS	CEILING				
		CARPET TILE #1	CARPET TILE #2	WALK-OFF CARPET	MARBLE THRESHOLD	SEALED CONCRETE	RUBBER	CERAMIC TILE	WOOD
100	LOBBY								
101	OFFICE 'A'								
102	OFFICE 'B'								
103	OFFICE 'C'								
104	TELLERS								
105	WORK AREA								
106	VAULT								
107	OFFICE 'D'								
108	HALL								
109	MEN								
110	WOMEN								
111	HALL								
112	BREAK ROOM								
113	STORAGE								
114	ELEC. / TELCOM ROOM								
115	MECHANICAL ROOM								

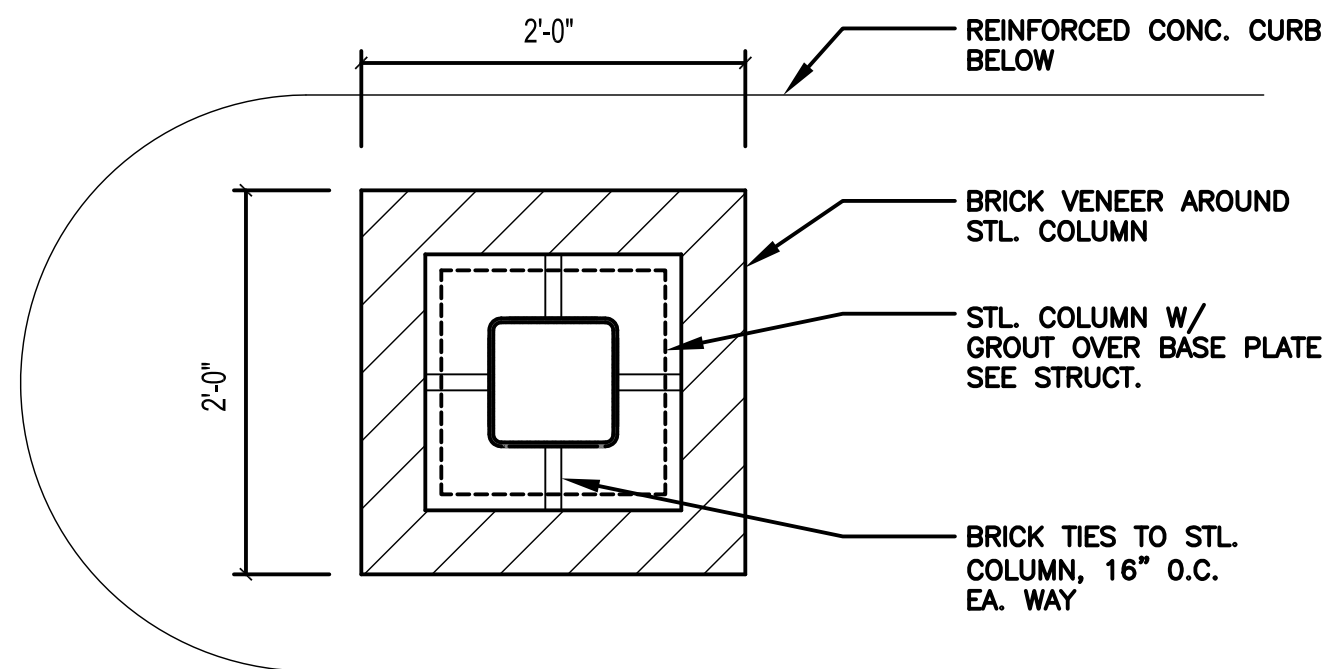
NOTES

RUBBER TRANSITION STRIPS

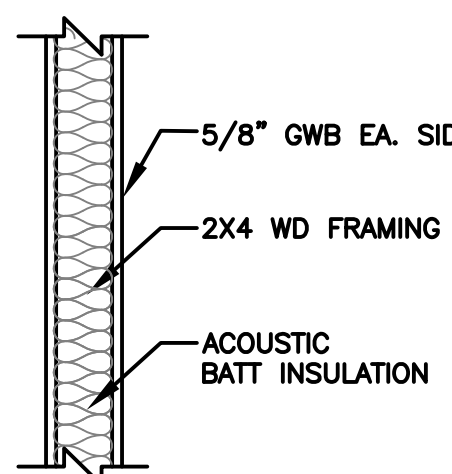


2  
A-2  
DETAIL @ DBL. COLUMNS  
SCALE: 1" = 1'-0"

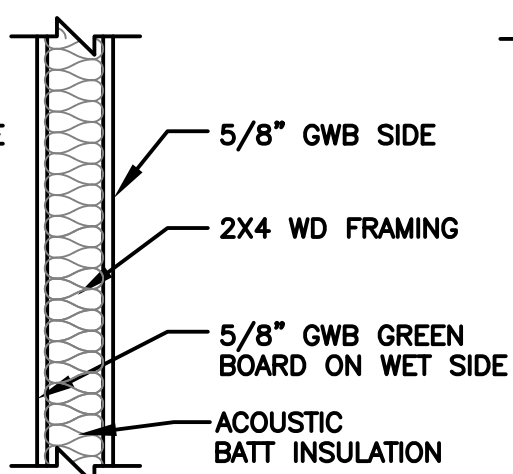
A  
A-2  
DETAIL @ DBL. COLUMNS  
SCALE: 1" = 1'-0"



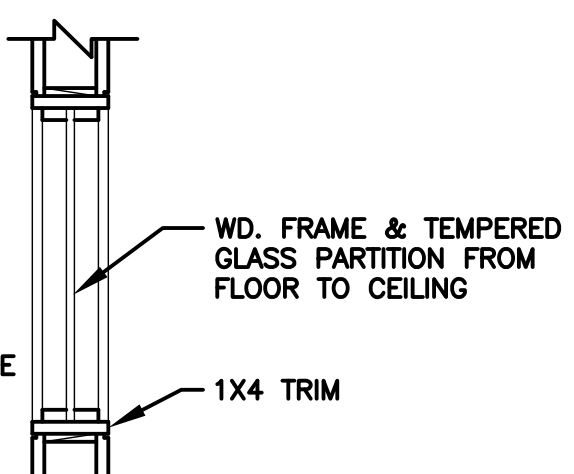
3  
A-2  
DETAIL @ DRIVE-THROUGH COLUMN  
SCALE: 1" = 1'-0"



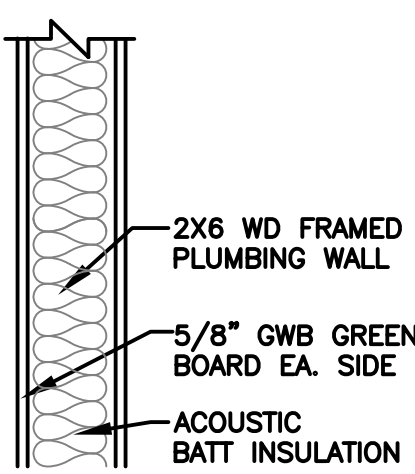
1  
WALL TYPE  
SCALE: 1" = 1'-0"



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

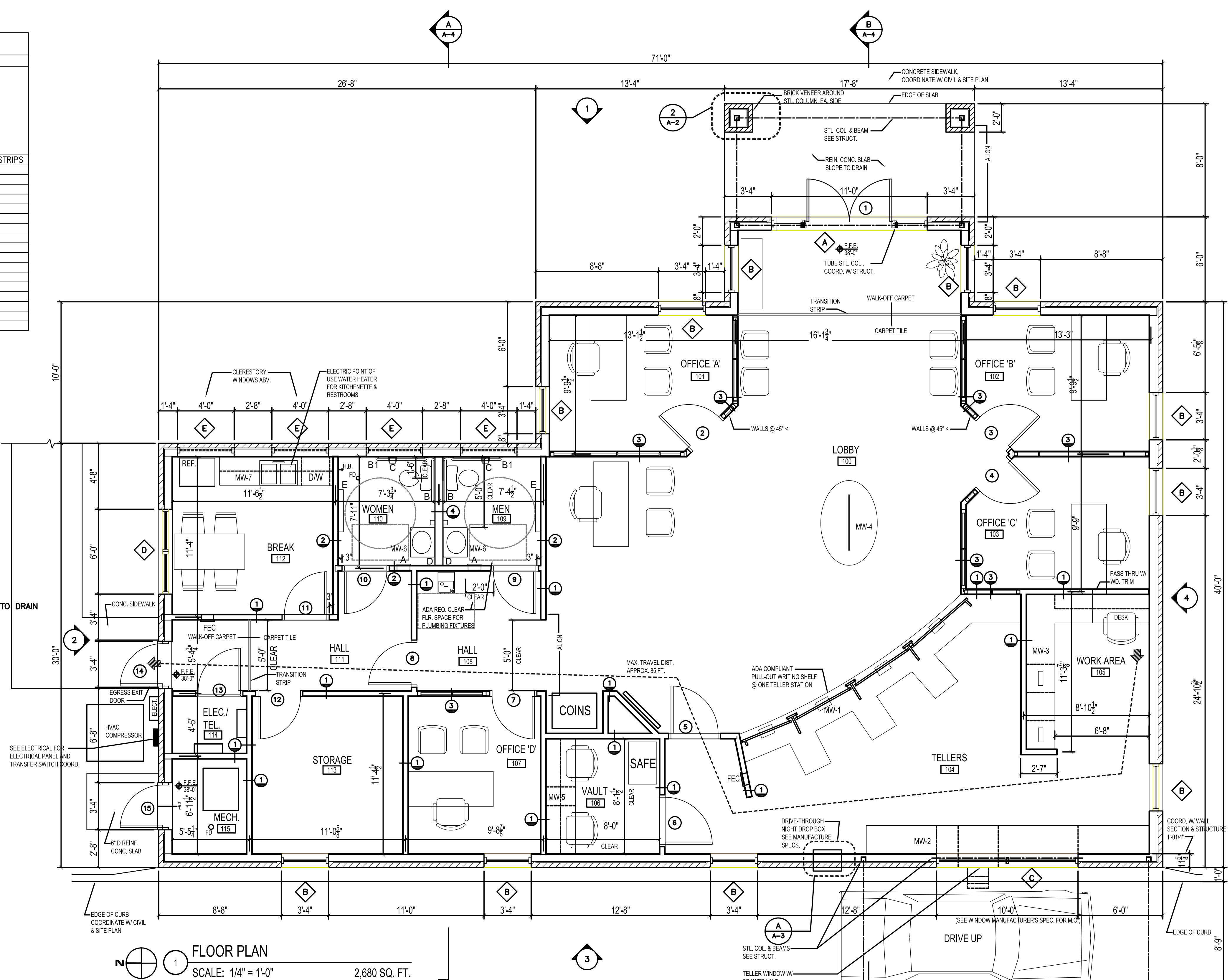


3  
WALL TYPE  
SCALE: 1" = 1'-0"



4  
WALL TYPE  
SCALE: 1" = 1'-0"

NOTE:  
COORD. WALL TYPES W/ FINISH SCHEDULE,  
WINDOW AND DOOR SCHEDULE, AND MILLWORK.



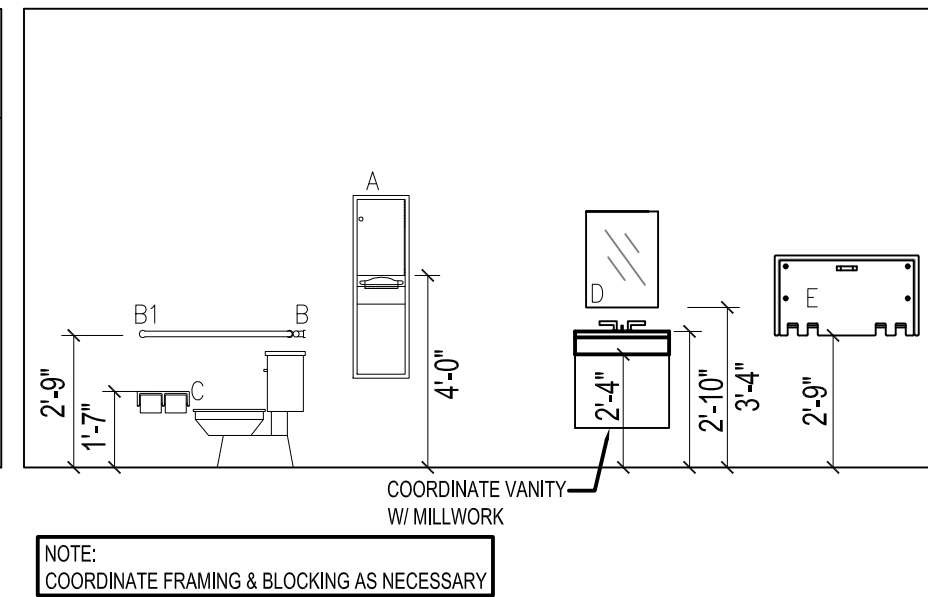
1  
FLOOR PLAN  
SCALE: 1/4" = 1'-0"  
2,680 SQ. FT.

- NOTE:
- EXTERIOR DIMS. ARE MASONRY DIMS. (EDGE OF BRICK TO EDGE OF BRICK - M.O.)
  - INTERIOR DIMS ARE FROM EDGE OF ROUGH FRAMING OR CENTER OF WALL UNLESS NOTED CLEAR.
  - FURNITURE SHOWN FOR COORDINATION IS BY OWNER. MILLWORK IS DESIGNATED WITH 'MW'.
  - INSTALL BATT INSULATION CONTINUOUS AT EXTERIOR (THERMAL) AND INTERIOR (ACOUSTIC) WALLS AND ABOVE CEILING.
  - COORDINATE BANKING EQUIPMENT W/ OWNER AND ARCHITECT. AS NECESSARY SEE MANUFACTURER'S SPECS. FOR INSTALLATION.
  - COORDINATE W/ OWNER SUPPLIED APPLIANCES.

#### TOILET & CUSTODIAL ACCESSORIES ABBREVIATIONS KEY

##### RESTROOMS:

- A. - TOWEL DISP./WASTE RECEPT, RECESSED
- B. - GRAB BARS 36"
- B1. - GRAB BARS 42"
- C. - TOILET PAPER HOLDER, SURFACE MOUNT
- D. - TILT MIRROR 24" X 36"
- E. - BABY CHANGING STATION



NOTE:  
COORDINATE FRAMING & BLOCKING AS NECESSARY



SAM MARSHALL ARCHITECTS  
325 S. PALAFOX STREET  
PENSACOLA, FL 32502  
(850) 433-7842  
(850) 433-0510 fax

# CENTRAL CREDIT UNION OF FLORIDA PANAMA CITY SERVICE BRANCH

#### REVISIONS

No.	Description	Date

Title:

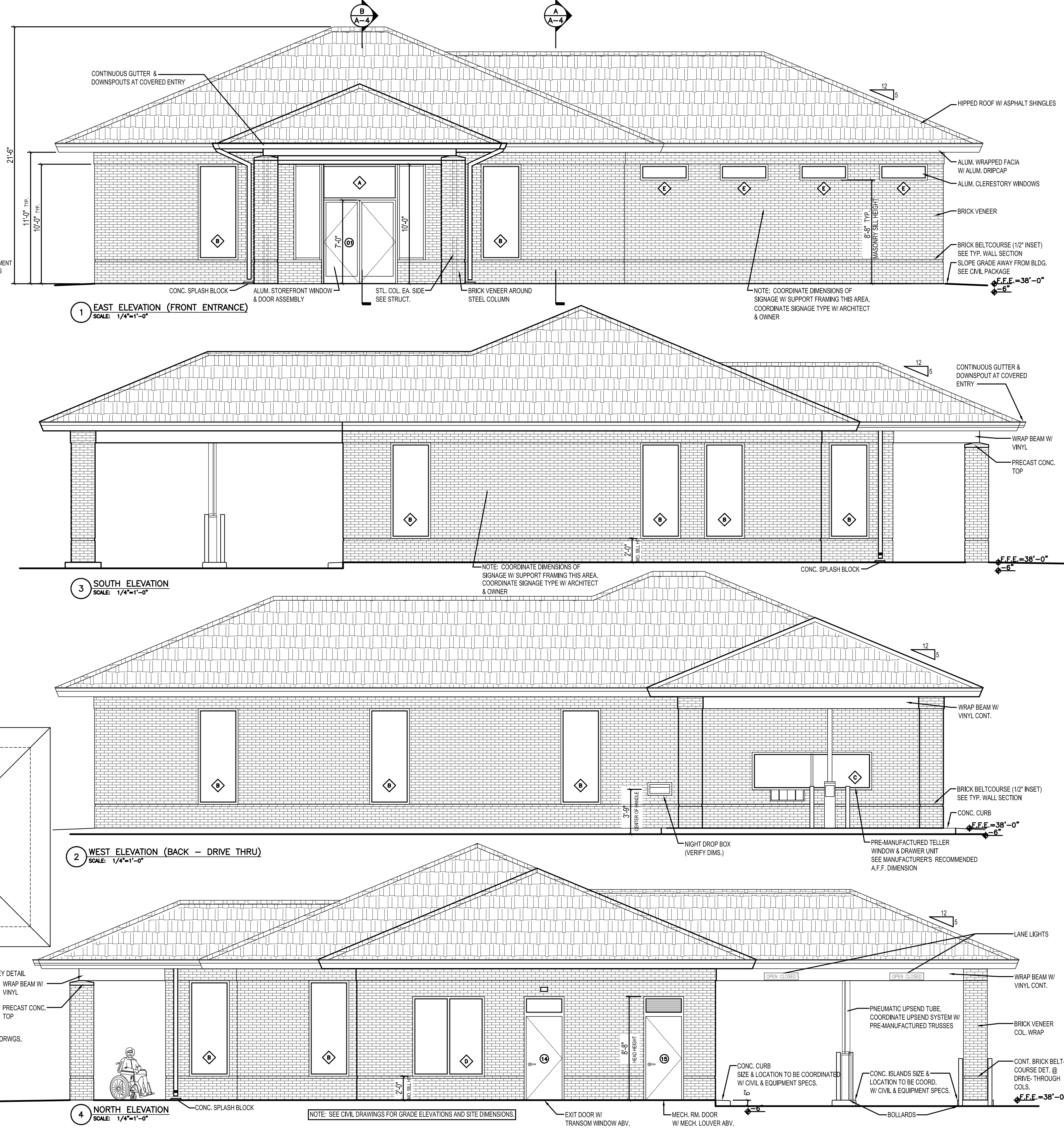
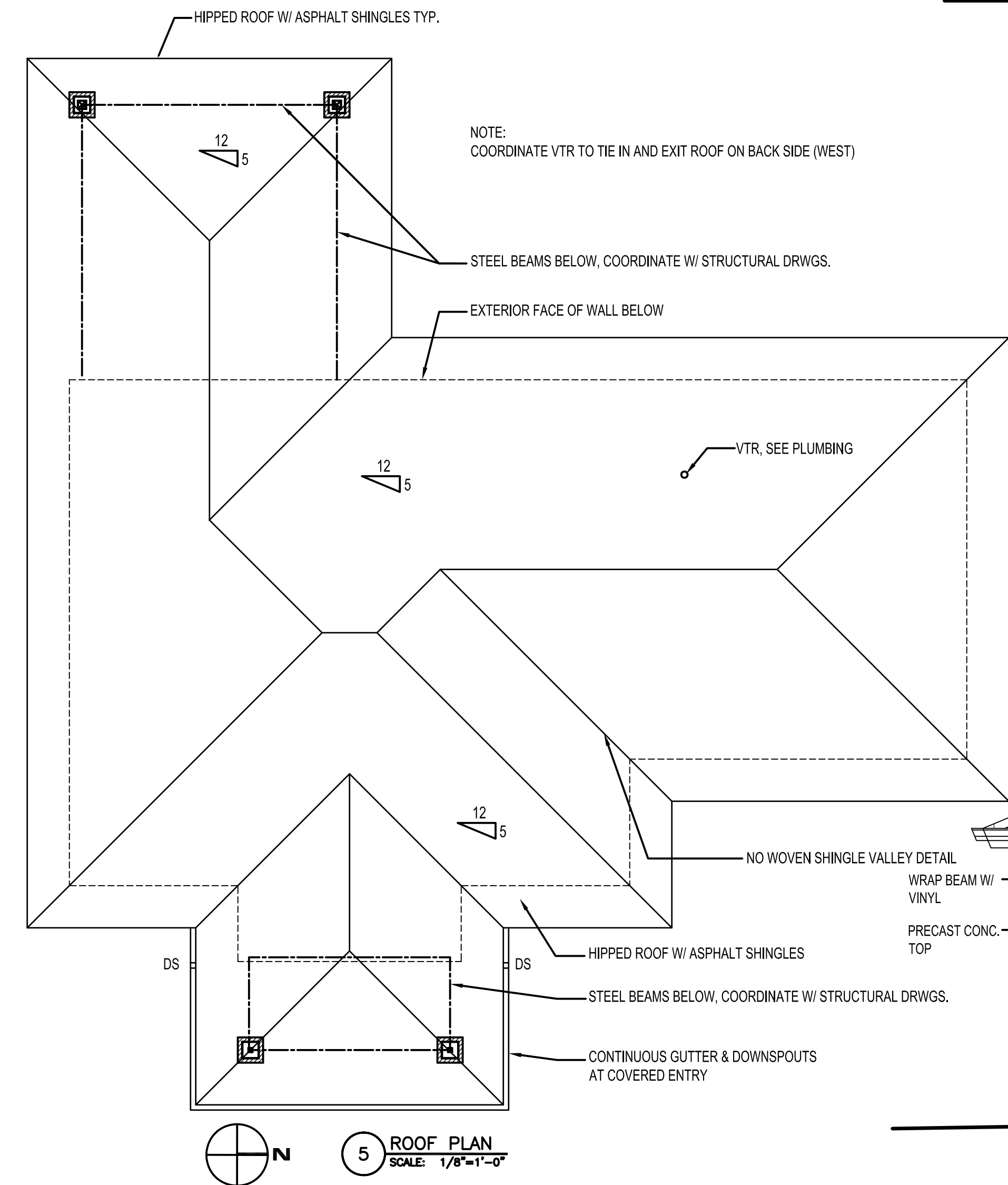
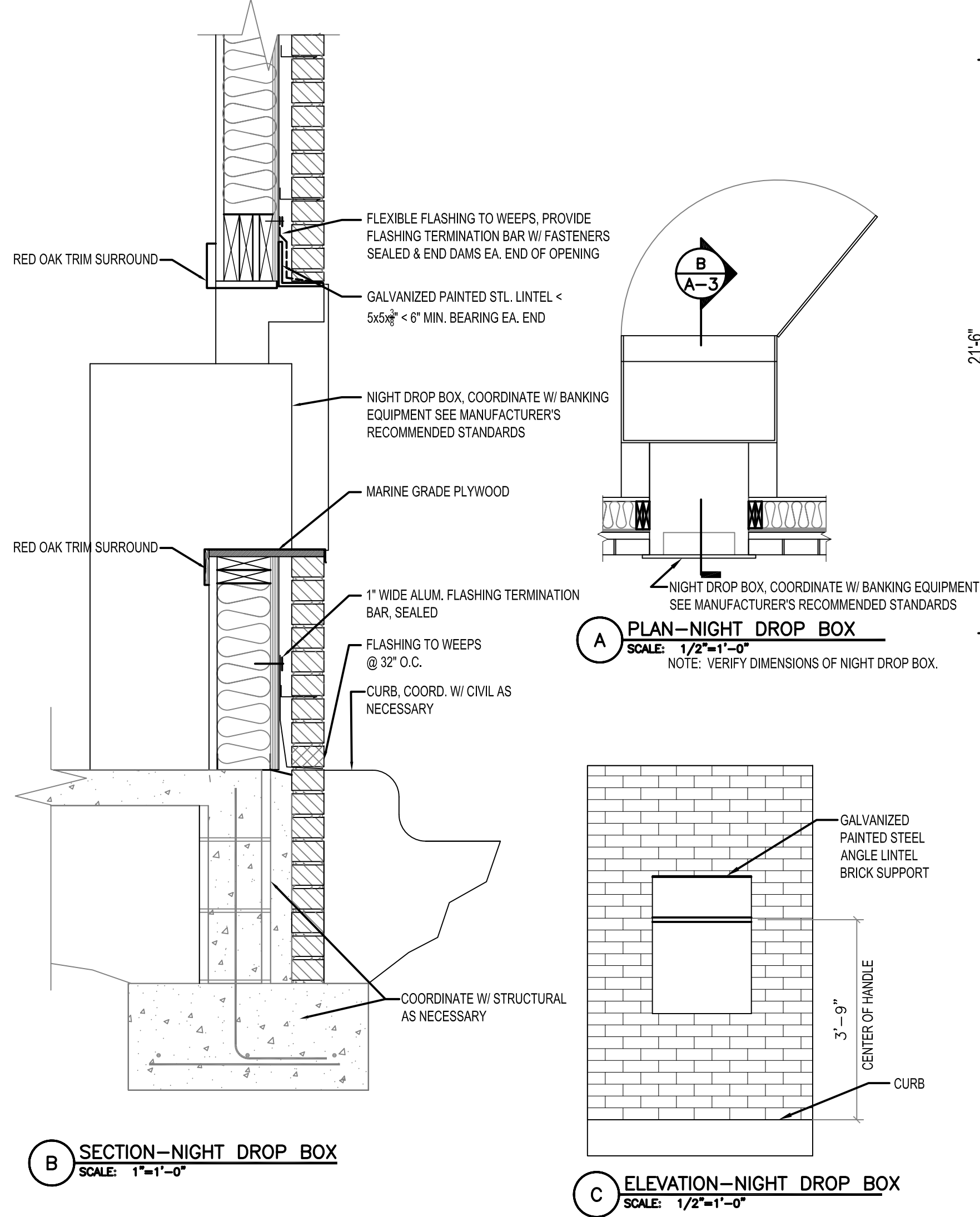
FLOOR PLAN

