



JEA - NEW MANDARIN WRF STORAGE BUILDING AND PARKING

10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

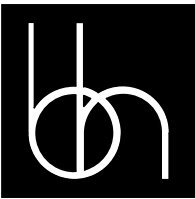


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FOR CONSTRUCTION



OCTOBER 28, 2019

BHA # 19023

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GENERAL NOTES

BUILDING CONSTRUCTION

BUILDING TYPE: I-B (NON-COMBUSTIBLE)

OCCUPANCY: F1 - INDUSTRIAL COMPLEX: WASTE WATER TREATMENT PLANT (WRF - WATER RECLAMATION FACILITY)

S-2 (STORAGE BUILDING - LOW HAZARD STORAGE) CONTENTS OF STORAGE BUILDING: METAL PARTS, ELECTRICAL MOTORS, WATER PUMPS, ETC. (NO COMBUSTIBLE CONTAINERS IN BUILDING)
500 GSF/PERSON : 5,475 GSF = 11 PERSONS

AREA: 5,475 GSF (GROSS SQUARE FEET)

FIRE RATING: (REQUIRED/PROVIDED)
PRIMARY STRUCTURAL FRAME: 2HR / 2HR
EXTERIOR BEARING WALLS: 2HR / NA
NON-BEARING WALLS: 0 / 0
ROOF: 0 / 0

FIRE ALARM: NOT REQUIRED PER FLORIDA FIRE PREVENTION CODE 2017 (6TH EDITION) SECTION 42.3.4.1.1

INTERIOR: CLASS I OR CLASS II IN EXIT CORRIDORS/COMPONENTS.

VENTILATION: THE BUILDING IS NATURALLY VENTILATED PER FLORIDA BUILDING CODE MECHANICAL 2017 (6TH EDITION); SECTION 402: THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. 4% PERCENT OF THE WAREHOUSE AREA (5,475GSF) IS APPROXIMATELY 219 SQUARE FEET. THE GARAGE DOORS CAN BE CLASSIFIED AS AN OPENABLE AREA. AT 16'X20' (320 SQUARE FEET EACH) THE GARAGE DOOR(S) PROVIDE THE MINIMUM OPENABLE AREA REQUIRED BY CODE. IN ADDITION TO THIS, THE DESIGN PROVIDES FOR TWO (2) 4'X4' LOUVER WITH OPEN AREA OF 9SF. THE LOUVERS ARE LOCATED ON EACH SIDE OF THE STORAGE BUILDING TO PROVIDE CONTINUOUS CROSS VENTILATION.

PLUMBING: INDUSTRIAL FACILITY: SECTION 403.3.3: PATH OF TRAVEL TO THE REQUIRED RESTROOM FACILITIES SHALL NOT EXCEED 500 FEET. EXCEPTION: THE DISTANCE MAY EXCEED 500 FEET IN INDUSTRIAL OCCUPANCIES AS APPROVED BY THE LOCAL AHJ.

1 REQUIRED PER 100 PERSONS / >1 PROVIDED IN ADJACENT BUILDINGS (TOTAL TRAVEL DISTANCE < 500')
1 LAVATORY REQUIRED / >1 PROVIDED (TOTAL TRAVEL DISTANCE < 500')

BUILDING ENVELOPE ENERGY REQUIREMENTS:

EXEMPT LOW-ENERGY BUILDING: PER FLORIDA ENERGY CONSERVATION CODE (SECTION 402.1.1) THE PEAK DESIGN RATE FOR THE NEW STORAGE BUILDING SHALL BE LESS THAN 3.4 BTU/H·FT² OR 1.0 WATT PER SQUARE FOOT OF FLOOR AREA FOR SPACE CONDITIONING PURPOSES.
TOTAL BUILDING ENERGY USAGE: 1,980 WATTS/5,000FT² = .396 WATTS/FT²
THE BUILDING IS A NON-CONDITIONED SPACE WITH OPEN AIR VENTILATION.

PATH OF TRAVEL:

MAXIMUM PATH OF TRAVEL: 200'-0" / 81'-0" PROVIDED

EXITS: 2 REQUIRED / 2 PROVIDED (ALL EXITS ARE PROVIDED WITH PANIC/RIM DEVICES)

CODE ANALYSIS

BUILDING CODE: 2017 FLORIDA BUILDING CODE, 6TH EDITION

PLUMBING CODE: 2017 FBC PLUMBING, 6TH EDITION

MECHANICAL CODE: 2017 FBC MECHANICAL, 6TH EDITION

ELECTRICAL CODE: NFPA 70 - 2014 NATIONAL ELECTRIC CODE

FIRE CODE: 2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION

ACCESSIBILITY CODE: 2017 STATE OF FLORIDA ACCESSIBILITY CODE

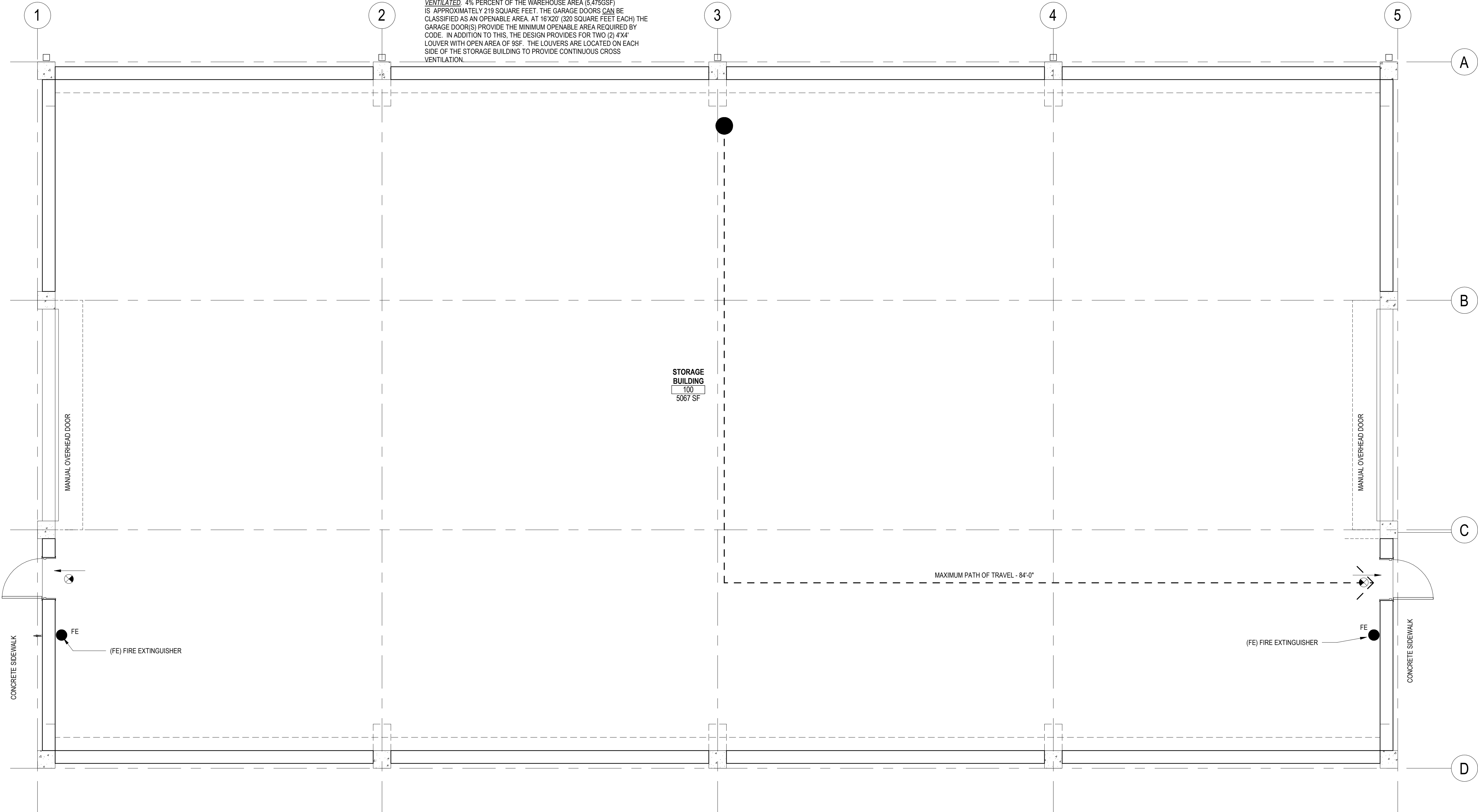
ENERGY CODE: 2017 FLORIDA ENERGY CONSERVATION CODE, 6TH EDITION

LIFE SAFETY LEGEND

FE WALL MOUNTED FIRE EXTINGUISHER (TYPE A/B/C)

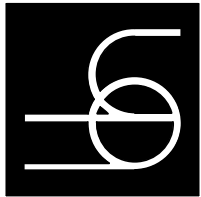
ILLUMINATED EXIT SIGN

MAXIMUM PATH OF TRAVEL



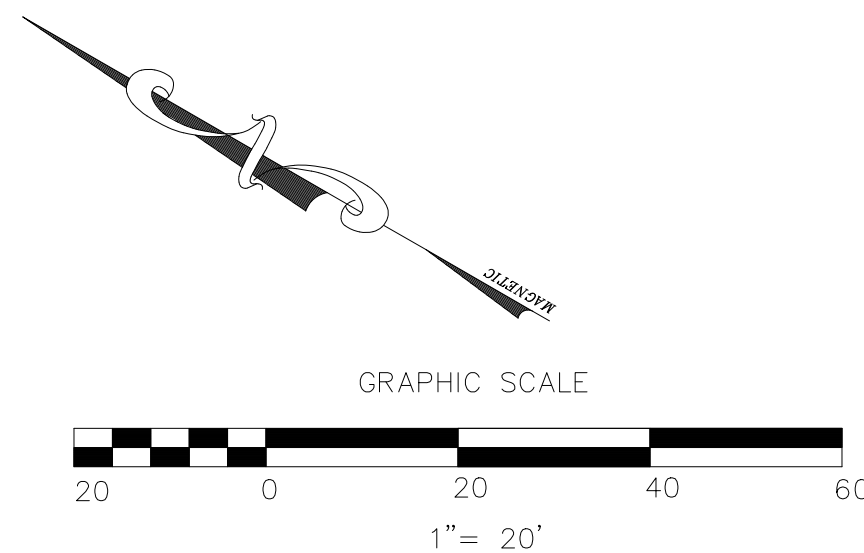
1 STORAGE BUILDING LIFE SAFETY PLAN

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

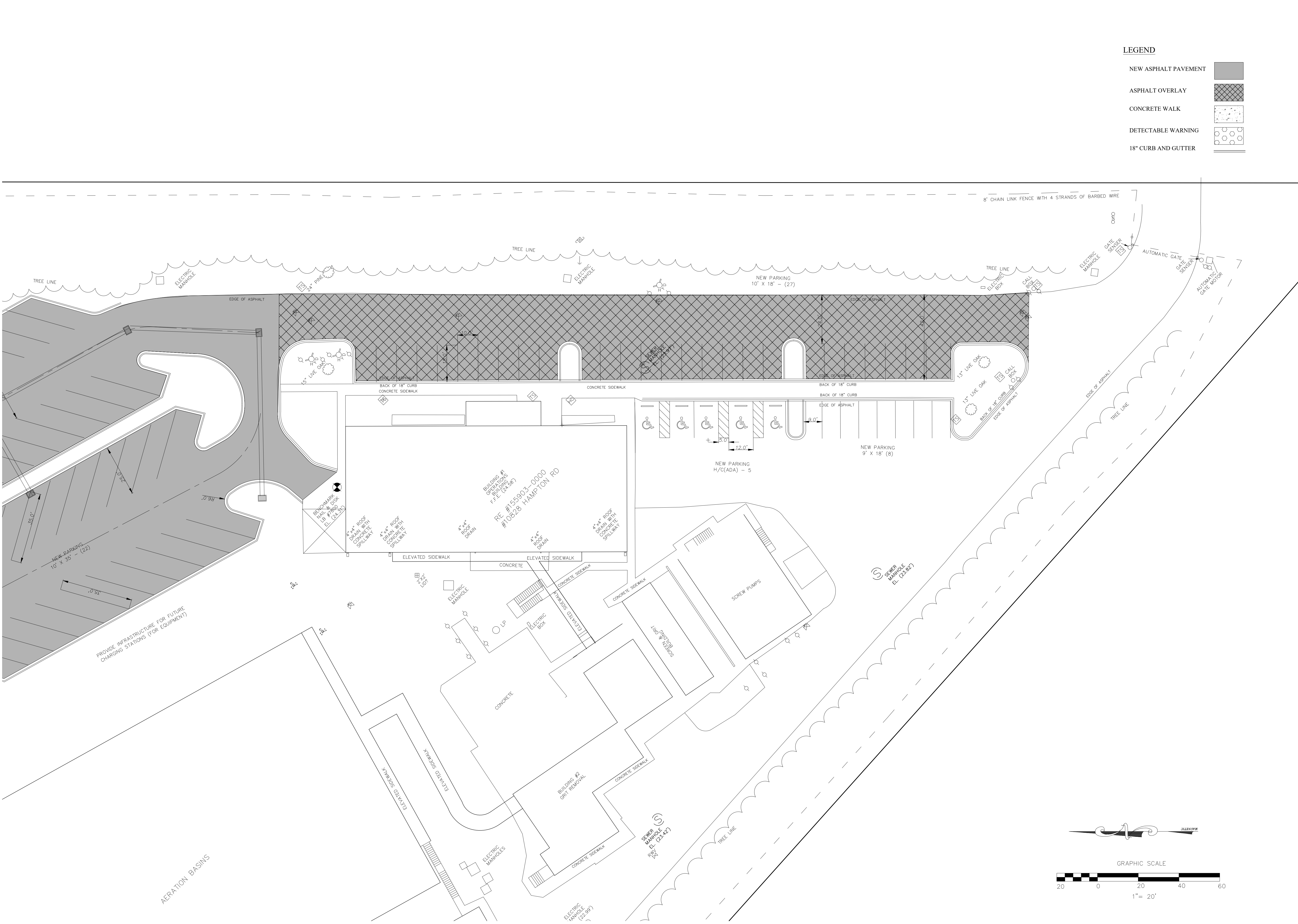


Date	Revision	Seal / Signature

LIFE SAFETY & CODE COMPLIANCE

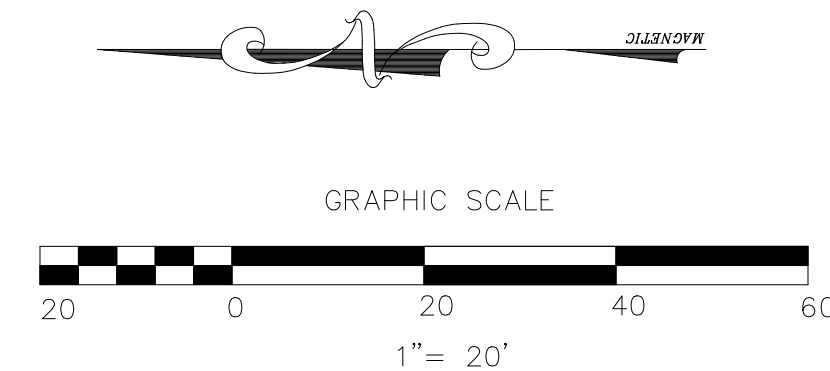


C-2.2
FOR CONSTRUCTION



LEGEND

- NEW ASPHALT PAVEMENT
- ASPHALT OVERLAY
- CONCRETE WALK
- DETECTABLE WARNING
- 18" CURB AND GUTTER



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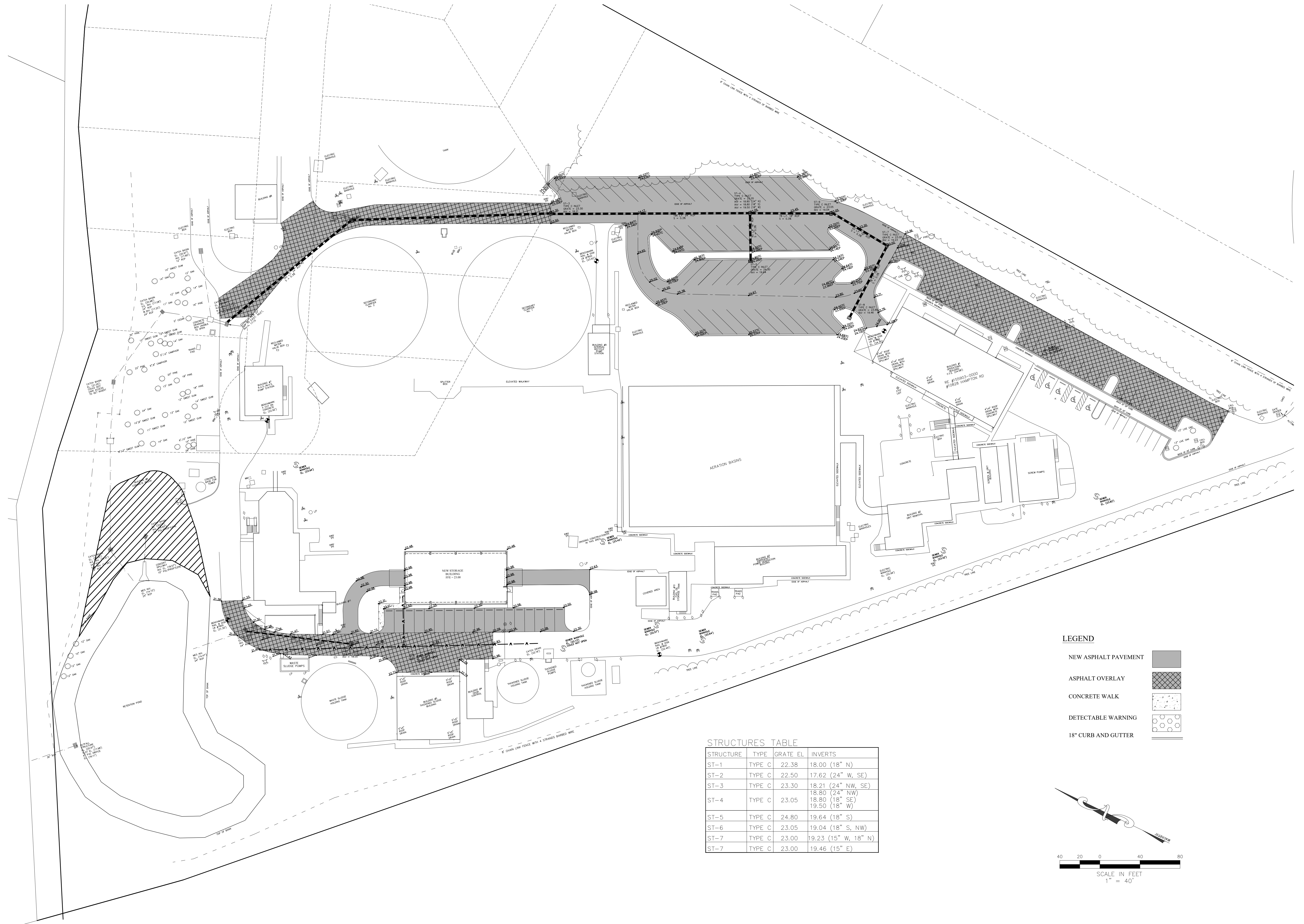
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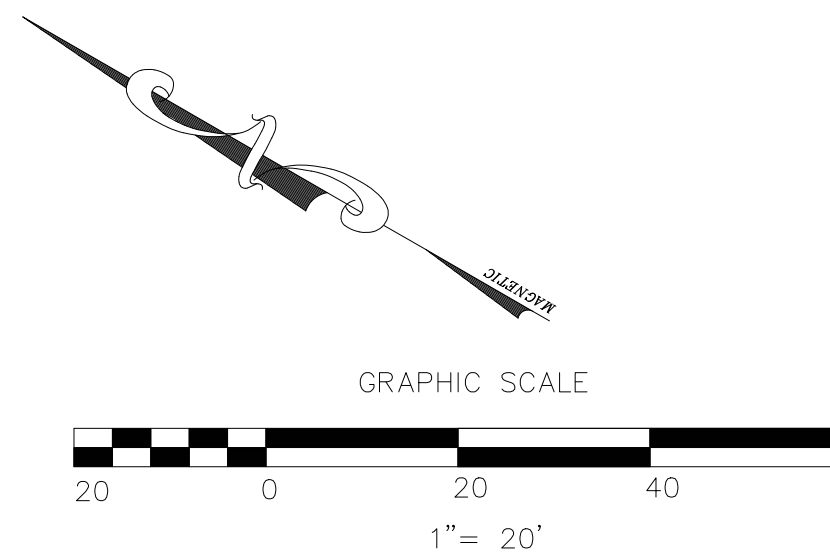
ENGINEER	LICENSE NO.
MICHELE AGEE	49142

Seal / Signature
Date
Revision

HORIZONTAL CONTROL PLAN
DATE: 10/28/19
D.B.: MMA
C.B.: DSS
JOB NO: 19023






C-2.3
FOR CONSTRUCTION

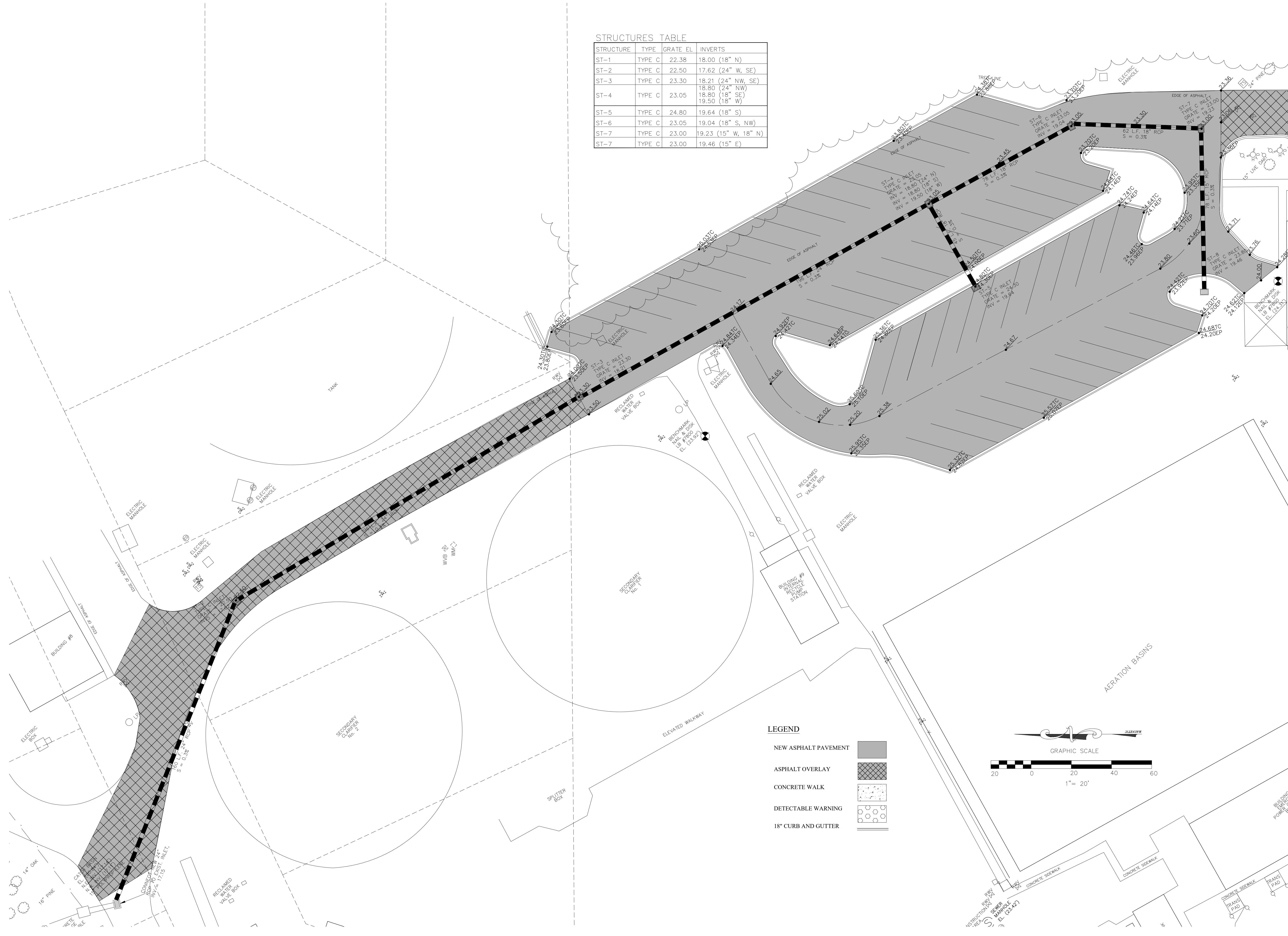




STRUCTURES TABLE			
STRUCTURE	TYPE	GRATE EL.	INVERTS
ST-1	TYPE C	22.38	18.00 (18" N)
ST-2	TYPE C	22.50	17.62 (24" W, SE)
ST-3	TYPE C	23.30	18.21 (24" NW, SE) 18.80 (24" NW)
ST-4	TYPE C	23.05	18.80 (18" SE) 19.50 (18" W)
ST-5	TYPE C	24.80	19.64 (18" S)
ST-6	TYPE C	23.05	19.04 (18" S, NW)
ST-7	TYPE C	23.00	19.23 (15" W, 18" N)
ST-7	TYPE C	23.00	19.46 (15" E)

LEGEND

NEW ASPHALT PAVEMENT	
ASPHALT OVERLAY	
CONCRETE WALK	
DETECTABLE WARNING	
18" CURB AND GUTTER	



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**BHIDE & HALL ARCHITECTS, P.A.**
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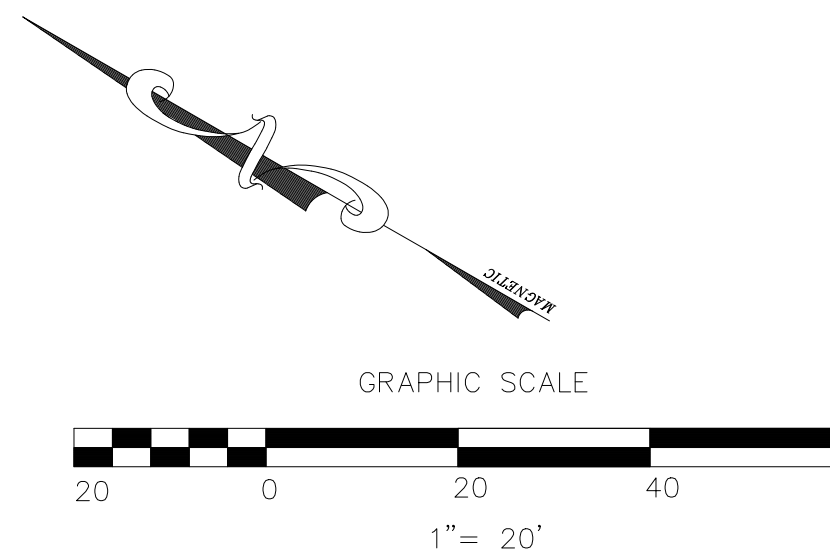
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ENGINEER	LICENSE NO.
MICHELE AGEE	49142

Seal / Signature
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GRADING & DRAINAGE PLAN
DATE: 10/28/19
D.B.: MMA
C.B.: DSS
JOB NO: 19023
C-3.2
FOR CONSTRUCTION



JEA FACILITIES STANDARDS:
DIVISION 32 –EXTERIOR IMPROVEMENTS

32 01 00 –OPERATIONS & MAINTENANCE OF EXTERIOR IMPROVEMENTS (ASPHALT PAVEMENT)

GENERAL STANDARDS FOR REPLACEMENT OR INSTALLATION OF ASPHALT PAVEMENT.

I. GENERAL:

WORK UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE REPLACEMENT ASPHALT PAVEMENT AS REQUIRED FOR THE WORK AS SPECIFIED HEREINAFTER.

II. GENERAL REQUIREMENTS:

1. WHERE CONSTRUCTION REQUIRES REMOVING PAVEMENT OR WHERE EXISTING PAVING IS DAMAGED BY THE CONTRACTOR'S OPERATION, IT IS THE INTENT OF THESE SPECIFICATIONS THAT DUE CARE BE EXERCISED IN CUTTING PAVEMENT, BACKFILLING TRENCHES, AND REPLACING PAVEMENT SO THAT WHERE NO FURTHER SETTLEMENT OF TRENCHES WILL OCCUR AND THE PAVED SURFACES WILL BE RESTORED TO A CONDITION WITH A MINIMUM OF TWO INCHES OR GREATER OF 5-1 TO MATCH EQUAL TO THAT EXISTING BEFORE CONSTRUCTION BEGAN.

2. EXCEPT AS OTHERWISE PROVIDED HEREIN, MATERIALS & METHODS OF OPERATIONS REQUIRED TO INSTALL NEW AND REPLACEMENT PAVEMENT SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION.

3. NO PAVING WORK SHALL BE ACCOMPLISHED UNTIL ALL HEAVY CONSTRUCTION EQUIPMENT IS PERMANENTLY REMOVED FROM THE SITE.

4. WHERE CONSTRUCTION WORK REQUIRES REMOVAL OF THE BRICK PAVEMENT, IT SHALL BE REPLACED WITH ASPHALT PAVEMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER.

III. TRENCH SURFACE:

1. THE SURFACE OF BACKFILLED TRENCHES WHEN DRY SHALL BE FINISHED WITHOUT NEEDLESS DELAY. THE SURFACE OF TRENCHES IN UNPAVED ROADWAYS AND UNPAVED SIDEWALK AREAS SHALL CONFORM TO THE ADJACENT SURFACES AND SHALL BE IN EVERY RESPECT BE EQUAL IN QUALITY, CHARACTER, MATERIALS, AND WORKMANSHIP TO THE SURFACE EXISTING IMMEDIATELY PREVIOUS TO MAKING THE EXCAVATION. THE SURFACE OF BACKFILLED TRENCHES IN PAVED AREAS SHALL BE FINISHED WITH TYPE S-I OR TYPE II ASPHALTIC CONCRETE, OR 3000 PSI PORTLAND CEMENT CONCRETE AS SPECIFIED HEREINAFTER.