Scale: As Noted  
Date: December 7, 2012  
Drawn By: JF  
Checked By: DA  
Approved By: DA

Dwg. No.

A-2





SAM MARSHALL ARCHITECTS  
325 S. PALAFOX STREET  
PENSACOLA, FL 32502  
(850) 433-7842  
(850) 433-0510 fax

CENTRAL CREDIT UNION OF FLORIDA

PANAMA CITY SERVICE BRANCH

REVISIONS		
No.	Description	Date

Title:

**BUILDING ELEVATIONS**

Scale: As Noted

Date: December 7, 2012

Drawn By: JF

Checked By: DA

Approved By: DA

Dwg. No.

**A-3**

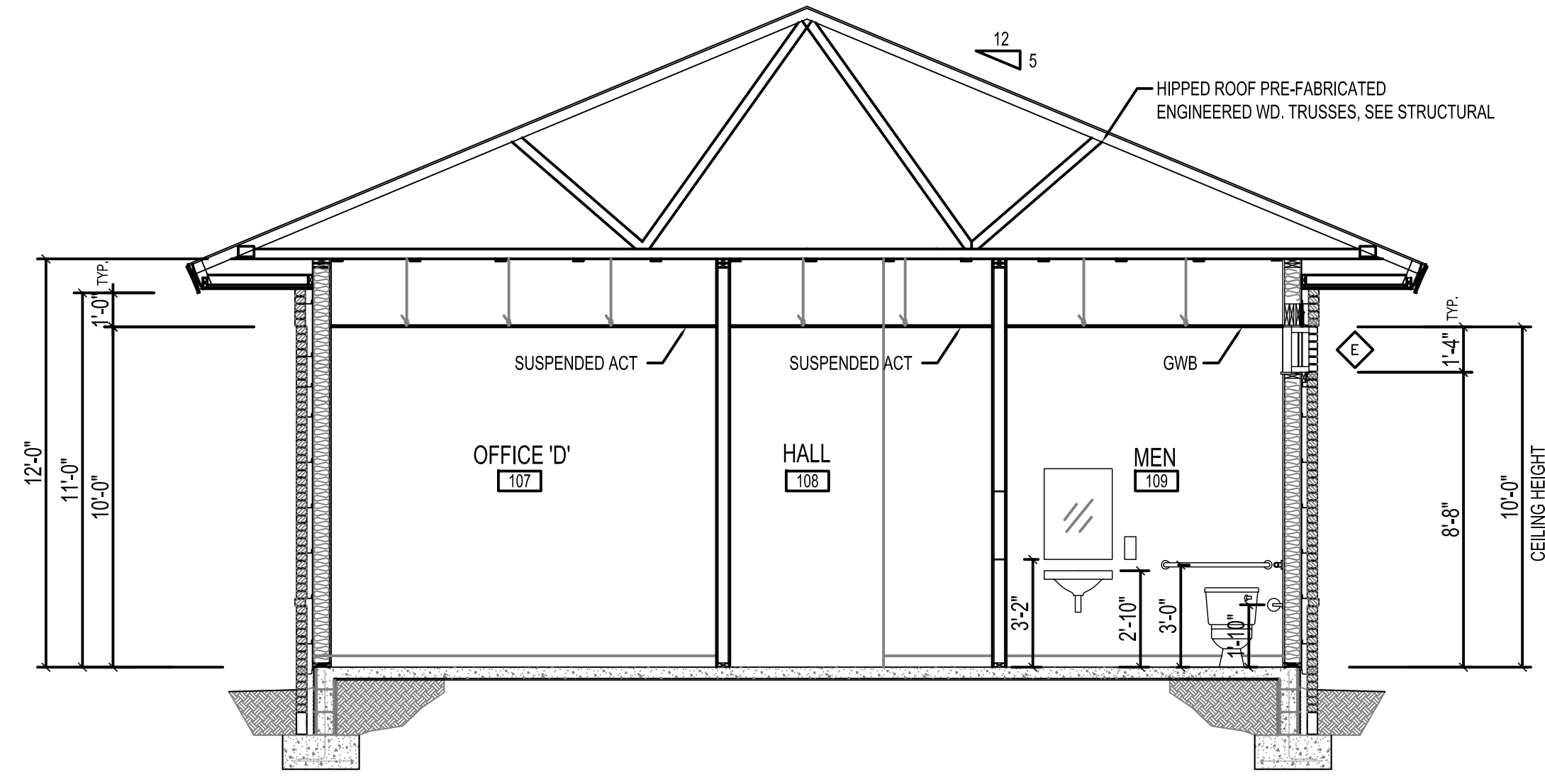
CENTRAL CREDIT UNION OF FLORIDA  
PANAMA CITY SERVICE BRANCH

REVISIONS		
No.	Description	Date

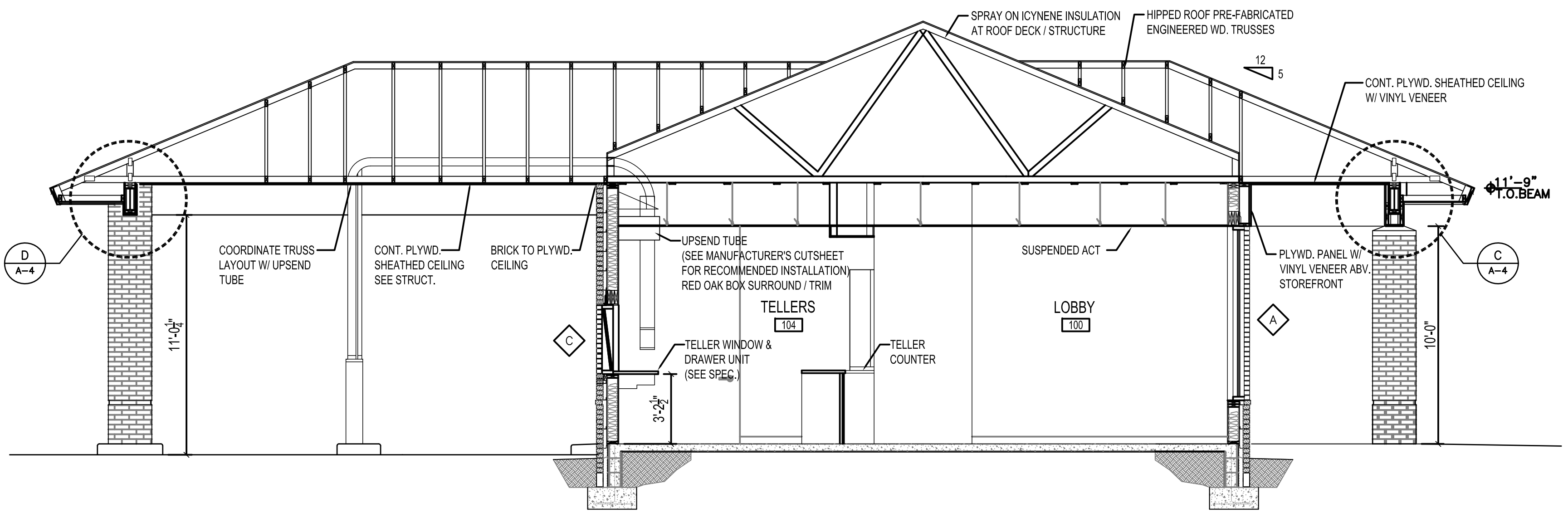
Title:  
BUILDING SECTIONS  
& WALL SECTIONS

Scale: As Noted  
Date: December 7, 2012  
Drawn By: JF  
Checked By: DA  
Approved By: DA

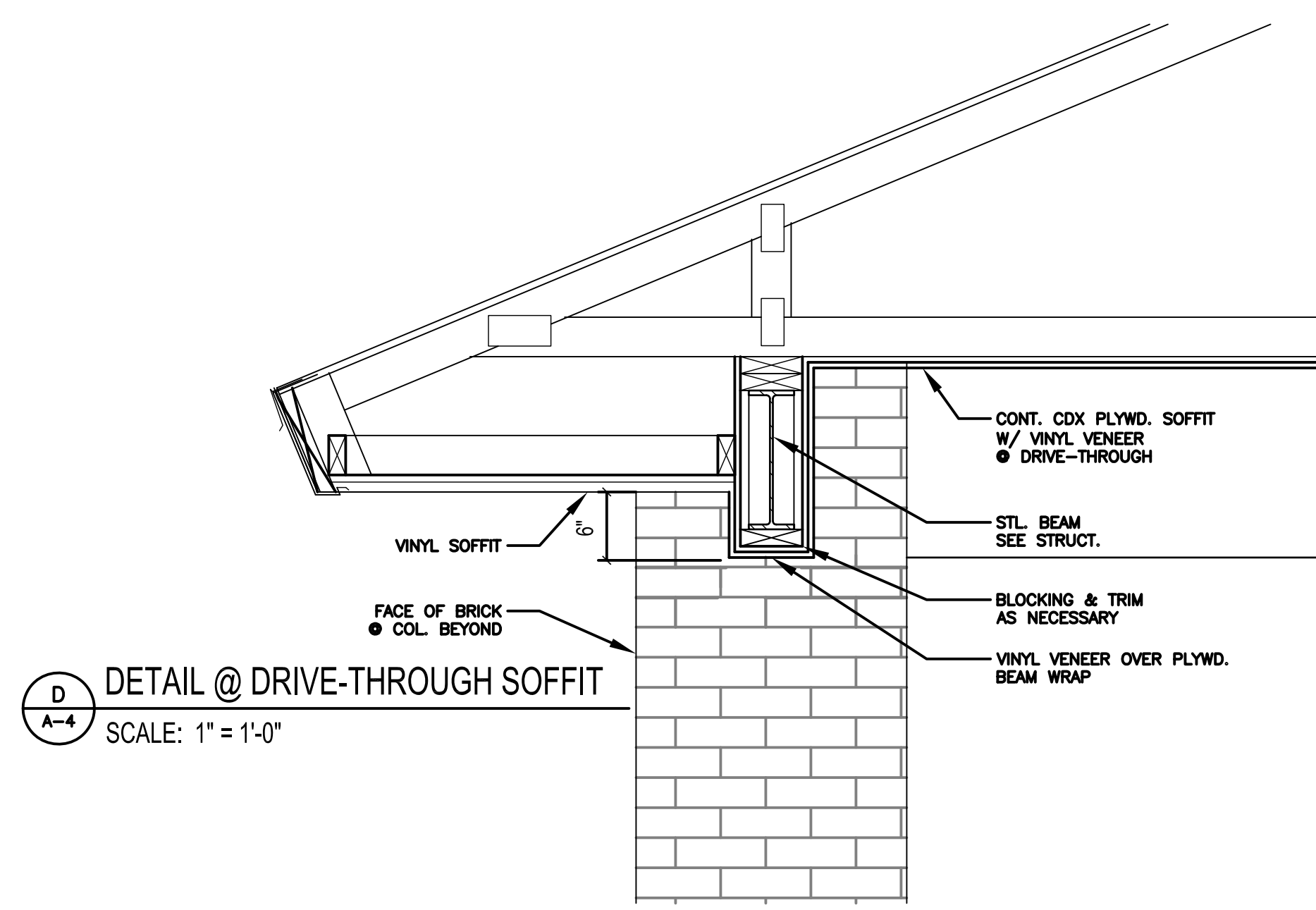
Dwg. No.  
A-4



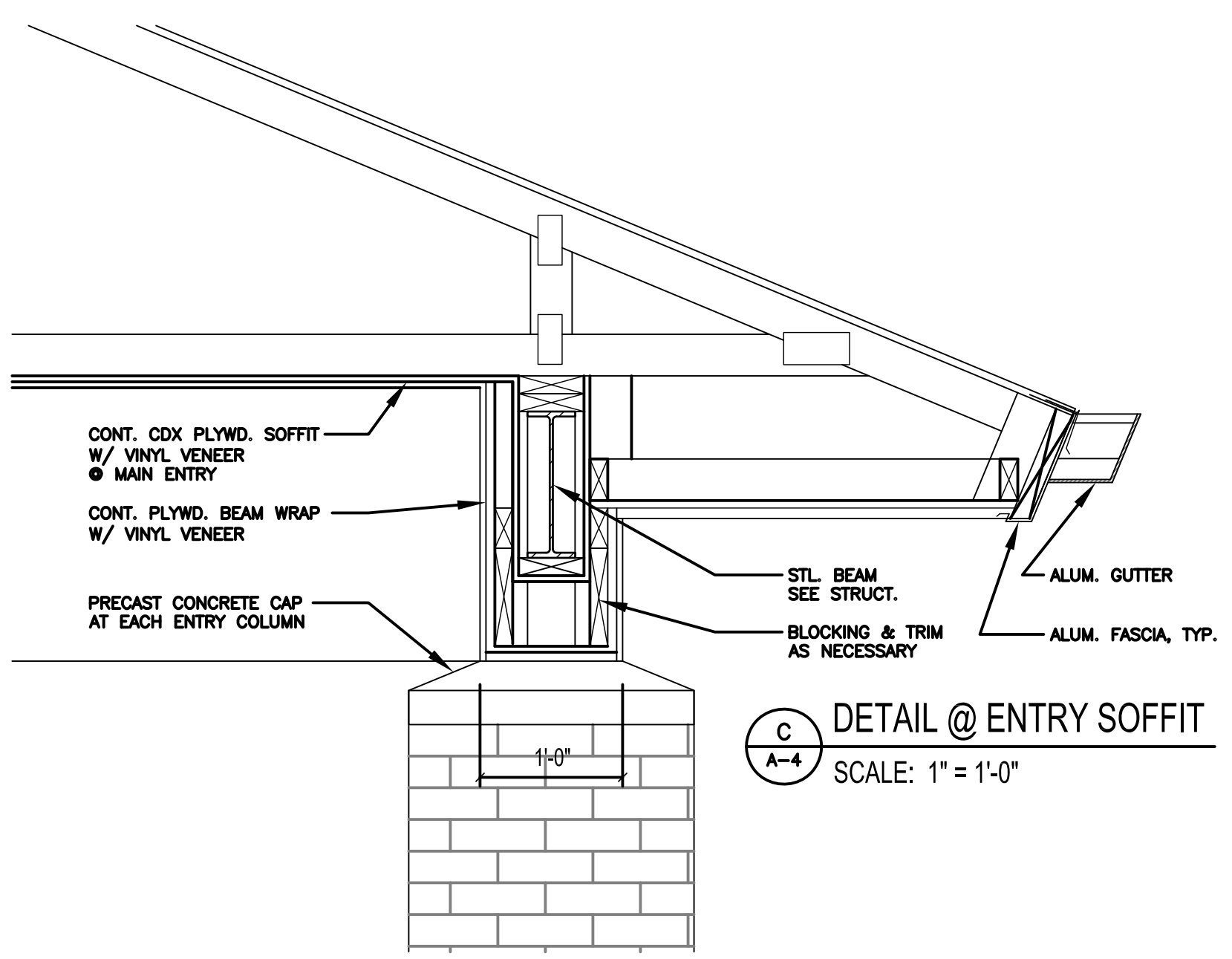
**A** BUILDING SECTION 'A'  
SCALE: 1/4" = 1'-0"



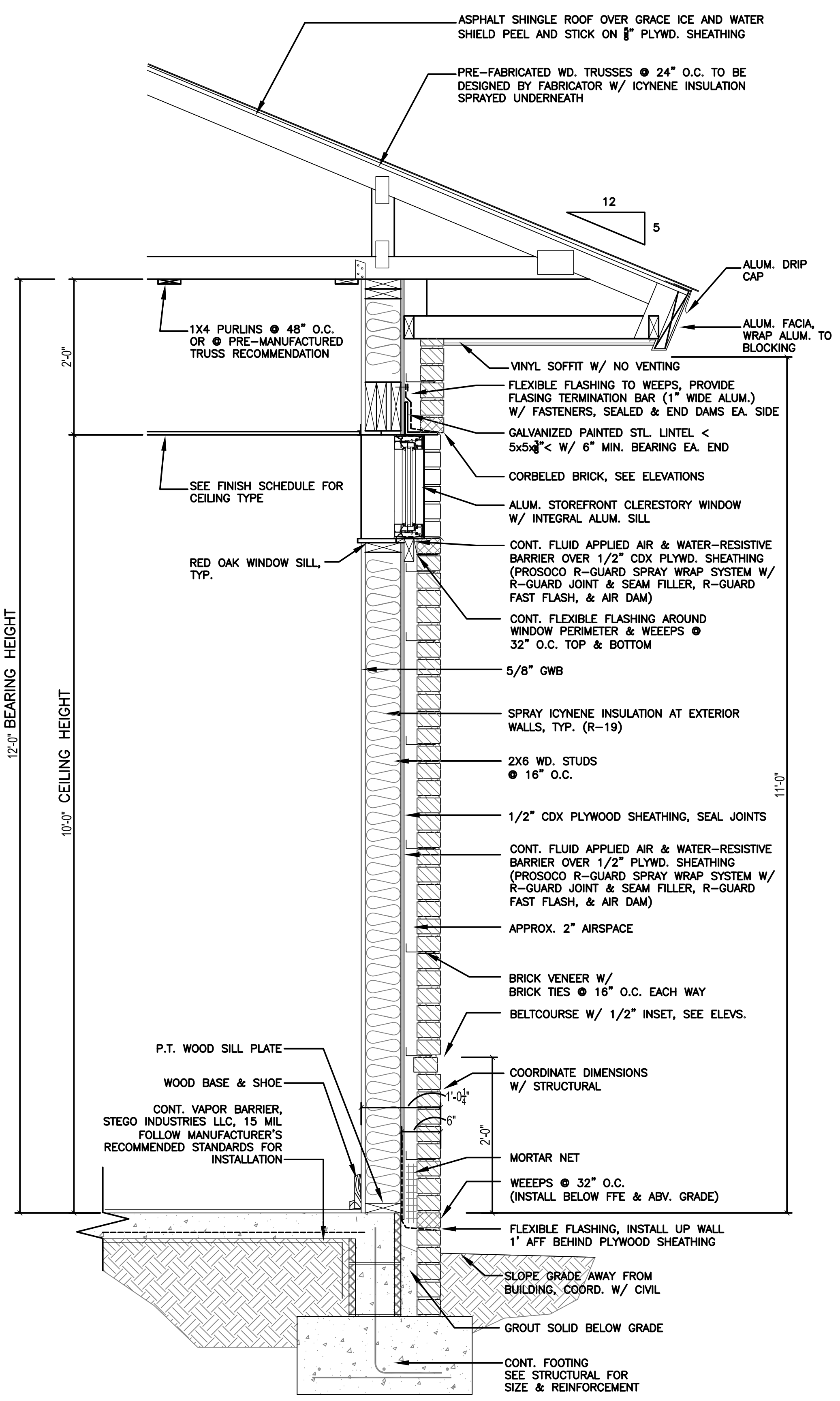
**B** BUILDING SECTION 'B'  
SCALE: 1/4" = 1'-0"



**D** DETAIL @ DRIVE-THROUGH SOFFIT  
SCALE: 1" = 1'-0"

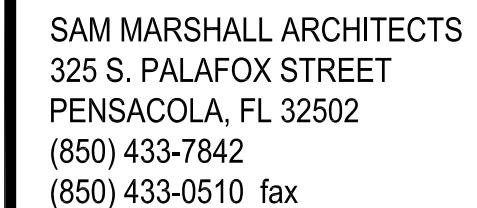


**C** DETAIL @ ENTRY SOFFIT  
SCALE: 1" = 1'-0"



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





Dwg. No. **A-5**

REVISIONS		
No.	Description	Date

Title: DOOR & WINDOW ELEVATIONS & SCHEDULES

Scale: As Noted  
Date: December 7, 201  
Drawn By: JF  
Checked By: DA  
Approved By: DA

Dwg. No.



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



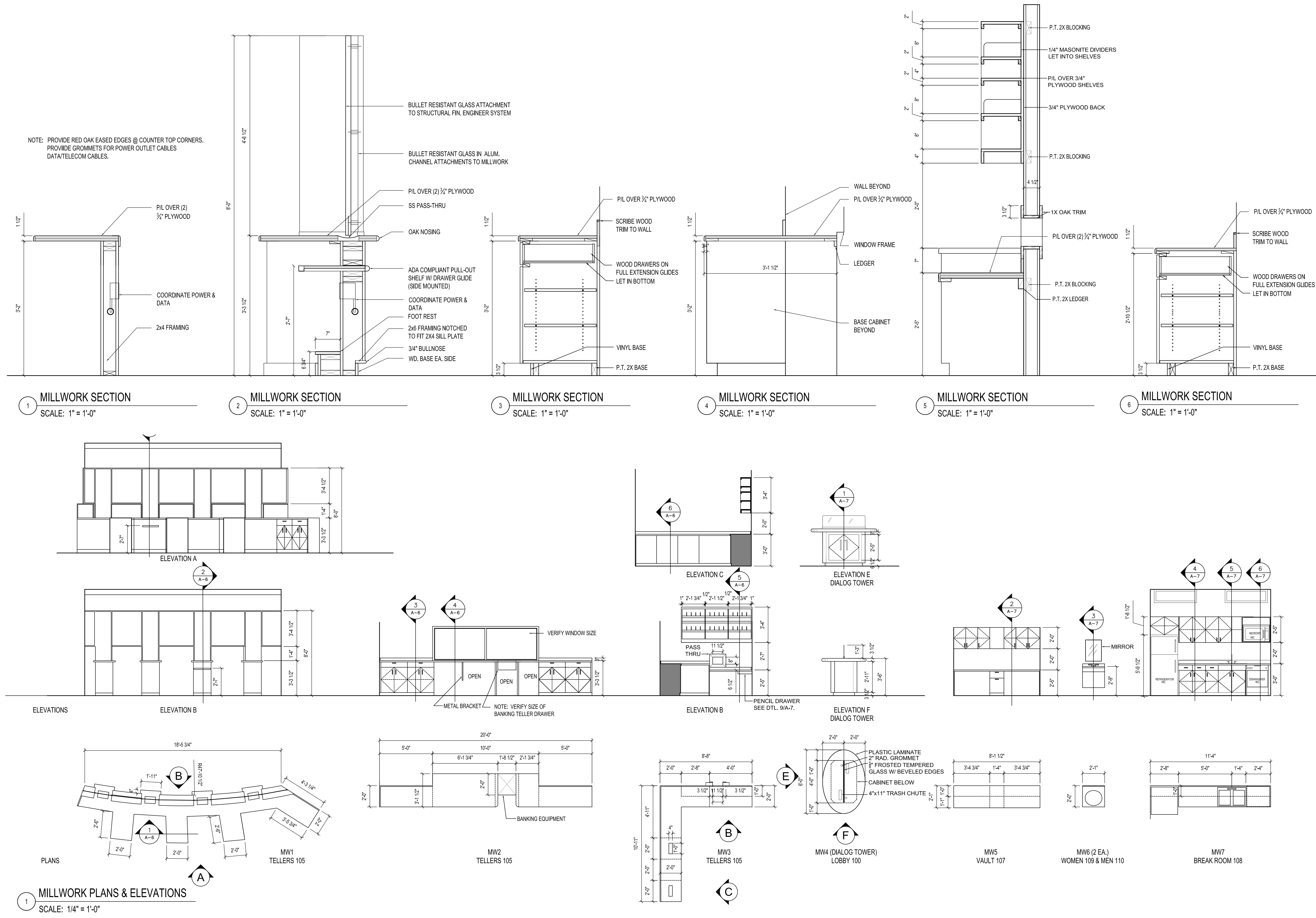
SCALE: 1/4" = 1'-0"



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

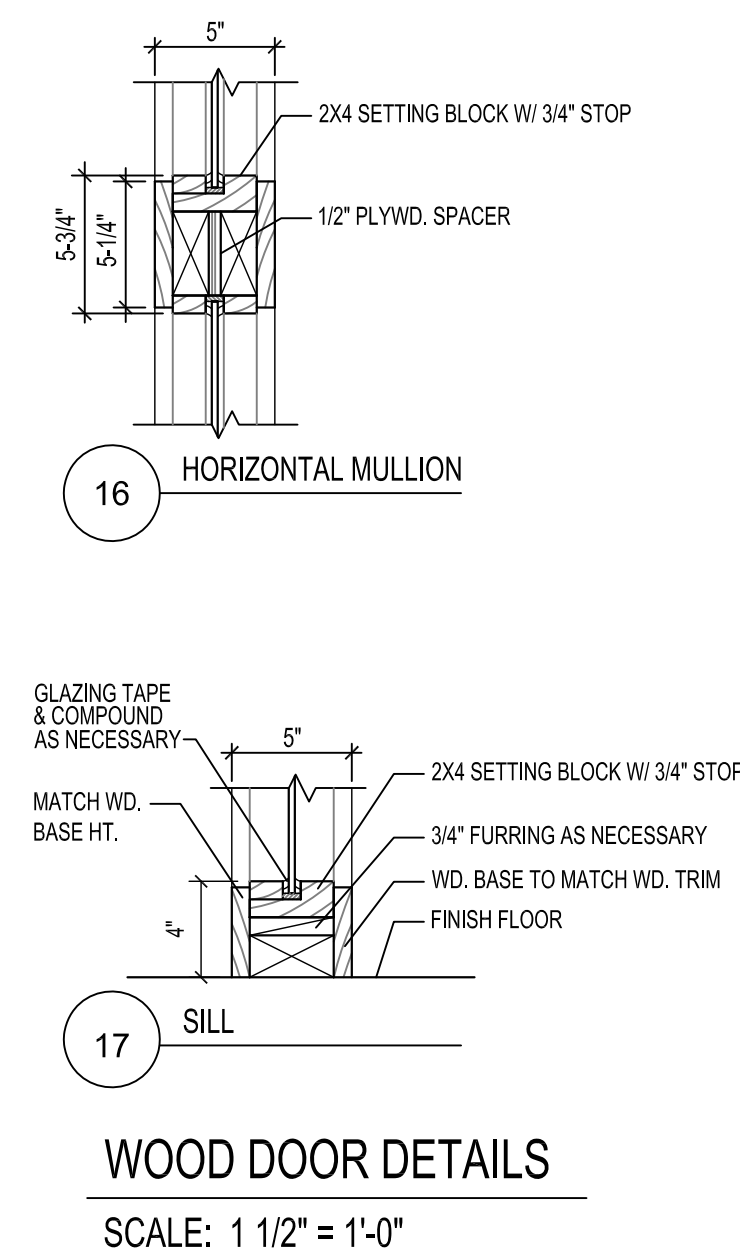
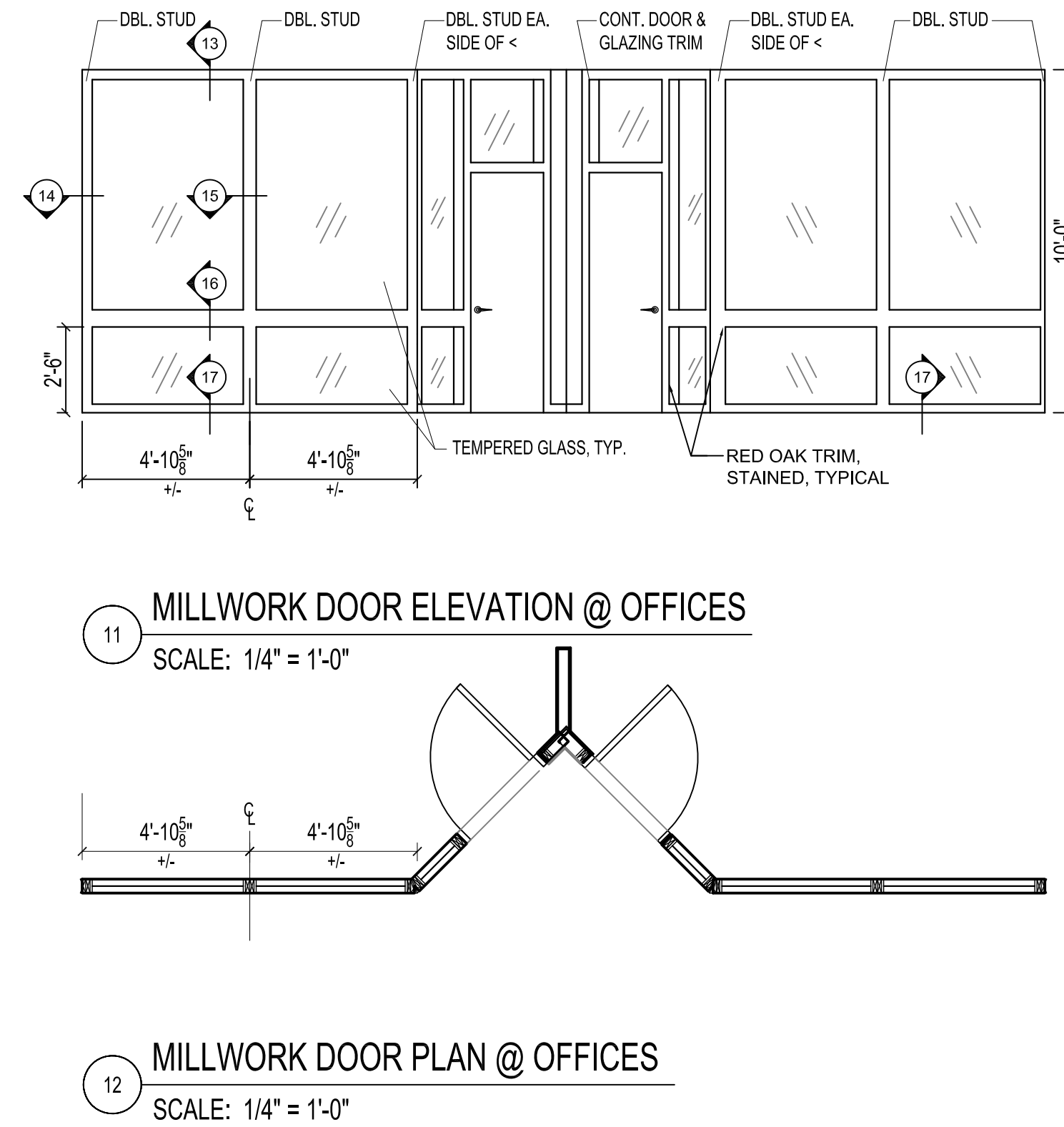
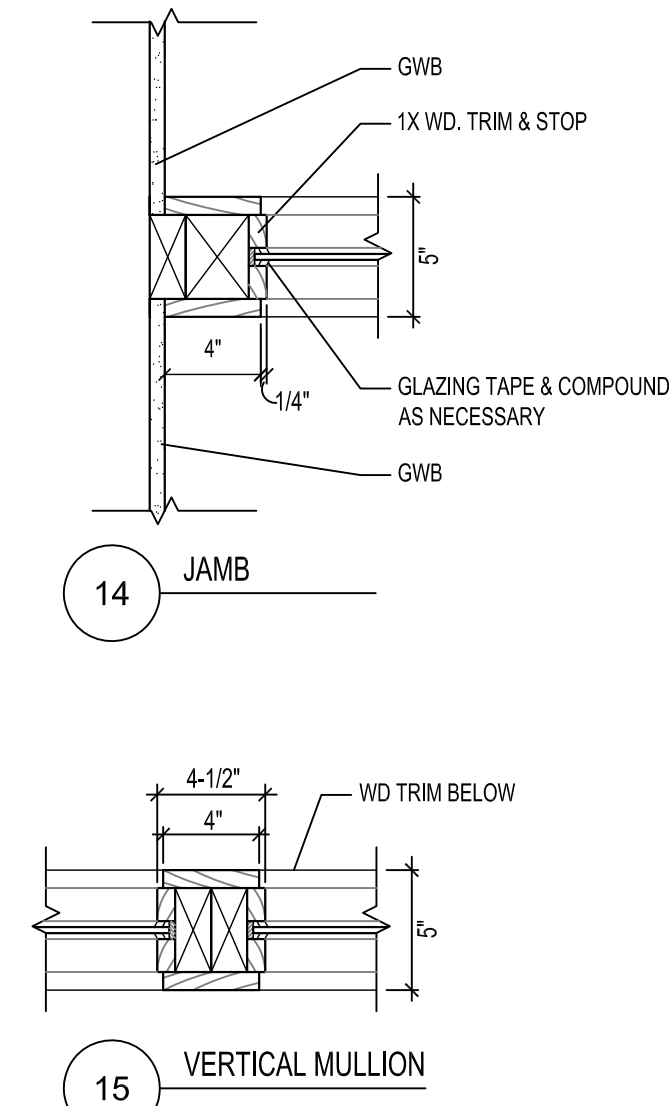
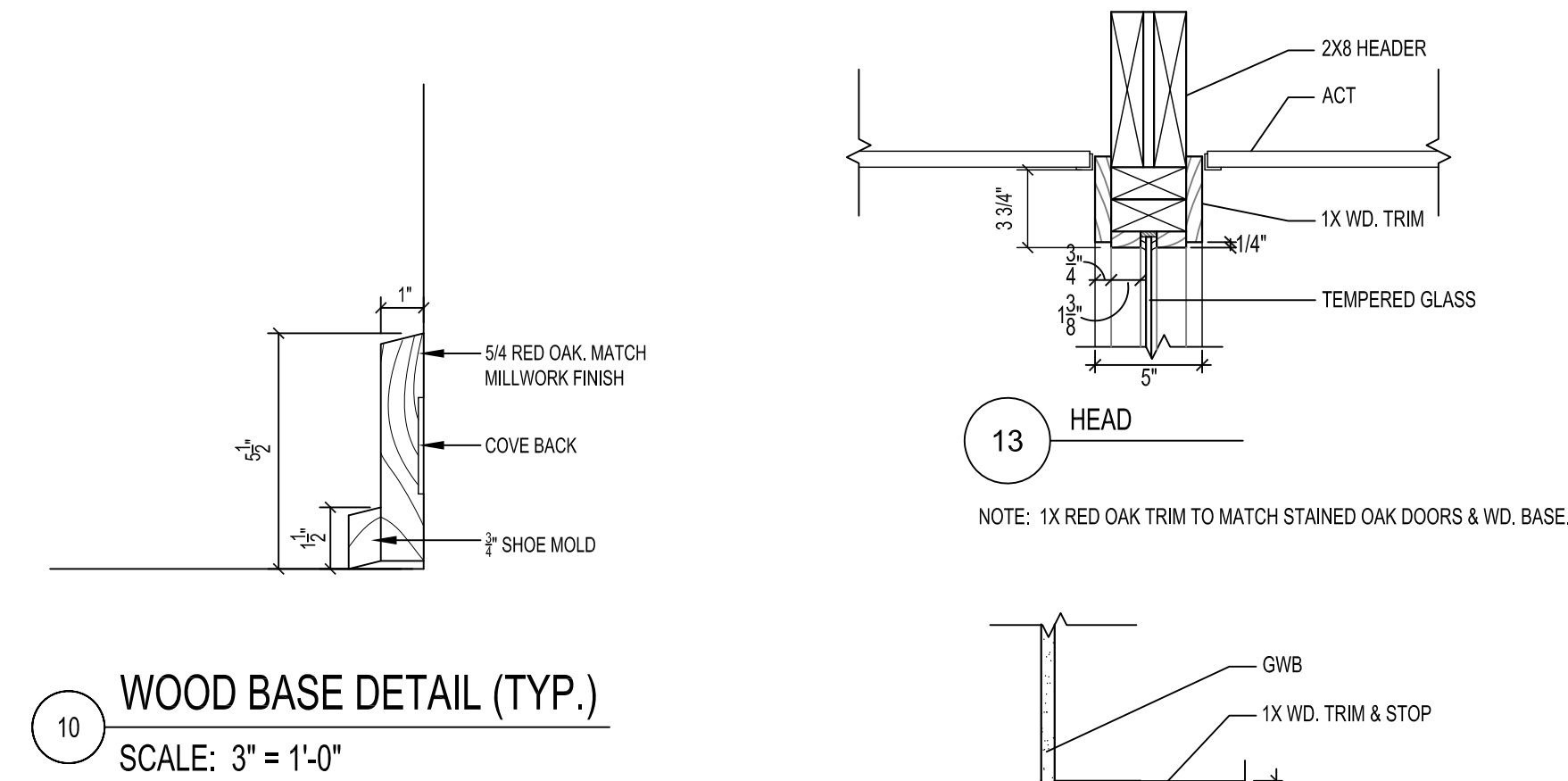
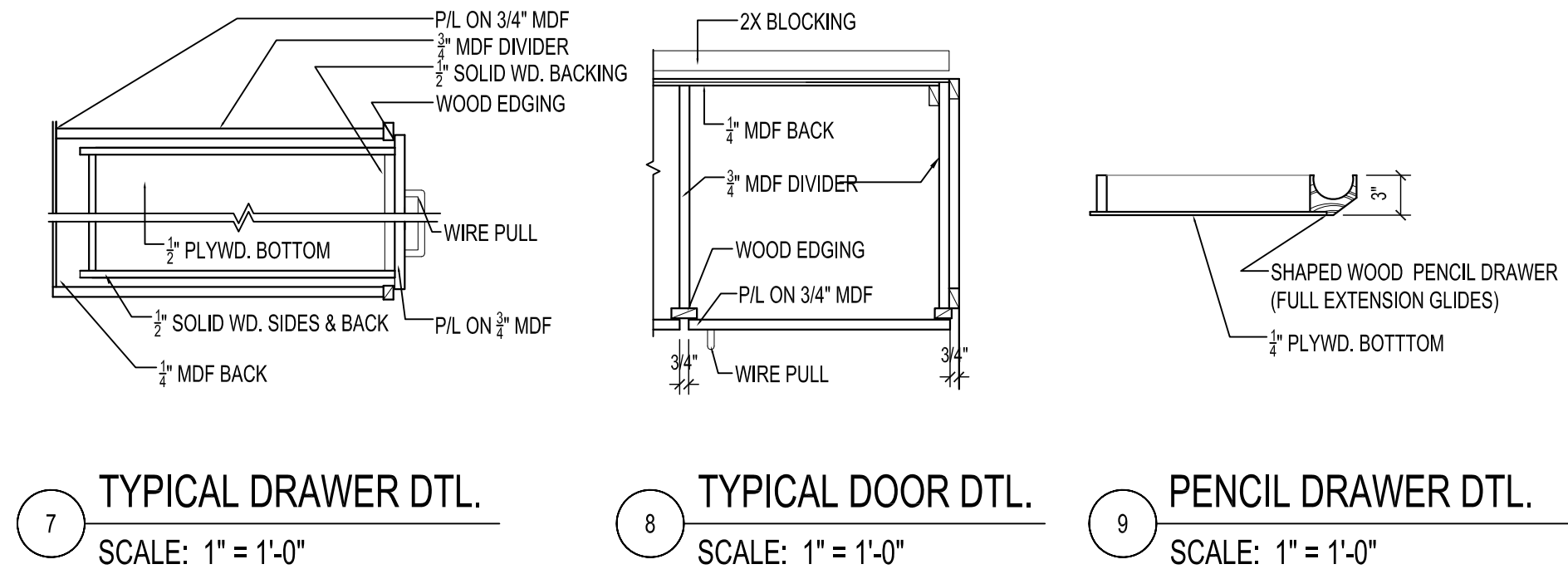
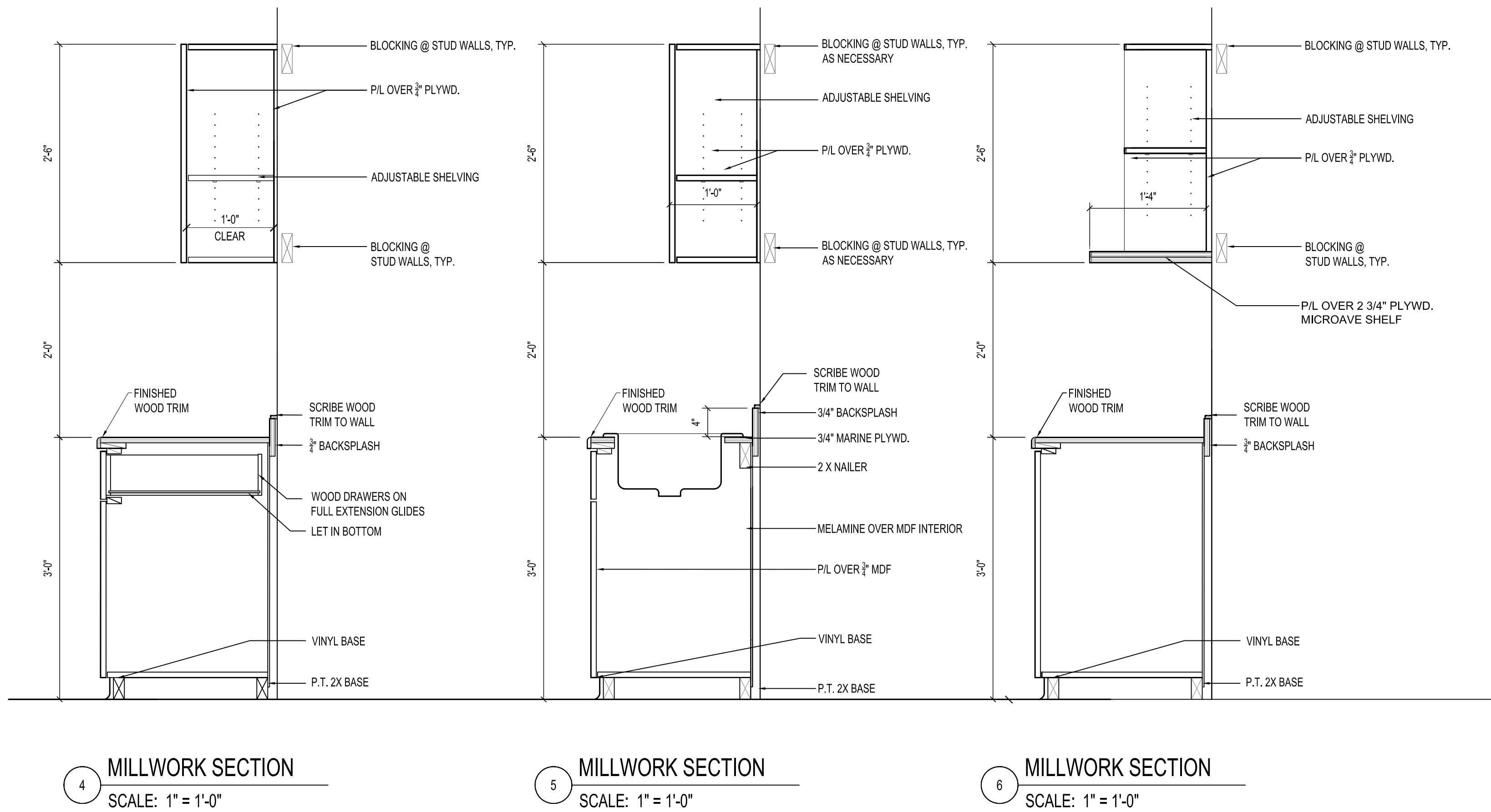
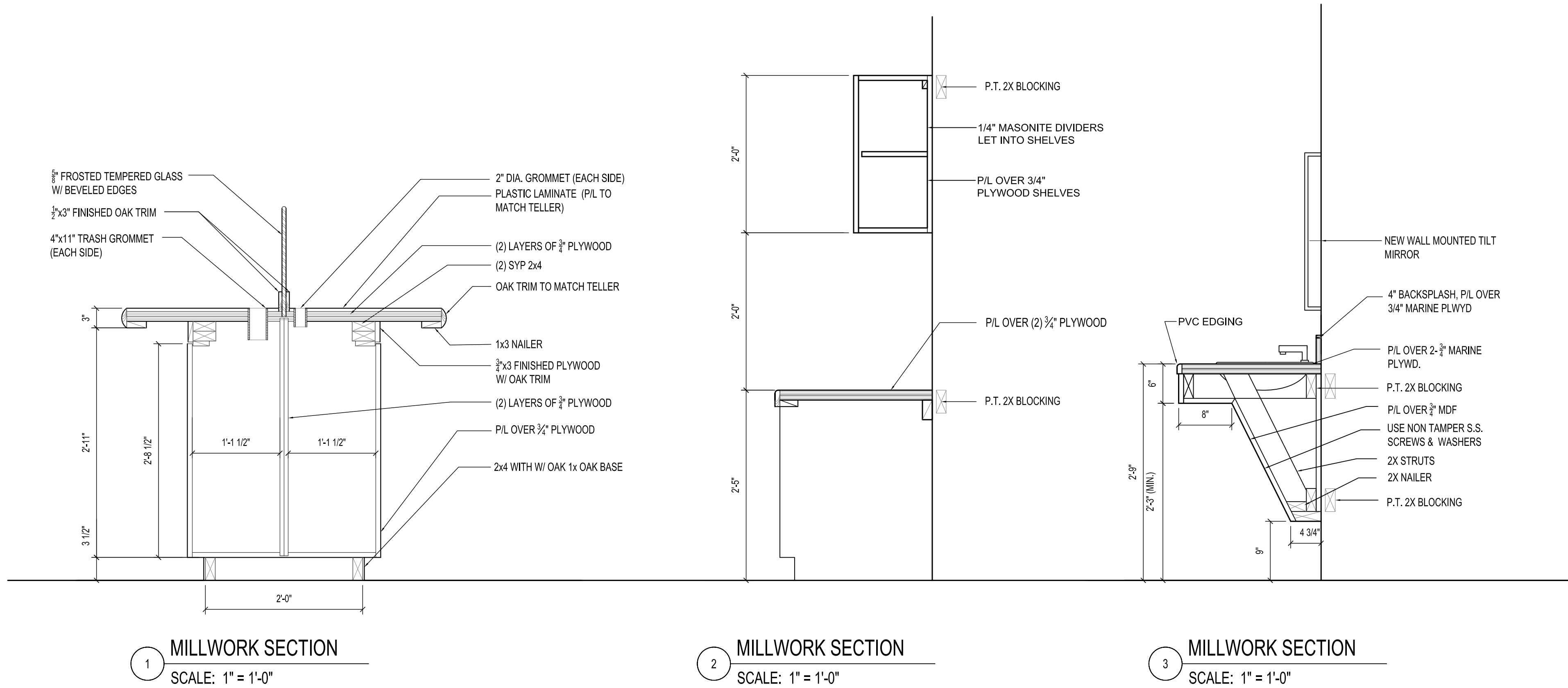
**CENTRAL CREDIT UNION OF FLORIDA**  
**PANAMA CITY SERVICE BRANCH**