2. ALL SURFACES WHICH HAVE BEEN INJURED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY BEFORE THE WORK WAS BEGUN. SUITABLE MATERIALS AND METHODS SHALL BE USED IN SUCH RESTORATION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING THE WIDTHS OF EXCAVATION FOR INSTALLING UNDERGROUND PIPELINES AND APPURTENANT WORK. UNAUTHORIZED REMOVAL OF PAVEMENT, CURBS, ETC., WILL NOT BE INCLUDED FOR PAYMENT UNDER THE CONTRACT BUT SHALL BE REPLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AT NO EXPENSE TO THE OWNER.

IV. REMOVAL OF PAVEMENT, WALKS & DRIVEWAYS:

1. BITUMINOUS PAVEMENT SHALL BE REMOVED TO CLEAN N CONTINUOUS STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO NEAT STRAIGHT LINES BEFORE PAVEMENT REPAIR TO ENSURE THAT ALL AREAS TO BE REPAIRED ARE ACCESSIBLE TO ROLLERS USED TO COMPACT THE SUBGRADE OR PAVING MATERIALS.

V. PAVEMENT SUBGRADES:

1. STABILIZATION:

ROADBED STABILIZATION, WHEN AUTHORIZED BY THE ENGINEER IN WRITING OR SHOWN ON THE CONTRACT PLAN/PROFILE DRAWING, SHALL EXTEND TO A DEPTH OF TWELVE (12) INCHES BELOW THE BOTTOM OF THE BASE. ALL STABILIZED AREAS SHALL HAVE A MINIMUM LIME ROCK BEARING RATIO (LBR) OF 30. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH SECTION 160 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION, EXCEPT THAT PARAGRAPHS 160-12 AND 160-13 SHALL BE OMITTED. TYPE B STABILIZATION, AS SPECIFIED IN PARAGRAPHS 160-6 OF THE D.O.T. SPECIFICATIONS, SHALL BE USED.

2. BASE COURSE:

THE BASE COURSE FOR THE PAVED AREAS SHALL BE LIME ROCK CONSTRUCTED TO THE THICKNESS SHOWN ON THE DRAWINGS FOR THE CASE INVOLVED. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SECTION 200 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, CURRENT EDITION, EXCEPT THAT PARAGRAPHS 200-12 AND 200-13 SHALL BE OMITTED.

VI. ASPHALT PAVEMENT:

PROVIDE ASPHALT PAVEMENT WHERE INDICATED ON THE DRAWINGS, OR WHERE NEW WORK HAS REQUIRED REMOVAL OF EXISTING ASPHALT PAVEMENT.

1. PRIME COAT:

A PRIME COAT CONSISTING OF A BITUMINOUS MATERIAL HEREINAFTER SPECIFIED SHALL BE APPLIED AT THE RATE OF FIFTEEN HUNDREDTHS (0.15) GALLONS PER SQUARE YARD TO THE PREVIOUSLY PREPARED BASE COURSE. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION, EXCEPT THAT PARAGRAPHS 300-8 AND 300-9 SHALL BE OMITTED.

2. BASE COURSE: THE BASE COURSE FOR THE PAVED AREAS SHALL BE LIME ROCK CONSTRUCTED TO THE THICKNESS SHOWN ON THE DRAWINGS FOR THE CASE INVOLVED. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE FDOT STANDARD SPECIFICATIONS, CURRENT EDITION, EXCEPT THAT PARAGRAPHS 200-12 AND 200-13 SHALL BE OMITTED.

3. ORDER OF WORK:

WORK SHALL BE ACCOMPLISHED IN THE FOLLOWING ORDER:

- STABILIZING AND COMPACTING OF SUB-BASE, WHEN REQUIRED.
- LIME ROCK BASE COURSE
- PRIME COAT.
- ASPHALTIC CONCRETE SURFACE COURSE.

VI. TESTS:

1. WHERE REFERENCE IS MADE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR DESIGN MIXES, TESTS OF WORK PERFORMED OR WHERE IN THE OPINION OF THE ENGINEER, TESTS ARE REQUIRED TO ASCERTAIN COMPLIANCE WITH THE SPECIFICATIONS, THE CONTRACTOR WILL HAVE SUCH TESTS MADE BY AN INDEPENDENT TESTING LABORATORY. ALL TESTING EXPENSES SHALL BE BORNE BY THE CONTRACTOR AS SPECIFIED IN THE SECTION OF THE SPECIFICATIONS ENTITLED, GENERAL CONDITIONS.

32 16 00 –CURBS, GUTTERS, SIDEWALKS & DRIVEWAYS (CONCRETE)

GENERAL STANDARDS FOR REPLACEMENT OR INSTALLATION OF CONCRETE PAVEMENT, SIDEWALKS AND DRIVEWAYS

I. GENERAL:

1. WORK UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE REPLACEMENT PAVEMENT, CURB & GUTTER, WALKWAYS, AND DRIVEWAYS AS REQUIRED FOR THE WORK AS SPECIFIED HEREINAFTER. WHERE CONSTRUCTION REQUIRES REMOVING PAVEMENT OR WHERE EXISTING PAVING IS DAMAGED BY THE CONTRACTOR'S OPERATION, IT IS THE INTENT OF THESE SPECIFICATIONS THAT DUE CARE BE EXERCISED IN CUTTING PAVEMENT, BACKFILLING TRENCHES, AND REPLACING PAVEMENT SO THAT WHERE NO FURTHER SETTLEMENT OF TRENCHES WILL OCCUR AND THE PAVED SURFACES WILL BE RESTORED TO A CONDITION MINIMUM TO SIX INCHES OR GREATER TO EQUAL TO THAT EXISTING BEFORE CONSTRUCTION BEGAN.

2. EXCEPT AS OTHERWISE PROVIDED HEREIN, MATERIALS & METHODS OF OPERATIONS REQUIRED TO INSTALL NEW AND REPLACEMENT PAVEMENT SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION.

3. NO PAVING WORK SHALL BE ACCOMPLISHED UNTIL ALL HEAVY CONSTRUCTION EQUIPMENT IS PERMANENTLY REMOVED FROM THE SITE.

4. WHERE CONSTRUCTION WORK REQUIRES REMOVAL OF THE BRICK PAVEMENT, IT CAN BE REPLACED WITH EITHER CONCRETE OR ASPHALT PAVEMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER.

II. TRENCH SURFACE:

1. THE SURFACE OF BACKFILLED TRENCHES WHEN DRY SHALL BE FINISHED WITHOUT NEEDLESS DELAY. THE SURFACE OF TRENCHES IN UNPAVED ROADWAYS AND UNPAVED SIDEWALK AREAS SHALL CONFORM TO THE ADJACENT SURFACES AND SHALL BE IN EVERY RESPECT BE EQUAL IN QUALITY, CHARACTER, MATERIALS, AND WORKMANSHIP TO THE SURFACE EXISTING IMMEDIATELY PREVIOUS TO MAKING THE EXCAVATION. THE SURFACE OF BACKFILLED TRENCHES IN PAVED AREAS SHALL BE FINISHED WITH TYPE S-I OR TYPE II ASPHALTIC CONCRETE, OR PORTLAND CEMENT CONCRETE AS SPECIFIED HEREINAFTER.

2. ALL SURFACES WHICH HAVE BEEN INJURED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY BEFORE THE WORK WAS BEGUN. SUITABLE MATERIALS AND METHODS SHALL BE USED IN SUCH RESTORATION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING THE WIDTHS OF EXCAVATION FOR INSTALLING UNDERGROUND PIPELINES AND APPURTENANT WORK. UNAUTHORIZED REMOVAL OF PAVEMENT, CURBS, ETC., WILL NOT BE INCLUDED FOR PAYMENT UNDER THE CONTRACT BUT SHALL BE REPLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AT NO EXPENSE TO THE OWNER.

III. REMOVAL OF CONCRETE PAVEMENT, WALKS & DRIVEWAYS:

1. CONCRETE PAVEMENT SHALL BE REMOVED TO CLEAN CONTINUOUS STRAIGHT LINES BY SAW CUTTING. WHERE CONCRETE PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO NEAT STRAIGHT LINES BEFORE PAVEMENT REPAIR TO INSURE THAT ALL AREAS TO BE REPAIRED ARE ACCESSIBLE TO COMPACT THE SUBGRADE OR PAVING MATERIALS.

2. CONCRETE PAVEMENT SHALL BE REMOVED TO NEATLY SAWED EDGES. SAW CUTS SHALL BE MADE TO A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2) INCHES. IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE (3) FEET (10 FEET FOR STATE & FEDERAL HIGHWAYS) OF A CONSTRUCTION JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHERE DAMAGED SUBSEQUENT TO SAW CUTTING OR THE PAVEMENT, SHALL AGAIN BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS. SUCH SAW CUTS SHALL BE PARALLEL TO THE ORIGINAL SAW CUTS OR SHALL BE CUT ON AN ANGLE WHICH DEPARTS FROM THE ORIGINAL SAW CUT NOT MORE THAN ONE (1) INCH IN EACH SIX (6) INCHES.

3. CONCRETE CURB, WALKWAYS, GUTTERS & DRIVEWAYS SHALL BE REMOVED TO NEATLY SAWED EDGES WITH SAW CUTS TO A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2) INCHES. CONCRETE SIDEWALK OR DRIVEWAY TO BE REMOVED SHALL BE NEATLY SAWED IN STRAIGHT LINES PARALLEL TO THE CURB OR AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK. NO SECTION TO BE REPLACED SHALL BE SMALLER THAN THIRTY (30) INCHES IN EITHER LENGTH OR WIDTH. IF SAW CUT IN WALKWAY OR DRIVEWAY WOULD FALL WITHIN 30 INCHES OF A CONSTRUCTION JOINT, EXPANSION JOINT, OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE EXCEPT WHERE THE SAW CUT WOULD FALL WITH TWELVE (12) INCHES OF A SCORE MARK, THE SAW CUT SHALL BE MADE IN AN ALONG THE SCORE MARK. WHERE A PAVED CONCRETE DRIVEWAY RETURN APRON IS CUT, THE COMPLETE RETURN APRON SHALL BE REPLACED FROM THE STREET ROADWAY BACK TO THE APPROVED CUT. FURTHEST FROM THE ROADWAY BEYOND THE TANGENT POINT OF THE RETURN RADIUS, THE FINISHED RETURN RADIUS SHALL BE AT LEAST AS LARGE AS THAT ON THE ORIGINAL DRIVEWAY APRON. CURB & GUTTER SHALL BE SAWED TO A DEPTH OF ONE AND ONE-HALF (1-1/2) INCHES ON A NEAT LINE AT RIGHT ANGLES TO THE CURB FACE.

IV. CONCRETE PAVEMENT:

1. PROVIDE REPLACEMENT CONCRETE PAVEMENT IN ROADWAYS WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED WHERE NEW WORK NECESSITATES CUTTING EXISTING CONCRETE PAVEMENT. CONCRETE PAVEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 350 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION, WITH SPECIFIC APPLICABILITY OF THE REQUIREMENTS OF PARAGRAPH 350-312 FOR PAVING OF SMALL OR NARROW AREAS, EXCEPT THAT PARAGRAPHS 350-20 AND 350-21 SHALL BE OMITTED.

2. CONCRETE PAVEMENT FOR DRIVEWAYS SHALL BE SIX (6) INCHES 3000 PSI CONCRETE.

3. CONTRACTION, EXPANSION AND CONSTRUCTION JOINTS SHALL BE FORMED AND INSTALLED IN CONFORMANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, SECTION 350.12.

4. NEWLY PLACED CONCRETE PAVEMENT SECTIONS SHALL BE PROPERLY BARRICADED AND LIGHTED BY THE CONTRACTOR TO EXCLUDE TRAFFIC DURING THE CURING PERIOD.

V. CURB AND GUTTER:

1. EXISTING CURBS AND CURB & GUTTER SECTIONS SHALL BE CUT OUT AS NECESSARY TO PERMIT CONSTRUCTION OF THE WORK AS AUTHORIZED BY THE ENGINEER.

2. REPLACEMENT CURBS OR CURB & GUTTER SHALL BE CONSTRUCTED OF CAST-IN-PLACE 3,000 PSI CONCRETE, AS SPECIFIED UNDER SECTION 130, PORTLAND CEMENT CONCRETE AND SHALL CONFORM TO THE EXISTING TYPE OF CONSTRUCTION UNLESS DIRECTED OTHERWISE. IF THE LIMITS OF THE AREA TO BE REPAIRED FALL WITHIN THIRTY (30) INCHES OF THE NEAREST JOINT, REPLACEMENT SHALL BE MADE TO SUCH JOINT.

3. WHERE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD CURB & GUTTER HAS BEEN REMOVED, SUCH SHALL BE REPLACED WITH SIMILAR CONSTRUCTION IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.

4. ALL CURBS & GUTTERS OUTSIDE THE LIMIT OF CONSTRUCTION WHICH ARE WHOLLY OR NEGLIGENTLY DESTROYED, BROKEN OR OTHERWISE DEFACED SHALL BE REMOVED, DISPOSED OF AND REPLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.

VI. REPLACEMENT WALKWAYS & DRIVEWAYS:

1. WHERE DAMAGED OR REQUIRED TO BE CUT BY THE CONTRACTOR'S OPERATIONS, WALKWAYS & DRIVEWAYS SHALL BE REPAIRED TO CONFORM TO THE EXISTING TYPE CONSTRUCTION. WALKWAYS & DRIVEWAYS OTHER THAN CONCRETE SHALL BE RESTORED BY APPROVED METHODS AND MATERIALS, EQUAL TO OR BETTER THAN ORIGINAL CONDITION.

2. FOR THE RESTORATION OF CONCRETE WALKWAYS & DRIVEWAYS, THE EXISTING ADJACENT CONCRETE SHALL BE CUT BACK WITH A MASONRY SAW OR REMOVED TO THE NEAREST DUMMY EXPANSION JOINT, TO REMOVE UNDERMINED CONCRETE AND PROVIDE SQUARE EDGES, PER PARAGRAPH III.3, THIS SECTION.

3. THE AREA OVER WHICH THE CONCRETE IS TO BE PLACED SHALL BE FILLED TO THE PROPER GRADING AND WIDTH. THE BED SHALL BE THOROUGHLY COMPACTED BY APPROVED MECHANICAL COMPACTION EQUIPMENT TO 100 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY STANDARD COMPACTION TEST (ASTM DESIGNATION D698-70). IN ALL CASES WHERE FILL IS REQUIRED TO BRING THE SUBGRADE TO THE REQUIRED ELEVATION, THE FILLING SHALL BE MADE IN LAYERS NOT TO EXCEED SIX (6) INCHES IN DEPTH BEFORE TAMPING AND EACH LAYER SHALL BE THOROUGHLY COMPACTED. FILLING SHALL BE AT +/- TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION. A TOLERANCE OF MINUS TWO (2) PERCENT (-2%) WILL BE ALLOWED IN THE COMPACTION EFFORT.

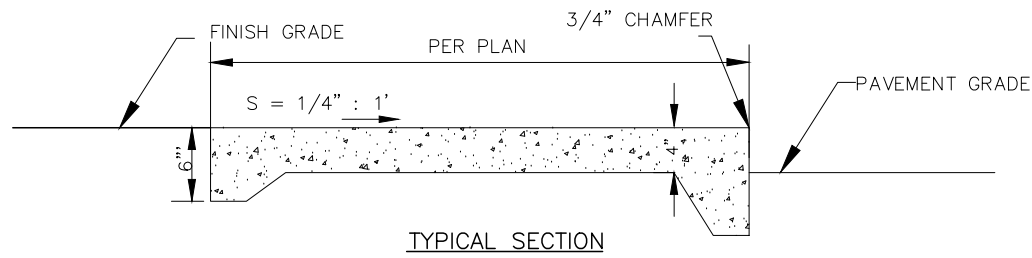
4. AN APPROVED TYPE OF EXPANSION JOINT SHALL BE INSERTED ACROSS WALKWAYS AT INTERVALS NOT EXCEEDING EIGHTEEN (18) FEET WITH DUMMY GROVE JOINTS AT SIX (6) FOOT INTERVALS. WHERE WALKWAYS & DRIVEWAYS MUST BE REPLACED WHERE THEY INTERSECT, EXPANSION JOINTS SHALL BE PROVIDED ON ALL FOUR (4) SIDES OF THE REPAIR.

5. THE THICKNESS OF CONCRETE WALKWAYS & DRIVEWAYS SHALL BE EQUAL TO OR GREATER THAN EXISTING, BUT NOT LESS THAN FOUR (4) INCHES FOR WALKWAYS AND SIX (6) INCHES FOR DRIVEWAYS. CONCRETE WALKWAYS & DRIVEWAYS SHALL BE MONOLITHIC CONSTRUCTION AND SHALL BE 3,000 PSI CONCRETE AS SPECIFIED UNDER SECTION 130, PORTLAND CEMENT CONCRETE.

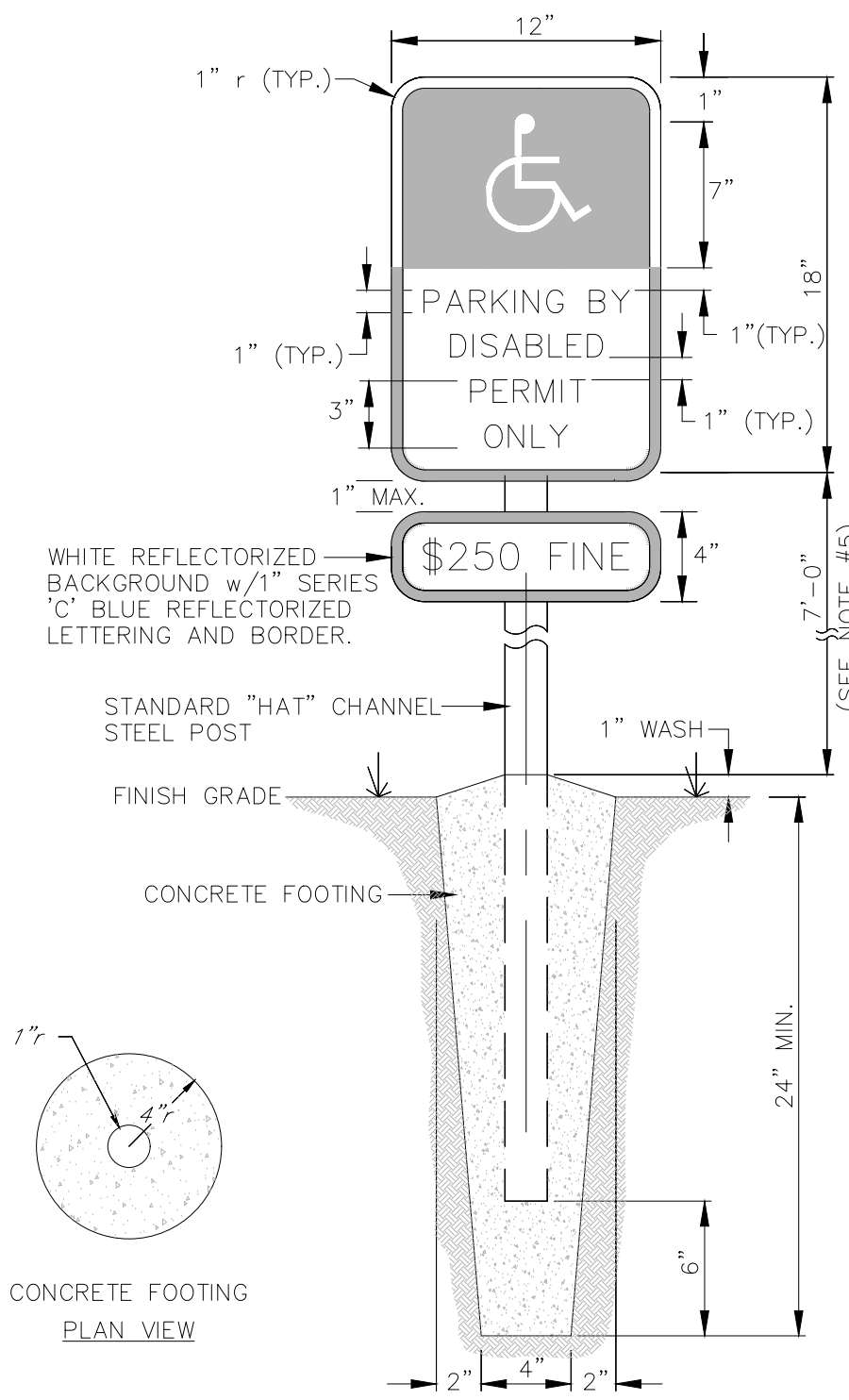
6. WHEN THE SUBGRADE HAS BEEN PREPARED IT SHALL BE MOISTENED SUFFICIENTLY TO PREVENT RAPID LEACHING OF WATER FROM THE CONCRETE AND THE CONCRETE SPREAD ON THE MOIST SUBGRADE FOR THE FULL WIDTH AND DEPTH. IT SHALL BE BROUGHT TO THE REQUIRED GRADE AND THOROUGHLY COMPACTED AND FINISHED BY FLOATING AND TROWELING UNTIL THE SURFACE IS DENSE AND SMOOTH, TRUE TO GRADE, FREE FROM LUMPS AND DEPRESSIONS, AND THEN GIVEN A BROOM FINISH.

7. WHERE WALKS ARE POURED AGAINST WALLS OR STRUCTURES, APPROVED TYPE EXPANSION JOINTS SHALL BE INSTALLED BETWEEN THE WALKS AND THE WALL OR STRUCTURE.

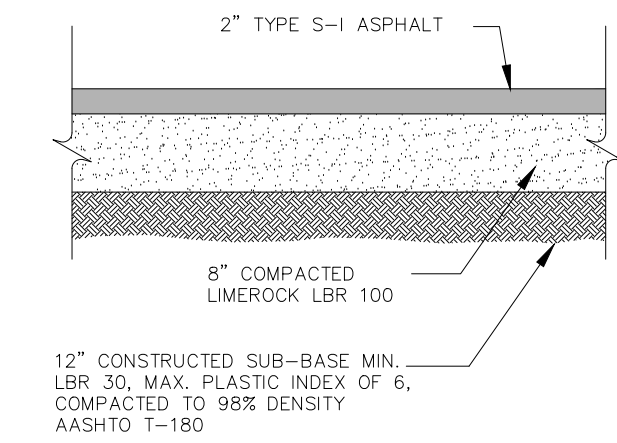
8. ALL SURFACES WHICH HAVE BEEN INJURED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TOTHEY WERE FOUND IMMEDIATELY BEFORE THE WORK WAS BEGUN. SUITABLE MATERIALS AND METHODS SHALL BE USED IN SUCH RESTORATION.



3 CONCRETE SIDEWALK
C-5.0 3000 PSI CONCRETE



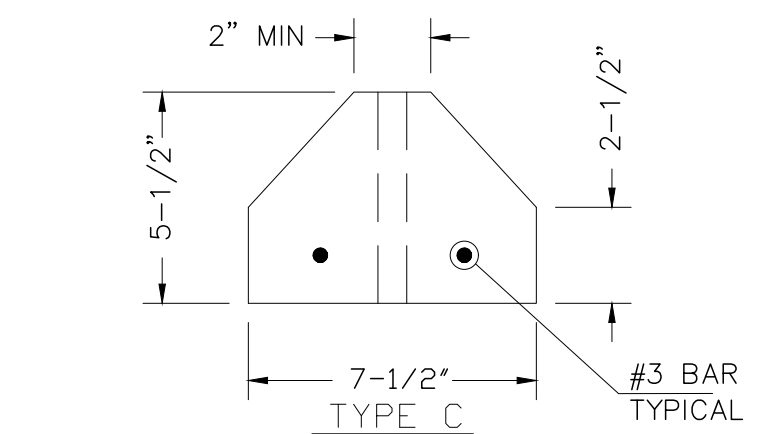
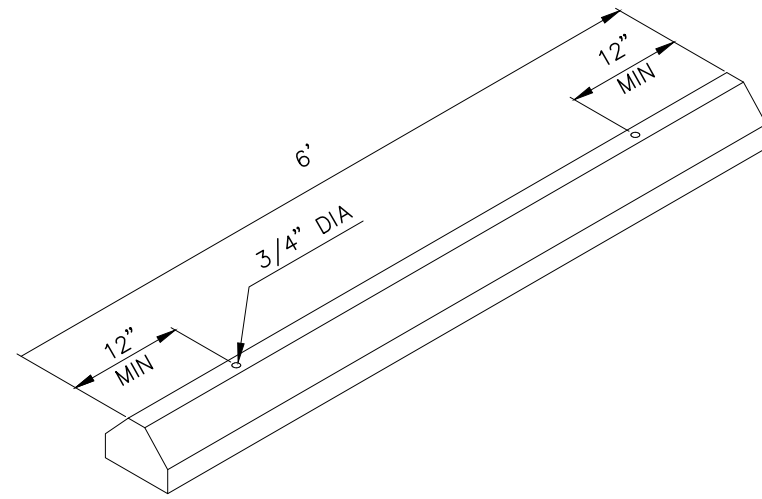
1 HANDICAPPED SIGN DETAILS
C-5.0 SCALE NTS



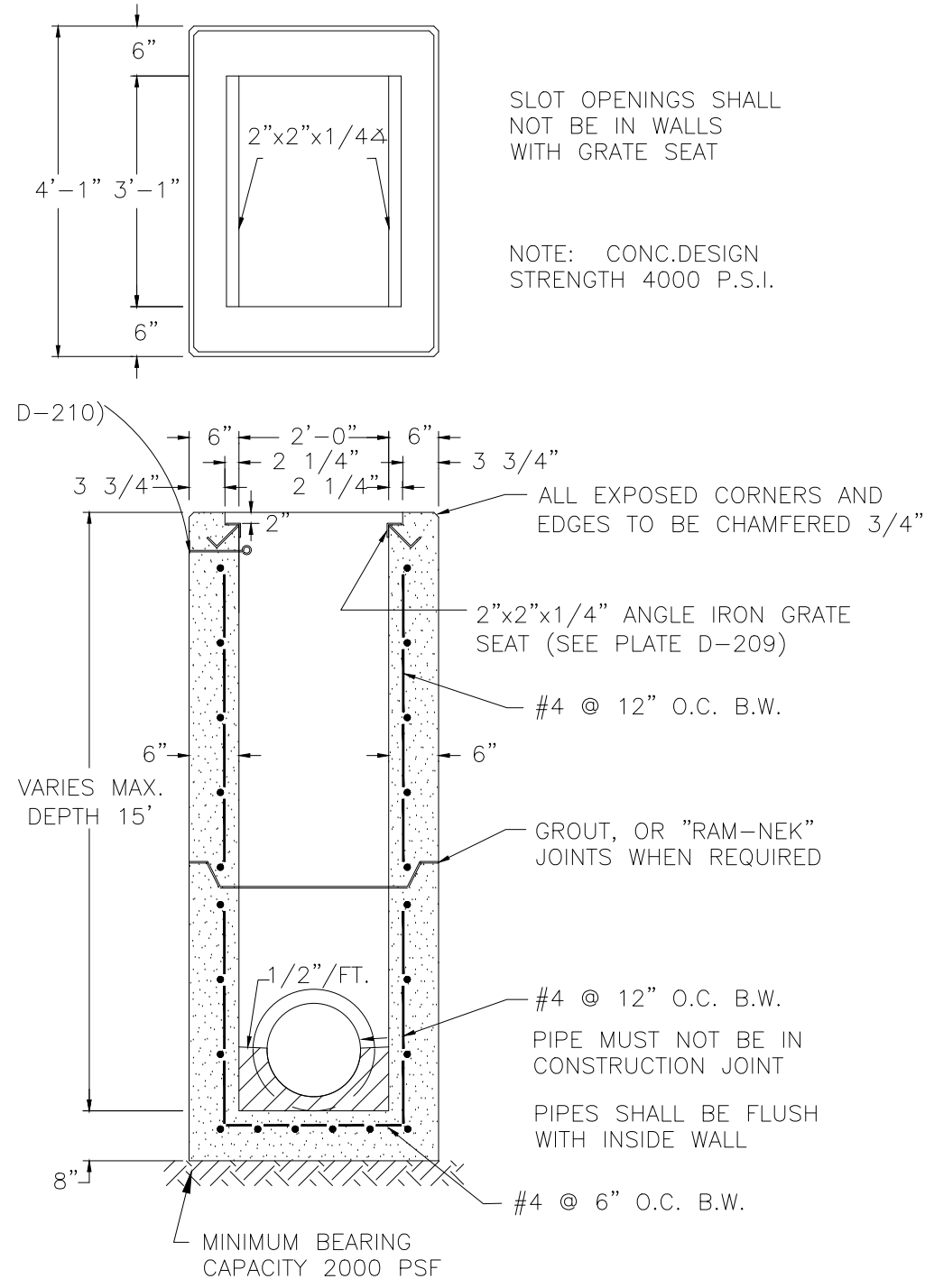
4 ASPHALT PAVEMENT SECTION
C-5.0 NTS

NOTES

- ALL LETTERS ARE 1" SERIES.
- TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER.
- BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER
- LETTERS AND NUMBERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
- SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
- HANDICAPPED PARKING SPACE SIZE, STRIPING, AND SIGNAGE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE, & FEDERAL REGULATIONS.



5 REINFORCED CONCRETE WHEEL STOP
C-5.0



2 STORM SEWER TYPE 'C' INLET
C-5.0

NOTES:

- WHEEL STOPS TO BE PLACED 2' BACK, AS SHOWN ABOVE, CENTERED IN THE PARKING STALL
- WHEEL STOPS CAN BE PAINTED IN A CONTRASTING COLOR SUCH AS GRAY, YELLOW OR BLACK. BLUE SHALL BE USED FOR HANDICAP PARKING STALLS.