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Checked By:		DA
Approved By:		DA
Dwg. No.		A-6





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Approved By:	DA	
Dwg. No.		
A-7		

SHOP—FABRICATED WOOD TRUSSES SPECS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Wood roof trusses.
  2. Wood girder trusses.
  3. Wood truss bracing.
  4. Metal truss accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: For metal—plate connectors, metal truss accessories, and fasteners.
- B. Shop Drawings: Show fabrication and installation details for trusses.
1. Show location, pitch, span, camber, configuration, and spacing for each type of truss required.
  2. Indicate sizes, stress grades, and species of lumber.
  3. Indicate locations, sizes, and materials for permanent bracing required to prevent buckling of individual truss members due to design loads.
  4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
  5. Show splice details and bearing details.
- C. Delegated—Design Submittal: For metal—plate—connected wood trusses indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Evaluation Reports: For the following, from ICC—ES:
1. Metal—plate connectors.
  2. Metal truss accessories.

1.4 QUALITY ASSURANCE

- A. Metal Connector—Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality—control procedures in TPI 1 for manufacture of connector plates.
1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
  2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.
- B. Fabricator Qualifications: Shop that participates in a recognized quality—assurance program that complies with quality—control procedures in TPI 1.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Handle and store trusses to comply with recommendations in TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses."

PART 2 – PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer to design metal—plate—connected wood trusses.
- B. Structural Performance: Provide metal—plate—connected wood trusses capable of withstanding design loads within limits and under conditions indicated. Comply with requirements in TPI 1 unless more stringent requirements are specified below.

2.2 DIMENSION LUMBER

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
- C. Permanent Bracing: Provide wood bracing that complies no. 2 grade southern yellow pine.

2.3 METAL CONNECTOR PLATES

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Alpine Engineered Products, Inc.; an ITW company.
  2. Cherokee Metal Products, Inc.; Masengill Machinery Company.
  3. CompuTrus, Inc.
  4. Eagle Metal Products.
  5. Jager Building Systems, Inc.; a Tembec/SGF Rexfor company.
  6. MiTek Industries, Inc.; a subsidiary of Berkshire Hathaway Inc.
  7. Robbins Engineering, Inc.
  8. Truswal Systems Corporation; an ITW company.
- B. General: Fabricate connector plates to comply with TPI 1.
- C. Hot—Dip Galvanized—Steel Sheet: ASTM A 653/A 653M; Structural Steel (SS), high—strength low—alloy steel Type A (HSLAS Type A), or high—strength low—alloy steel Type B (HSLAS Type B); G60 (Z180) coating designation; and not less than 0.036 inch (0.9 mm) thick.

2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. Provide fasteners for use with metal framing anchors that comply with written recommendations of metal framing manufacturer.
  2. Where trusses are exposed to weather, in ground contact, made from pressure—preservative treated wood, or in area of high relative humidity, provide fasteners with hot—dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.

2.5 METAL FRAMING ANCHORS AND ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
- B. Basis—of—Design Product: Subject to compliance with requirements, provide product by Simpson Strong—Tie Co., Inc. indicated on drawings or comparable product by USP Structural Connectors.
- C. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those of basis—of—design products. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
- D. Galvanized—Steel Sheet: Hot—dip, zinc—coated steel sheet complying with ASTM A 653/A 653M, G185 (1.85 oz per sq ft zinc) coating designation.

2.6 FABRICATION

- A. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.
1. Fabricate wood trusses within manufacturing tolerances in TPI 1.
- B. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install wood trusses only after supporting construction is in place and is braced and secured.
- B. If trusses are delivered to Project site in more than one piece, assemble trusses before installing.
- C. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out—of—plane bending or other causes.
- D. Install and brace trusses according to TPI recommendations and as indicated.
- E. Anchor trusses securely at bearing points; use metal truss tie—downs or floor truss hangers as applicable. Install fasteners through each fastener hole in metal framing anchors according to manufacturer's fastening schedules and written instructions.
- F. Securely connect each truss ply required for forming built—up girder trusses.
- G. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
- H. Install wood trusses within installation tolerances in TPI 1.
- I. Do not alter trusses in field. Do not cut, drill, notch, or remove truss members.
- J. Replace wood trusses that are damaged or do not meet requirements.

ULTIMATE WIND LOAD PRESSURE TABLES

ROOF C&C ULTIMATE WIND PRESSURE (PSF)								
EFFECTIVE AREA OF ROOF COMPONENT	ROOF ZONE 1		ROOF ZONE 2		ROOF ZONE 3		ROOF OVERHANG ZONE 2   ZONE 3	
10 SQ FT	24	–38	24	–65	24	–65	–76	–76
20 SQ FT	22	–37	22	–60	22	–60	–76	–76
50 SQ FT	19	–35	19	–53	19	–53	–76	–76
100 SQ FT	17	–34	17	–48	17	–48	–76	–76

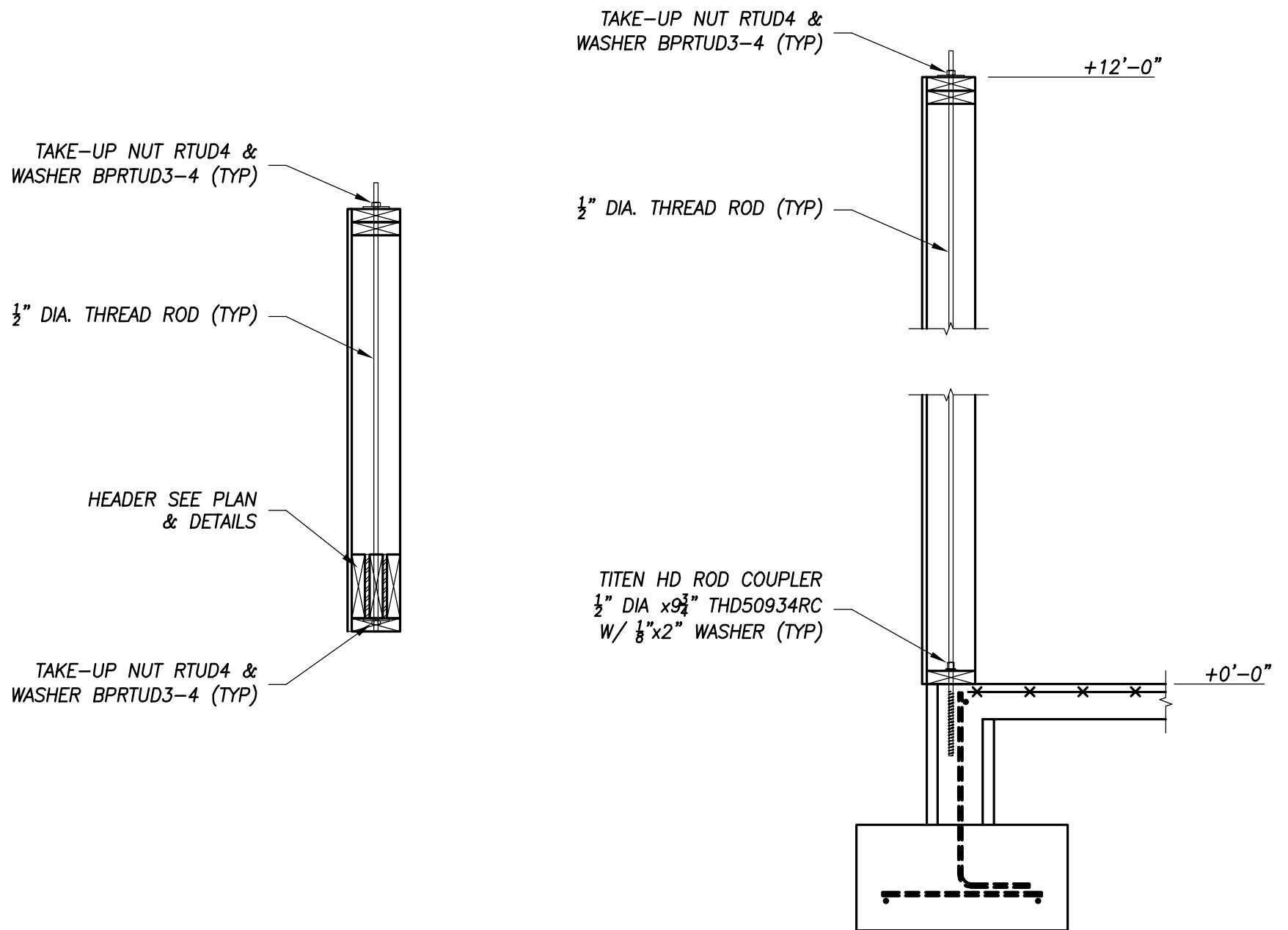
WALL C&C ULTIMATE WIND PRESSURE (PSF)				
EFFECTIVE AREA OF DOOR/ WINDOW	INTERIOR ZONE 4		END ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION
10 SQ FT	41	–45	41	–55
20 SQ FT	40	–43	40	–51
50 SQ FT	37	–41	37	–46
100 SQ FT	35	–39	35	–43
200 SQ FT	33	–37	33	–39
500 SQ FT	31	–34	31	–34

NOTES:

LINEAR INTERPOLATION FOR INTERMEDIATE VALUES OF EFFECTIVE AREAS IS ACCEPTABLE. OTHERWISE, USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

ULTIMATE WIND LOAD PRESSURES ARE FOR USE IN LOAD COMBINATIONS LISTED IN FBC 2010 AND ASCE 7–10. THESE COMBINATIONS INCLUDE A WIND LOAD FACTOR OF 0.6 USING ALLOWABLE STRESS DESIGN. AS A RESULT, ULTIMATE PRESSURES LISTED IN THE LOAD TABLES ABOVE ARE REDUCED 40% USING ALLOWABLE STRESS DESIGN. REDUCED LOADS ARE THE "WORKING LOADS."

WIND PRESSURE ZONES 2, 3 & 5 ARE EDGE AND CORNER ZONES. WALL ZONE 5 IS WITHIN 7'–0" OF CORNERS. ROOF ZONE 2 IS WITHIN 7'–0" OF ROOF EDGES AND RIDGES. ROOF ZONE 3 IS AT ROOF CORNERS WHERE ZONE 2 OVERLAPS.



ROOF TO HEADER

ROOF TO FOUNDATION

NOTE:  
LOCATE THREADED ROD TIE-DOWNS AT 48" O.C. MAXIMUM,  
WITHIN 16" EACH SIDE OF CORNERS, AS INDICATED ON  
FOUNDATION PLAN AND AS SHOWN ON S-5 OPENING  
DETAILS.

THREADED ROD TIE—DOWN DETAILS

3/4" = 1'–0"

GENERAL NOTES:

1. MATERIALS SPECIFICATIONS:

CONCRETE	3,000 PSI AT 28 DAYS
CONCRETE BLOCK (CMU)	ASTM C90 (f'm = 1,500 PSI)
BLOCK MORTAR	ASTM C270 TYPE S
REINFORCING STEEL	ASTM A615 GRADE 60
WELDED WIRE FABRIC	ASTM A185 (FLAT SHEETS)
STR STEEL (W)	ASTM A992 GRADE 50
STR STEEL (HSS & TS)	ASTM A500 GRADE B
MISC STR STEEL	ASTM A36
THREADED RODS	ASTM A36, A307 OR A193 GRADE B7
HIGH STRENGTH BOLTS	ASTM A325
ANCHOR BOLTS	ASTM A307 OR F1554, GRADE 36
NUTS & WASHERS	ASTM A563 & F436
LUMBER	S4S #2 SOUTHERN YELLOW PINE
LVL	iLEVEL TRUS JOIST 1.9E MICROLAM (Fb = 2600 PSI)
ROOF DECKING	5/8" (3/8" MINIMUM) RATED PLYWOOD DECKING
WALL SHEATHING	1/2" (3/8" MINIMUM) RATED OSB OR PLYWOOD SHEATHING
PLYWOOD	APA RATED EXPOSURE 1, 2 OR EXTERIOR

2. STRUCTURE DESIGNED FOR WIND LOADING IN ACCORDANCE WITH ASCE 7–10 STANDARD CODE AS FOLLOWS:

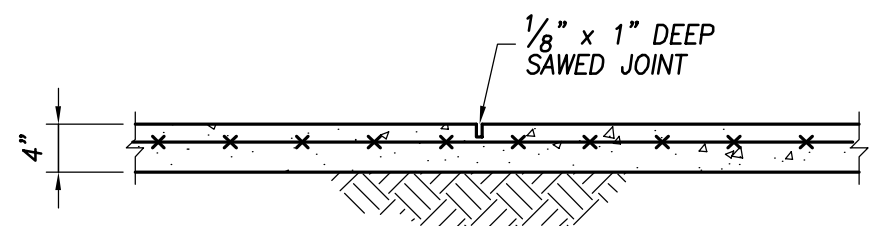
ULTIMATE DESIGN WIND SPEED = 135 MPH  
NOMINAL DESIGN WIND SPEED = 105 MPH  
BUILDING RISK CATEGORY II  
EXPOSURE C  
ENCLOSED BUILDING  
INTERNAL PRESSURE COEFFICIENT = ±0.18

3. THE PRIMARY STRUCTURAL SYSTEM OF THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2010 FBC.

4. ASSUMED ALLOWABLE DESIGN SOIL BEARING PRESSURE IS 2000 PSF. FOUNDATIONS AND FLOOR SLABS SHALL BEAR ON NATURAL GROUND AND ENGINEERED FILL FREE OF ROOTS AND OTHER ORGANIC MATERIALS. ALL FILL MATERIAL SHALL BE SELECT CLEAN STRUCTURAL FILL. PREPARE SUBGRADE AND FILL MATERIAL SOIL IN ACCORDANCE WITH FBC. COMPACT SOIL TO 95% MODIFIED PROCTOR DENSITY MINIMUM. COMPACT FILL MATERIALS IN 6 TO 12 INCH LIFTS MAXIMUM. REFER TO GEOTECHNICAL REPORT PREPARED BY SOUTHERN EARTH SCIENCES, INC. DATED APRIL 27, 2008 FILE NO. P–08–0198.

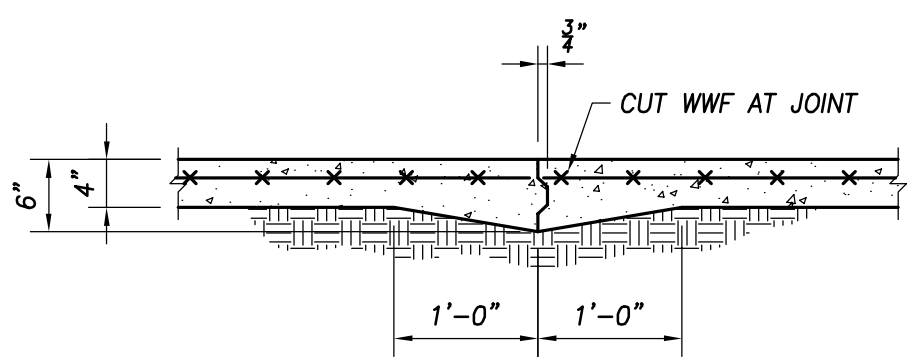
5. PLACE REINFORCING IN CONCRETE WITH A MINIMUM OF 3" CLEAR COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. PROVIDE CORNER BARS FOR ALL CONTINUOUS HORIZONTAL REINFORCING.

6. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE REFERENCED ABOVE (+) OR BELOW (–) FIRST FINISHED FLOOR ELEVATION OF +0'–0". VERIFY ACTUAL FLOOR ELEVATION WITH CIVIL AND ARCHITECTURAL DRAWINGS.



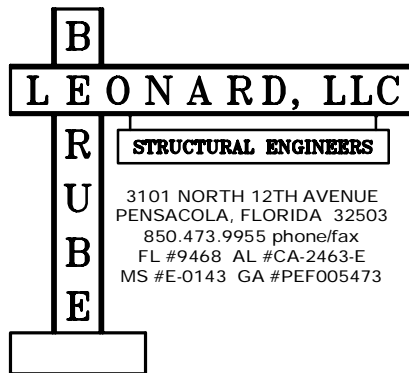
TYPICAL CONTROL JOINT DETAIL

3/4" = 1'–0"



TYPICAL CONSTRUCTION JOINT DETAIL

3/4" = 1'–0"



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Title:  
TRUSS SPECIFICATION  
TYPICAL DETAILS  
GENERAL NOTES &  
WIND LOAD INFO

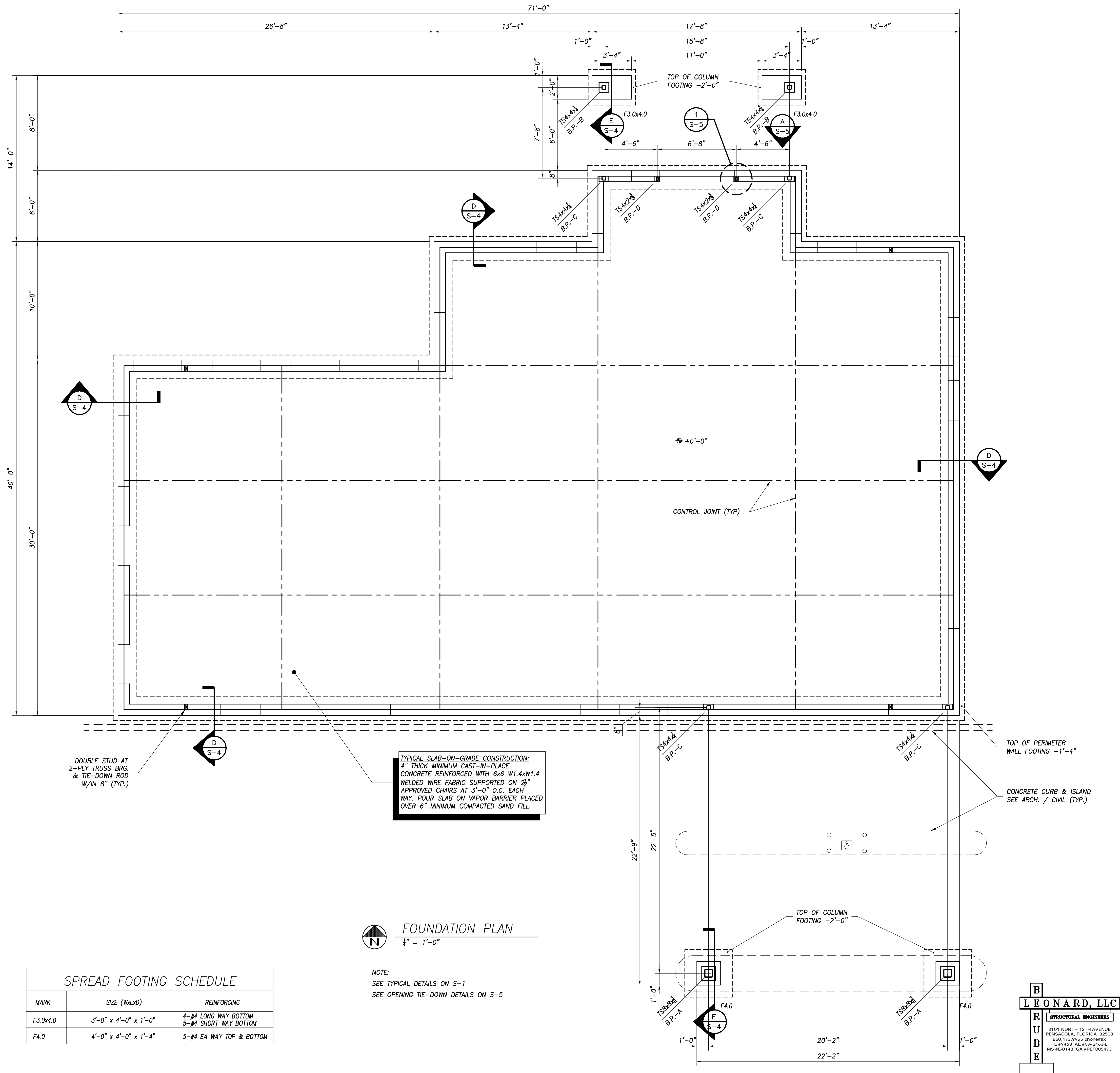
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Approved By:

As Noted  
December 7, 2012  
SWL  
SWL  
BLSE

Dwg. No.

S-1





1. ROOF TRUSS DESIGN LOADS:

TOP CHORD:  
LIVE LOAD 20 PSF (REDUIBLE PER THE FBC 2010)  
DEAD LOAD 10 PSF  
WIND LOAD (SEE ULTIMATE WIND LOAD PRESSURE TABLE & GENERAL NOTES S-1)

BOTTOM CHORD:  
DEAD LOAD 10 PSF  
LIVE LOAD 0 PSF

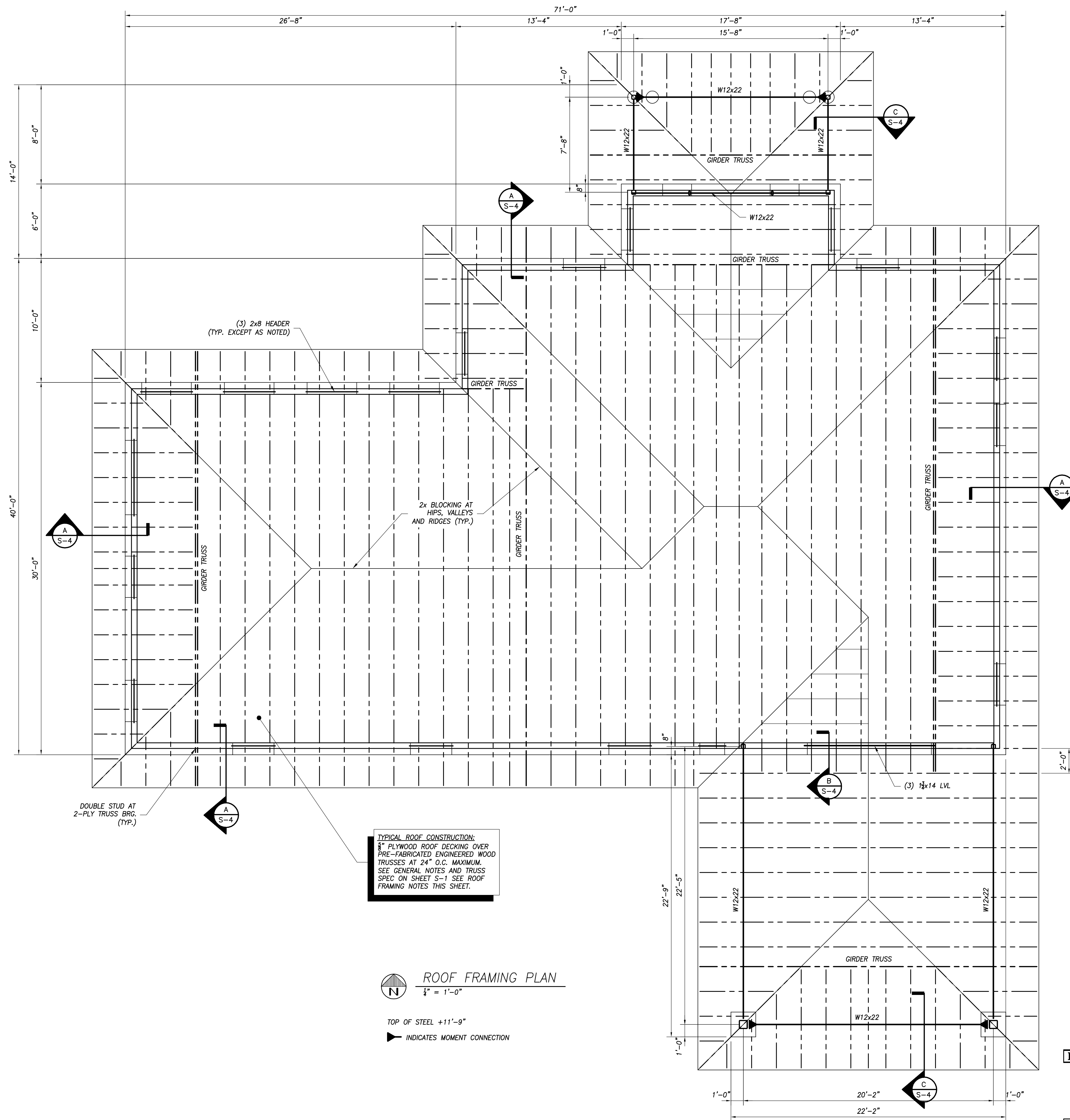
2. PREFABRICATED ENGINEERED ROOF TRUSSES: SEE SPECS ON SHEET S-1.

3. FRAMING CONNECTORS SHALL BE SIMPSON STRONG-TIE MODELS SPECIFIED OR EQUIVALENT INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS WITH THE SIZE AND QUANTITY OF FASTENERS REQUIRED TO ACHIEVE MAXIMUM LOAD CAPACITY. HOT-DIP GALVANIZE COATING MINIMUM FOR CONNECTORS AND FASTENERS ANCHORED TO PRESSURE TREATED (PT) WOOD.

4. FASTEN  $\frac{5}{8}$ " PLYWOOD ROOF DECKING TO TRUSSES WITH 10d COMMON NAILS AT 6" O ALL SUPPORTS, EDGES AND INTERMEDIATE.

5. COMPLY WITH MINIMUM FASTENER REQUIREMENTS IN FBC 2010 SECTION 2304.9 CONNECTIONS AND FASTENERS FOR ALL WOOD FRAMING MEMBERS AND AS NOTED AND DETAILED ON PLANS.

6. CAPACITY OF HURRICANE ANCHORS SHOWN ON PLANS SHALL BE VERIFIED WITH TRUSS MANUFACTURER'S REACTIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONNECTOR MEETING UPLIFT REACTIONS PER TRUSS MANUFACTURER'S CALCULATIONS BUT NOT LESS THAN THE CONNECTORS SHOWN ON PLANS.



<u>LOCATION</u>	<u>SIMPSON CONNECTOR</u>	<u>FASTENERS</u>
TRUSS U.N.O.	H10A	9-10dx1½" TRUSS & PLATES
HIP (CORNER) TRUSS	HCP2	6-10dx1½" TRUSS & PLATES
JACK TRUSS	H1	6-8dx1½" TRUSS & 4-8d PLATES
BUILD OVER TRUSS	VTCR AT 24" O.C.	4-SD #9x2½" SUPPORT TRUSS BELOW & 3-SD #9x1½" VALLEY TRUSS
1-PLY GIRDER TRUSS	(2) H10A	9-10dx1½" TRUSS & PLATES EACH
2-PLY GIRDER TRUSS	LGT2 + H10-2	14-16d SINKERS PLATES/STUDS & 16-16d SINKERS TRUSS + 6-10d TRUSS & PLATES


$$\overline{I''} = I' - O''$$

TOP OF STEEL +11'-9"

INDICATES MOMENT CONNECTION



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## ROOF FRAMING PLAN

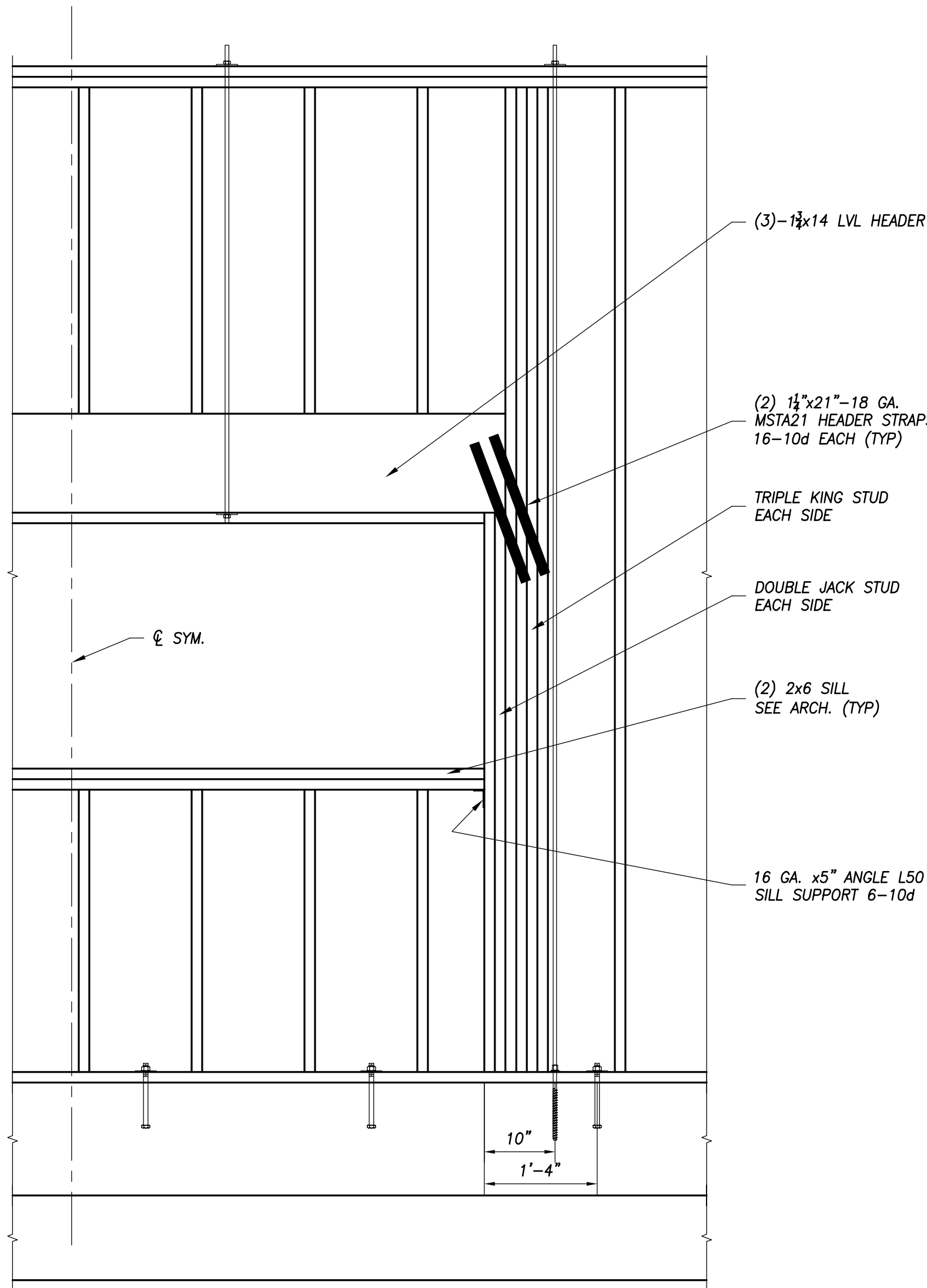
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Date: December 7, 2012  
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Checked By: SWL  
Approved By: BLSE