EHIDE & HALL ARCHITECTS, P.A.
1320 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32067
TEL: (904) 264-8110 FAX: (904) 264-8060
LIC. NO. A-400860

MICHELE M. AGEE, P.E., P.A.
1320 KINGSLEY AVE., SUITE C
ORANGE PARK, FLORIDA 32067
904-264-9914 (OFF) FL CA-262142

**NEW MANDARIN WRF STORAGE
BUILDING AND PARKING**
10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

JEAFACILITIES

ENGINEER	LICENSE NO.
MICHELE AGEE	49142

Seal / Signature

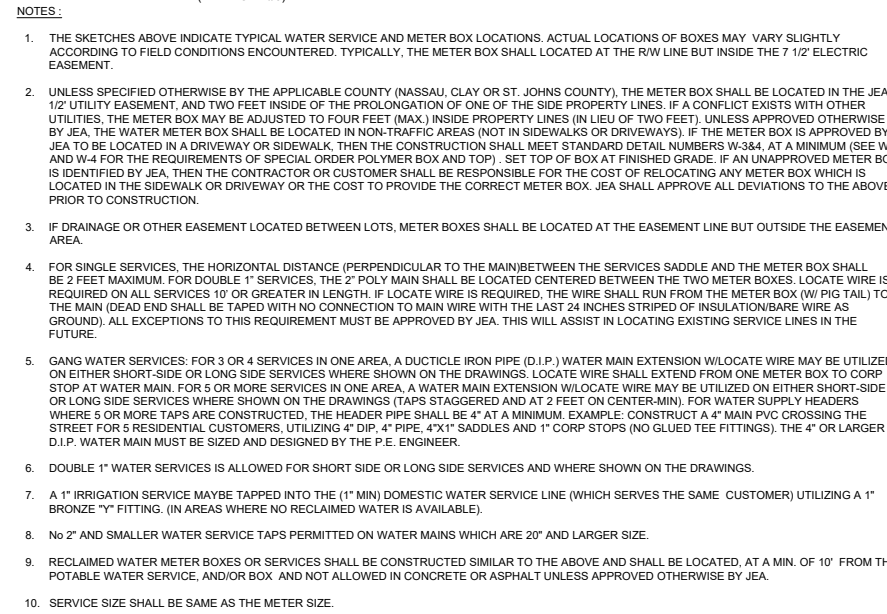
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Revision

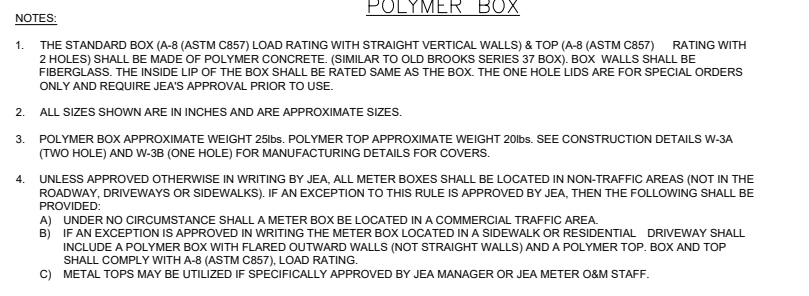
SITE DETAILS

DATE: 10/28/19
D.B.: MMA
C.B.: DSS
JOB NO: 19023

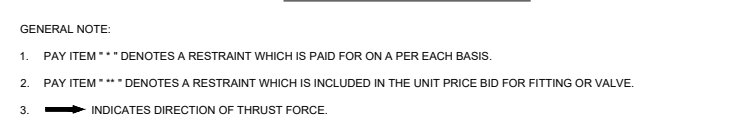
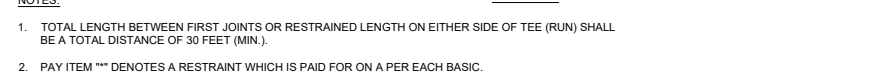
C-5.0
FOR CONSTRUCTION

January 2018 PLATE W-1

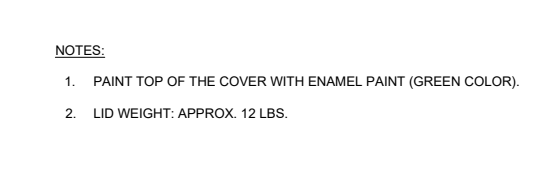
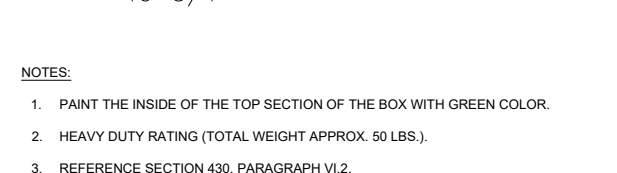
JANUARY 2018 PLATE W-



JANUARY 2018 PLATE W-3

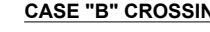
JANUARY 2018 PLATE W-31C

JANUARY 2018 PLATE W-31D

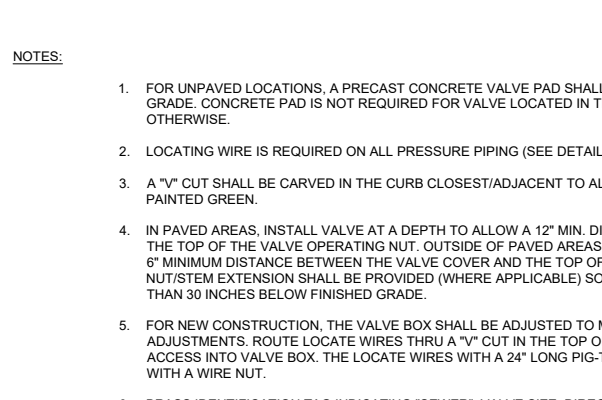
JANUARY 2018 PLATE S-31

JANUARY 2018 PLATE S-32

PVC PIPE RESTRAINT JOINT SCHEDULE

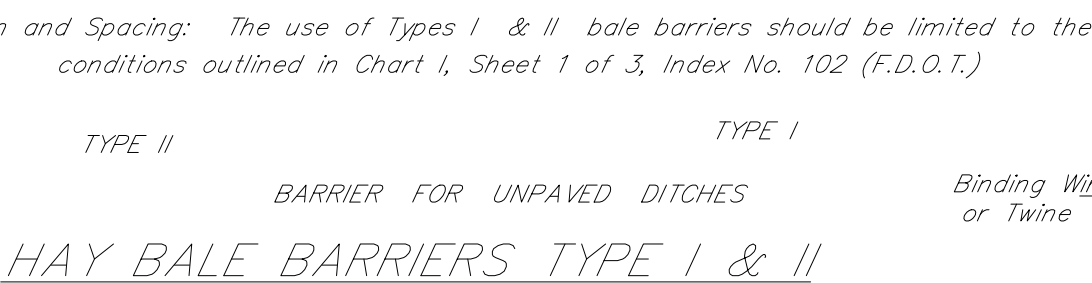
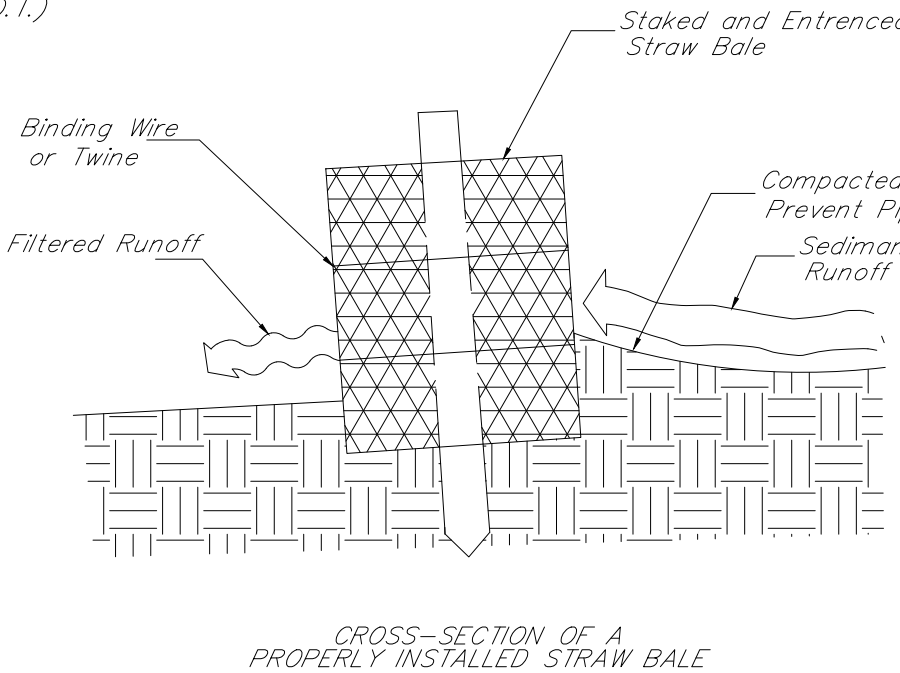
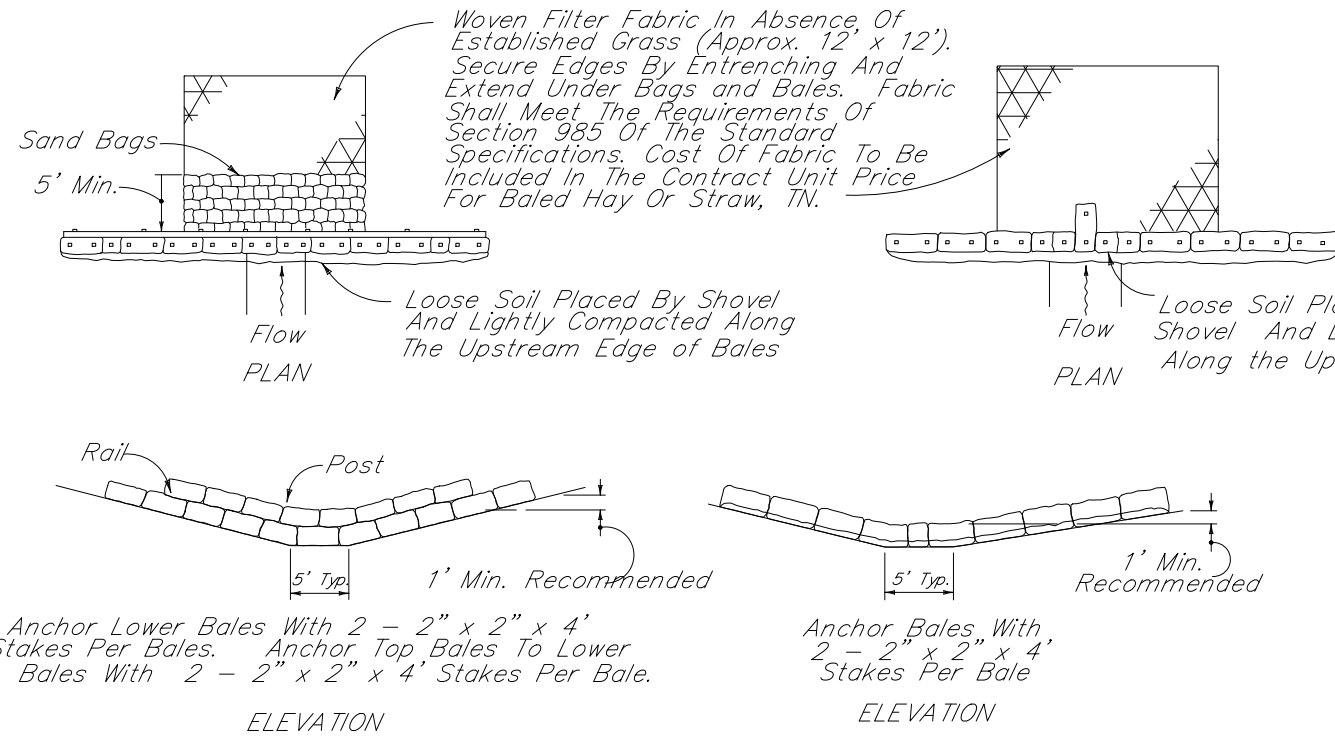
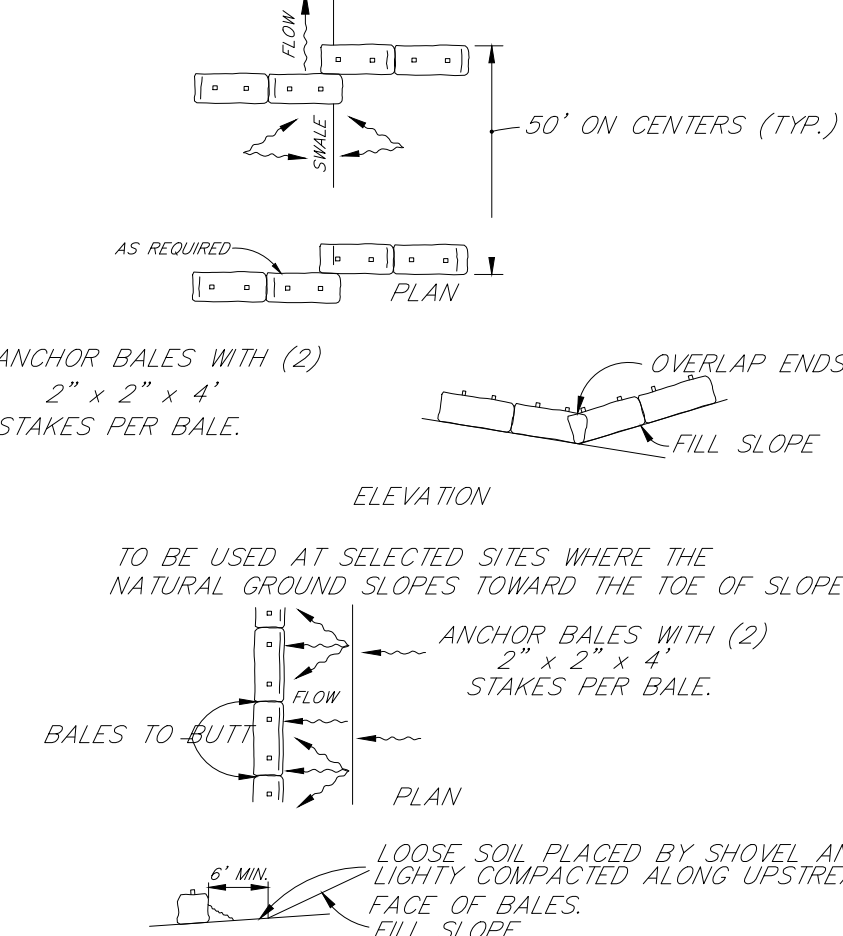
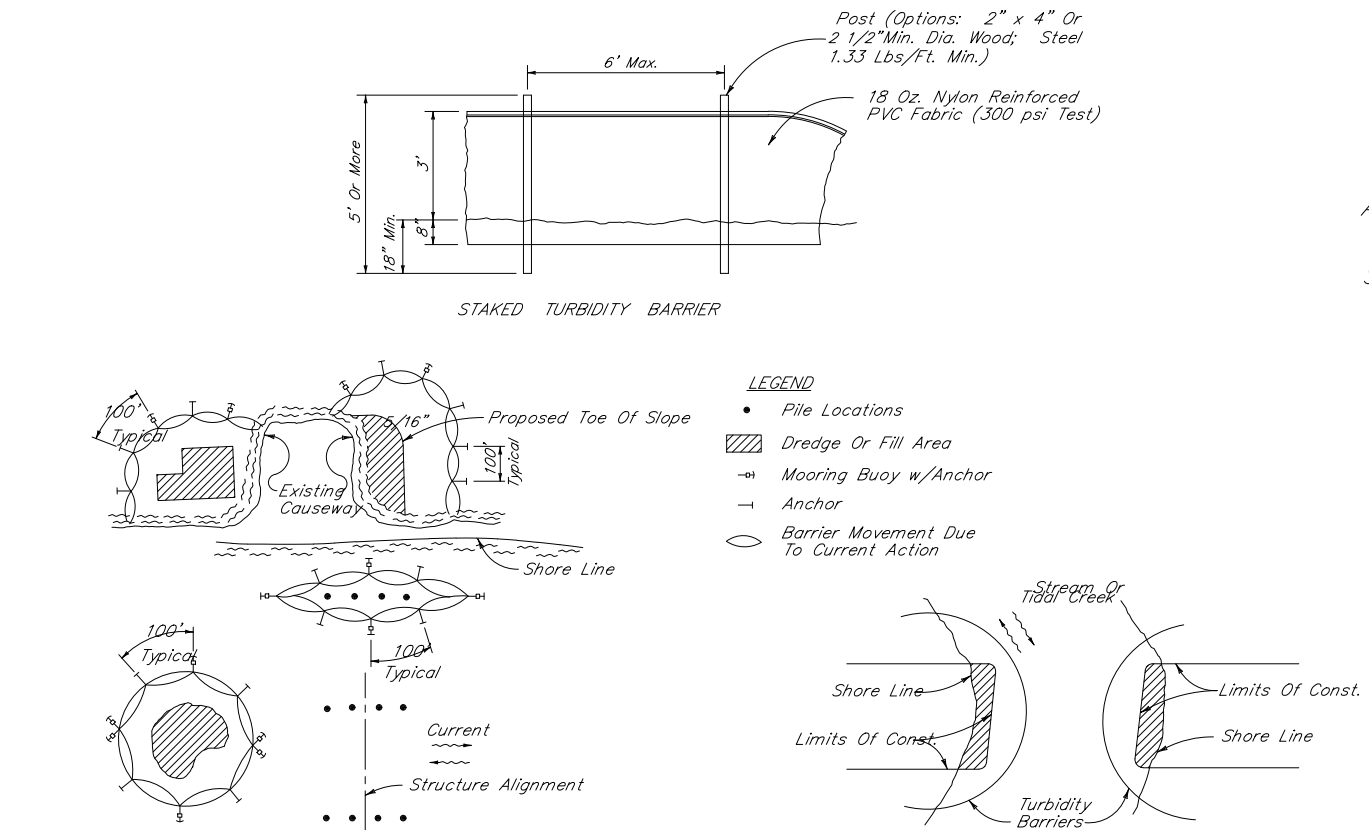
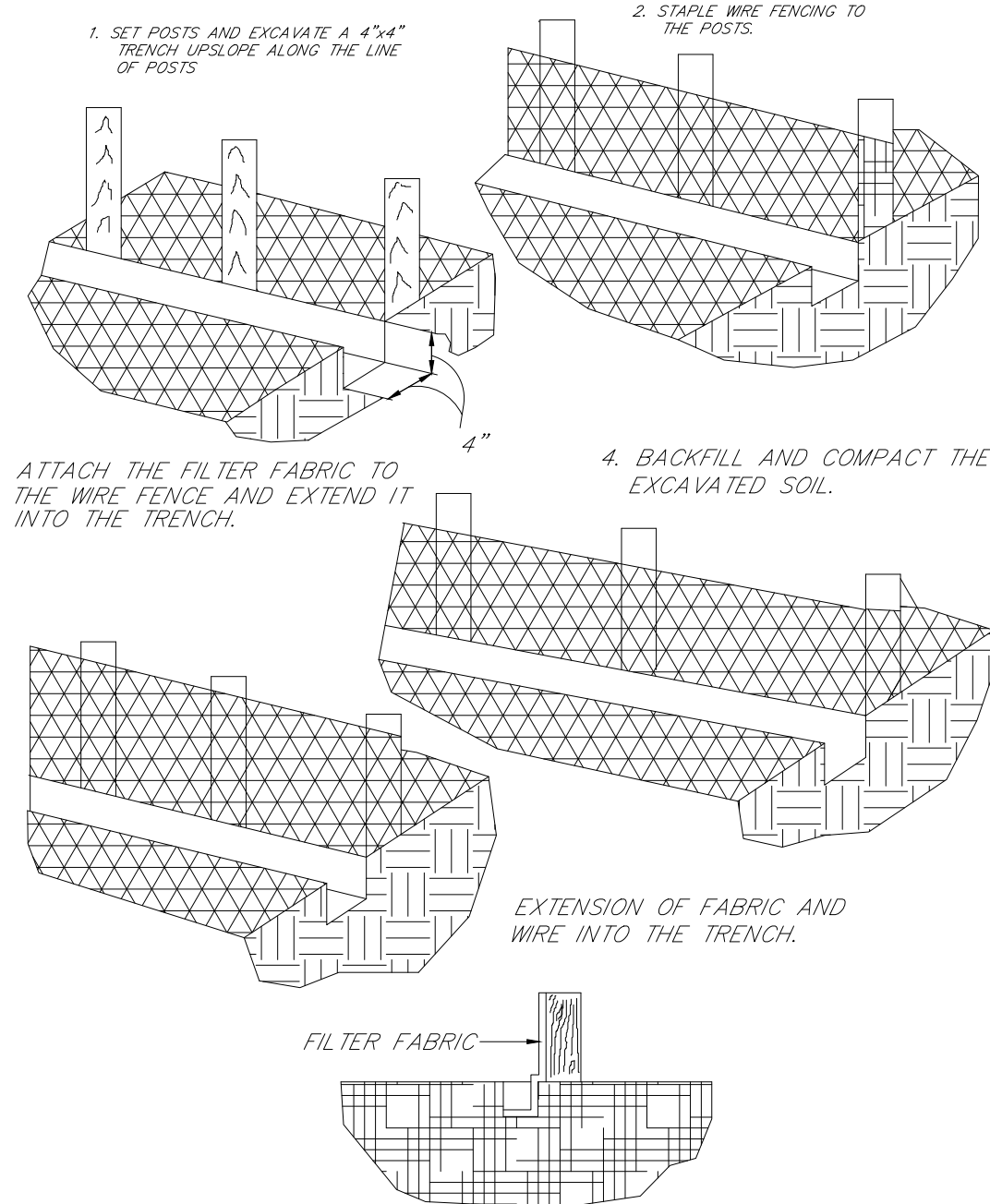
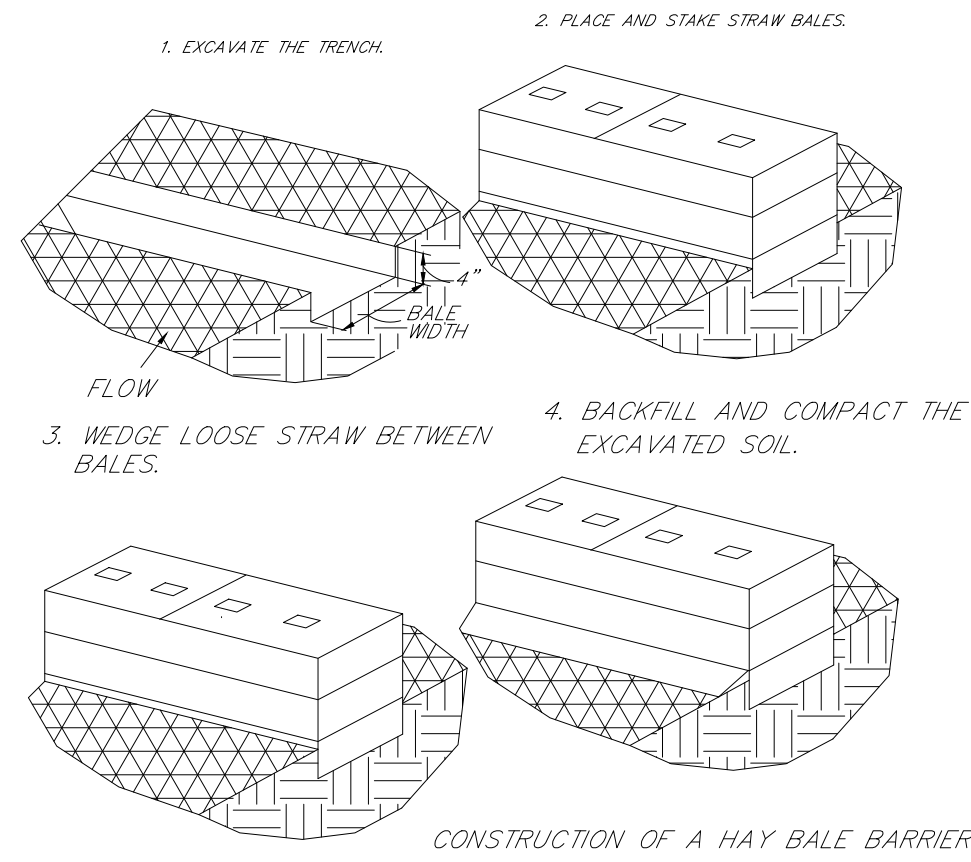
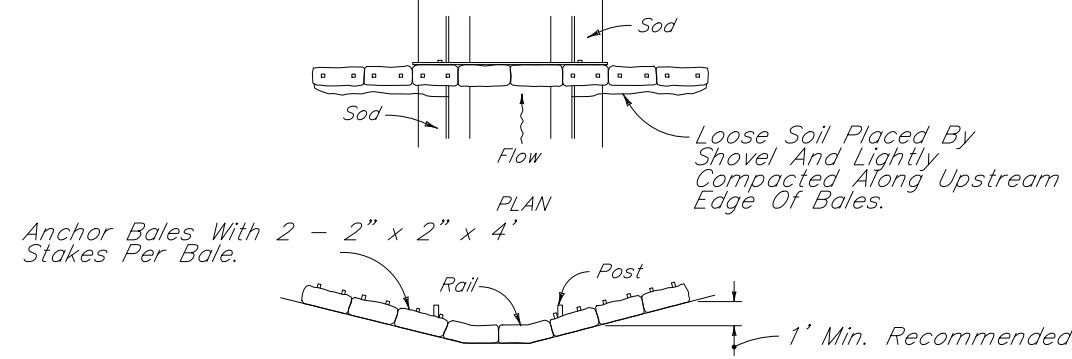
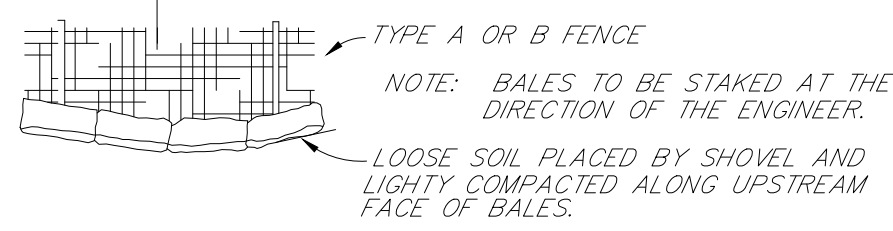
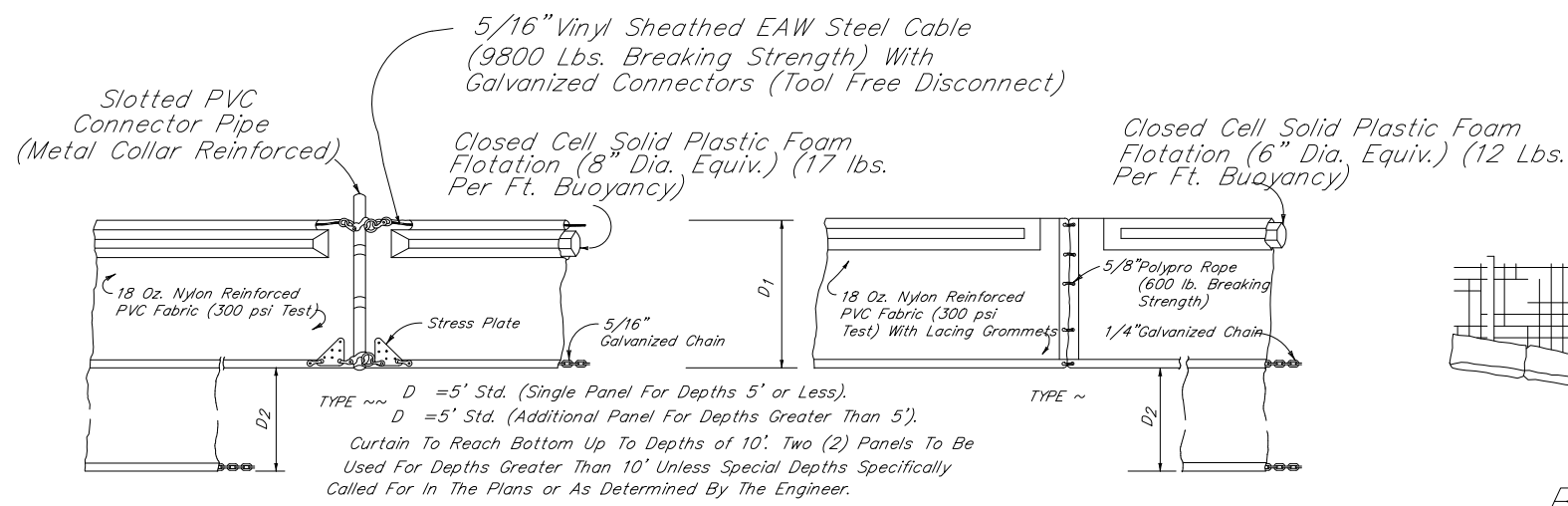
JANUARY 2018 PLATE W-3