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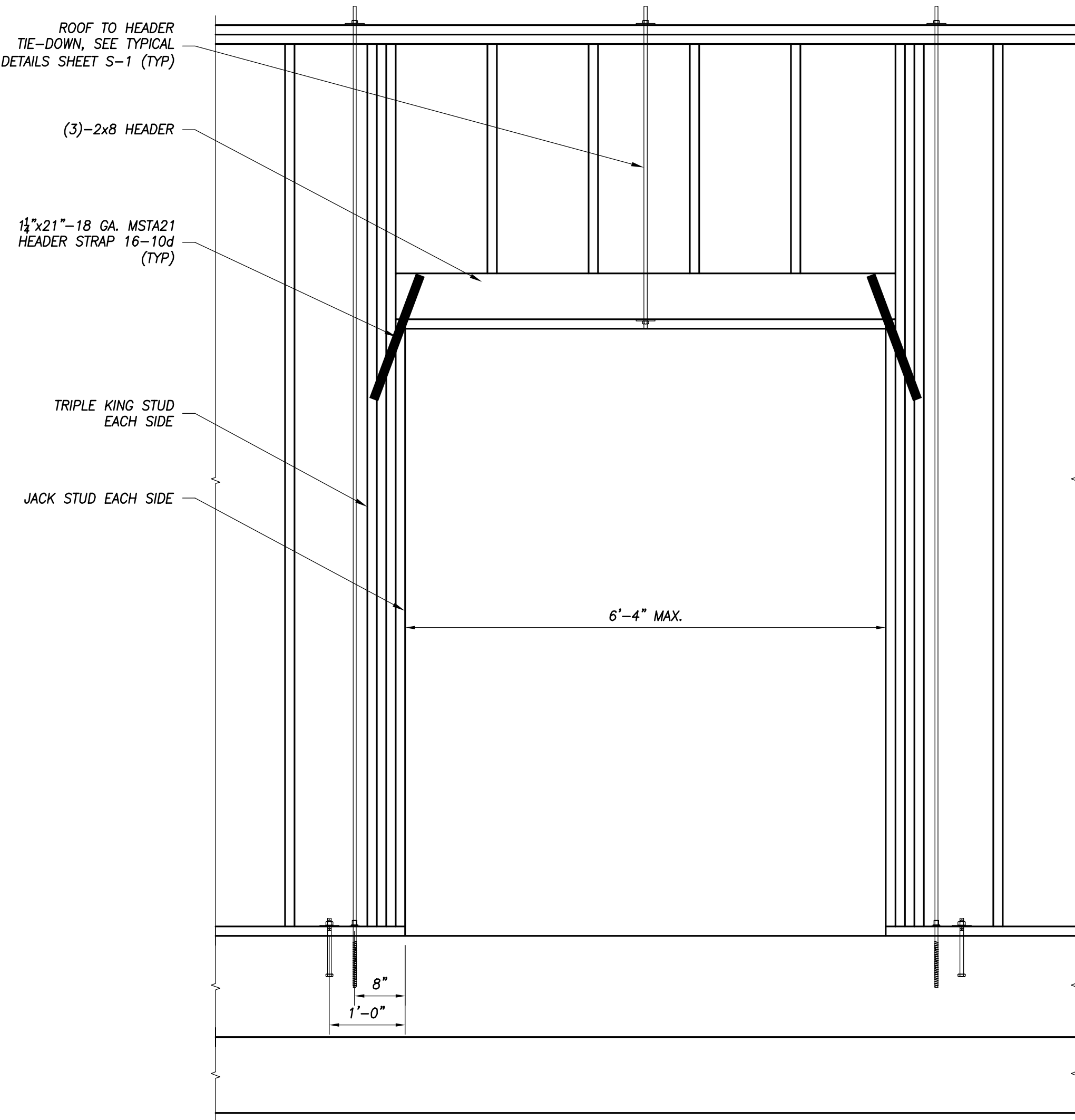
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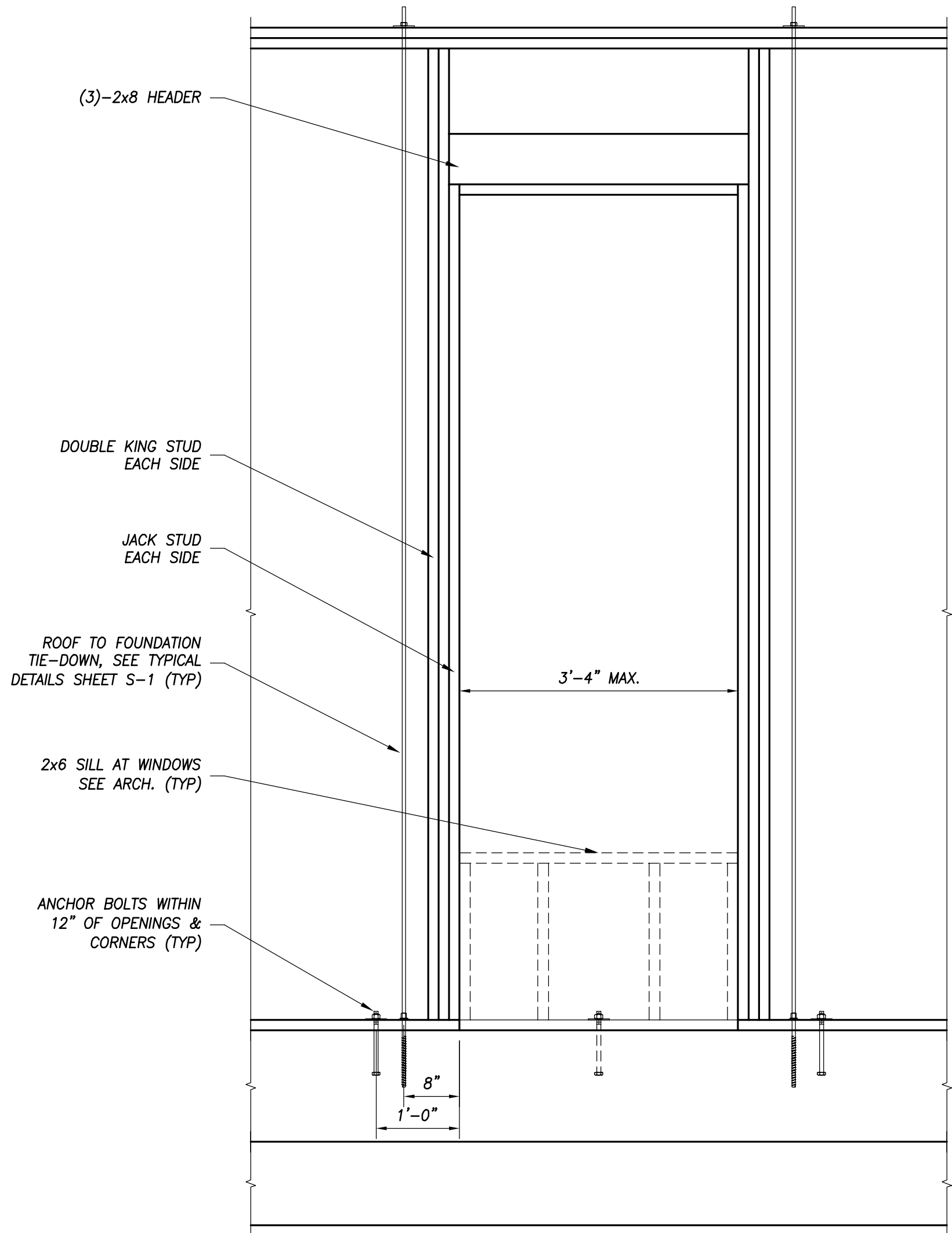




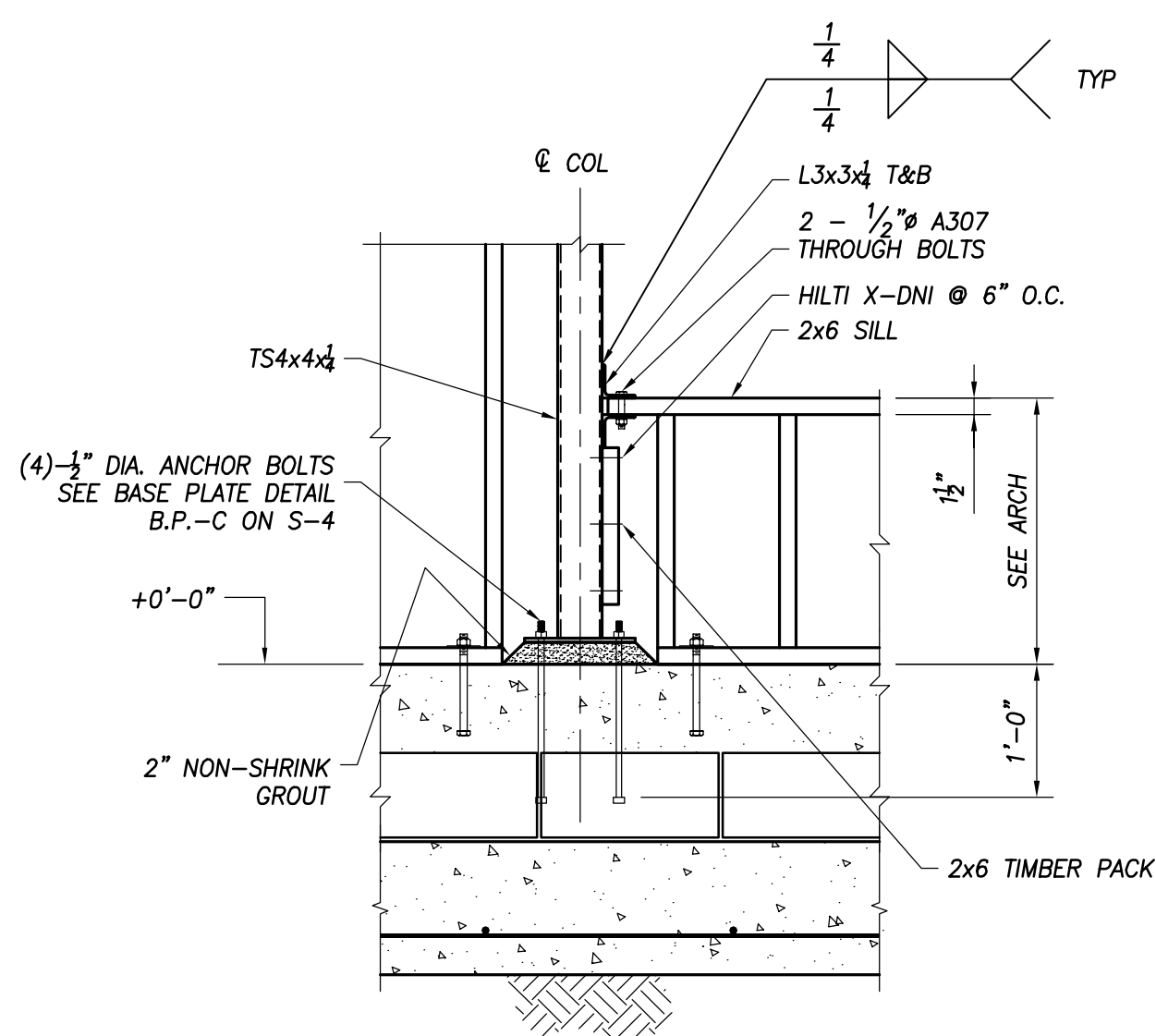
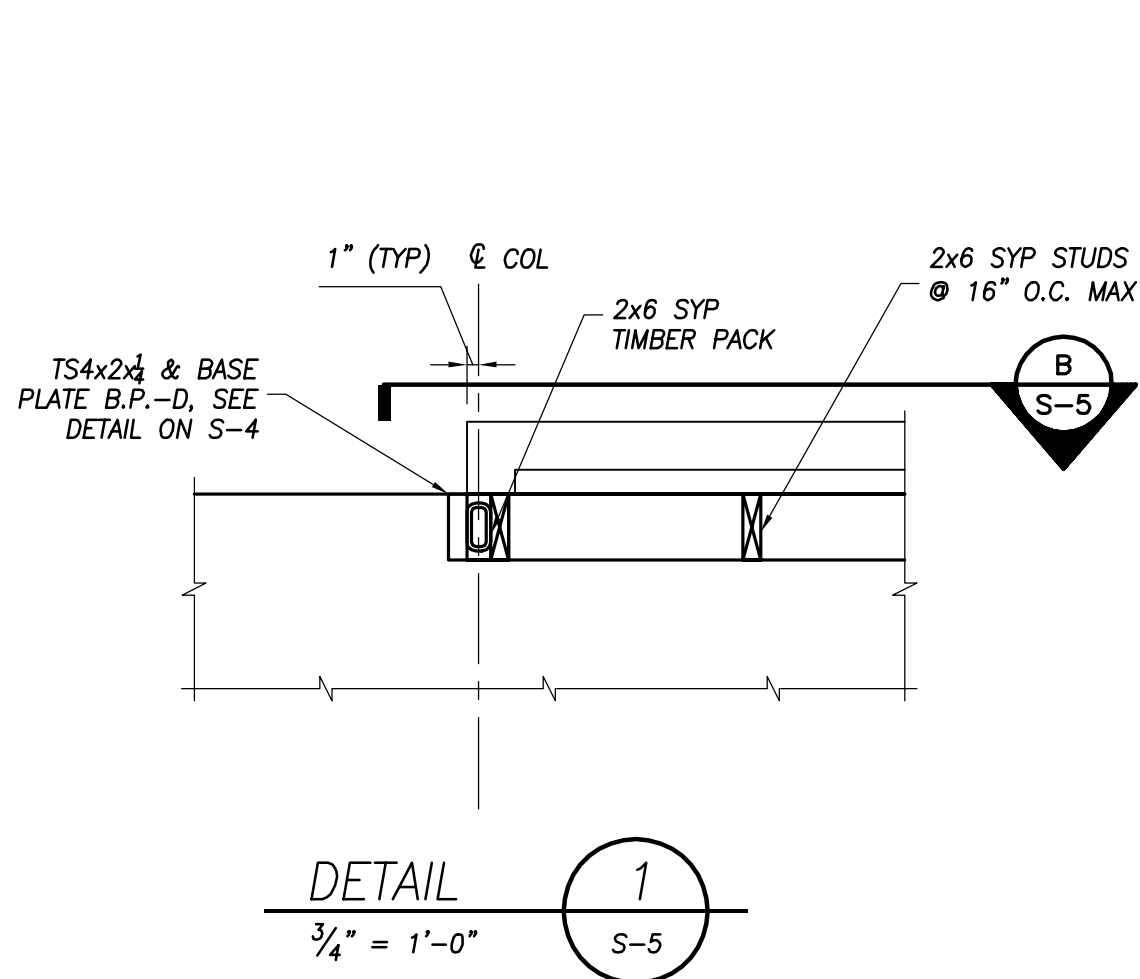
DRIVE UP BANKING WINDOW OPENING LOAD PATH DETAIL  
 $\frac{3}{4}" = 1'-0"$



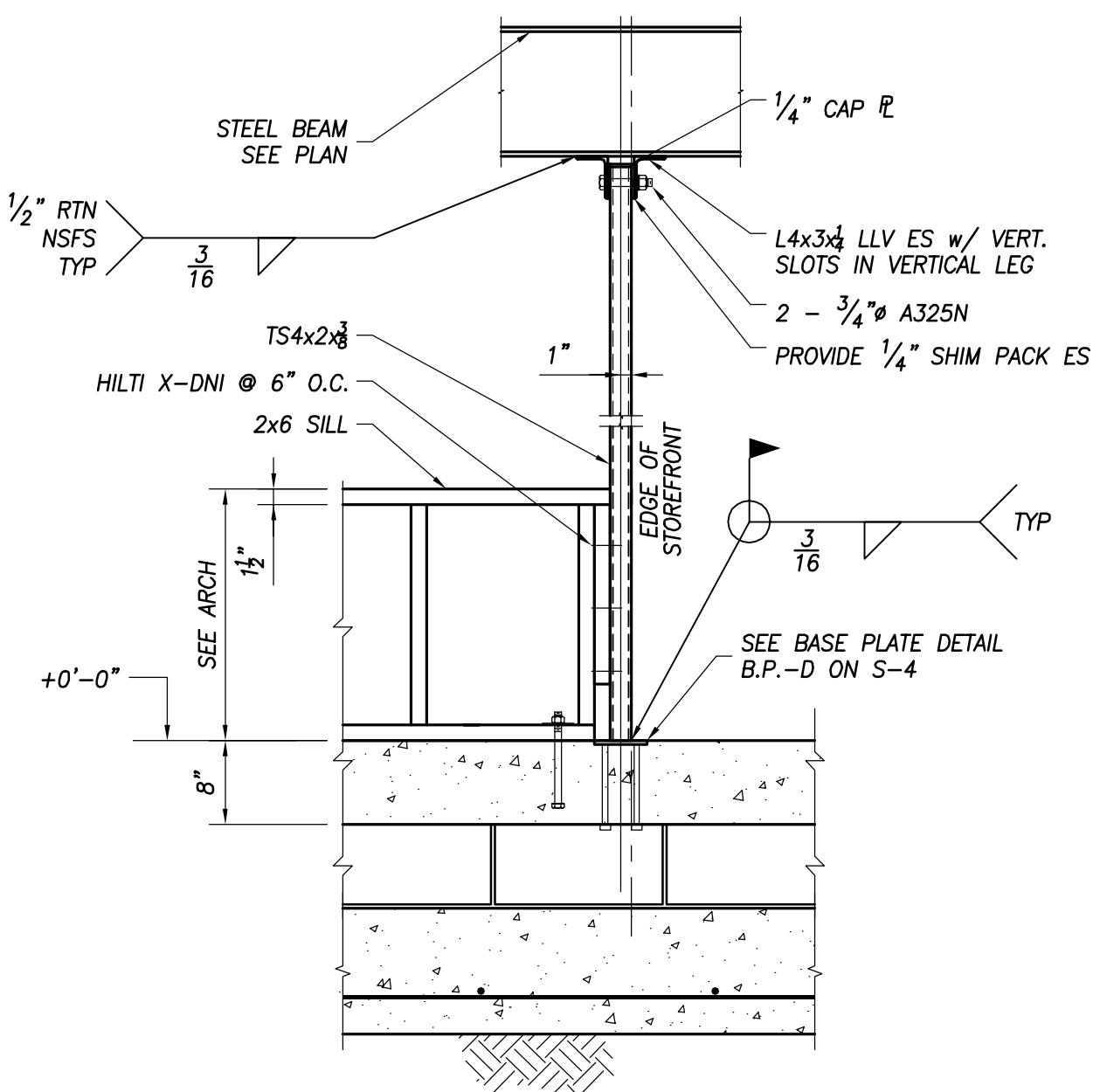
6'-4" OPENING LOAD PATH DETAIL  
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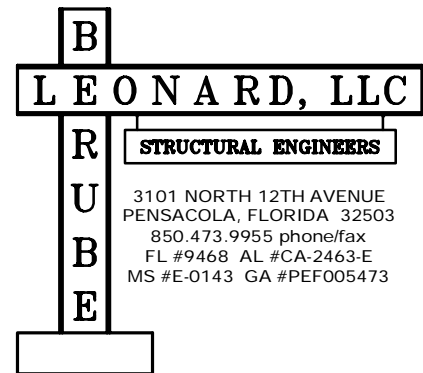
TYPICAL (3'-4") OPENING LOAD PATH DETAIL  
 $\frac{3}{4}" = 1'-0"$



SECTION A  
 $\frac{3}{4}" = 1'-0"$



DETAIL B  
 $\frac{3}{4}" = 1'-0"$



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No.	Description	Date

Title:  
 SECTIONS & DETAILS

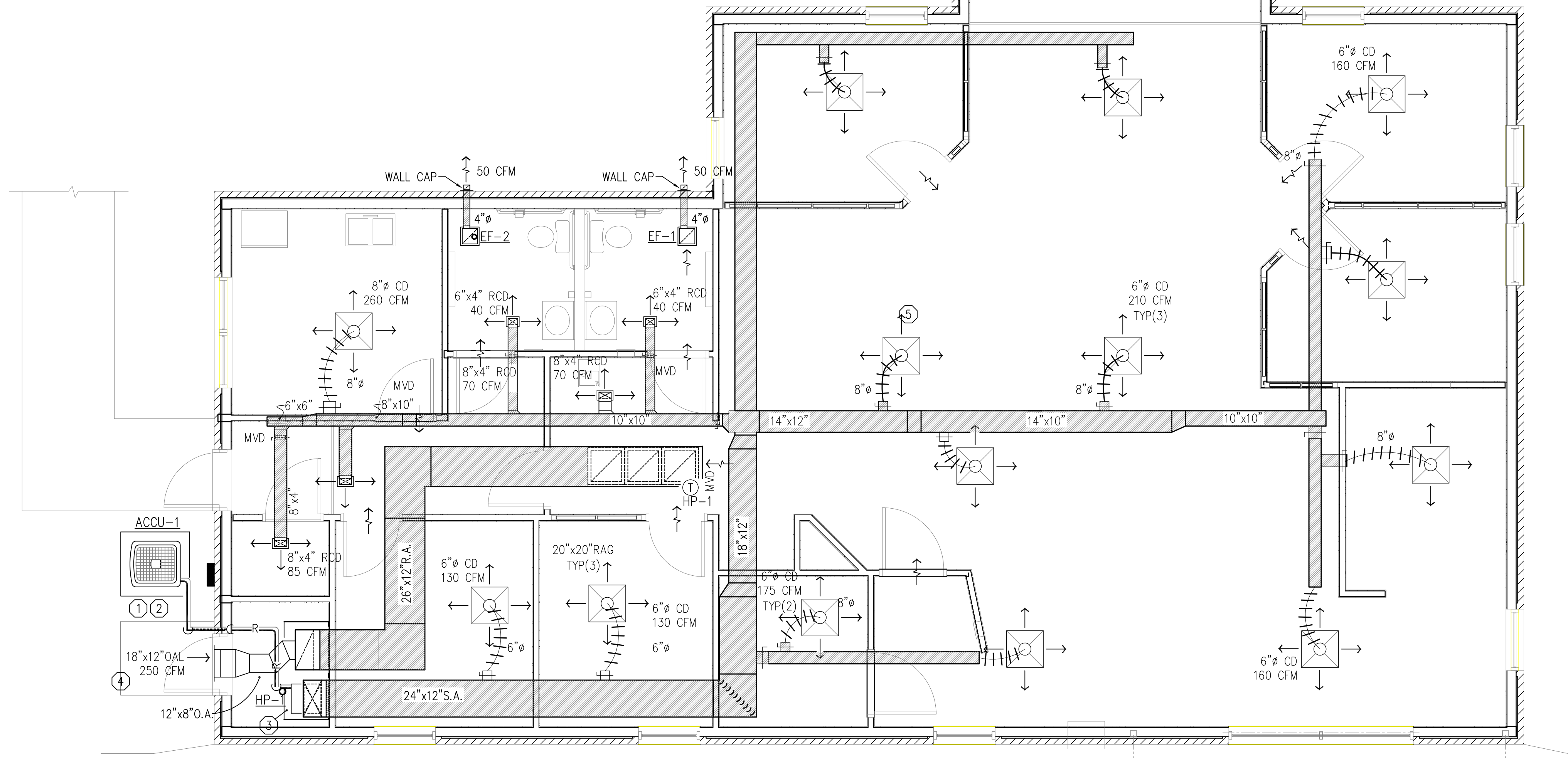
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 Approved By: BLSE