JANUARY 2018 PLATE W-32



JANUARY 2018 PLATE S-30

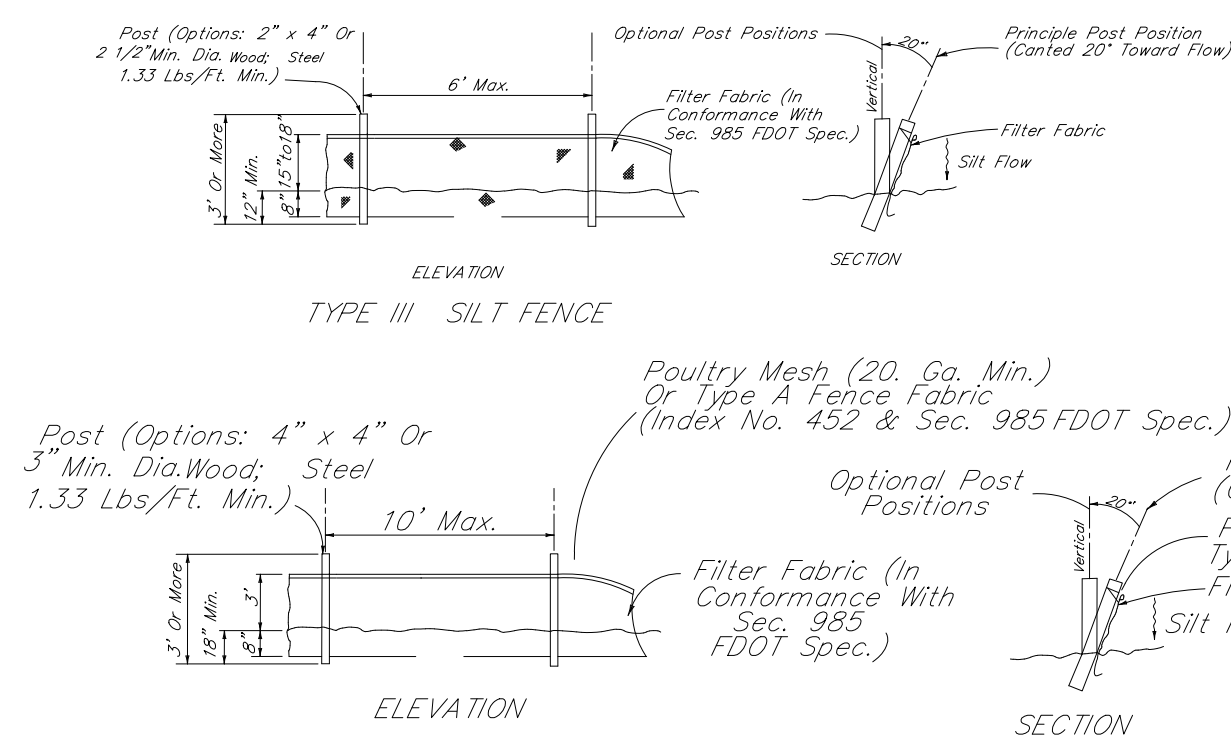
 BHIDE & HALL ARCHITECTS, P.A. 1329 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073 TEL (904) 364-8159 FAX (904) 364-8162		MICHELE M. AGEE, P.E., P.A. 1329 KINGSLEY AVE., SUITE C ORANGE PARK, FLORIDA 32073 904-244-8914 (PH) FL C4-626142	
 NEW MANDARIN WRF STORAGE BUILDING AND PARKING 10828 HAMPTON ROAD JACKSONVILLE, FL 32257			
ENGINEER MICHELE AGEE		LICENSE NO. 49142	
Seal / Signature			
Date			
Revision			
WATER DETAILS			
DATE: 10/28/19		MMA	
D.B.:		DSS	
C.B.:		19023	
JOB NO:			
C-5.1 FOR CONSTRUCTION			



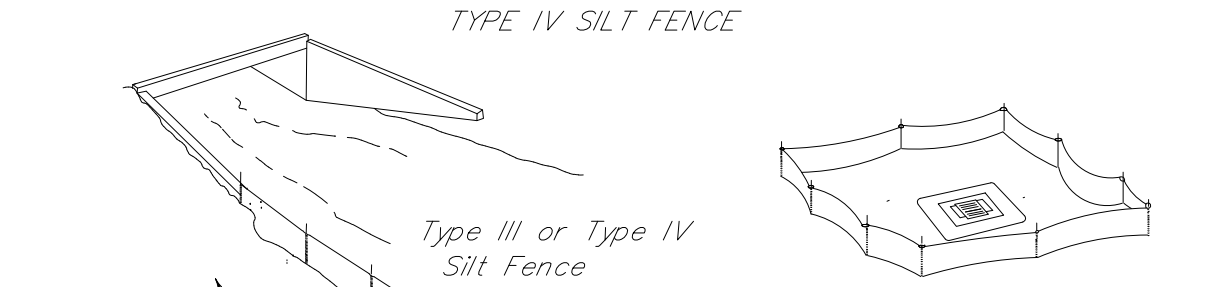
SEEDING MIXTURES, RATES AND DATES

Site Conditions	Seeding Mixtures	Seeding Rate		Seeding Dates		Comments
		Per Acre	Per 1000 Ft ²	N. Fla.		
High Maintenance Lawns						
General Use	1. Bahiagrass	40-60 lbs	1 lb	2/15-8/31		Use 50% scarified seed.
	2. Bahiagrass	40-60 lbs	1 lb	2/15-8/15		Use 50% scarified Bahia seed.
	3. Bermudagrass (hulled)	8-12 lbs	4 oz			
	3. Bahiagrass with one of the following:	20-30 lbs	5 lb			Use 50% scarified Bahia seed.
	Southern White Clover	3 lbs	1.2 oz	9/1-1/1		Inoculate legumes.
	Annual White Sweetclover	8 lbs	3/8-1/1			
	Crimson Clover	12 lbs	4.5 oz	9/1-1/1		
	Arrowleaf Clover	8 lbs	3 oz	9/1-1/1		
	Alyce Clover	8 lbs	3 oz	2/15-7/15		
	Hairy Indigo	4 lbs	1.5 oz	2/15-7/15		
	Ascyrum	12 lbs	4.5 oz	2/15-7/15		
	Slopes	1. Sericea lespedeza	a. 40-50 lbs b. 75 lbs	1.2 lbs 1.7 lbs	1/1-7/15 7/15-1/1	
2. Sericea lespedeza with one of the following:						Use seeding rate specified above.
Bahiagrass		15 lbs	7 oz	2/15-8/15		
Tall Fescue		20 lbs	8 oz	10/1-11/15		Best adapted to N. Florida
Weeping Lovegrass		3 lbs	1.2 oz	2/15-8/15		
Droughty Areas		1. Weeping Lovegrass	5 lbs	2 oz	2/15-8/15	
	2. Weeping Lovegrass with one of the following:					
	a. Bahiagrass (50% scarified seed)	5 lbs	2 oz	2/15-8/15		
	b. Bermudagrass (Hulled)	30-40 lbs	12 oz	2/15-8/15		
	c. Hairy panicum	8-12 lbs	4 oz	2/15-8/15		
	d. Sericea lespedeza	8-12 lbs	4 oz	2/15-8/15		Use seeding rate and dates specified above.

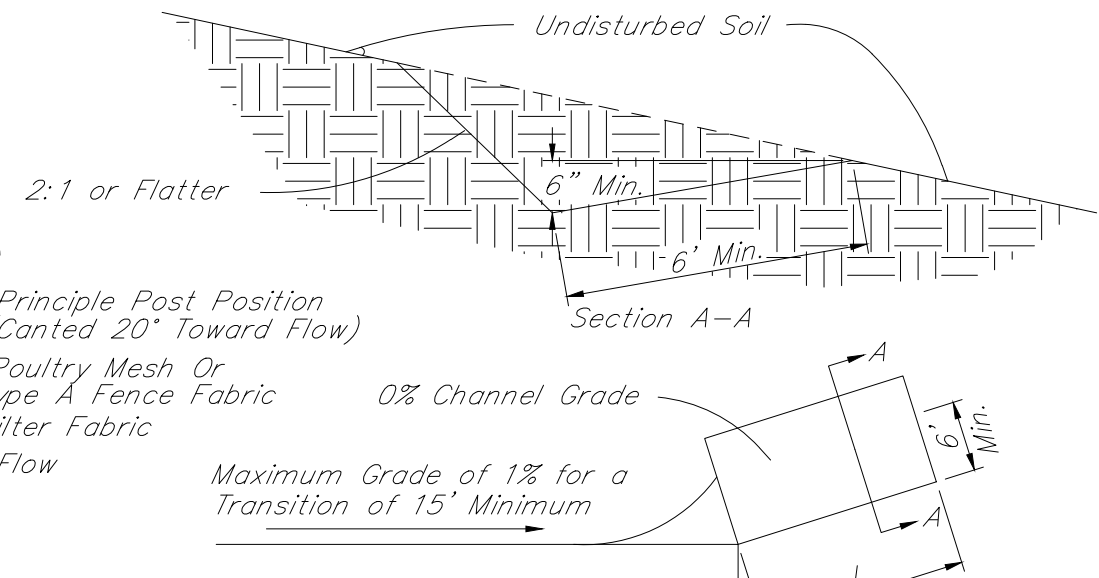
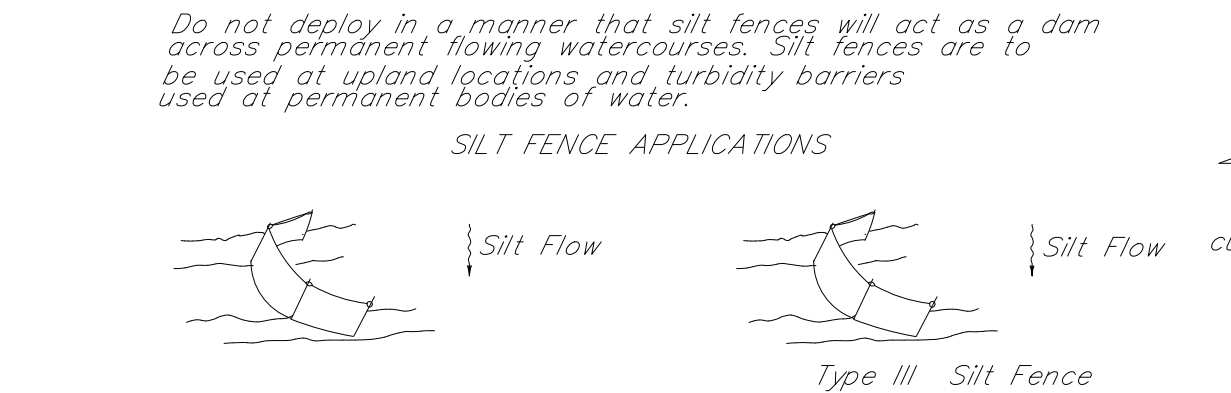
SEEDING MIXTURES, RATES AND DATES



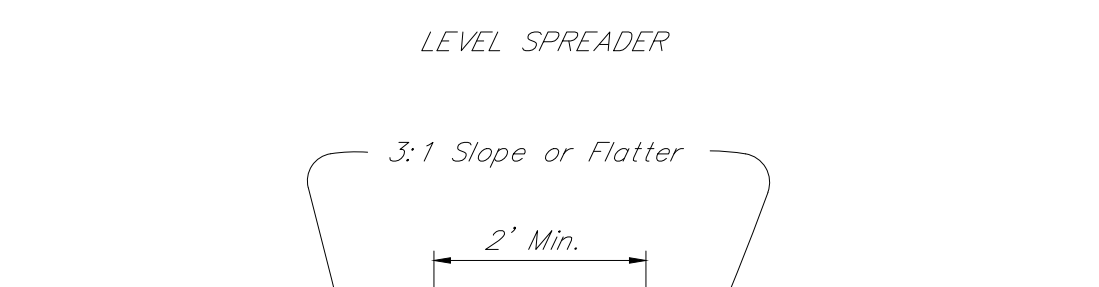
Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).



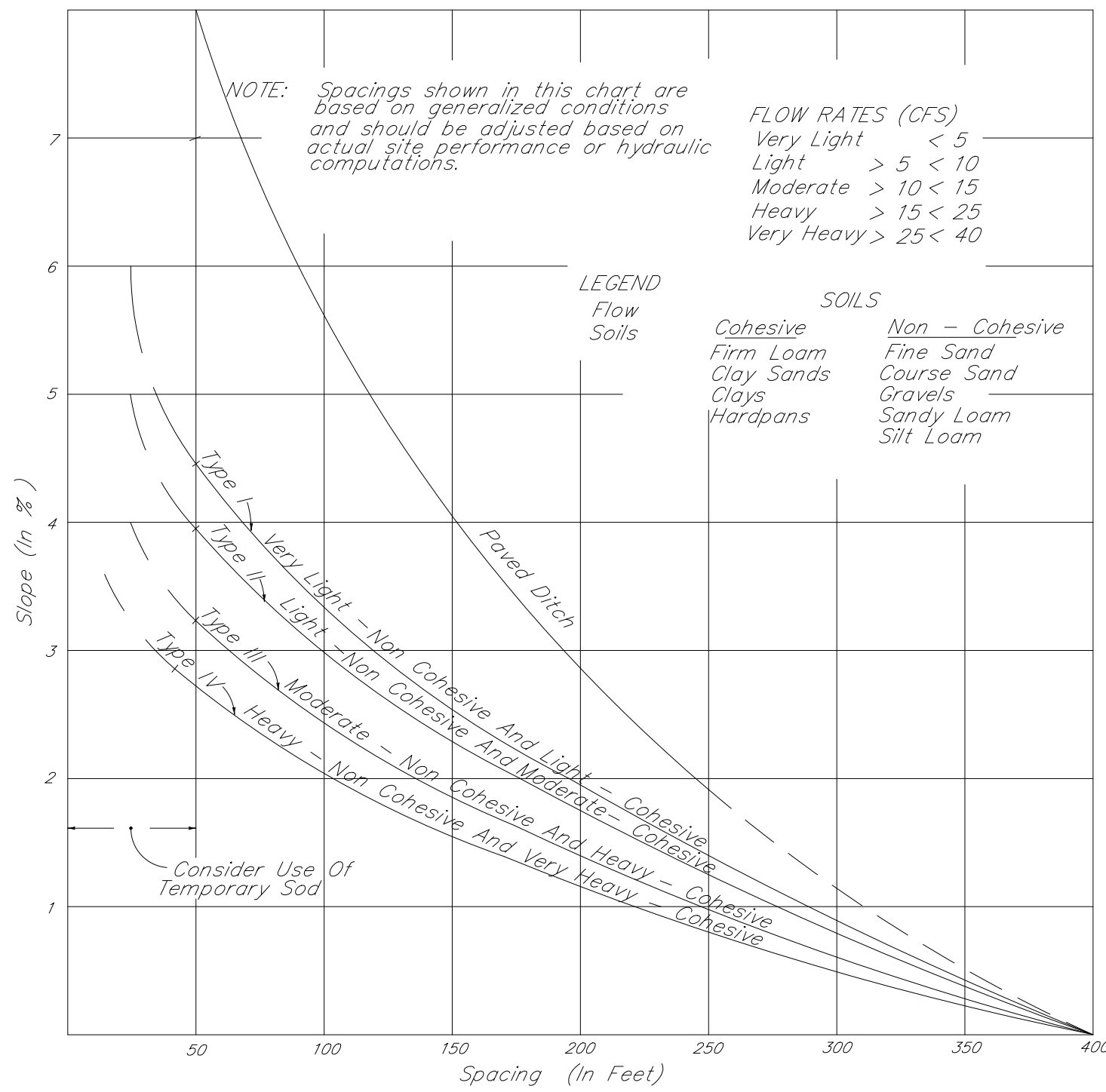
Note: Spacing for Type III Fence to be in accordance with Chart ~ Plate D-906 and ditch installations at drainage structures above.



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).



Note: Spacing for Type III Fence to be in accordance with Chart ~ Plate D-906 and ditch installations at drainage structures above.



RECOMMENDED SPACING FOR TYPE ~ AND TYPE ~ HAY BALE BARRIERS, AND TYPE ~ AND TYPE IV SILT FENCES AND PAVED DITCH HAY BALE BARRIERS

SPACING RECOMMENDATION FOR SILT FENCES AND HAY BALES

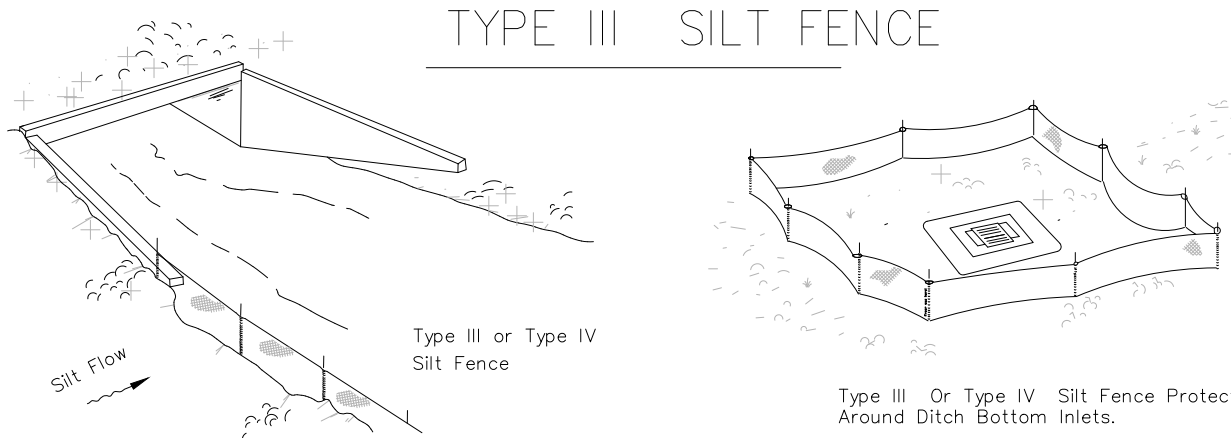
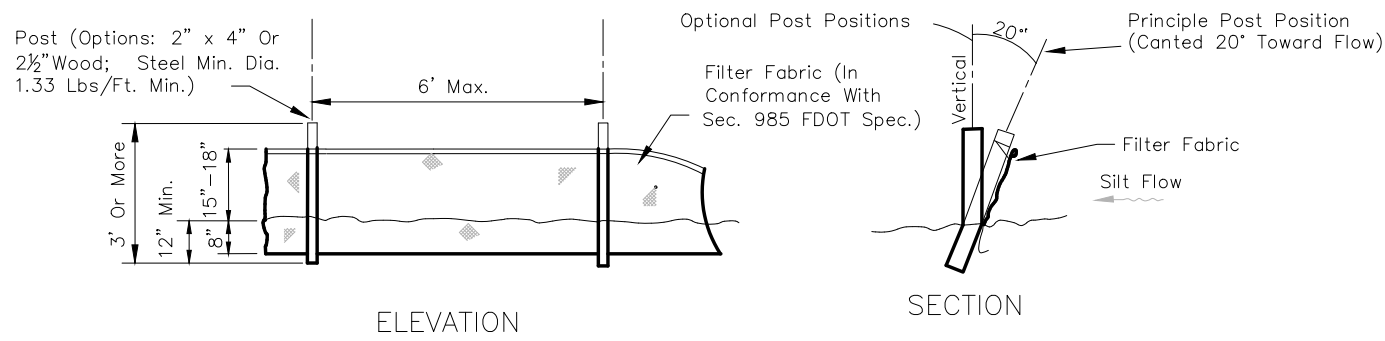
Common Name (Botanical Name)	Seeding Rate		Planting Dates		Comments
	Acre	1000 ft ²	N. FLA.	M. FLA.	
OATS (Avena sativa)	3 Bu (125 lbs)	3 lbs	September-February		Will not tolerate flooding, high water table soils.
RYE (Secale cereale)	3 Bu (120 lbs)	4 lbs	September-February		Tolerates cold and drought.
WHEAT (Triticum sp.)	3 Bu (120 lbs)	3 lbs	September-February		Volunteers may return.
ANNUAL RYEGRASS (Lolium multiflorum)	60 lbs	1.5 lbs	September-February		Annual winter legume. Inoculate seed at 5 times recommended rate. Does poorly on deep dry sands, will not tolerate flooding.
CRIMSON CLOVER (Trifolium incarnatum)	25 lbs	9 oz	September-November		Annual winter legume. Inoculate seed at 5 times recommended rate. Grows best on moist soils, will not tolerate flooding. Easily hurt by drought.
RED CLOVER (Trifolium pratense)	15 lbs	6 oz	September-December		Annual winter legume. Inoculate seed at 5 times recommended rate. Grows well on both flatwoods and upland soils. Will not tolerate flooding.
WHITE CLOVER (Trifolium repens)	6 lbs	2.5 oz	September-December		Annual winter legume. Inoculate seed at 5 times recommended rate. Grows best on moist-wet soils, tolerates some flooding.
ANNUAL SWEET CLOVER (Medicago sativa)	15 lbs	6 oz	September-December		Annual winter legume. Inoculate seed at 3-5 times recommended rate. Grows on soil too wet for crimson, tolerates some flooding. Use scarified seed.
ARROWLEAF CLOVER (Trifolium vesiculosum)	15 lbs	6 oz	September-December		Annual winter legume. Inoculate seed at 3-5 times recommended rate. Grows on soil too wet for crimson, tolerates some flooding. Use scarified seed.
LIARNE CLOVER (Lupinus sp.)	60 lbs	1.5 lbs	September-December		Annual winter legume. Inoculate seed at 3 times recommended rate. Susceptible to freeze damage at time of emergence. Use scarified seed.
ALFALFA (Medicago sativa)	22 lbs	8 oz	September-December		Short lived perennial. Some drought resistance. Grows best on well-drained, fertile soils. Will not tolerate wet soils.
AUSTRIAN WINTER PEAS	45 lbs	1 lb	September-December		Grows best on well-drained soils with high clay content.
HAIRY VETCH (Vicia villosa)	25 lbs	9 oz	September-December		Grows best on well-drained, loamy soils.
ALYCE CLOVER (Medicago sativa)	15 lbs	6 oz	April-July		Warm season annual legume. Grows best on well-drained sandy soils.
COMMON LESPEDEZA (Lespedeza striata)	30 lbs	11 oz	March-July		Warm season annual. Needs inoculation on eroded soils. Grows best on sandy loams. Fairly drought resistant.
HAIRY INDIGO (Indigofera hirsuta)	8 lbs (120 lb)	3 oz	March-July		Warm season annual legume. Most suitable of summer legumes for use in low, wet areas.
JOINT VETCH (Desmodium illinoense)	30 lbs	11 oz	March-July		Warm season annual. Does not tolerate flooding. Grows best in fertile, moist soils. Pearl and Brawntop are good varieties to use.
SESBAMIA (Sesbania macrocarpa)	30 lbs	11 oz	March-July		Warm season annual legume. Does well under extremely wet conditions.
SORGHUM SUDANAGRASS HYBRID	30 lbs	11 oz	March-July		Warm season annual. Rapid grower. Tolerates dryer soils than millet. Grows best on well-drained soils. Can also use Sudangrass alone.
WEEDING LOVEGRASS (Eragrostis curvula)	5 lbs	2 oz	March-August		Short-lived perennial, 2-3 years. Tolerates hot, dry slopes and acid, infertile soils.

Usually mixtures of the above plant materials are better than a single plant alone. Each of the legumes discussed above can be grown in mixture with annual ryegrass and/or the small grains. In a two-crop mixture cut the seeding rate of each crop to one-half of the recommended planting rate when grown alone. Similarly three plant types in a mixture requires approximately one-third of the normal seeding rate for each plant. In a three plant mixture containing a single legume, the legume should be planted at one-half of the pure stand seeding rate.

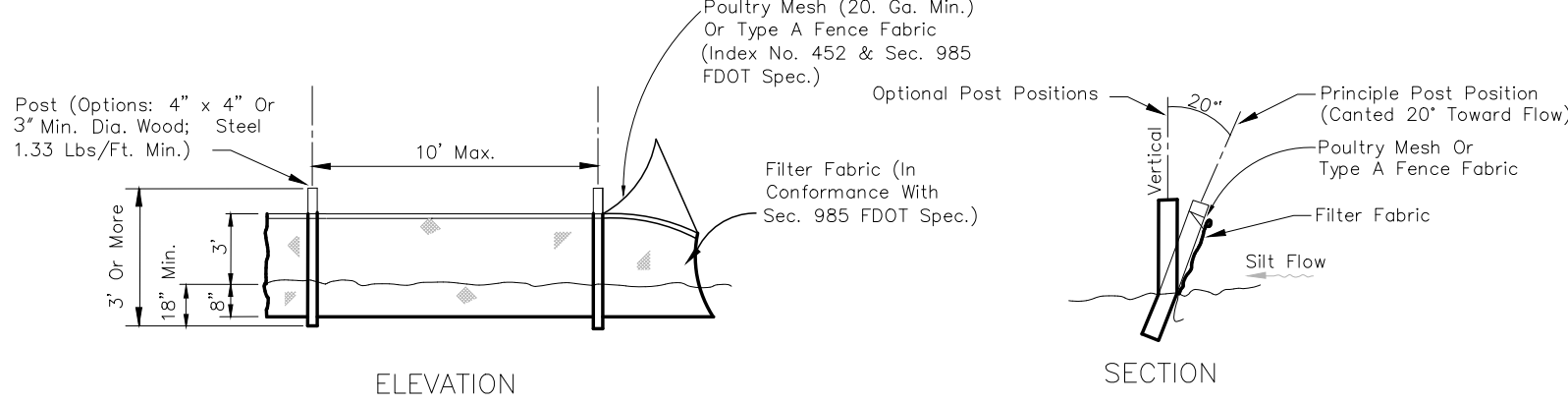
TEMPORARY SEEDING PLANT MATERIALS

EROSION AND SEDIMENT CONTROL NOTES

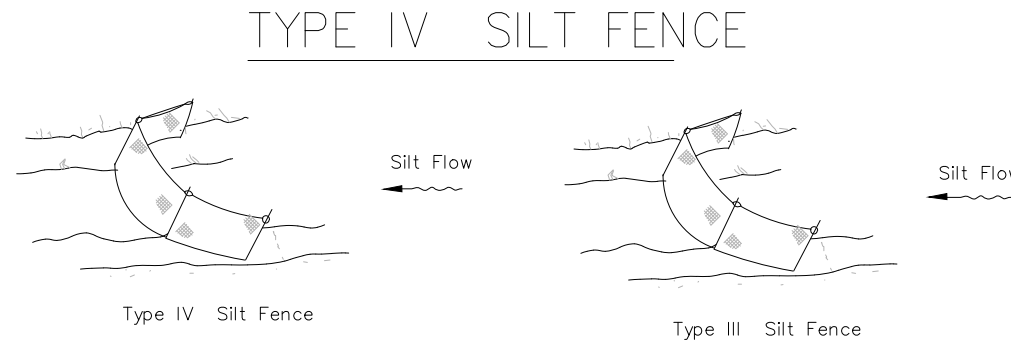
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION — ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL, REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
- THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SURVIVO FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.



Note: Silt Fence to be paid for under the contract lump sum price for Erosion and Sediment Control.



Note: Spacing for Type III & TYPE IV Fence to be in accordance with Chart 1, Sheet 1 of 3, FDOT Index No. 102 and ditch installations at drainage structures Sheet 2 of 3, FDOT Index No. 102.

SILT FENCE APPLICATIONS

SILT FENCE TYPE III & IV

(D-908)
N.T.S.

PROJECT: _____

DATE: _____

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

EARTH DIKE/SWALE		TO		FROM		IS DIKE/SWALE STABILIZED ?		IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING	
DIKE OR SWALE									

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

PROJECT: _____

DATE: _____

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CURB OR DITCH FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 3 OF 4

PROJECT: _____

DATE: _____

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR'S QUALIFICATIONS:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

PROJECT: _____

DATE: _____

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

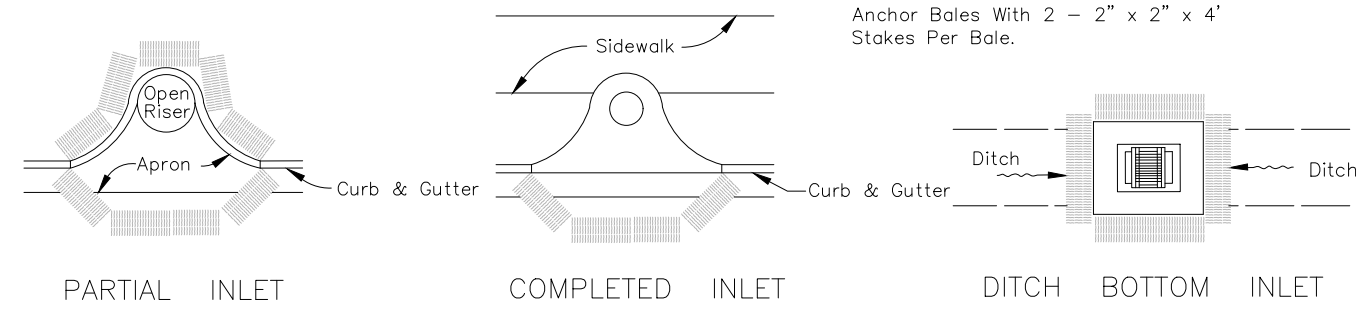
SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

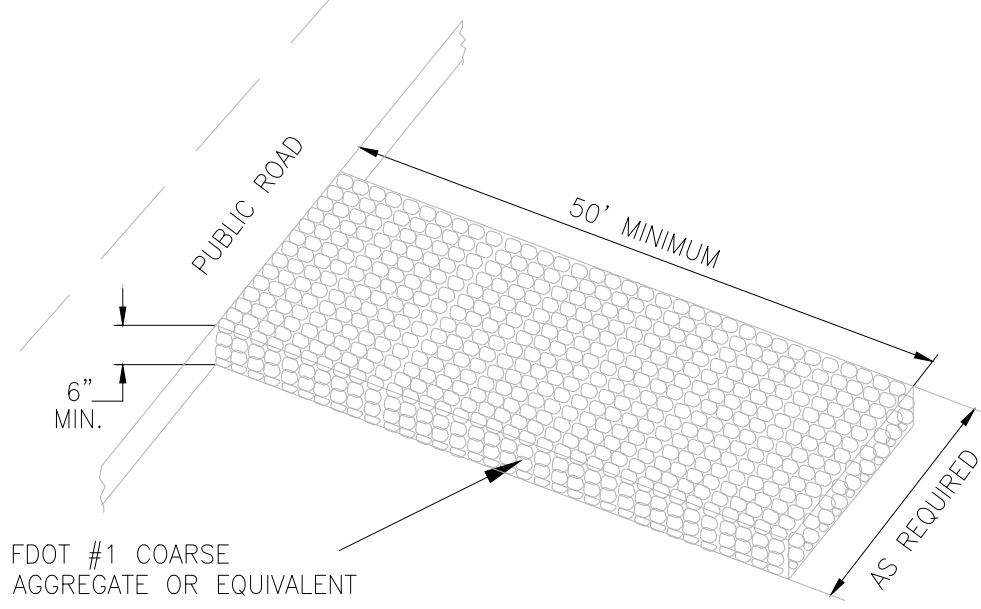
MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



STABILIZED CONSTRUCTION ENTRANCE

EHIDE & HALL ARCHITECTS, P.A.
1320 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073
TEL: 904-264-9119 FAX: 904-264-9069
FLC No. A-400660

MICHELE M. AGEE, P.E., P.A.
1320 KINGSLEY AVE, SUITE C
ORANGE PARK, FLORIDA 32073
904-264-9014 (PH) FL CA262142

**NEW MANDARIN WRF STORAGE
BUILDING AND PARKING**
10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

ENGINEER	LICENSE NO.
MICHELE AGEE	49142

Seal / Signature

Date	
Revision	

SAMPLE SWPPP-1

DATE: 10/28/19
D.B.: MMA
C.B.: DSS
JOB NO: 19023

C-5.3
FOR CONSTRUCTION

STORM WATER POLLUTION PREVENTION PLAN

COUNTY'S REQUIREMENTS

<p>SITE DESCRIPTION</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING.</p> <p>RUNOFF CURVE NUMBERS:</p> <p>1. PRE-CONSTRUCTION = <u>79</u>____ 2. DURING CONSTRUCTION = <u>XX</u>____ 3. POST-CONSTRUCTION = <u>95</u>____</p> <p>SOILS: SEE SOIL BORING REPORT FOR SOILS DATA</p> <p>SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIRMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA:</p> <p>1. TOTAL AREA OF SITE = 11.73 2. TOTAL AREA TO BE DISTURBED = 11.73</p> <p>NAME OF RECEIVING WATERS: PETERS BRANCH</p>
<p>CONTROLS</p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p>STORM WATER MANAGEMENT</p> <p>STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) _____ _____ STORMWATER TREATMENT SYSTEM. _____</p> <p>FOR THE PROJECT, AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF _____ ACRES WILL HAVE BEEN REGRADED, _____ ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A WET DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT BASKINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE WET DETENTION SYSTEM IS DESIGNED WITH A _____ DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.</p>
<p>TIMING OF CONTROLS/MEASURES</p> <p>REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.</p>
<p>CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</p> <p>IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.</p> <p>D.E.R. DREDGE/FILL PERMIT # _____ C.O.E. DREDGE/FILL PERMIT # _____ S.J.R.W.M.D. M.S.S.W. PERMIT # _____</p>

CONTRACTOR'S REQUIREMENTS

<p>GENERAL</p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p>	<p>CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</p> <p>5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</p> <p>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</p>	<p>THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.</p>	<p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>• PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>• ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>• IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p>SPILL PREVENTION PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. 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KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. 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<p>SEQUENCE OF MAJOR ACTIVITIES:</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN 4. CONSTRUCT SEDIMENTATION BASIN 5. CONTINUE CLEARING AND GRUBBING 6. STOCK PILE TOP SOIL IF REQUIRED 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED 8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p> <p>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER. 10. APPLY BASE TO PROJECT 11. COMPLETE GRADING AND SEEDING/SOD AND PLANTING 12. COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p>	<p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.</p>	<p>INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEED AND MULCHED OR SODED.</p>	<p>HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.</p>	<p>INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <p><input type="checkbox"/> Concrete <input type="checkbox"/> Fertilizers <input type="checkbox"/> Wood <input type="checkbox"/> Asphalt <input type="checkbox"/> Petroleum Based Products <input type="checkbox"/> Masonry Blocks <input type="checkbox"/> Tar <input type="checkbox"/> Cleaning Solvents <input type="checkbox"/> Roofing Materials <input type="checkbox"/> Detergents <input type="checkbox"/> Paints <input type="checkbox"/> Metal Studs <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____</p>	<p>SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>• AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>• ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>• PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>• SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>• WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>• MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p>• THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p>	<p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>• PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>• ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>• IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. 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KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. 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<p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <p>1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO CITY STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO D-901, D-911 AND D-12 FOR PROPER LOCATION, MATERIAL & USAGE.</p> <p>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</p> <p>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT- FREE STORM RUNOFF IS INTERFERED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE</p>	<p>1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. 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REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP.</p> <p>C. DROP INLET SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</p> <p>4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.</p>	<p>HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. 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HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p>THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p>
<p>MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>• NO MORE THAN 10 ACRES OF THE SITE WILL BE DENuded AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>• ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 IN</p>						

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ABBREVIATIONS

A & ACCESS ACOUS AFF AL ALT ANNUNC ANOD APPL ARCH AUTO AVG	AND ACCESSORY ACOUSTIC(AL) ABOVE FINISHED FLOOR ALUMINUM ALTERNATE ANNUNCIATOR ANODIZED APPLIANCE ARCHITECT(URAL) AUTOMATIC AVERAGE	L LAV LB LP LT LVLG LVT	LAVATORY POUND LOW POINT LIGHT LEVELING LOUVER
B BD BLDG BLKG BOLL	BOARD BUILDING BLOCKING BOLLARD	M MAX MECH MEMB MET MEZZ MFD MFR MIN MISC MLWK MOIS MOT MTD	MAXIMUM MECHANICAL MEMBRANE METAL MEZZANINE MANUFACTURED MANUFACTURER MINIMUM MISCELLANEOUS MILLWORK MOISTURE MOTOR(IZED) MOUNTED
C CAB CER CIP CLG CMU COATG CONC CONSTR CONT COV CPT	CABINET CERAMIC CAST-IN-PLACE CEILING CONCRETE MASONRY UNIT COATING CONCRETE CONSTRUCTION CONTINUOUS COVER CARPET	N NIC NO NTS	NOT IN CONTRACT NUMBER NOT TO SCALE
D DBL DEPT DET DIA DIFF DIM DISP DIV DN DR DSCON	DOUBLE DEPARTMENT DETAIL DIAMETER DIFFUSER DIMENSION DISPENSER DIVISION DOWN DOOR DISCONNECT	O OPNG OPR ORD ORNA OVFL OVHD	OPENING(S) OPERABLE OVERFLOW ROOF DRAIN ORNAMENTAL OVERFLOW OVERHEAD
E ELAST ELEC EMBED ENGR ENR EQ EQUIP EXIST EXP JT EXT	ELASTOMERIC ELECTRICAL EMBEDD(ED)(ING) ENGINEER(ED) ENTRANCE EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXTERIOR	P PLAM PLYWD PNL POLYISO PORT PREFAB PREFIN PTN	PLASTIC LAMINATE PLYWOOD PANEL POLYISOCYANURATE PORTABLE PREFABRICATED PREFINISHED PARTITION
F FAB FD FIN FLDG FLR FR FRMG FURN FWC FXD FXTR	FABRICATION FLOOR DRAIN FINISH FOLDING FLOOR(ING) FIRE RAT(ING)(ED) FRAMING FURNITURE FABRIC WALL COVERING FIXED FIXTURE	R RD RDL RDR RECES RECPT REF REFL REFR REINF REQD RESIL RESIS RFG RM RO	ROOF DRAIN ROOF DRAIN LEADER READER RECESSED RECEPTACLE REFER(ENCE) REFLECTED REFRIGERATOR REINFORCED(D)(ING)(MENT) REQUIRED RESILIENT RESIST(ANT)(IVE) ROOFING ROOM ROUGH OPENING
G GA GFRC GFRP GL GR GYP	GAUGE GLASS FIBER REINFORCED CONCRETE GLAS FIBER REINFORCED PLASTER GLASS GRAD(E)(ING) GYPSUM	S SECUR SF SHORG SIM SNGL SST STD STL STRFR STRUCT SURF SUSP SYS	SECURITY SQUARE FEET SHORING SIMILAR SINGLE STAINLESS STEEL STANDARD STEEL STOREFRONT STRUCTURAL SURFACE SUSPENDED SYSTEM(S)
H HD HDWD HDWE HM HORIZ HP HVAC	HEAD HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HIGH POINT HEATING, VENTILATING, AND AIR CONDITIONING	T TBD THK TLT TRAF TRANS TRTD TYP	TO BE DETERMINED THICK TOILET TRAFFIC TRANSPARENT TREATED TYPICAL
I INFILTR INFO INSTRUM INSUL INT INTLK	INFILTRATION INFORMATION INSTRUMENT(ATION) INSULATION INTERIOR INTERLOCK(ING)	U UNDRLAY UNO UTIL	UNDERLAYMENT UNLESS NOTED OTHERWISE UTILITY
J JAN KIT	JANITOR KITCHEN	V VEH VERT VIF WTRPRF	VEHICLE VERTICAL VERIFY IN FIELD WATERPROOFING
K KIT	KITCHEN	W W/ W/O WC WD WDW WT WTRPRF	WITH WITHOUT WATER CLOSET WOOD WINDOW WEIGHT WATERPROOFING

GRAPHIC SYMBOLS

REFLECTED CLG

CLG HEIGHT CHANGE

FIN CLG HEIGHT SYMBOL

GRID STARTPOINT SYMBOL

CLG FINISH TAG

MOTION SENSOR

CLG MTD SPEAKER

CLG MTD CAMERA

CLG MTD SPRINKLER HEAD

CLG MTD SMOKE DETECTOR

EXIT SIGNS

WALL MTD DEVICES

EQUIP TAG (REFER TO EQUIP SCHEDULE)

WALL MTD FIRE ALARM STROBE

FIRE ALARM PULL

FIRE WARDEN STATION

THERMOSTAT

CABLE TV RECPT

AV RECPT

AV TROUGH

ELECTRICAL JUNCTION BOX

VOICE/DATA JUNCTION BOX

SYS WORKSTATION PANEL POWER INFEEED

SYS WORKSTATION PANEL VOICE/DATA INFEEED

CONDUIT STUB-OUT POWER

CONDUIT STUB-OUT VOICE AND DATA

PLUG MOLD

SECURITY DEVICES

CAMERA

CARD READER

ELECTRIC DOOR BELL PUSH

ELECTRIC DOOR BELL

INTERCOM

REMOTE DOOR RELEASE BUTTON

MOTION SENSOR

INTRUSION ALARM

ELECTRIC DOOR HINGE

ELECTRICAL DOOR HOLD OPEN

ELECTRICAL DOOR RELEASE

ELECTRICAL DOOR MONITOR CONTACT

DOUBLE DOOR MONITOR CONTACT

ELECTRIC LOCKSET

ELECTRIC KEY SWITCH

ELECTRIC STRIKE

MAGNETIC LOCKSET

PANIC BUTTON

LT FXTR

FLOURESCENT LT FXTR

FLOURESCENT LT FXTR / EMERGENCY CIRCUIT

EXIST LT FXTR TO BE REMOVED

UNDER CAB FLOURESCENT FXTR

FLOURESCENT STRIP FXTR

FLOURESCENT PENDANT FXTR

RECES DOWNLT

RECES ADJUSTABLE DN LT

RECES WALL WASHER

TRACK LTING

SURFACE MTD LT FXTR

WALL SCONCE

LT SWITCH

DIMMER SWITCH

MECHANICAL FXTRS

RETURN AIR

SUPPLY AIR

CIRCULAR DIFFUSER

LINEAR DIFFUSER

EXHAUST FAN

FINISH

CHANGE IN FLOOR FINISH

FINISH NOTATION

POWER & COMM.

SURF FLR MTD, POKE THRU DEVICES

FURN SYS MTD DEVICES

FLUSH FLR MTD DEVICES

FLUSH FLR MTD, POKE THRU, DEVICES

SURF FLR MTD DEVICES

LEGEND OF COMMON SYMBOL MODIFIERS

SINGLE RECPT

DUPLEX RECPT

QUADRAPLEX RECPT

COMBINATION DUPLEX & VOICE/DATA RECPTS

COMBINATION QUADRAPLEX & VOICE/DATA RECPTS

COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECPTS

COMBINATION QUADRAPLEX, AV & VOICE/DATA RECPTS

DATA RECPT

VOICE RECPT

AV RECPT

SYS WORKSTATION PANEL POWER INFEEED

SYS WORKSTATION PANEL VOICE INFEEED

SINGLE RECPT

DUPLEX RECPT

QUADRAPLEX RECPT

VOICE/DATA RECPT

DATA RECPT

VOICE RECPT

FURN SYSTEM ELECTRIC PIGTAIL

FURN MTD, POWER POLE

SINGLE RECPT

DUPLEX RECPT

QUADRAPLEX RECEPT

COMBINATION DUPLEX & VOICE/DATA RECPT

COMBINATION QUADRAPLEX & VOICE/DATA RECPTS

COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECPTS

COMBINATION QUADRAPLEX, AV & VOICE/DATA RECPTS

COMBINATION POWER, VOICE/DATA RAISED FLR BOX, COMBINATION POWER, VOICE/DATA, A/V RAISED FLR BOX, AV CONDUIT STUB UP, AV

CONDUIT STUB UP, POWER

CONDUIT STUB UP, VOICE/DATA

SECTION INDICATIONS

ACOUSTICAL CEILING TILE

ALUMINUM

BRICK

CARPET

CONCRETE

CONCRETE MASONRY UNIT

CUT STONE

EARTH

FABRIC/VINYL WRAPPED PANEL

GLASS

GRAVEL

GYPSUM PLASTER

INSULATION (LOOSE OR BATT)

INSULATION (RIGID)

METAL

PLASTIC

PLYWOOD

PRE-CAST PANELS

SAND OR GROUT

STONE

WOOD (FINISHED)

WOOD (CONTINUOUS MEMBER)

WOOD BLOCKING (INTERRUPTED MEMBER)

ELEVATION INDICATION

GLASS SYMBOL

MASONRY COURSING

WOOD VENEER

STONE

CONSTRUCTION

COLUMN GRID REFERENCE NUMBER

COLUMN GRID LINES AND REFERENCE NUMBER

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE DEMOLISHED

NEW PARTITION

1 HR. RATED PARTITION

2 HR. RATED PARTITION

3 HR. RATED PARTITION

4 HR. RATED PARTITION

SMOKE PARTITION

EGRESS PATH PRIMARY

EGRESS PATH SECONDARY

DETAIL NUMBER

SHEET NUMBER

DESCRIPTION OF SIMILAR OR OPOSITE

AREA TO BE DETAILED

LOCATION ON SHEET WHERE ELEVATION IS SHOWN

DIRECTION OF ELEVATION

SHEET NUMBER WHERE ELEVATION IS SHOWN

INTERIOR AND EXTERIOR ELEVATION MARKER

REVISION REFERENCE NUMBER

REVISION CLOUD

ROOM NAME

ROOM NUMBER

ROOM AREA

SHEETNOTE REFERENCE

WALL TYPE REFERENCE

FIRE RATING

DOOR NUMBER

LOUVER REFERENCE

WINDOW SCHEDULE

ELEVATION DATUM REFERENCE

INDICATES PLAN NORTH

INDICATES TRUE NORTH

WALL MOUNTED LIFE SAFETY EQUIPMENT AND DEVICES

FIRE WARDEN STATION SYMBOL

WALL MOUNTED FIRE ALARM STROBE SYMBOL

FIRE ALARM PULL SYMBOL

WALL MOUNTED, FIRE EXTINGUISHER CABINET

WALL MOUNTED FIRE EXTINGUISHER

WALL MOUNTED FIRE HOSE CABINET

WALL MOUNTED FIRE VALVE

WALL MOUNTED FIRE VALVE CABINET

GENERAL NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, ORDERS, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ANY/ALL PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK EXCEPT AS PROVIDED OTHERWISE IN THE SPECIFICATIONS OR OWNER CONTRACTOR AGREEMENT.
- REVIEW ALL DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY/ALL CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
- COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, SITE ACCESS, USE OF SERVICES AND FACILITIES. MINIMIZE DISTURBANCE TO SITE, FACILITY FUNCTIONS AND OCCUPANTS.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" (NOT IN CONTRACT) UNDER SEPARATE CONTRACT. INCLUDE ANY SCHEDULE REQUIREMENTS FOR SUCH WORK IN THE CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE IT WITH THE OWNER TO ASSURE AN ORDERLY SEQUENCE OF INSTALLATION.
- MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE THIS WITH THE OWNER TO ENSURE SECURITY.
- DO NOT SCALE FROM DRAWINGS. THE WRITTEN DIMENSIONS GOVERN. IN THE INSTANCE OF A CONFLICT, CONSULT THE ARCHITECT.

NEW MANDARIN WRF STORAGE BUILDING AND PARKING

ARCHITECT

D.AVID SHIVELY

LICENSE NO.

0099028

Seal / Signature

Revision

Date

GENERAL PROJECT INFORMATION & ABBREVIATIONS

D.A.T.E.:

10/28/2019

D.B.:

C.B.:

DSS

JOB NO.:

19023

A001

FOR CONSTRUCTION

PHASED CONSTRUCTION:
PHASE I:

PHASE I OF THE PROJECT CALLS FOR THE DEMOLITION OF EXISTING BUILDING #6 AND ALL ASSOCIATED INFRASTRUCTURE. CONTRACTOR SHALL PROTECT THE EXISTING CELL TOWER AND ITS ASSOCIATED INFRASTRUCTURE. THE REMOVAL OF THIS BUILDING WILL INCREASE THE AVAILABLE SPACE FOR EXPANSION OF THE RETENTION POND. THIS PHASE SHOULD OCCUR AROUND THE SAME TIME AS PHASE II SINCE THE RETENTION EXPANSION WILL NEED TO BE IN RESPONSE TO THE INCREASE IN IMPERVIOUS SURFACES CAUSED FROM PHASE II PARKING AND THE HARDSCAPE IMPROVEMENTS.

PHASE II:

A NEW 50' X 100' (5,000 GSF) SINGLE STORY (-30'-0") CONCRETE BLOCK BUILDING. THE STRUCTURE SHALL BE A CAST-IN-PLACE CONCRETE WITH PRECAST "DOUBLE-T" ROOF MEMBERS. INTEGRALLY COLORED SPLIT-FACE CONCRETE. MASONRY INFILL WILL COMPLETE THE EXTERIOR WALL CONSTRUCTION. COLOR AND APPEARANCE OF THE NEW BUILDING SHALL MATCH THE EXISTING BUILDING #5 WHICH SITS TO THE SOUTH OF THE NEW BUILDING. THE PURPOSE OF THE BUILDING IS TO HOUSE EXISTING METAL PARTS (WATER PUMPS, METAL PIPING AND FITTINGS, AND ELECTRICAL MOTORS). OUTSIDE OF THE NEW STORAGE BAY, THERE WILL BE A TRAILER DEDICATED TO TRAILER MOUNTED EQUIPMENT (GENERATORS) AND ADDITIONAL PAVING OF THE ROAD SURFACE. POWER RECEPTACLES WILL BE PROVIDED AT THE ADJACENT BUILDING FACE FOR THE EQUIPMENT TO BE RE-CHARGED.

PHASE II:

AT THE CAMPUS ENTRY, THE EXISTING PARKING WHICH SITS NEXT TO THE OPERATIONS BUILDING WILL BE RE-STRIPED TO PROVIDE A TOTAL OF (27) 10X18 AND (8) 9X18 PARKING SPACES. (5) ADDITIONAL 12X18 HANDICAP SPACES WILL BE PROVIDED TO MEET ADA CODE MINIMUMS FOR THE CAMPUS.

FARTHER NORTH FROM THIS PARKING NEW
PAVING AND DRIVE AISLES SHALL PROVIDE
ADDITIONAL 52 PARKING SPACES FOR TRUCKS
AND EQUIPMENT.
(30) @ 10X25
(25) @ 10X35
ADDITIONAL INFRASTRUCTURE SHALL BE
PROVIDED TO ALLOW FOR FUTURE INSTALLATION
OF POWER AND CHARGING STATIONS.



10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

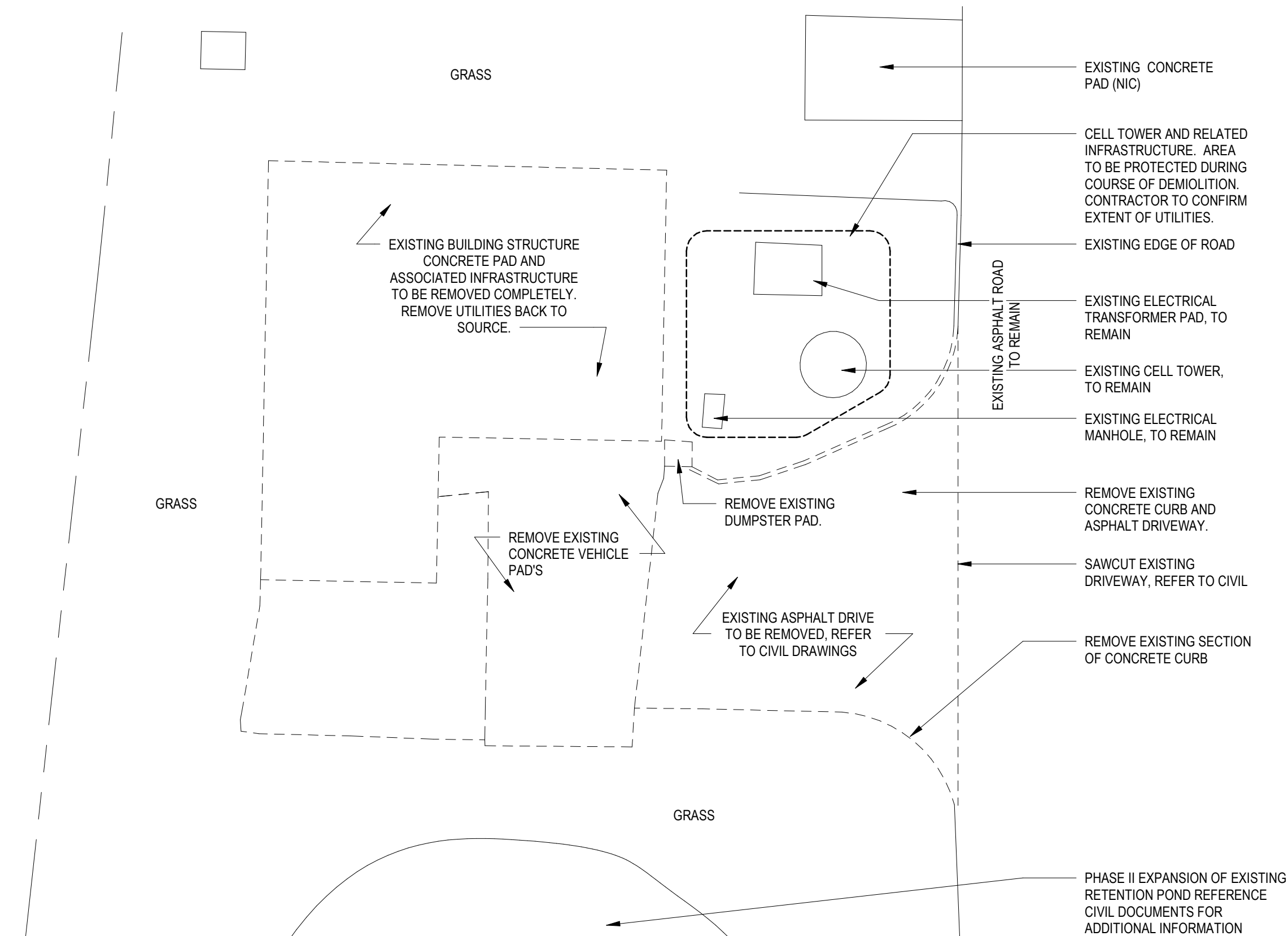
ARCHITECT	LICENSE NO.
DAVID	0099028
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OVERALL SITE PLAN WITH PHASING

DATE:	10/28/2019
TIME:	
LOCATION:	DSS
NO:	19023

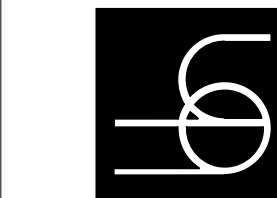
A101



GENERAL NOTES

DEMOLITION

1. EXISTING BUILDING #6 SHALL BE DEMOLISHED TO ALLOW FOR THE EXTENSION OF THE EXISTING STORM WATER RETENTION POND ON-SITE. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON THE EXTENT OF THE STORM-WATER-RETENTION POND EXPANSION.
2. REFERENCE THE CIVIL DOCUMENTS FOR INDICATION OF EXISTING SITE UTILITIES. THE CONTRACTOR SHALL SURVEY AND CLEARLY IDENTIFY/MARK ALL EXISTING SITE UTILITIES WITHIN THE PROXIMITY OF THE BUILDING BEING DEMOLISHED PRIOR TO COMMENCING DEMOLITION. COORDINATE WITH CIVIL DOCUMENTS FOR INFORMATION ON HOW UTILITIES SHALL BE CAPPED OR RE-ROUTED.
3. THE EXISTING RADIO TOWER AND ALL RELATED INFRASTRUCTURE IS TO REMAIN AND SHALL BE PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED OR INTERRUPTIONS TO SERVICES CAUSED AS A RESULT OF THE DEMOLITION AND CONSTRUCTION ACTIVITIES. COORDINATE WITH OWNER PRIOR TO COMMENCING DEMOLITION ACTIVITIES.



NEW MANDARIN WRF STORAGE
BUIL DING AND PARKING

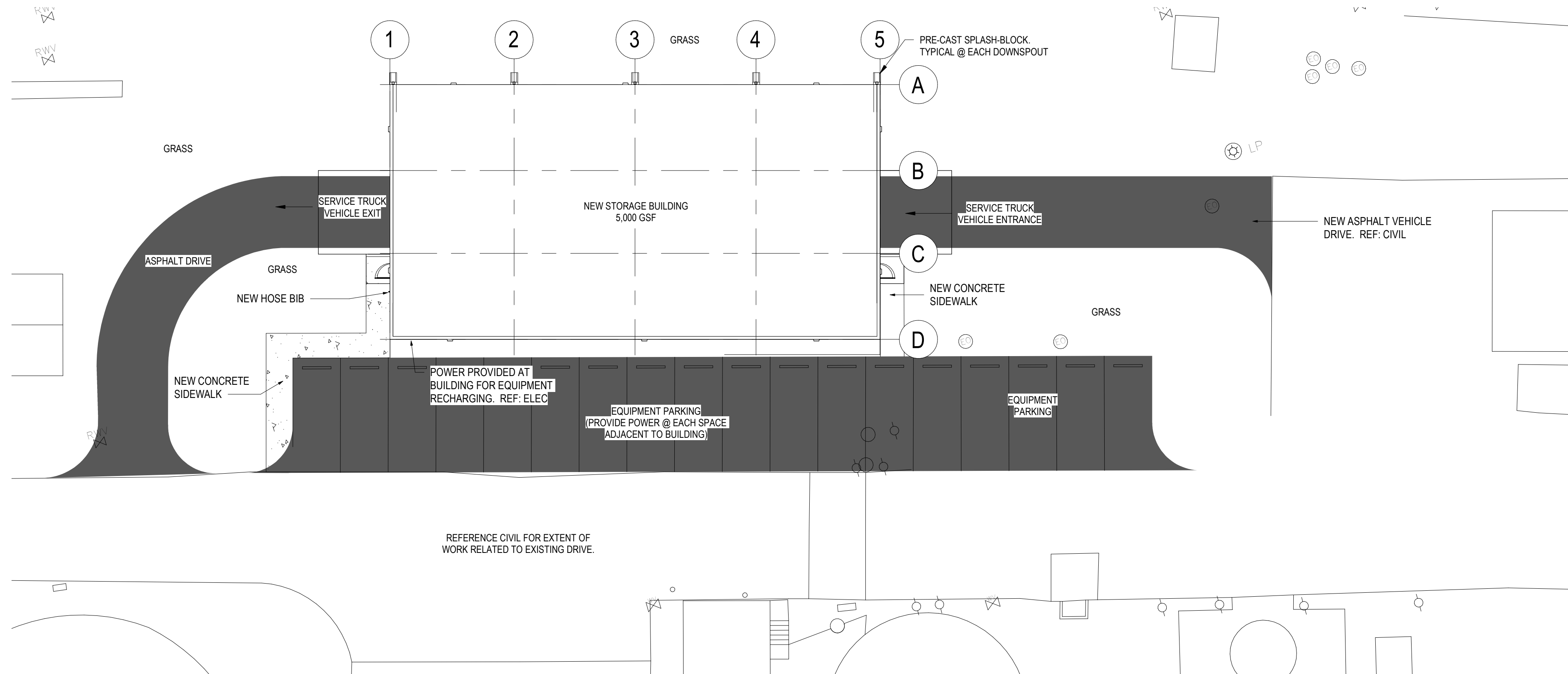
ARCHITECT	LICENSE NO.
DAVID SHIVELY	0099028

Seal / Signature

ARCHITECTURAL
ENLARGED SITE
PLAN AND DEMO
PLAN - BUILDING 6

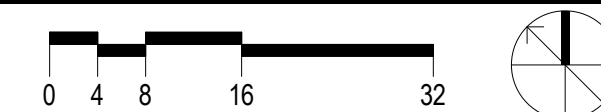
DATE:	10/28/201
D.B.:	
C.B.:	DS:
JOB NO:	1902