Dwg. No.  
**S-5**

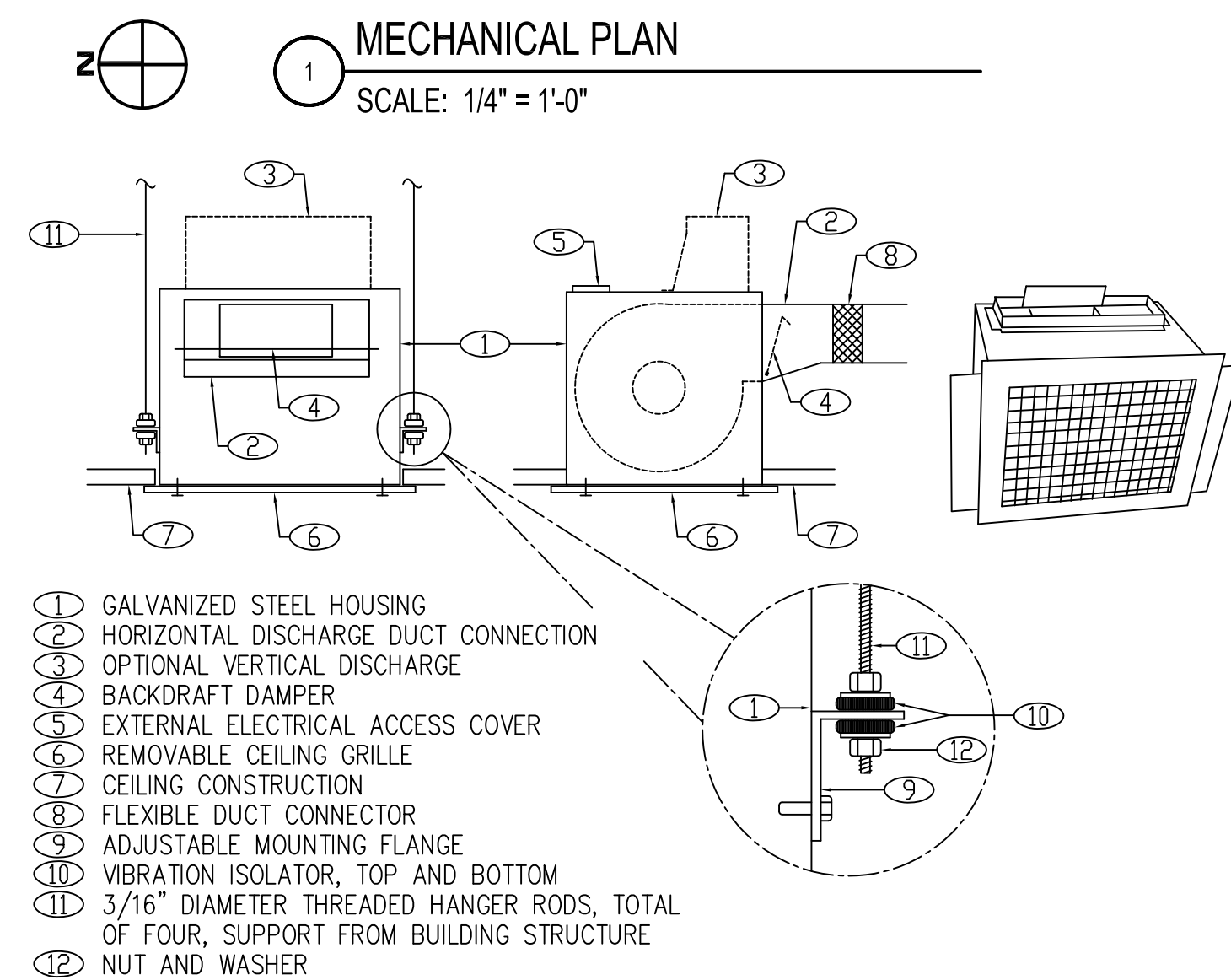


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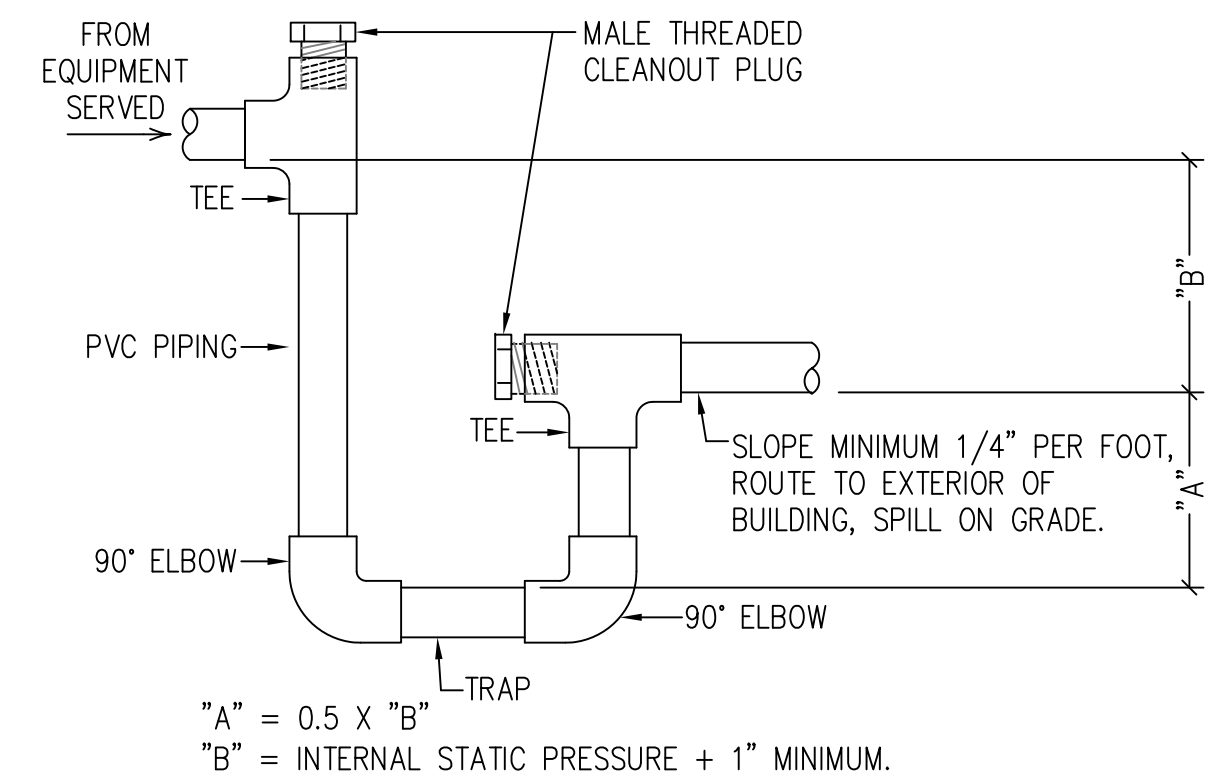
- ① PROVIDE 6" THICK CONCRETE PAD REINFORCED WITH WIRE-MESH FOR OUTDOOR CONDENSING UNIT. PADS SHALL EXTEND 6" FROM EQUIPMENT AND HAVE 3/4" CHAMFER ON TOP EDGES. TYPICAL ALL OUTDOOR PADS. MAINTAIN CLEARANCES TO ADJACENT CONSTRUCTION AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
- ② FIELD-ROUTE REFRIGERANT PIPING AND CONTROL WIRING TO INDOOR AIR HANDLING UNIT. SEE GENERAL NOTES ON SHEET M-1, ALSO SEE REFRIGERANT PIPING SUPPORT DETAIL ON THIS SHEET.
- ③ MIXED AIR PLENUM (MINIMUM HEIGHT OF 24") SHALL BE CONSTRUCTED OF WOOD OR METAL STUDS AND GYPSUM (SHEET ROCK). THE INTERIOR OF THE PLENUM SHALL BE LINED WITH GYPSUM AND SEALED WITH JOINT COMPOUND (MUD).
- ④ OUTSIDE AIR INTAKE LOUVER WITH FLANGED FRAME, COORDINATE FINISHN COLOR OF LOUVER WITH ARCHITECT.
- ⑤ CEILING DIFFUSER FOR INSTALLATION IN LAY-IN CEILING, SEE INSTALLATION DETAIL ON SHEET M-1. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS / GRILLES WITH LIGHTING PLAN AND WITH ARCHITECT IN THE FIELD. TYPICAL ALL CEILING DEVICES.



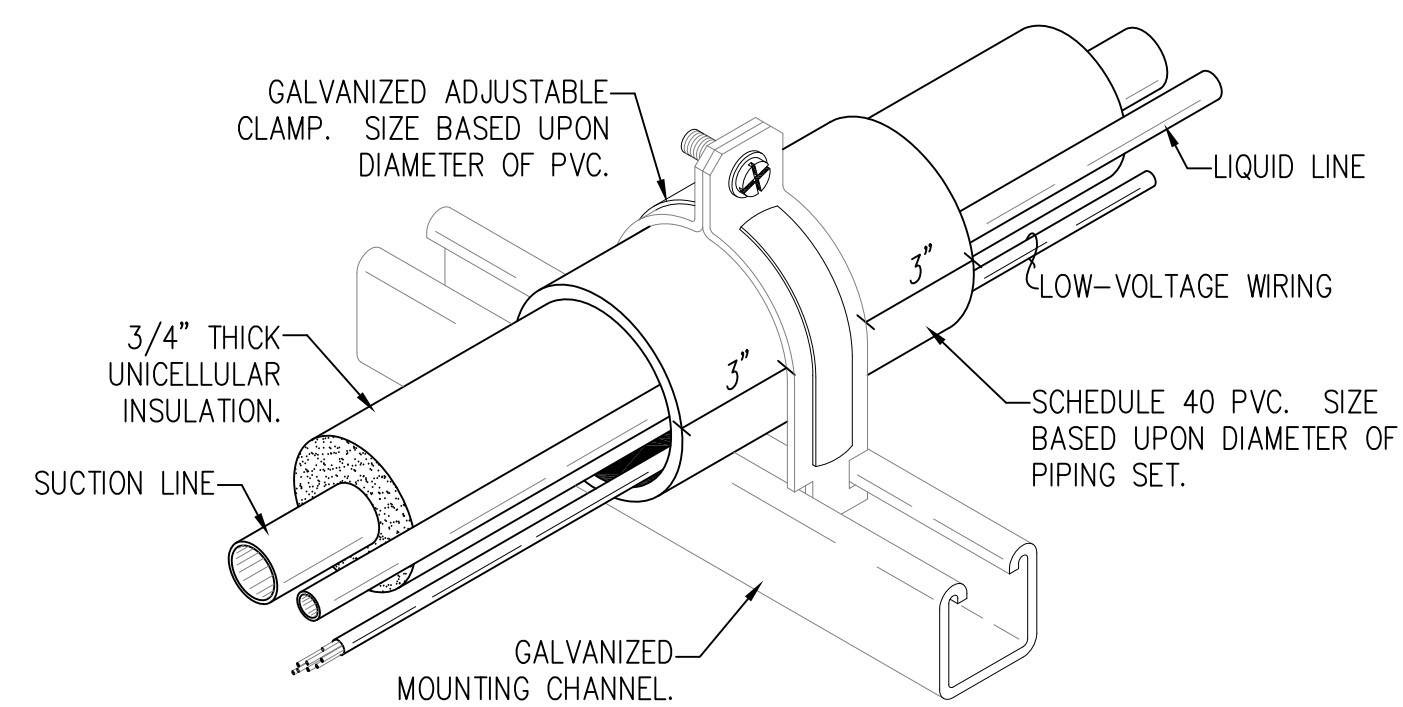
SCALE: 1/4" = 1'-0"



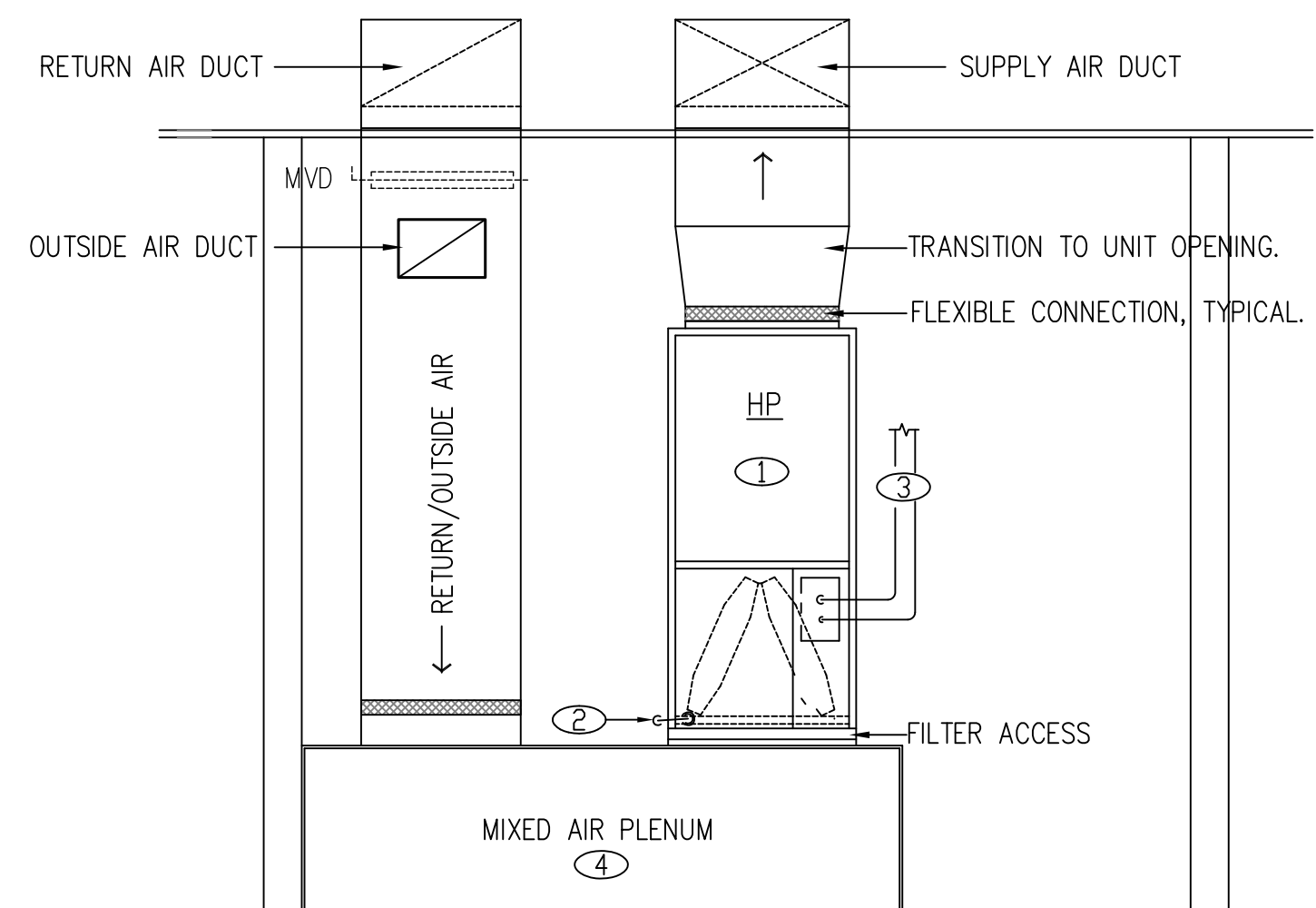
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

- ① HEIL MODEL EBP HEAT PUMP AIR HANDLING UNIT TO BE INSTALLED ON TOP OF NEW MIXED AIR PLENUM, SEE NOTES BELOW REGARDING PLENUM CONSTRUCTION.
- ② CONDENSATE PIPING, TRAP AT UNIT AND ROUTE TO EXTERIOR OF BUILDING (NEAR CONDENSING UNIT LOCATION), SEE TRAP PIPING DETAIL ON THIS SHEET.
- ③ REFRIGERANT PIPING, ROUTE TO CORRESPONDING OUTDOOR UNIT, SEE GENERAL NOTES ON SHEET M-1. SEE REFRIGERANT PIPING SUPPORT INSTALLATION DETAIL ON THIS SHEET.
- ④ 24" HIGH MIXED AIR PLENUM CONSTRUCTED OF STUDS WITH SHEETROCK INSIDE AND OUT. SEAL INSIDE OF PLENUM AIR-TIGHT WITH SHEETROCK MUD AND/OR DUCT MASTIC.



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## MECHANICAL PLAN

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Checked By: DA  
Approved By: DA

Wtg. No.

M-1



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# CENTRAL CREDIT UNION OF FLORIDA PANAMA CITY SERVICE BRANCH

## REVISIONS

No.	Description	Date

Title:  
**PLUMBING PLAN,  
RISER DIAGRAM, &  
FIXTURE SCHEDULE**

Scale: As Noted  
Date: December 7, 2012  
Drawn By: JF  
Checked By: DA  
Approved By: DA

Dwg. No.

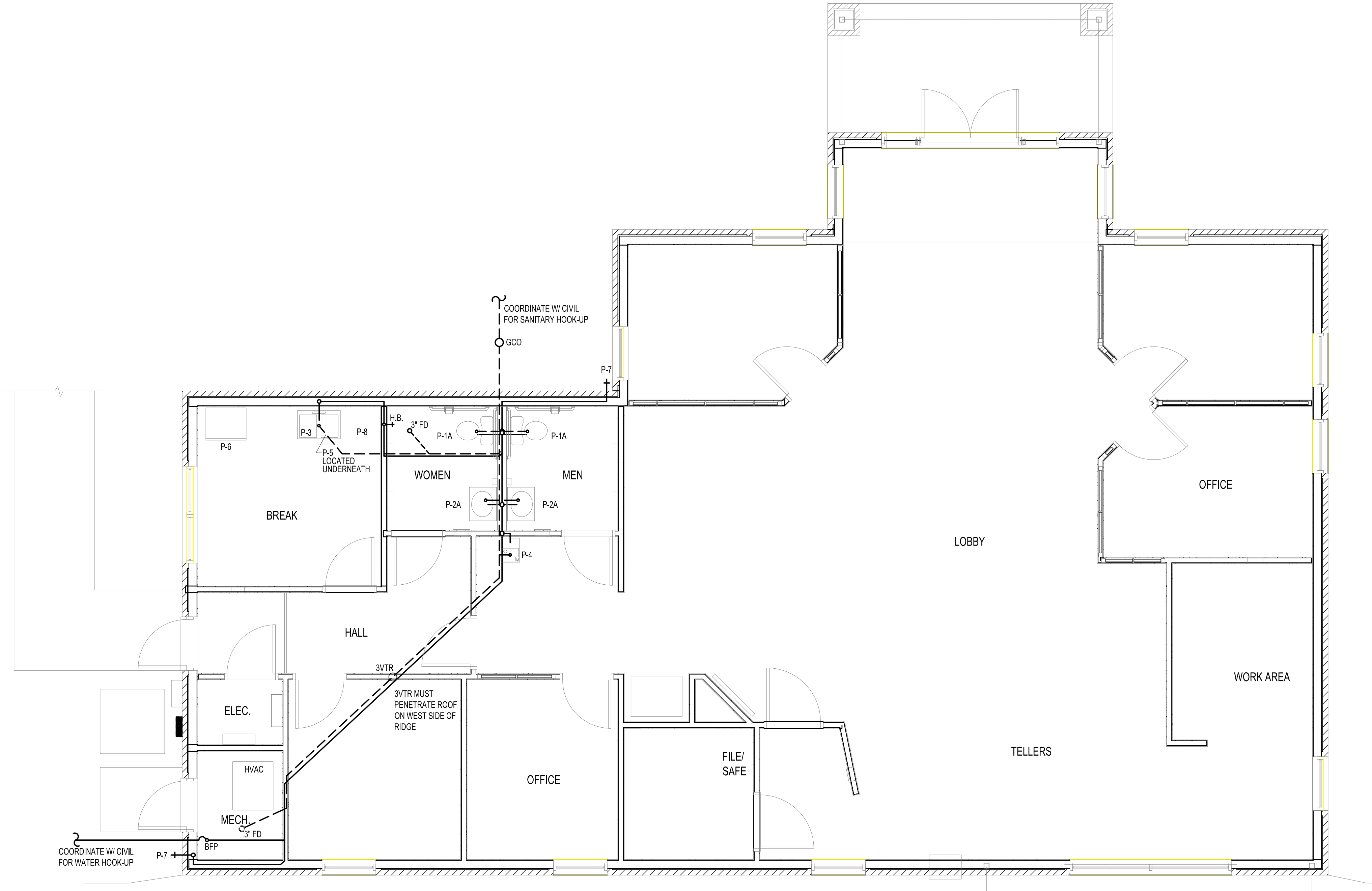
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## GENERAL NOTES

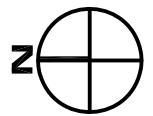
1. DOMESTIC WATER NOT SHOWN FOR CLARITY.  
TYPE "L" SOFT COPPER PIPE TO BE USED.
2. CODE APPROVED PVCDWV PIPING TO BE USED  
ELSEWHERE.