A102
FOR CONSTRUCTION

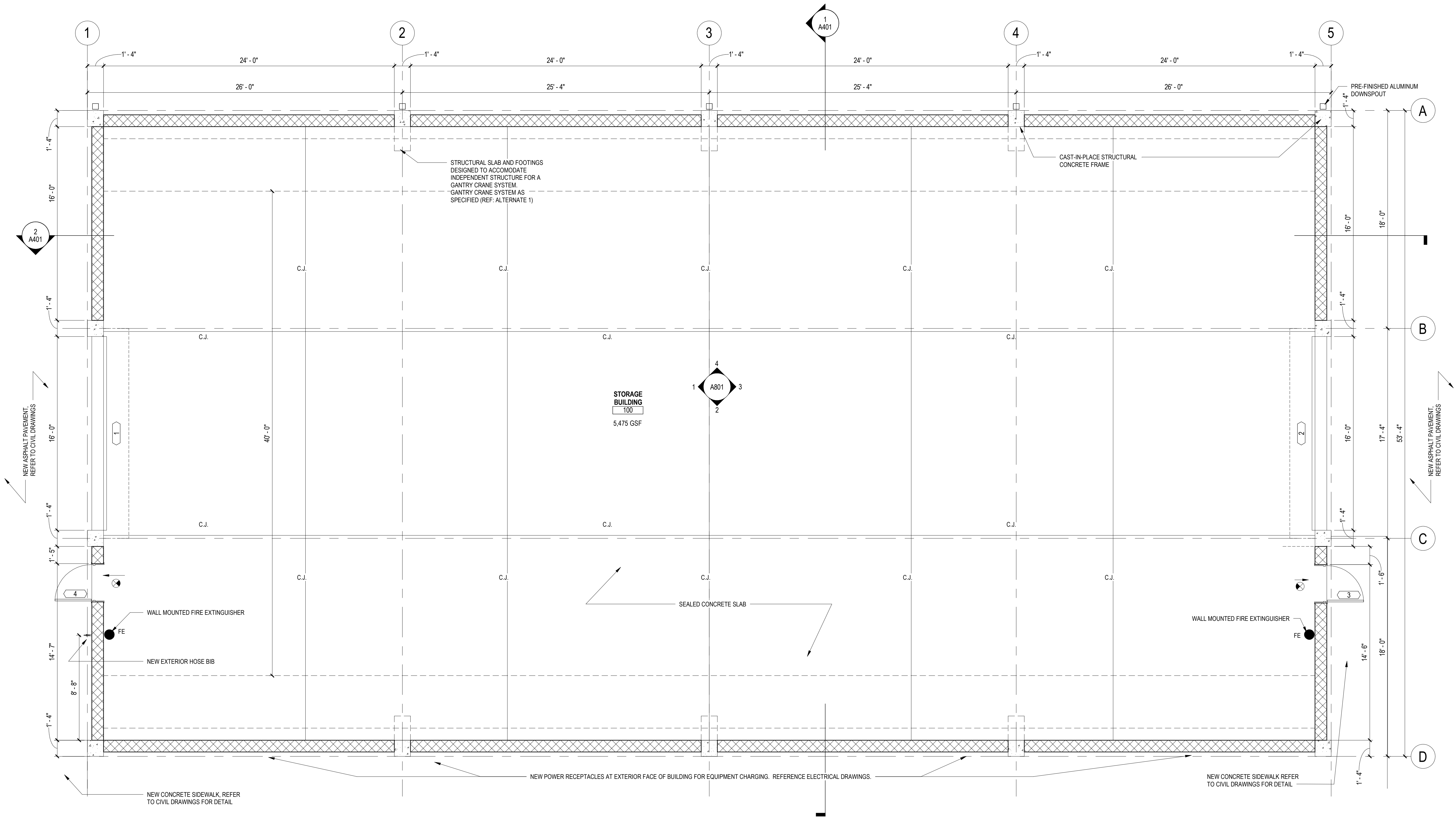


1 ENLARGED SITE PLAN

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

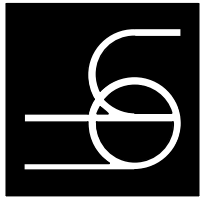


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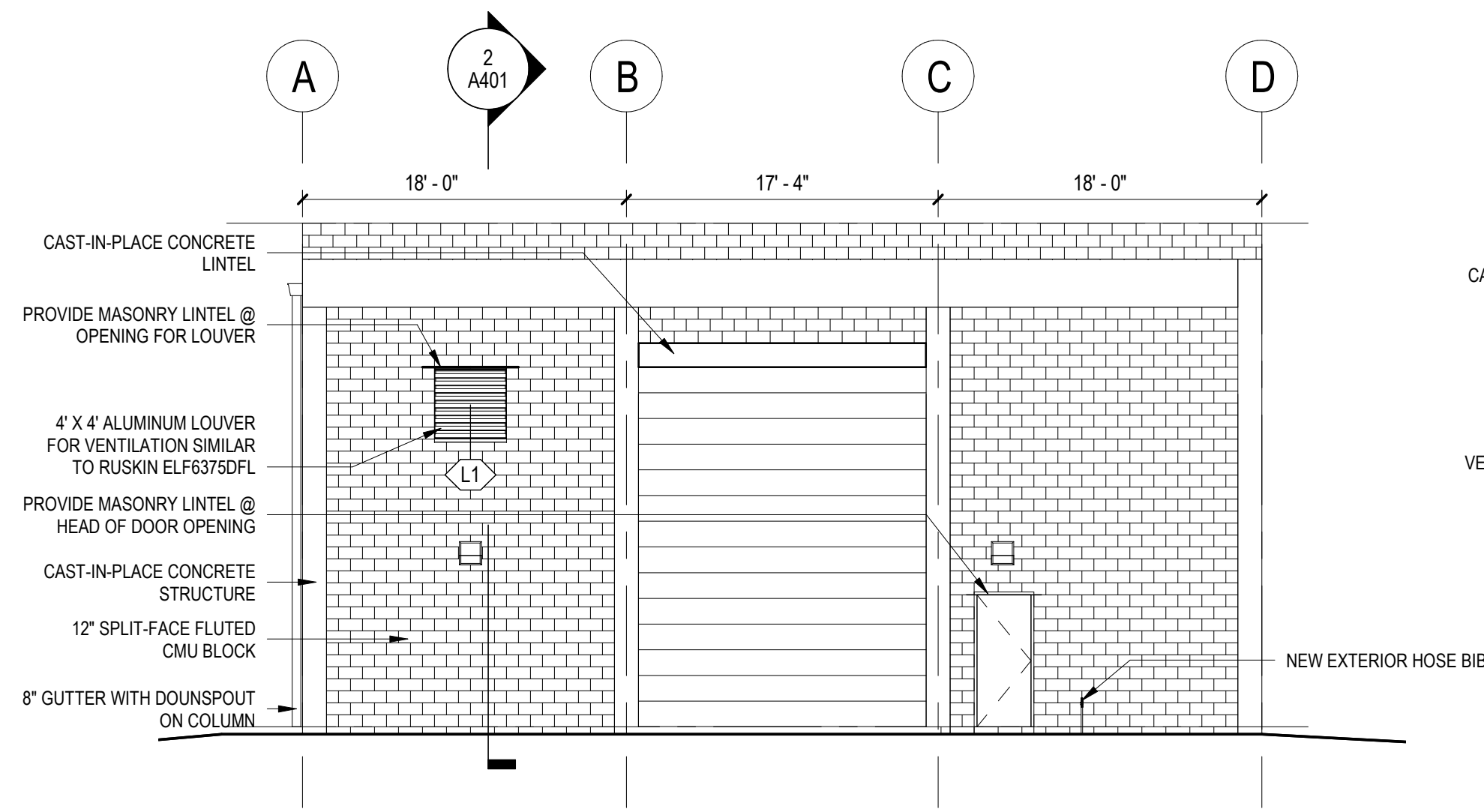
GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF FRAMING MEMBER (UNLESS NOTED OTHERWISE).
- SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
- SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS IN MASONRY. CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

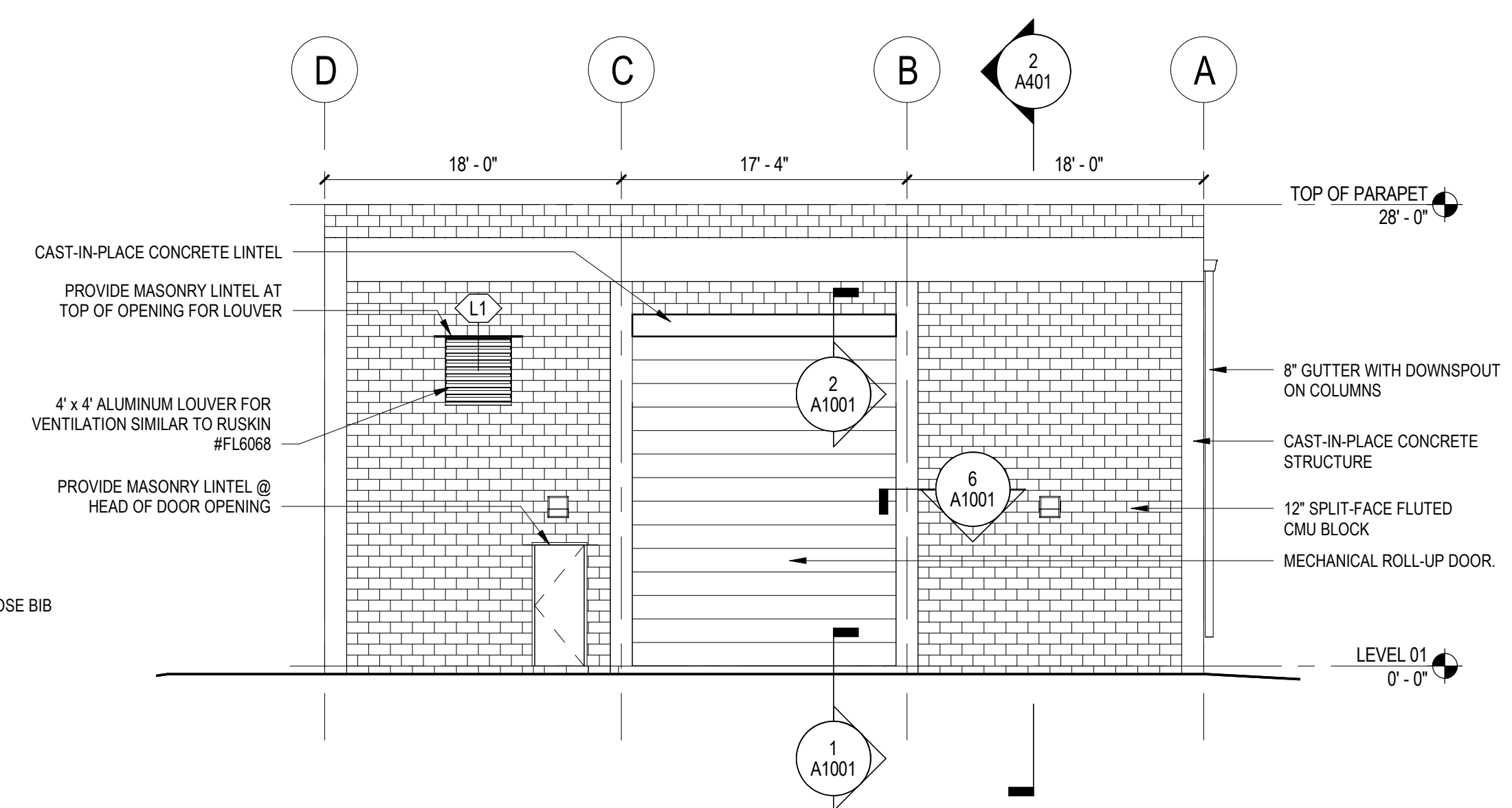


△	Date	Revision	Seal / Signature

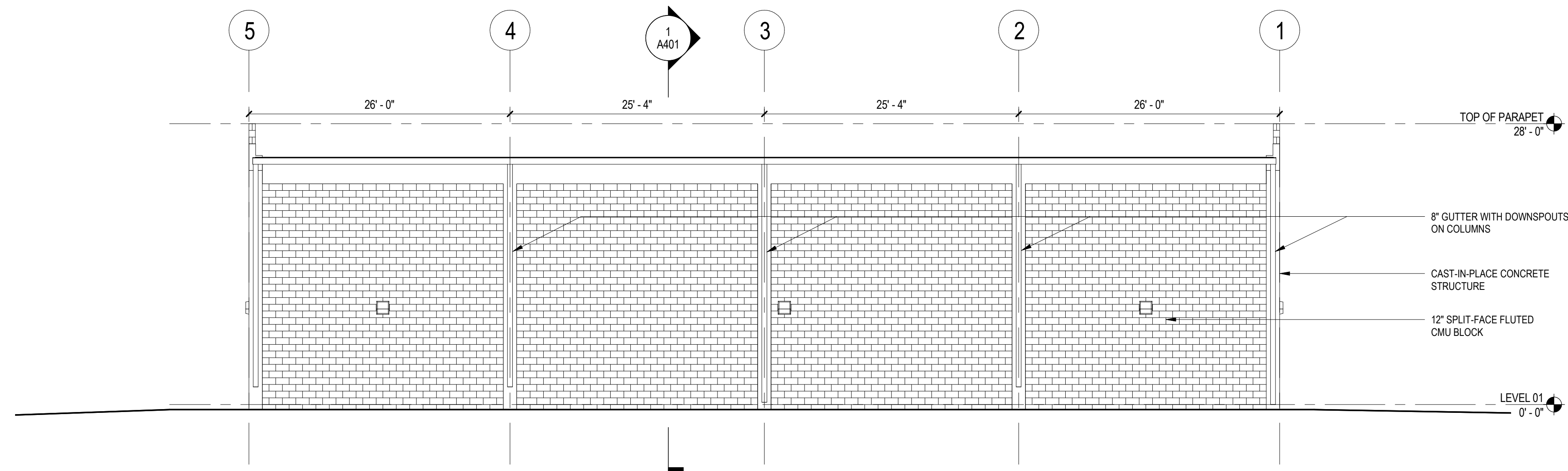
FLOOR PLAN



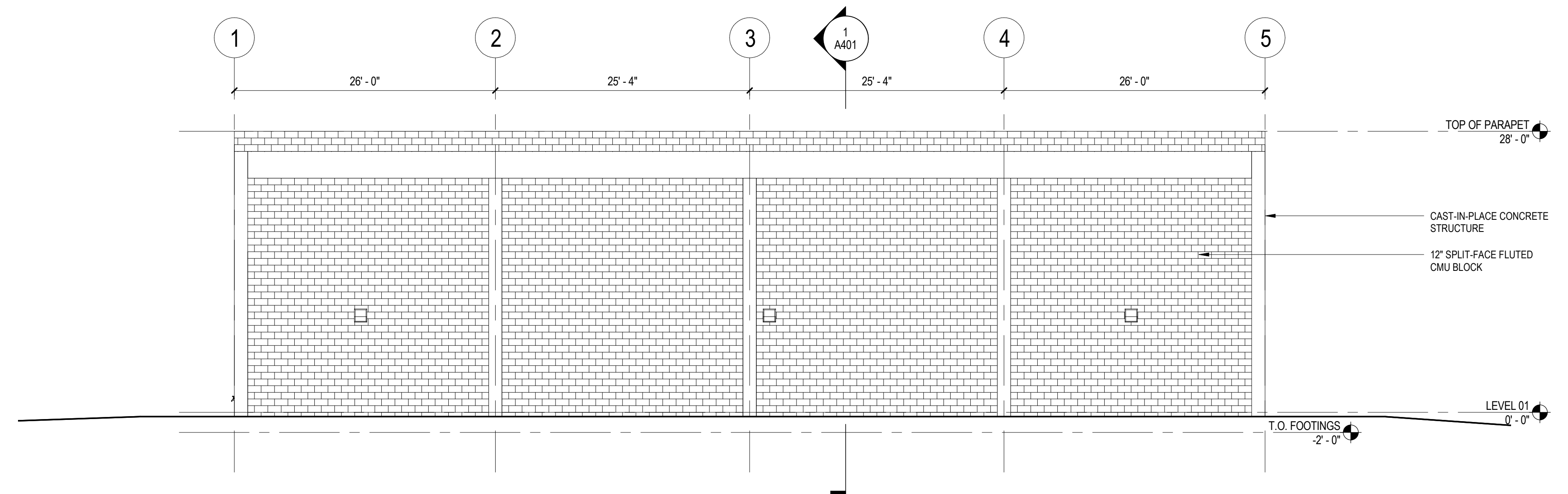
1 WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



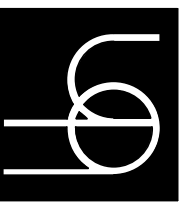
2 EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



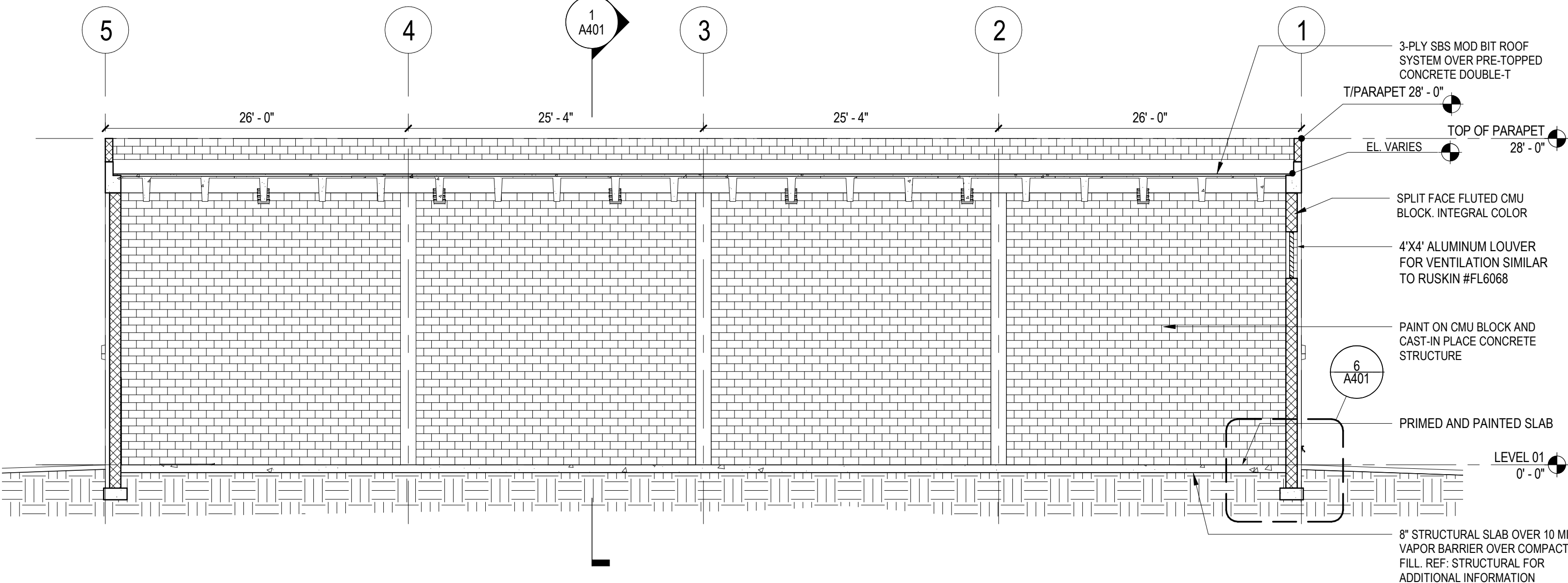
3 NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



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

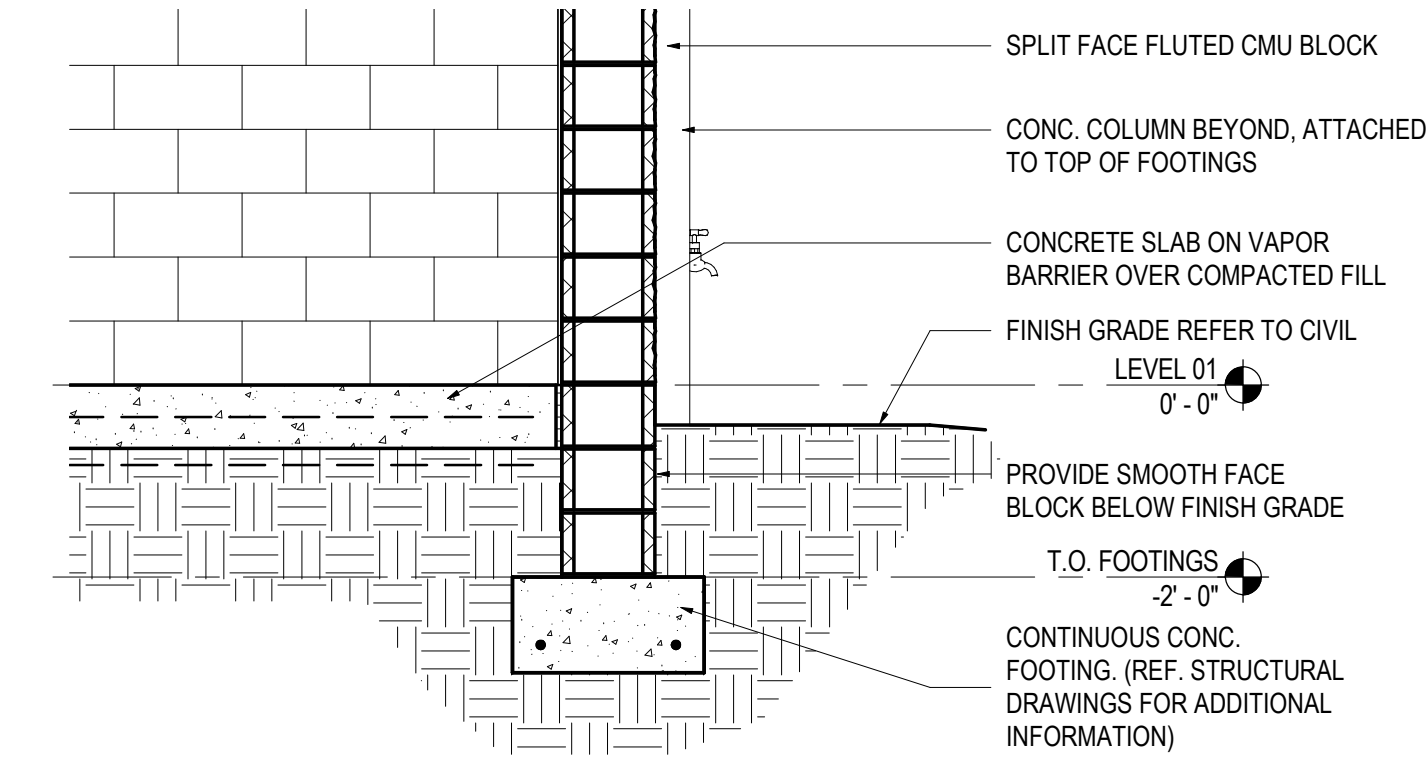


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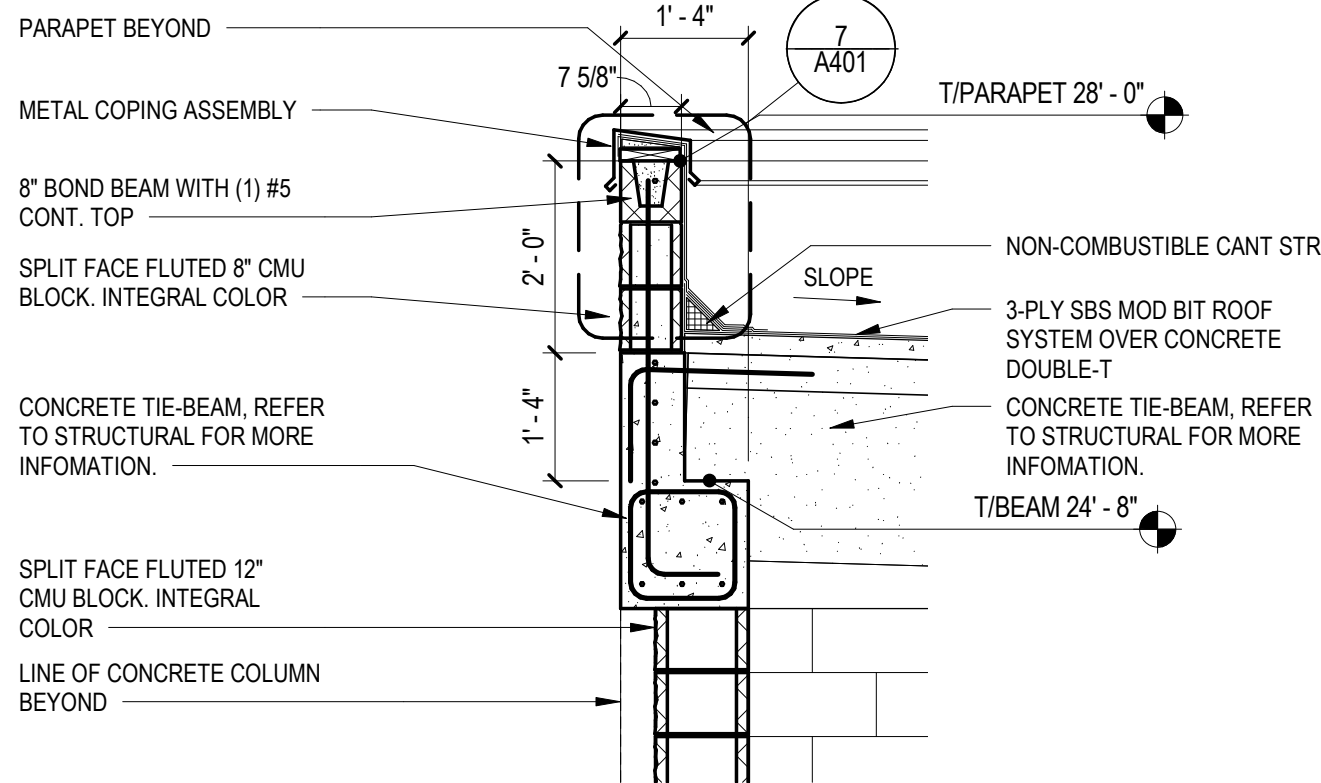


2 LONGITUDINAL BUILDING SECTION
SCALE: 1/8" = 1'-0"

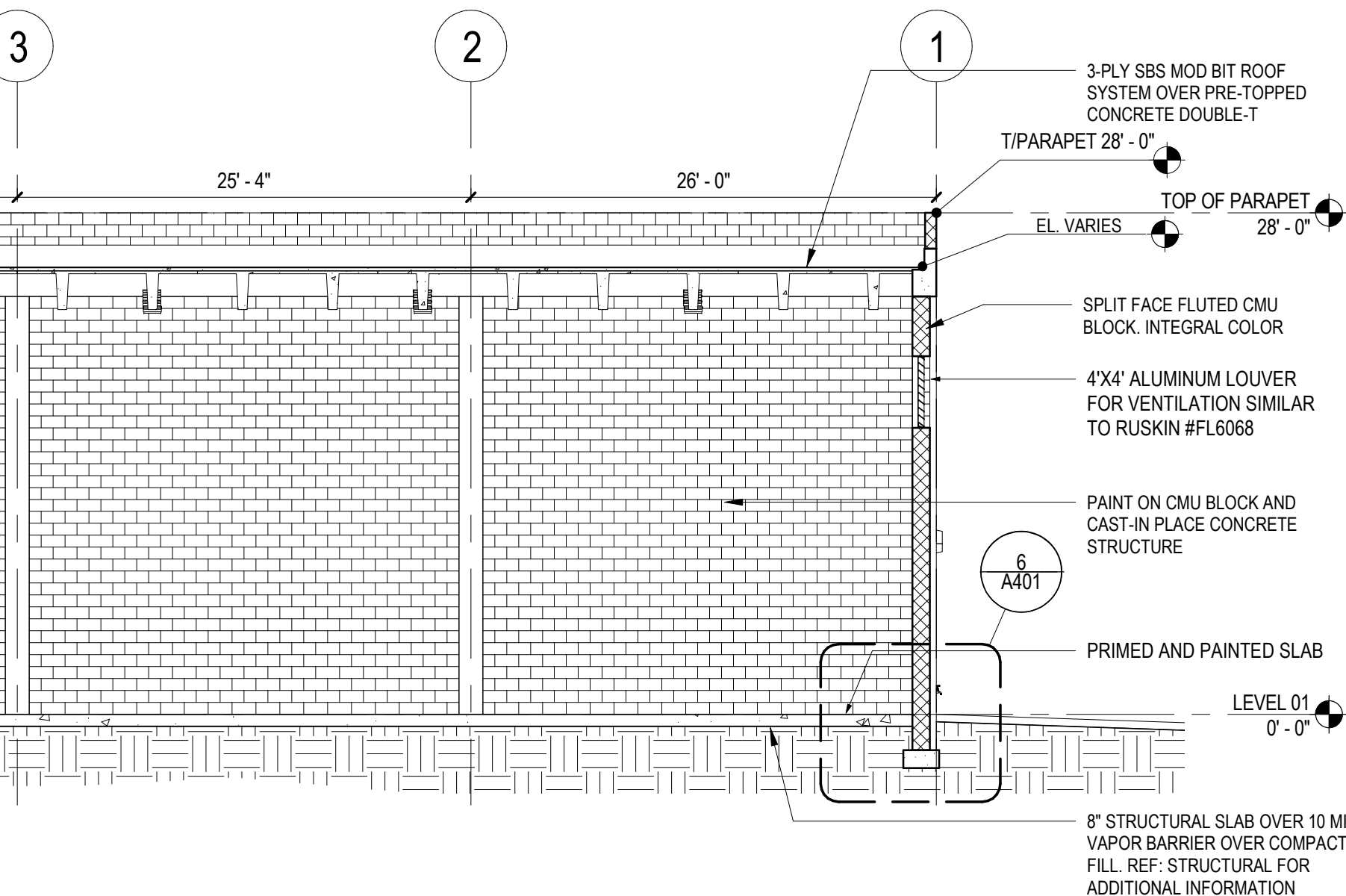
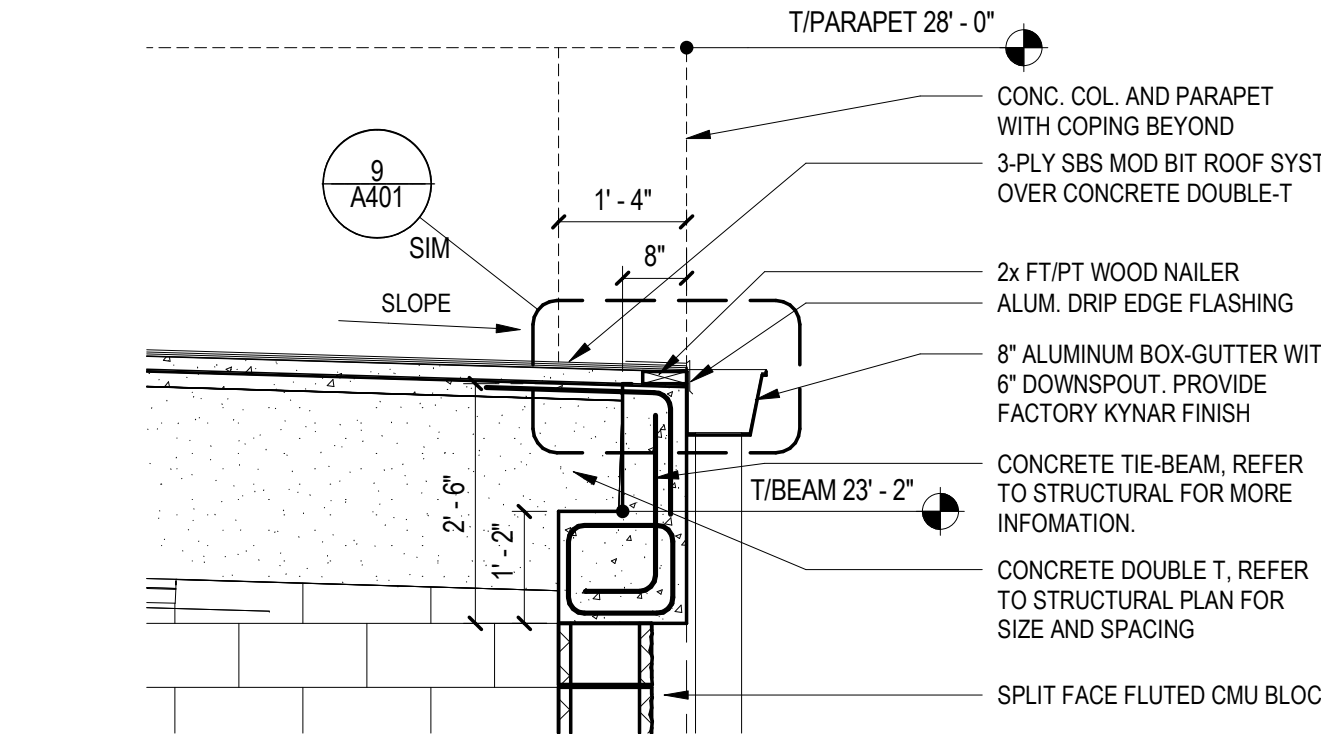
6 ENLARGED DETAIL
SCALE: 1/2" = 1'-0"



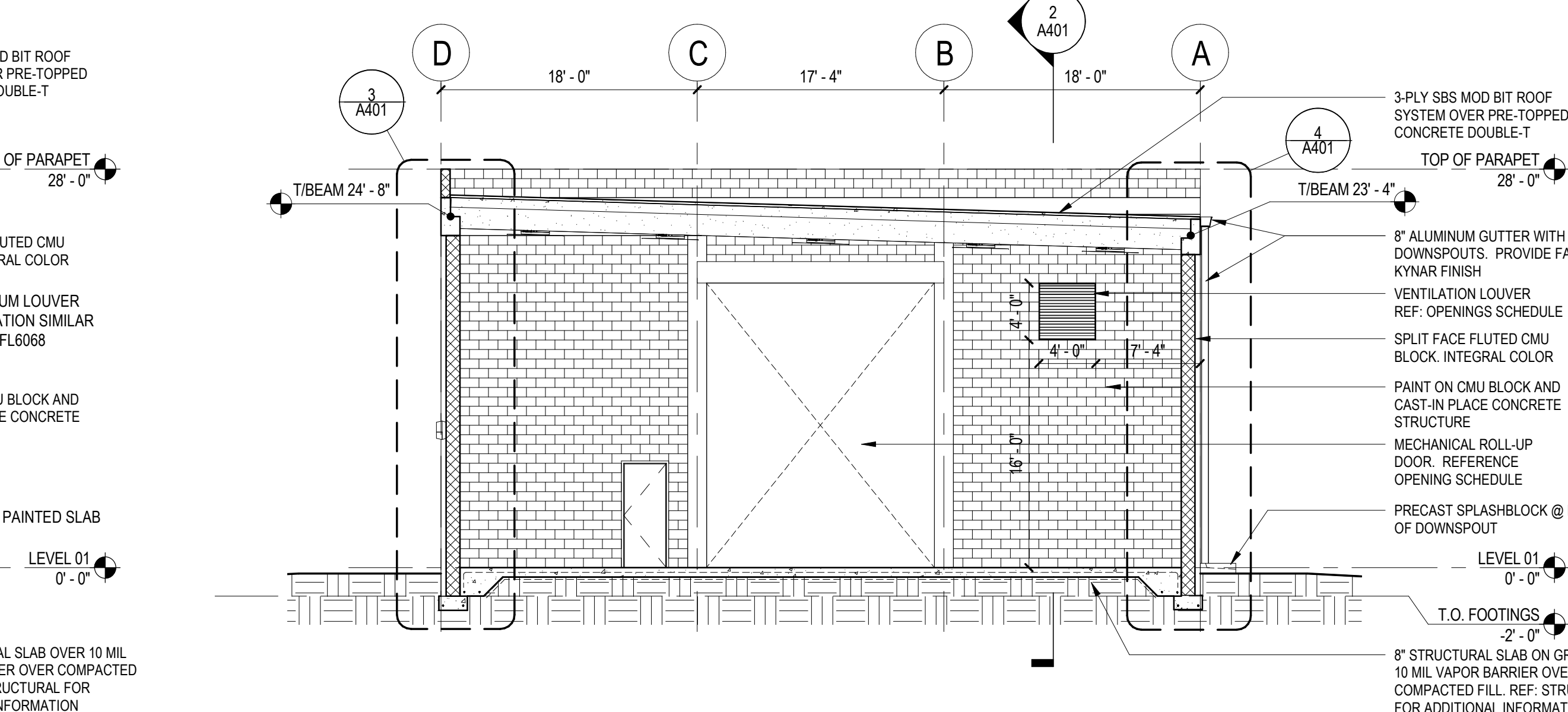
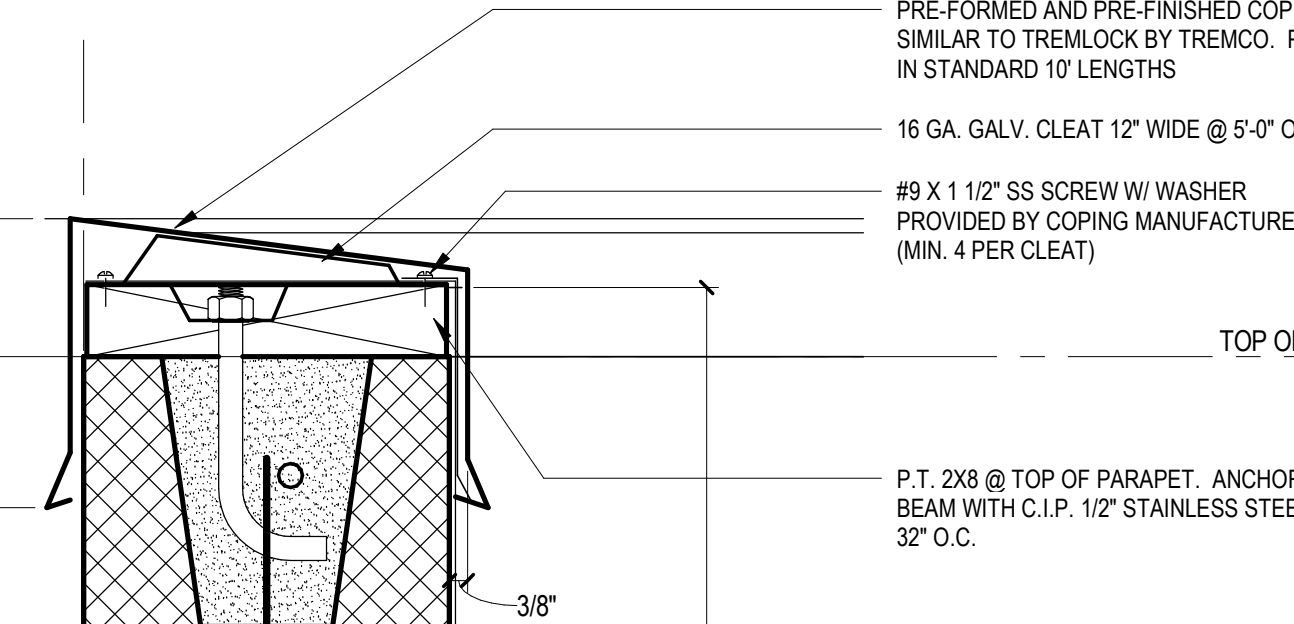
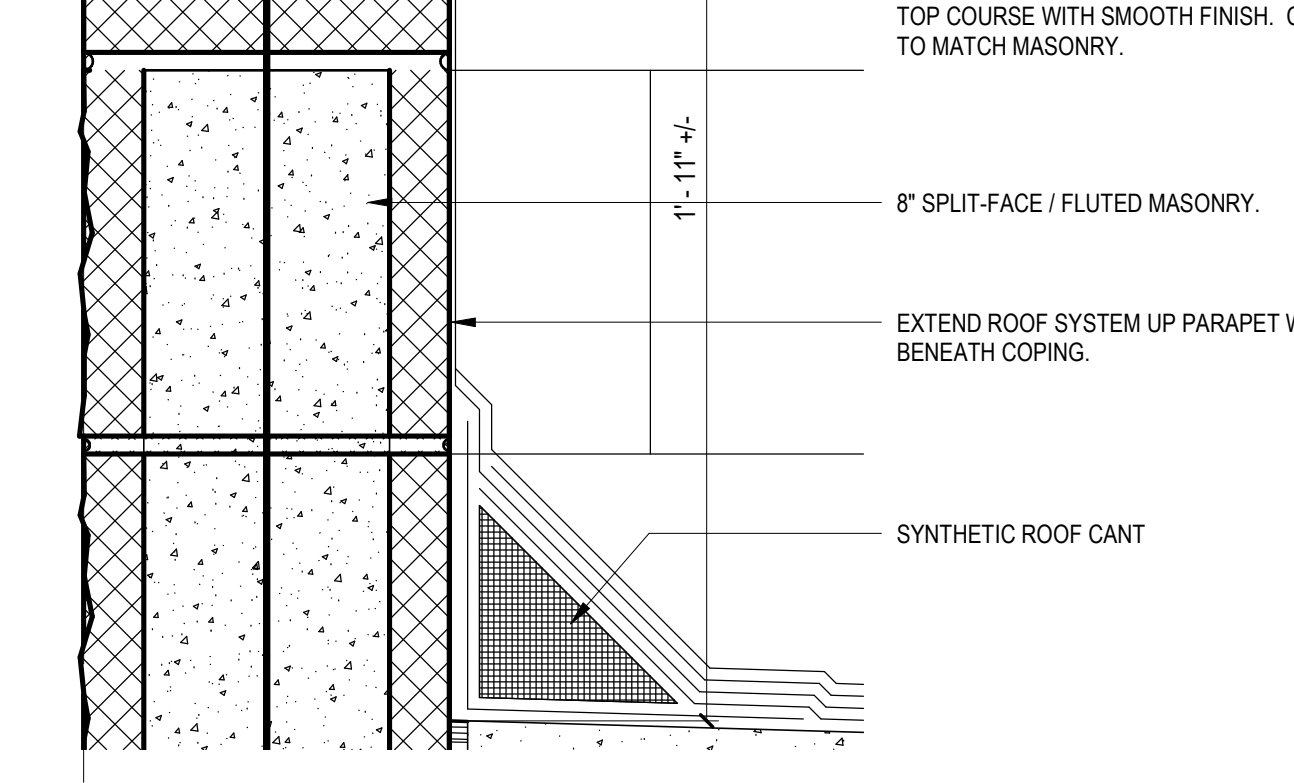
8 ENLARGED DETAIL
SCALE: 1/2" = 1'-0"



10 ENLARGED DETAIL
SCALE: 1/2" = 1'-0"

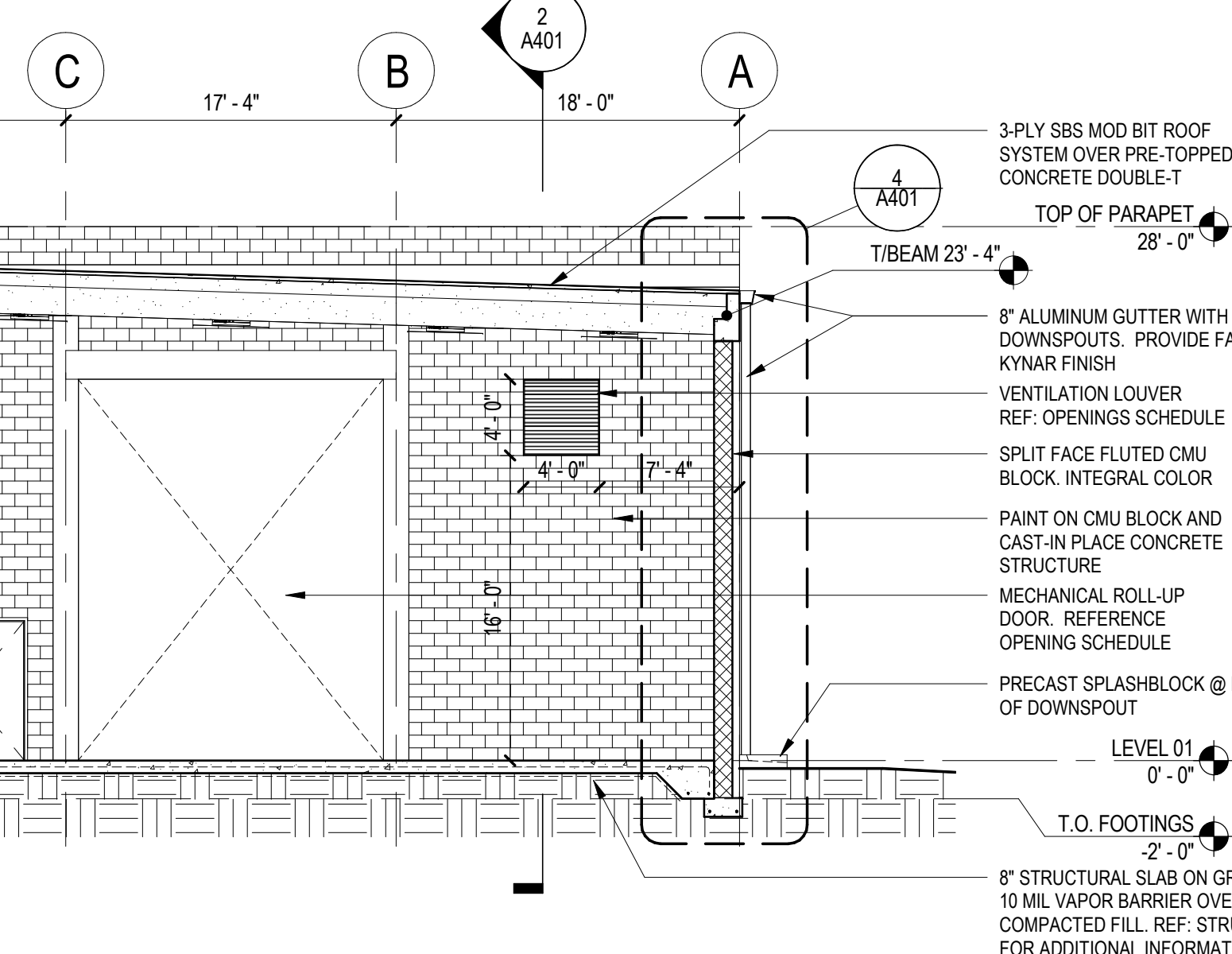
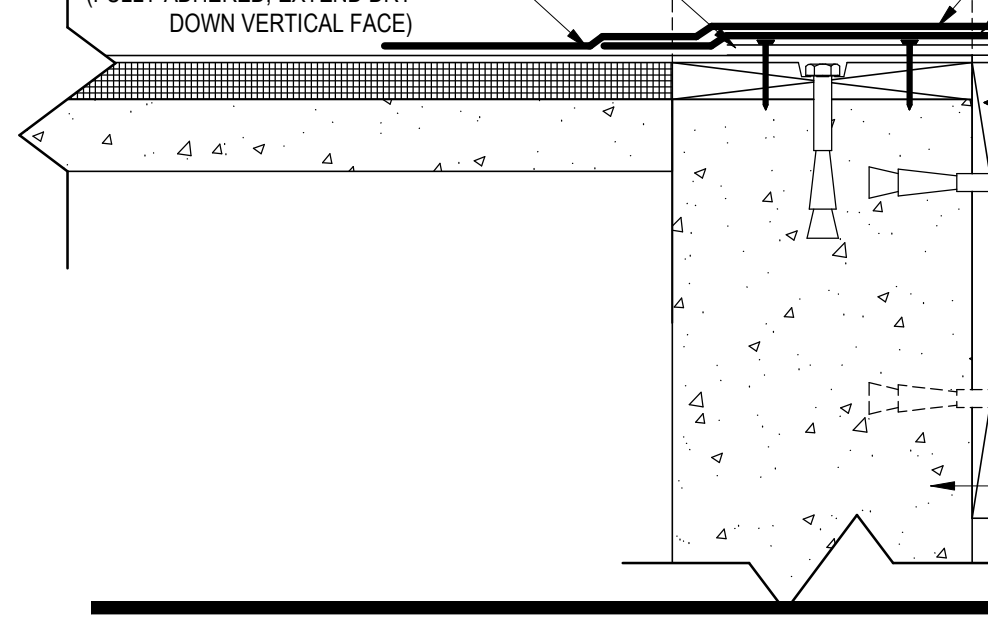
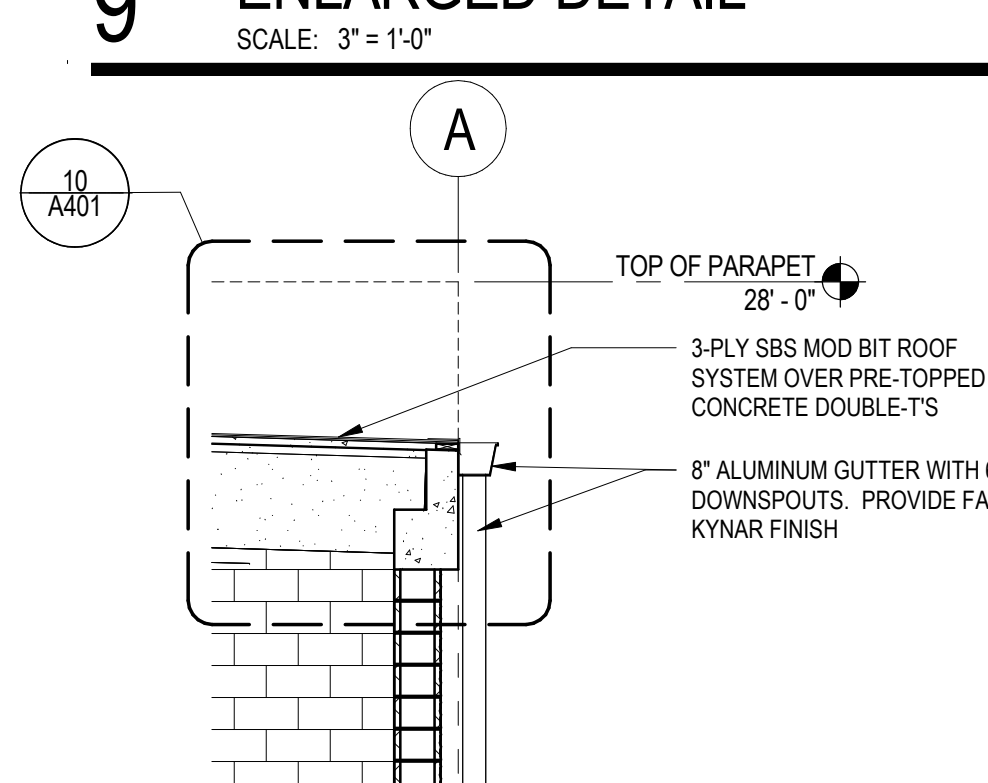
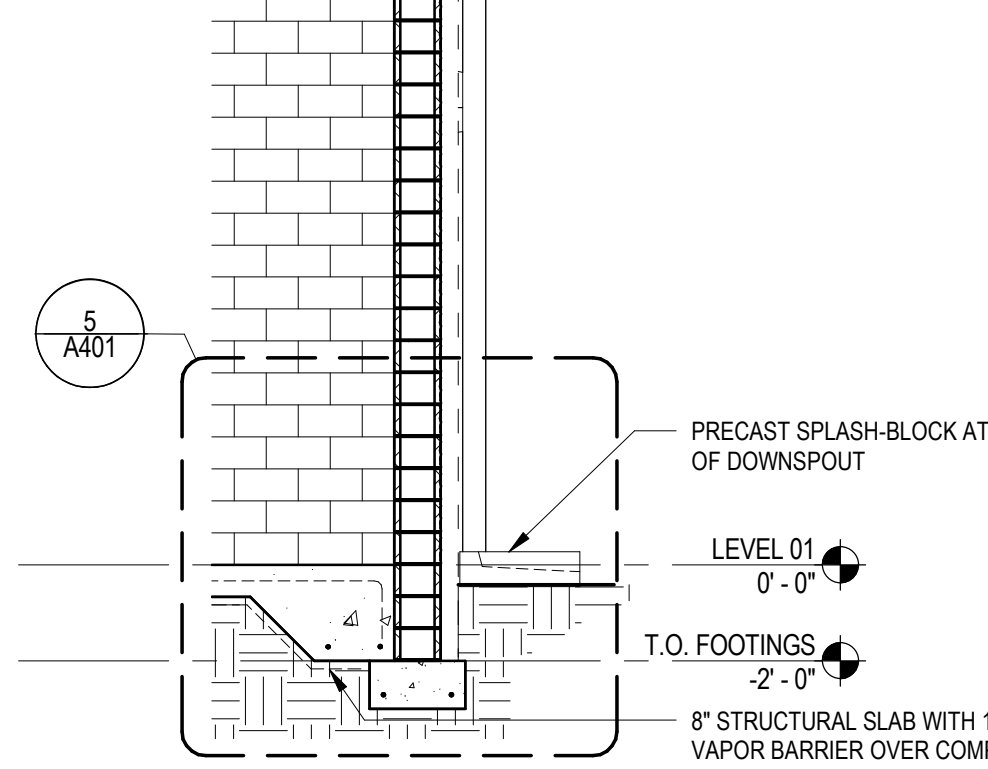


7 ENLARGED DETAIL
SCALE: 3" = 1'-0"

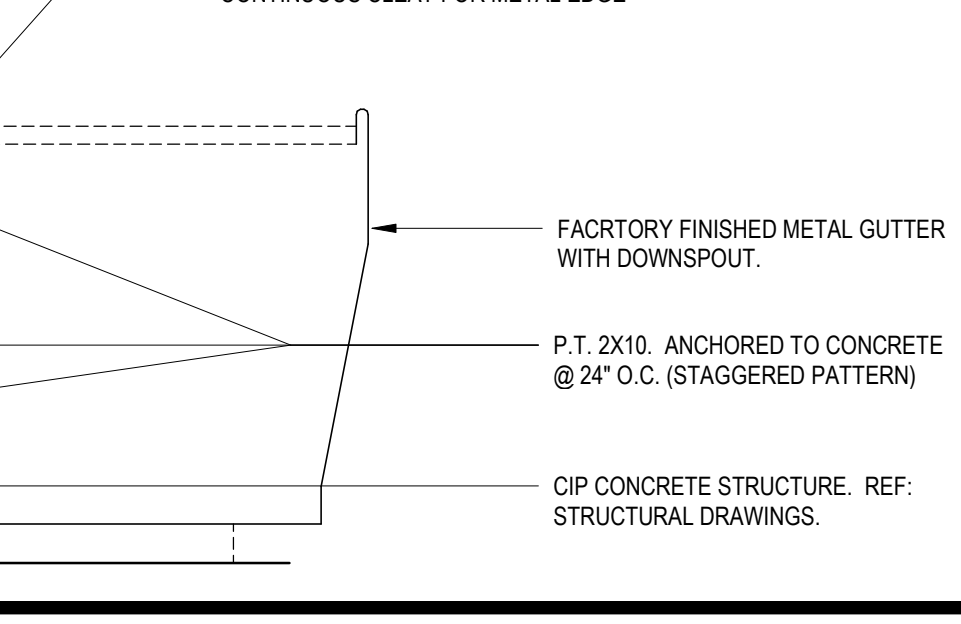
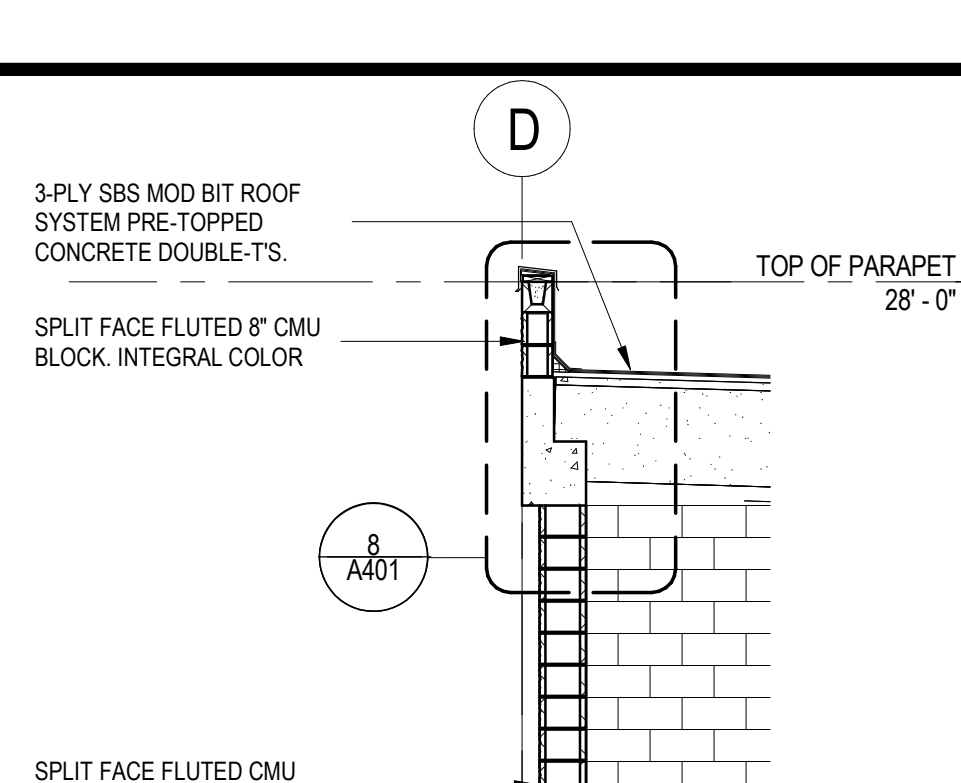
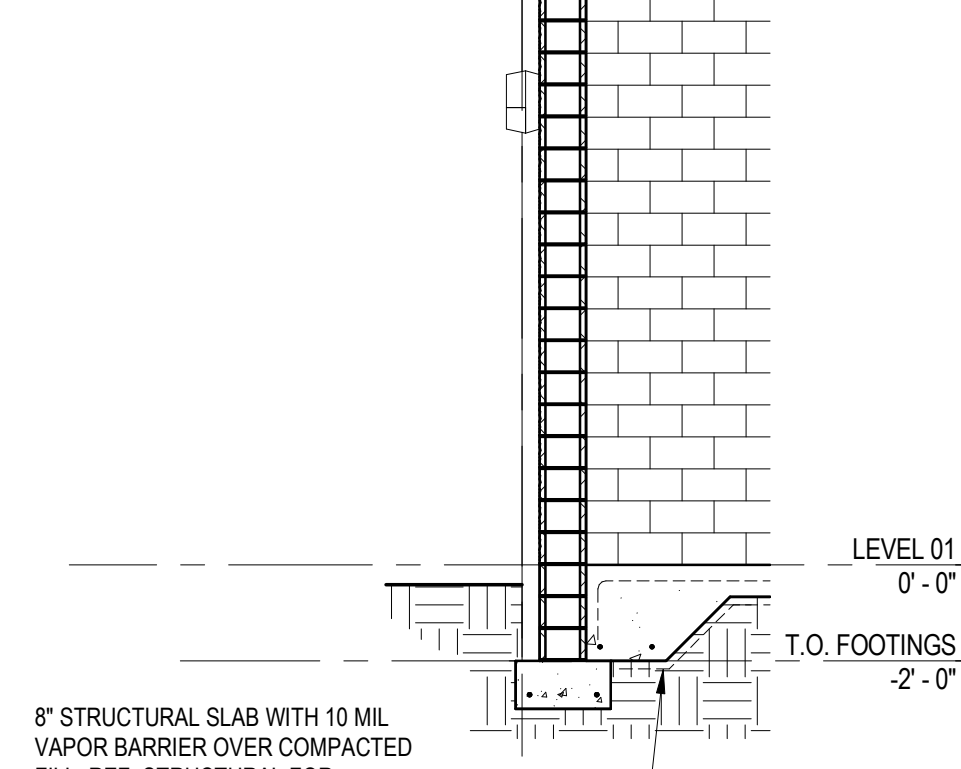


1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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



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



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- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, ORDERS, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ANY/ALL PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK EXCEPT AS PROVIDED OTHERWISE IN THE SPECIFICATIONS OR OWNER CONTRACTOR AGREEMENT.
- REVIEW ALL DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY/ALL CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
- COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, SITE ACCESS, USE OF SERVICES AND FACILITIES. MINIMIZE DISTURBANCE TO SITE, FACILITY FUNCTIONS AND OCCUPANTS.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "N/C" (NOT IN CONTRACT) UNDER SEPARATE CONTRACT. INCLUDE ANY SCHEDULE REQUIREMENTS FOR SUCH WORK IN THE CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE IT WITH THE OWNER TO ASSURE AN ORDERLY SEQUENCE OF INSTALLATION.
- MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE THIS WITH THE OWNER TO ENSURE SECURITY.
- DO NOT SCALE FROM DRAWINGS. THE WRITTEN DIMENSIONS GOVERN. IN THE INSTANCE OF A CONFLICT, CONSULT THE ARCHITECT.