## FIXTURE SCHEDULE

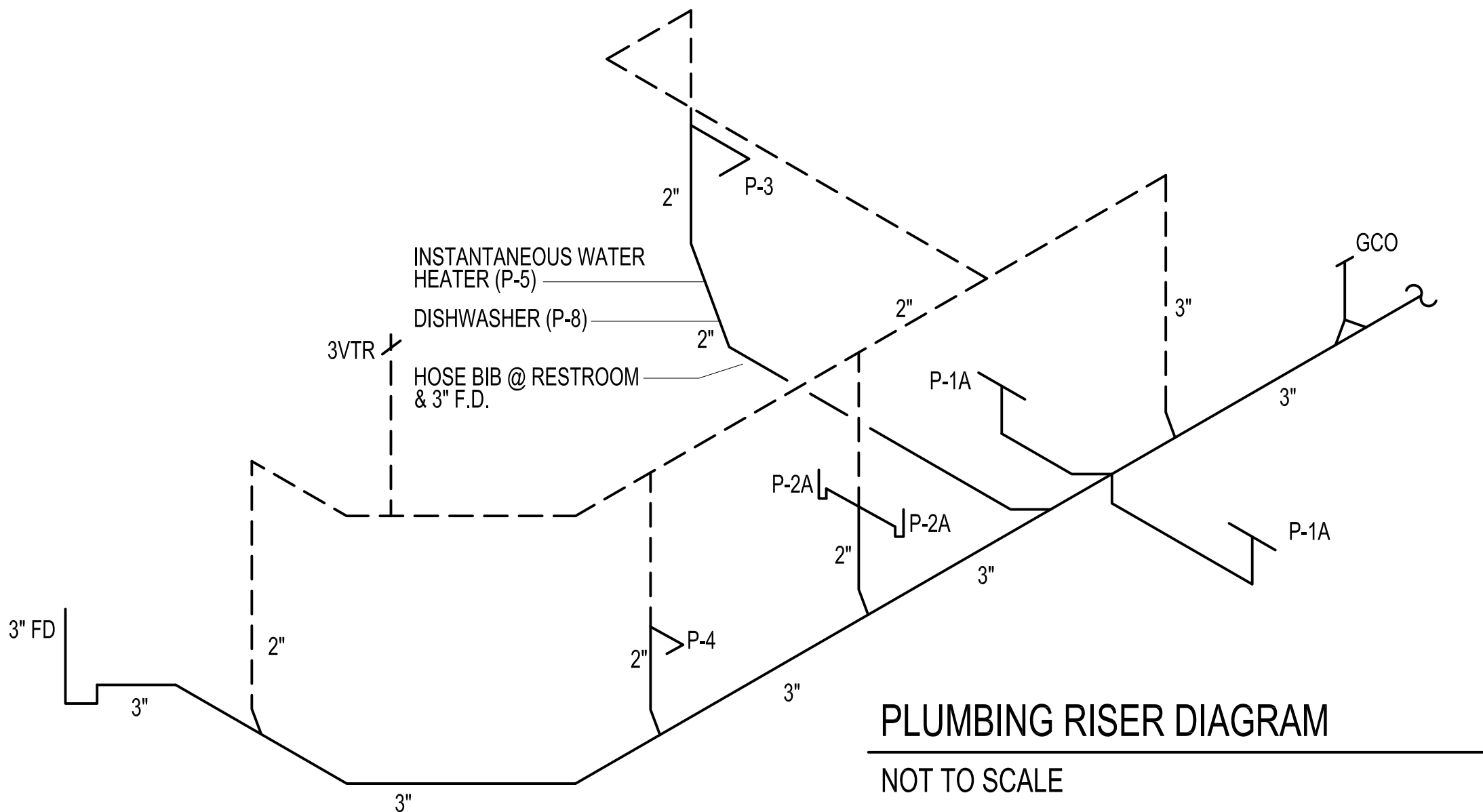
- P-1A HANDICAP WATER CLOSET  
2386.012 CADET 3 RIGHT HEIGHT  
295SSC WHITE SEAT  
OCR1912E CLOS SUPPLY
- P-2A ADA LAVATORY  
0355.012 WHITE LAV  
B-892 FAUCET  
Z8743 GRID DRAIN  
301CP 11/4 17G P-TRAP  
CR-1912-A SY.KIT  
102W WRAP
- P-3 DOUBLE SINK  
DSE23322-4 ELITE  
DELTA 400  
TT461-W STRAINER  
305CP 11/2 17G P-TRAP  
535SN 11/2X13 CONT WASTE  
CR-1912-A SY. KIT  
BADGER 5 DISPOSER
- P-4 WATER COOLER  
ELKAY LZ08  
BARRIER FREE. SELF-CONTAINED,  
ELECTRIC REFRIGERATED. WALL  
MOUNTED WATER COOLE. 4.0 FLA,  
115V, 60HZ.
- P-5 ELECTRIC HEATER  
POINT OF USE , INSTANTANEOUS  
EEMAX 3208. 3KW VAC, 208V/1PH/60HZ  
TO HEAT 0.5 GPM @ TEMP RISE 41 DEG. F  
SHALL HAVE ABS-UL 94VO RATED COVER  
ELEMENT SHALL BE REPLACEABLE CART.  
INSERT. SHALL HAVE REPLACEABLE FILTER  
IN THE INLET CONNECTOR & A FLOW REG.  
IN THE OUTLET CONNECTOR. ELEMENT  
SHALL BE IRON FREE.
- P-6 ICE MAKER BOX  
W9700HA IPS BOX
- P-7 WALL HYDRANT  
Z1330-10 WALL HYDRANT
- P-8 DISH WASHER  
COORDINATE WITH OWNER
- FD FLOOR DRAINS  
AN-415P-5B 2-4"



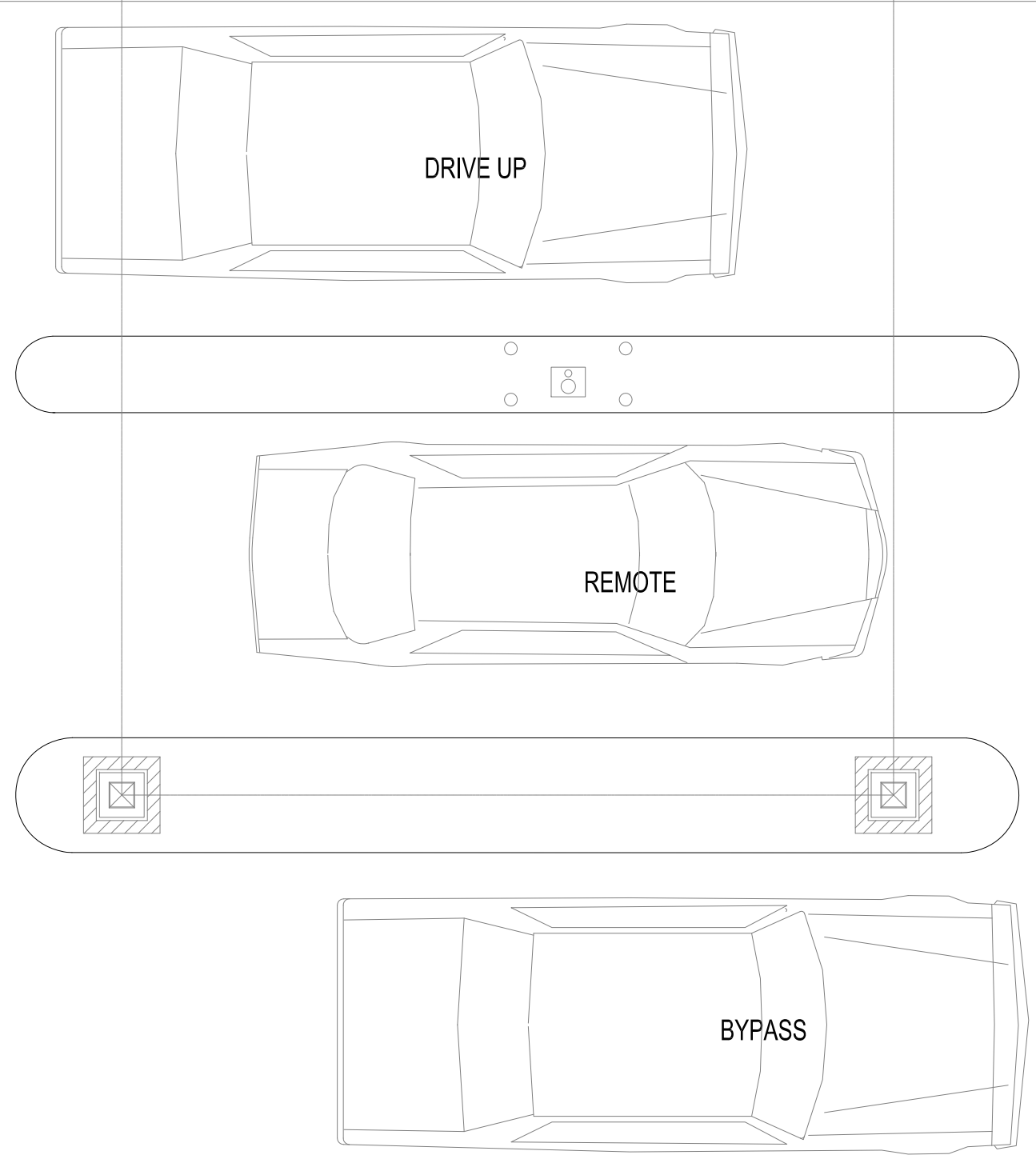
NOTES:  
COORDINATE AND TIE IN VTR'S AND EXIT BACK OF ROOF (WEST)  
COORDINATE WITH CIVIL AND ELECTRICAL  
CONFIRM PIPE SIZING WITH PLUMBING SUBCONTRACTOR



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



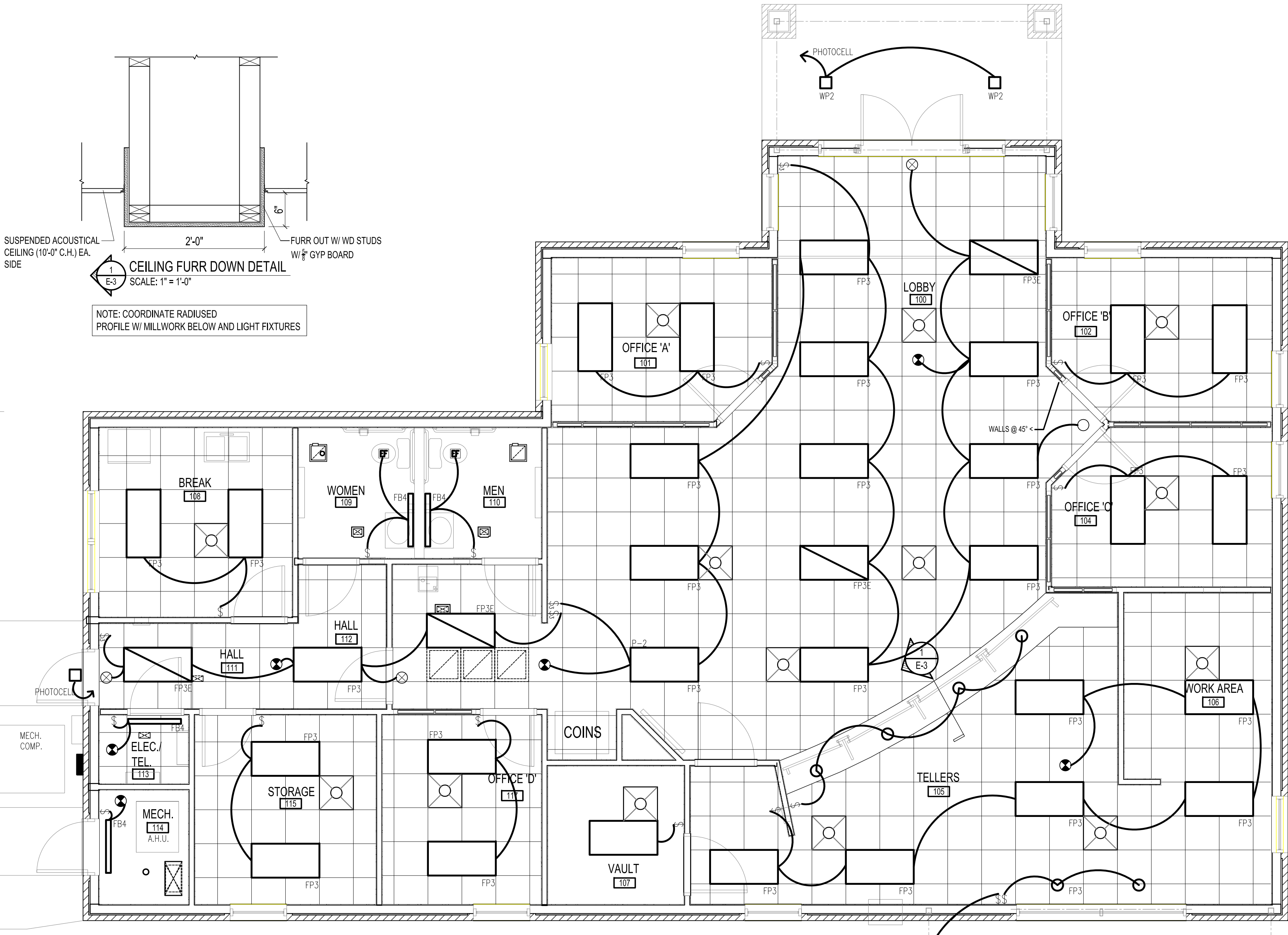
PLUMBING RISER DIAGRAM  
NOT TO SCALE





ELECTRICAL LEGEND (SOME SYMBOLS MAY NOT BE USED)

- NOMINAL 2'X4' FLUORESCENT LIGHTING FIXTURE
- NOMINAL 2'X4' FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT
- RECESSED COMPACT FLUORESCENT DOWN LIGHT
- RECESSED COMPACT FLUORESCENT DOWN LIGHT CONNECTED TO EMERGENCY CIRCUIT
- LIGHT EXIT LIGHT
- SITE LIGHTING STANDARD
- SINGLE POLE LIGHTING SWITCH MOUNT 48" AFF
- THREE-WAY LIGHTING SWITCH MOUNT 48" AFF
- FLUORESCENT DIMMER SWITCH
- DUPLEX RECEPTACLE MOUNT 18" AFF UNLESS NOTED OTHERWISE
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, MOUNTING HEIGHT AS NOTED
- DUPLEX RECEPTACLE MOUNTED IN CEILING FOR TV
- DUPLEX RECEPTACLE MOUNTED BELOW COMPUTER FLOOR
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH WEATHERPROOF COVERPLATE
- QUADRAPLEX RECEPTACLE MOUNT 18" AFF UNLESS NOTED OTHERWISE
- CABLE TV OUTLET MOUNTED IN CEILING
- CABLE TV SYSTEM W ALL OUTLET, STUB 3/4"C TO ABOVE CEILING
- TELE/DATA OUTLET MOUNT 18" AFF UNLESS NOTED OTHERWISE, STUB 3/4"C TO ABOVE CEILING
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
- FLUSH FLOOR MOUNTED TELE/DATA OUTLET
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER
- SURFACE MOUNTED MULTI-OUTLET RACEWAY MOUNTED ABOVE COUNTER WITH RECEPTACES AS INDICATED
- SPECIAL OUTLET
- VARIABLE SPEED DRIVE
- COMBINATION MAGNETIC MOTOR STARTER
- JUNCTION BOX
- PANELBOARD
- MOTOR
- TRANSFORMER
- AIR HANDLING UNIT
- SURGE SUPPRESSOR
- DRY TYPE TRANSFORMER
- ALARM SYSTEM RELAY
- ALARM SYSTEM WEATHERPROOF HORN MOUNT 8'-0" AFF
- SPRINKLER SYSTEM TAMPER SWITCH
- SPRINKLER SYSTEM FLOW SWITCH
- ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR MOUNTED IN SUPPLY AIR DUCT
- ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT
- ALARM SYSTEM AREA SMOKE DETECTOR (PROVIDE POWER TO DETECTORS)
- CONDUIT RUN ABOVE CEILING OR IN WALLS
- CONDUIT RUN UNDERGROUND OR BELOW SLAB
- HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2#12, 1#12 GRD, 1/2"C
- 3#12, 1#12 GRD, 1/2"C ETC.



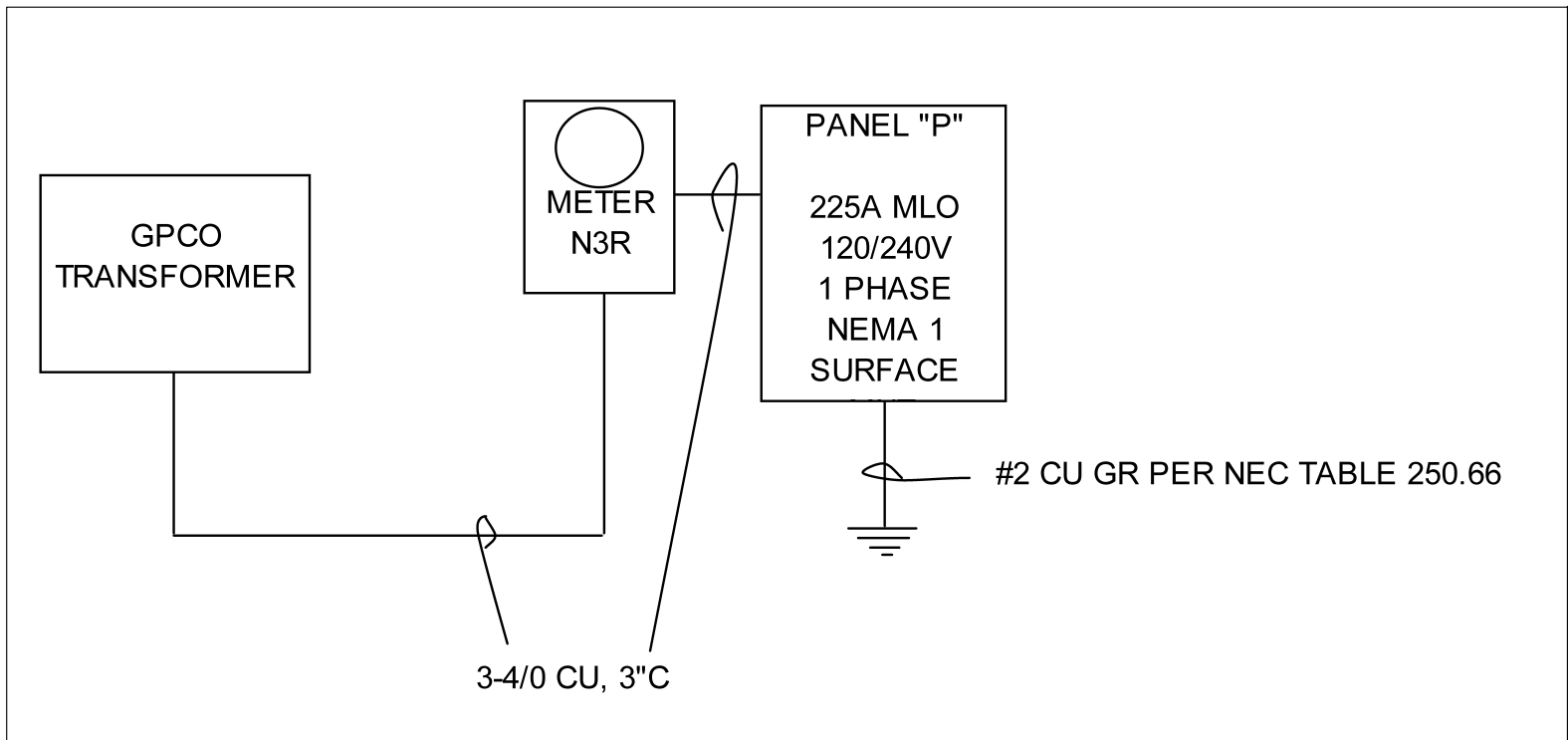
1 LIGHTING PLAN

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

2,680 SQ. FT.

- NOTES:
- SEE ARCHITECTURAL SITE PLAN FOR ELECTRICAL SITE INFORMATION
- COORDINATE SWITCHING IN WOOD FRAMED / TRIMMED WALLS W/ MILLWORK AS NECESSARY
- CONTRACTOR TO COORDINATE WITH OWNER SECURITY VENDOR FOR SECURITY EQUIPMENT

RISER DIAGRAM



NOTE: CONTRACTOR TO COORDINATE PANEL WITH POWER

CIRCUIT BREAKER PANEL SCHEDULE						
SURFACE MOUNTED						
PANEL P						
CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE
1	LIGHTING - INTERIOR	1	20	0.8	1.05	20
3	LIGHTING - INTERIOR	1	20	1.05	0.55	20
5	LIGHTING - LANE LIGHTS	1	20	1.0	1.0	20
7	LIGHTING - SITE	1	20	1.0	1.44	20
9	RECEPTACLES - KITCHEN	1	20	1.44	1.44	20
11	RECEPTACLES - EWC	1	20	1.08	1.08	20
13	INTERIOR - OFFICES	1	20	0.9	0.9	20
15	RECEPTACLES - TELLER	1	20	0.72	0.72	20
17	NIGHT DROP	1	20	0.9	0.9	20
19	RECEPTACLES - TBB	1	20	0.72	0.72	20
21	HP-1	2	20	10.95	8.6	20
23				10.95	8.6	20
25	WATER HEATER	2	20	4.5	2.88	30
27				4.5	1.0	20
29	EXISTING ATM	1	20	1.92	1.0	20
31						
33						
35						
37						
39						
41						
TOTAL CONNECTED LOAD: 50.26 KVA						
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL						



SAM MARSHALL ARCHITECTS  
325 S. PALAFOX STREET  
PENSACOLA, FL 32502  
(850) 433-7842  
(850) 433-0510 fax

CENTRAL CREDIT UNION OF FLORIDA

PANAMA CITY SERVICE BRANCH

REVISIONS

No.	Description	Date

Title:

ELECTRICAL  
LIGHTING PLAN

Scale: As Noted  
Date: December 7, 2012  
Drawn By: JF  
Checked By: DA  
Approved By: DA

Dwg. No.

E-1

CENTRAL CREDIT UNION OF FLORIDA

PANAMA CITY SERVICE BRANCH

REVISIONS		
No.	Description	Date
Title:		
ELECTRICAL POWER PLAN		
Scale:	As Noted	
Date:	December 7, 2012	
Drawn By:	JF	
Checked By:	DA	
Approved By:	DA	
Dwg. No.		
E-2		