JEA
NEW MANDARIN WRF STORAGE
BUILDING AND PARKING
10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

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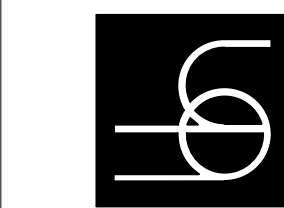
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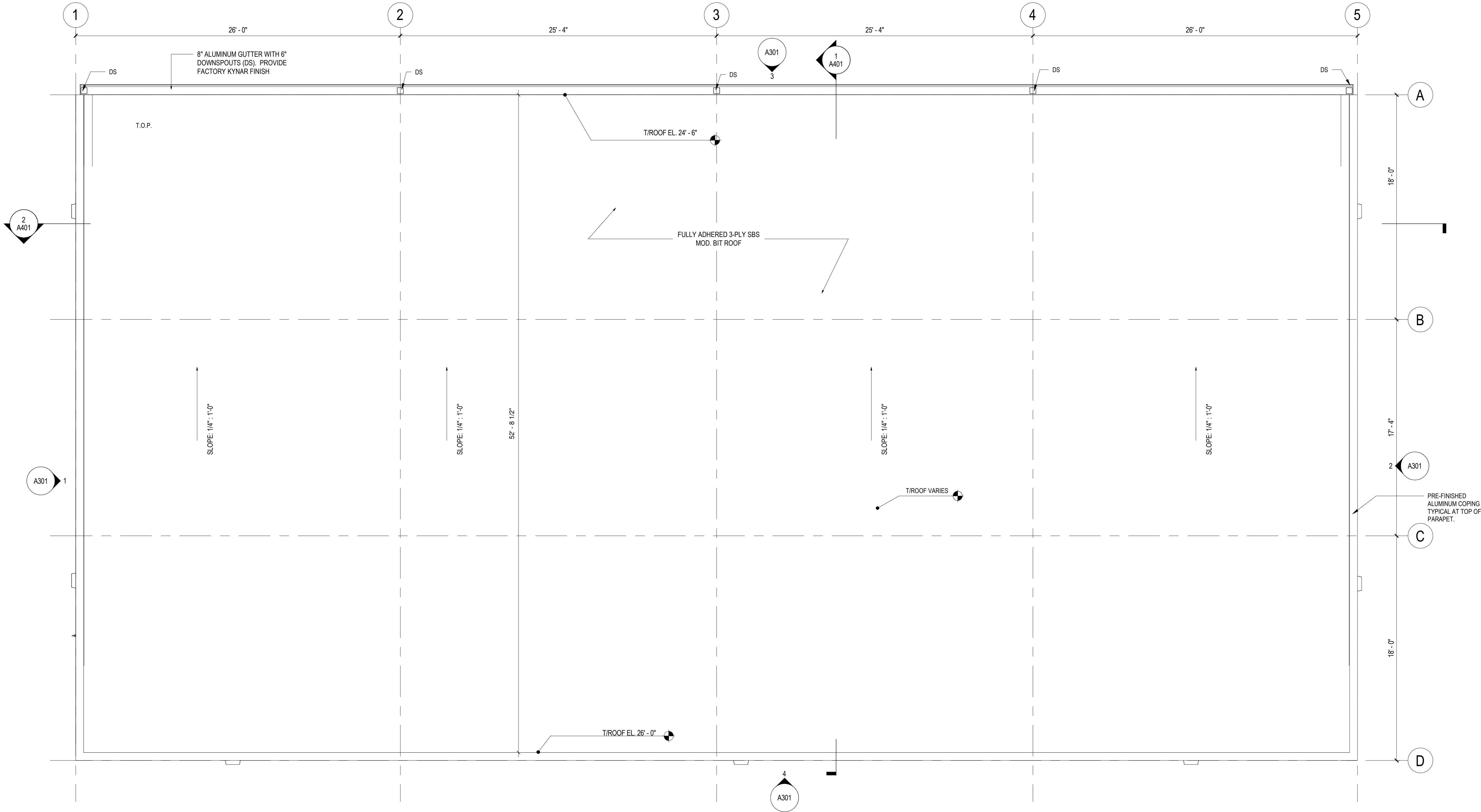
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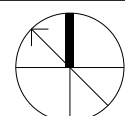
BHIDE & HALL ARCHITECTS, P.A.
1205 KENNEDY AVENUE, SUITE C ORANGE PARK, FL 32067
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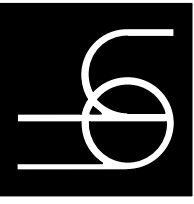
1 ARCHITECTURAL ROOF PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. REFERENCE SPECIFICATIONS FOR ROOF SYSTEM COMPOSITION AND FM REQUIREMENTS.
- 2.

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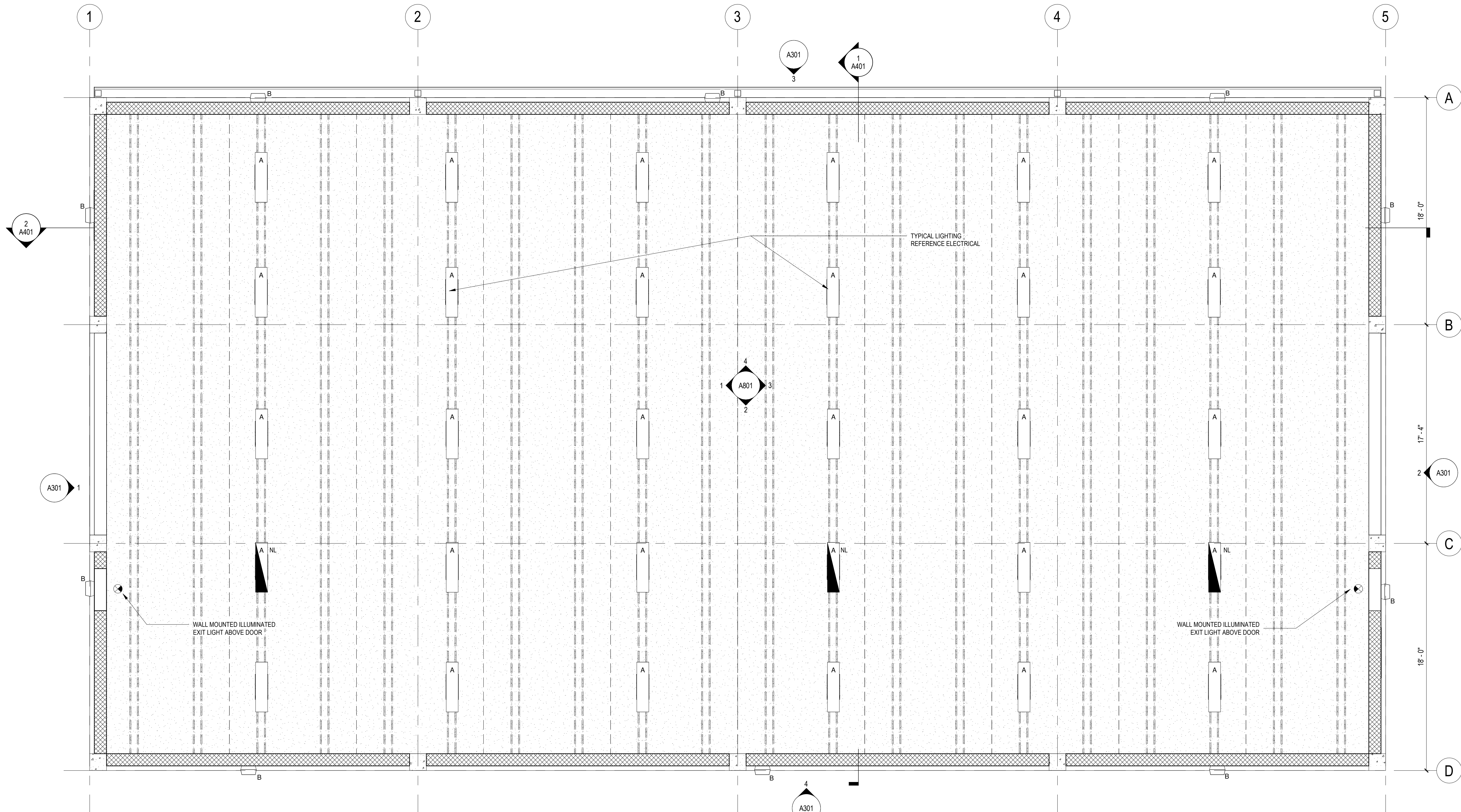
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ROOF PLAN

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- ### GENERAL NOTES
1. TYPICAL INTERIOR HIGH-BAY LIGHTING TYPE "A". LIGHTS MARKED WITH "NL" SHALL HAVE NITE-LIGHT FEATURE AND SHALL NOT BE SWITCHED. REF: ELECTRICAL
 2. LIGHT FIXTURE TYPE "B" EXTERIOR WALL MOUNTED FIXTURE. REF: ELECTRICAL
 3. MOUNT HIGH-BAY FIXTURES TO UNDERSIDE OF CONCRETE DOUBLE-T STRUCTURE. SEAL ALL FIXTURES AND OUTLET CONNECTIONS INCLUDING CONDUIT CONNECTIONS) WITH PUTTY OR APPROVED ALTERNATE TO PREVENT CORROSION.

1 ARCHITECTURAL CEILING PLAN
SCALE: 1/4" = 1'-0"

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CEILING PLAN

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A701
FOR CONSTRUCTION

GENERAL NOTES:

1. GENERAL INFORMATION

1. THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS AND METHOD, TECHNIQUES, PROCEDURES OR SEQUENCES OR THE ACTS OF OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE FOR ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. IF THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN.
3. PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. TYPICAL DETAILS AND SECTIONS NOT CUT ON THE PLANS SHALL APPLY UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. CONTRACTORS ARE REQUIRED TO COORDINATE THEIR RESPECTIVE WORK WITH ALL OTHER DISCIPLINES TO AVOID ANY CONFLICTS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER CONSTRUCTION DOCUMENTS.
6. LOCATION, SIZES AND QUANTITY OF ALL OPENINGS MAY NOT BE COMPLETELY INDICATED ON THE STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL OPENINGS WITH ALL OTHER DISCIPLINES PRIOR TO ANY FABRICATION.
7. CONTRACTORS ARE REQUIRED TO VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION. IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, NOTIFY A/E IMMEDIATELY FOR MODIFICATIONS TO THE DRAWINGS.
8. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING, UNDERPINNING, ETC. THE A/E IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR SAFETY PROCEDURES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING THAT IS REQUIRED DURING CONSTRUCTION TO KEEP THE STRUCTURE SAFE AND PLUMB UNTIL THE ENTIRE STRUCTURE IS COMPLETE. ANY BRACING INDICATED OR CALLED FOR ON THESE DRAWINGS ARE DESIGNED FOR THE FINAL AND COMPLETED STRUCTURE ONLY.
10. GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER.
11. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSION AND CONDITIONS OF EXISTING STRUCTURE AND SITE THAT ARE AFFECTED BY NEW WORK PRIOR TO ANY ERECTING OR FABRICATION OF NEW STRUCTURAL STEEL.

2. DESIGN CRITERIA

1. BUILDING CODE: THE FLORIDA BUILDING CODE 6TH EDITION, 2017.
2. DESIGN CODES: (LATEST EDITION, U.N.O.):
 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10)
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)
 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-10)
 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (AFPA / AF&PA NDS-2012)
 - AMERICAN CONCRETE INSTITUTE (ACI 318-14)
 - CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
 - STRUCTURAL WELDING CODE (ANSI/AWS D1.1)
3. DESIGN LOAD CRITERIA:
GRAVITY LOADS:
 - DEAD LOADS ROOF:
 - 1. FLAT ROOF WEIGHT OF MATERIALS
 - 2. SUPERIMPOSED DEAD LOAD 15 PSF
 - LIVE LOAD ROOF:
 - 1. ORDINARY FLAT ROOF 20 PSF
 - LIVE LOADS FLOOR:
 - 1. SLAB ON GRADE..... 600 PSF
WIND LOAD CRITERIA:
 - ULTIMATE DESIGN WIND SPEED Vult = 126 MPH (3 SECOND GUST)
 - NOMINAL DESIGN WIND SPEED Vasd = 98 MPH
 - RISK CATEGORY II
 - ENCLOSURE CLASSIFICATION ENCLOSED
 - WIND EXPOSURE CATEGORY C
 - INTERNAL PRESSURE COEFFICIENT ± 0.18

3. EARTHWORK/FOUNDATION NOTES

1. BUILDING FOUNDATION DESIGN BASED ON NET ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF FOR COLUMN SPREAD FOOTINGS AND FOR CONTINUOUS WALL FOOTINGS.
2. BUILDING FOUNDATION SHALL BE PLACED ON FIRM, UNDISTURBED NATURAL SOILS OR ON ENGINEERED FILL MATERIAL. FOR AREAS REQUIRING ENGINEERED FILL, THIS MATERIAL SHALL CONSIST OF CLEAN GRANULAR FILL COMPACTED AND PLACED IN LIFTS AS RECOMMENDED BY THE SOILS ENGINEER ON SITE. SOIL BEARING PRESSURE OF ENGINEERED FILL TO BE FIELD VERIFIED BY THE SOILS ENGINEER ON SITE PRIOR TO CONSTRUCTION.
3. SUB-BASE MATERIAL UNDER SLABS-ON-GRADE TO BE CLEAN GRANULAR FILL COMPACTED AS RECOMMENDED BY THE SOILS ENGINEER ON SITE.
4. BACKFILL AGAINST GRADE BEAMS AND SITE WALLS SHALL BE PLACED EVENLY ON BOTH SIDES.
5. UNDERCUTTING OF THE SOIL FOR FOUNDATION AND/OR PLACEMENT MAY BE REQUIRED. THE STRUCTURAL DRAWINGS MAY NOT INDICATE THE ENTIRE SCOPE OF UNDERCUTTING, FILL, BAD SOIL OR ROCK REMOVAL THAT MAY BE REQUIRED TO ATTAIN THE DESIGN SOIL BEARING PRESSURES. IT IS THE CONTRACTOR'S RESPONSIBILITY, BEFORE BIDDING, TO ASSESS THE EXTENT OF EXCAVATION AND COMPACTION THAT MAY BE REQUIRED TO MEET THE DESIGN CRITERIA.
6. IF DEWATERING IS REQUIRED, SUMPS SHALL NOT BE PLACED WITHIN THE FOUNDATION EXCAVATION.
7. REFER TO GEO-TECHNICAL REPORT AS PREPARED BY MESKEL & ASSOCIATES ENGINEERING, MAE PROJECT No. 0040-0016, DATED JULY 1, 2019 FOR ADDITIONAL FOUNDATION REQUIREMENTS. IF CONFLICT BETWEEN E.O.R. AND GEO-TECHNICAL INVESTIGATION REPORT MORE STRINGENT CRITERIA SHALL BE FOLLOWED.

SHEET LATEST ISSUE			
SHEET NO.	SHEET NAME	REV	CURRENT REVISION DATE
S0.1	GENERAL NOTES & DESIGN CRITERIA		
S0.2	GENERAL NOTES & DESIGN CRITERIA		
S1.1	FOUNDATION & SLAB PLAN		
S2.1	ROOF FRAMING PLAN		
S3.1	SECTIONS & DETAILS		
S4.1	SECTIONS & DETAILS		

4. CONCRETE

1. ALL CONCRETE, UNLESS OTHERWISE NOTED IN SCHEDULES OR DETAILS, SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 3000 PSI. FOR FOUNDATIONS, 4000 PSI. FOR COLUMNS & BEAMS. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF).
2. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED, FOR SURFACE FINISHES AND OTHER REQUIREMENTS, REFER TO THE CONCRETE SPECIFICATIONS.
3. DETAILS OF FABRICATION OF REINFORCEMENT, HANDLING AND PLACEMENT OF THE CONCRETE, CONSTRUCTION OF FORMS AND PLACEMENT OF REINFORCEMENT, NOT OTHERWISE COVERED BY THE PLANS AND SPECIFICATIONS, SHALL COMPLY WITH THE LATEST EDITION OF THE A.C.I. CODE AND C.R.S.I REQUIREMENTS.
4. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES OF CONCRETE AND THE EXPOSED CORNERS OF BEAMS, GIRDERS AND COLUMNS UNLESS OTHERWISE SHOWN OR NOTED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
5. ALL MISCELLANEOUS ITEMS TO BE INSTALLED IN ANY CONCRETE WORK, SUCH AS PIPES, ELECTRICAL CONDUITS, DOVETAIL ANCHOR SLOTS, RELETS, ETC., SHALL BE PROPERLY LOCATED, INSTALLED AND CHECKED PRIOR TO PLACEMENT OF CONCRETE. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR THE EXACT EXTENT AND LOCATION OF THESE ITEMS THAT ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
6. PROVIDE SLEEVES FOR ALL PIPE AND CONDUIT PENETRATIONS IN FOUNDATION WALLS, GRADE BEAMS, WALL FOOTINGS AND TRENCH FOOTINGS TO TOTALLY SEPARATE THE PIPES FROM THE CONCRETE.
7. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER BEFORE STARTING CONCRETE WORK TO ESTABLISH A SATISFACTORY PLACING SCHEDULE AND TO DETERMINE THE LOCATION OF CONSTRUCTION JOINTS SO AS TO MINIMIZE THE EFFECTS OF SHRINKAGE.
8. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE IN CONCRETE WALLS, FOOTINGS, BEAMS OR SLABS UNLESS SHOWN OR NOTED IN THE CONTRACT DRAWINGS. VERTICAL JOINTS ARE PERMITTED IN CONCRETE SLABS, WALLS, WALL FOOTINGS, TRENCH FOOTINGS AND GRADE BEAMS. REFER TO TYPICAL DETAILS.
9. ALL CONSTRUCTION JOINTS IN CONCRETE WALLS, FOOTINGS, BEAMS OR SLABS SHALL BE PROVIDED WITH A KEY WAY. THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LATIANCE REMOVED. IN ADDITION, THE JOINT SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF CEMENT GROUT OR A BONDING AGENT IMMEDIATELY BEFORE PLACING CONCRETE.
10. CONTROL JOINTS, IF NOT SHOWN ON DRAWINGS, SHALL BE PROVIDED IN ALL SLABS-ON-GRADE THAT ARE EXPOSED OR THAT SUPPORT BRITTLE FINISHES SUCH AS CERAMIC TILE OR TERRAZZO. JOINTS SHALL BE LOCATED ON EACH COLUMN LINE AND NOT TO EXCEED 15' IN EITHER DIRECTION U.N.O. SEE TYPICAL SLAB-ON-GRADE DETAILS.
11. THE SAW CUTTING OF CONTROL JOINTS IN A SLAB-ON-GRADE MAY BEGIN WHEN THE CUTTING ACTION WILL NOT TEAR, ABRABE, OR OTHERWISE DAMAGE THE SURFACE AND BEFORE THE CONCRETE DEVELOPS RANDOM SHRINKAGE CRACKING. SAW CUTTING MAY BEGIN AND FINISH WITHIN 4 TO 12 HOURS AFTER SURFACE FINISHING IS COMPLETE.
12. REFER TO CONCRETE SPECIFICATIONS FOR FLOOR FLATNESS REQUIREMENTS AT THE SLAB-ON-GRADE.
13. MAINTAIN A MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTAL BETWEEN BEARING ELEVATIONS OF ADJACENT FOOTINGS TO AVOID UNDERMINING FOUNDATIONS UNLESS NOTED OTHERWISE IN PLANS.
14. SET ANCHOR BOLTS WITH 3/4" THICK PLYWOOD TEMPLATES OR 1/4" THICK STEEL PLATE TEMPLATES AND BRACE AGAINST DISPLACEMENT.

5. CONCRETE MASONRY

1. ALL MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530-13/ASCE 5-13/TMS 404-13" BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", LATEST EDITION.
4. CONCRETE MASONRY UNITS SHALL BE ASTM C 90, HOLLOW LOAD BEARING UNITS, TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MIN. COMPRESSIVE STRENGTH OF 2,000 PSI (fm = 2,000 PSI).
5. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI PER ASTM C1019. GROUT SHALL BE MIXED TO PROVIDE A SLUMP BETWEEN 8" TO 11".
6. MORTAR SHALL CONFORM TO ASTM C270 TYPE M OR S.
7. LAP VERTICAL BARS MINIMUM OF 48 BAR DIAMETERS WITH WIRE TIES.
8. ALL CELLS SHALL BE FULLY GROUTED WHERE VERTICAL REINFORCEMENT IS INDICATE ON THESE DRAWINGS.
9. FILL ALL CELLS BELOW FINISHED GRADE.
10. PROVIDE #9 GALV. HORIZONTAL JOINT REINFORCEMENT IN WALLS AT 16" O.C. VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN BOND BEAMS AT 8" O.C. VERTICALLY. LAP JOINT REINFORCEMENT @ 12" O.C. MINIMUM.
11. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 32" O.C. ACROSS VERTICAL CONTROL JOINTS IN WALLS AT 16" O.C. AND ACROSS VERTICAL CONTROL JOINTS IN BOND BEAMS. TOP AND BOTTOM REINFORCEMENT IN SPANDREL BEAMS SHALL BE CONTINUOUS ACROSS CONTROL JOINTS.
12. PROVIDE 8"x16" BOND BEAM @ TOP OF WALLS. REINFORCE BOND BEAM WITH (2) #5 PER 8" OF DEPTH U.O.N.
13. PROVIDE (1) #5 BAR VERTICAL MINIMUM AT ALL CORNERS, INTERSECTIONS AND EACH SIDE OF CONTROL JOINTS.
14. PROVIDE (2) #5 BARS VERTICAL AT 8" O.C. AT END WALLS. PROVIDE #5 @ 48" O.C. MINIMUM VERTICAL REINFORCEMENT, TYPICAL U.N.O. ON PLAN.
15. PROVIDE (2) #5 BAR VERTICAL MINIMUM EACH SIDE OF OPENINGS.
16. ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS FORMING SUCH CELLS TO BE FILLED SHALL BE FULL-BEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES OR BY EQUIVALENT MECHANICAL ANCHORAGE.
17. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS, VERTICAL CELL MEASURING NOT LESS THAN 3" AND HAVING A CLEAR AREA OF 10 SQUARE INCHES.
18. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 10 FEET.
19. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT NOT LESS THAN 1/2" BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.
20. WHERE LINTELS BEAR ON MASONRY WALLS, THEY SHALL BEAR ON EITHER A BOND BEAM COURSE OR CORES GROUTED SOLID. ALL LINTELS SHALL HAVE AT LEAST 8" OF BEARING AT EACH END UNLESS NOTED OTHERWISE.
21. ALL GROUT PLACED SHALL BE VIBRATED BY MECHANICAL VIBRATORS.
22. PROVIDE CONTROL JOINTS IN MASONRY WALLS AT A MAXIMUM OF 25'-0". COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.

6. REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, ACI 318, AND CRSI.
2. REINFORCEMENT SHALL HAVE DEFORMED SURFACES IN ACCORDANCE WITH ASTM A615 WITH MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. WELDED WIRE FABRIC SHALL BE SMOOTH CONFORMING TO ASTM A185.
4. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
5. PROVIDE CORNER BARS AT ALL WALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.
6. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER) UNLESS OTHERWISE NOTED:
 - SURFACES NOT FORMED AND IN CONTACT WITH SOIL 3"
 - FORMED SURFACES IN CONTACT WITH SOIL OR WEATHER 2"
 - BEAMS, GIRDERS AND COLUMNS 1 1/2"
 - WALLS AND JOISTS 3/4"
 - SLABS ON GROUND 2" FROM TOP
7. CONTINUOUS REINFORCING STEEL IN CONCRETE SHALL BE LAP SPLICED PER CONCRETE LAP TABLE, CLASS "B", OR MASONRY LAP TABLE. TYP. U.N.O., WWF WIRE SPLICE SHALL BE ONE FULL MESH SPACING + 6".
8. OPENINGS THROUGH CONCRETE WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS MUST BE LOCATED AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS MUST BE REVIEWED BY THE A/E BEFORE THE CONCRETE IS POURED.
9. WELDED WIRE FABRIC IN THE CONCRETE SLAB-ON-GRADE SHALL BE SUPPORTED TO PROVIDE REQUIRED COVER/PLACEMENT DEPTH; AND PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT OPERATIONS.
10. ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, U.O.N.
11. AT CHANGE IN DIRECTION OF CONCRETE WALLS, BEAMS AND STRIP FOOTINGS PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.
12. EPOXY ADHESIVE ANCHORS SHALL BE INSTALLED WITH SIMPSON SET-XP UNLESS OTHERWISE NOTED ON PLANS AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS BY SIMPSON OR APPROVED EQUAL.
13. REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL CAREFULLY CHECK AND "APPROVED" BEFORE STAMP SUBMITTING TO THE E.O.R.. NO SPLICES OR OTHER DETAILS ARE TO BE ADDED WITHOUT SUBMITTAL.

7. STRUCTURAL STEEL

1. DETAILS FOR DESIGN, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST A.I.S.C. STANDARDS UNLESS OTHERWISE NOTED OR SPECIFIED.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING U.N.O. ON THE STRUCTURAL DRAWINGS:
 - WIDE FLANGE SHAPES ASTM A572 OR ASTM A992 (Fy =50 KSI)
 - CHANNELS, ANGLES, PLATES, BARS ASTM A36 (Fy = 36 KSI)
 - RECTANGULAR TUBES (HSS) ASTM A500 GRADE B (Fy = 46 KSI)
 - STRUCTURAL PIPE ASTM A53 GRADE B (Fy = 35 KSI)
3. ALL STRUCTURAL BOLTS (INCLUDING WASHERS AND NUTS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR A490. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION U.N.O. BOLTING OF STRUCTURAL STEEL SHALL CONFORM TO THE PROVISIONS OF RCSC "SPECIFICATIONS" FOR STRUCTURAL JOINTS USING ASTM A325 AND A490 BOLTS.
4. MINIMUM SIZE OF BOLTS SHALL BE 3/4" DIAMETER, AND EACH CONNECTION SHALL HAVE A MINIMUM OF 2 BOLTS WITH ONE HARDENED WASHER PER BOLT.
5. ANCHOR BOLTS SHALL CONFORM TO ASTM F-1554, GRADE 36, AS NOTED ON THE DRAWINGS. REFER TO TYPICAL DETAIL FOR SIZE AND LENGTH.
6. PERMANENT MACHINE BOLTS, USING AN APPROVED TYPE OF SELF ANCHORING HEX NUT, MAY BE USED FOR SUCH MINOR CONNECTIONS AS SHELF ANGLES, CLOSURES, ETC.
7. EXPANSION BOLTS SHALL BE A MINIMUM OF 3/4" DIAMETER (HILTI KWIK BOLT II OR APPROVED EQUAL) WITH A MIN. EMBEDMENT OF 31/4" INTO CONCRETE AND 51/4" INTO GROUT FILLED CONCRETE MASONRY UNITS.
8. EPOXY ANCHOR BOLTS SHALL BE A MINIMUM OF HITLI RES500-SD (OR APPROVED EQUAL). MINIMUM EMBEDMENT SHALL BE 12" TIMES BAR DIAMETER U.O.N. FOLLOW ALL WRITTEN MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
9. WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S (AWS) STRUCTURAL WELDING CODES. ALL WELDING SHALL BE PERFORMED BY PRE-QUALIFIED WELDERS.
10. WELDED CONNECTIONS FOR STEEL MEETING ASTM A992 OR A572 SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. OTHER WELDED CONNECTIONS TO BE MADE WITH REGULAR E70XX ELECTRODES.
11. WELDS NOT OTHERWISE NOTED ON DRAWINGS SHALL BE CONTINUOUS FILLET WELDS. THE MINIMUM SIZE SHALL BE 1/4", (MIN. 2"-12") OR AS REQUIRED BY THE AISC SPECIFICATIONS, WHICHEVER IS LARGER.
12. MINIMUM THICKNESS OF ALL CONNECTION MATERIAL SHALL BE 5/16".
13. UNLESS NOTED OTHERWISE, ALL SIMPLE BEAM SHEAR CONNECTIONS SHALL BE MADE USING DOUBLE ANGLE CONNECTIONS. CONNECTIONS SHALL BE HIGH STRENGTH BOLT BEARING TYPE WITH THREADED PARTS INCLUDED IN THE SHEAR PLANE. ALL CONNECTIONS, UNLESS FULLY DETAILED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR TO MEET BOTH AISC AND OSHA REQUIREMENTS. REFER TO TYPICAL DETAILS FOR TYPE OF SIMPLE BEAM CONNECTION AND MINIMUM BOLT REQUIREMENTS.
14. PROVIDE TEMPORARY ERECTION BRACING OF THE STRUCTURE UNTIL ALL PERMANENT LATERAL SUPPORT IS IN PLACE. FIELD PAINT, WHERE APPLICABLE, ALL FIELD WELDS, ABRASIONS, RUST SPOTS AND FIELD BOLTS ON STRUCTURAL STEEL, JOISTS AND DECKING AFTER ERECTION.
15. ALL EDGE ANGLES OR BENT PLATES SHALL BE FIELD APPLIED TO THE BEAMS WITH ±1/8" HORIZONTAL AND VERTICAL TOLERANCE TO FACILITATE OTHER INSTALLATIONS.
16. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STEEL.
17. ALL INTERIOR & EXTERIOR EXPOSED STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE PRIMER. INTERIOR STEEL BEAMS, COLUMNS, ANGLES ETC. ARE REQUIRED TO BE SHOP PRIMED PRIOR TO PAINTING EXPOSED STEEL.

8. PRECAST CONCRETE SLABS

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS:
 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", (ACI 318-14), AMERICAN CONCRETE INSTITUTE.
 - "PCI DESIGN HANDBOOK - PRECAST AND PRESTRESSED CONCRETE, FOURTH EDITION", PRESTRESSED CONCRETE INSTITUTE.
2. PRECAST CONCRETE MEMBERS SHALL BE FABRICATED WITH SELF CONSOLIDATING CONCRETE.
3. PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH PCI AND ACI STANDARDS AND SHALL BE CAPABLE OF SUPPORTING THE SUPERIMPOSED DEAD LOADS AND LIVE LOADS INDICATED IN THE GENERAL NOTES AND DRAWINGS.
4. PRECAST SUPPLIER SHALL COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE LOCATIONS OF INSERTS, CORE DRILLS FOR OTHER TRADES. DESIGN OF PRECAST SLABS SHALL TAKE INTO ACCOUNT ALL OPENINGS AND FIELD CORE DRILLS IN SATISFYING DESIGN REQUIREMENTS.
5. PRECAST CONCRETE SLABS SHALL BE INSTALLED TO THE FOLLOWING TOLERANCE LIMITS:

CAMBER	3/4" MAXIMUM
OFFSET IN ALIGNMENT BETWEEN ADJACENT PLANK:	3/16" MAXIMUM

IF THESE TOLERANCES ARE EXCEEDED, THE OWNER WILL HAVE THE RIGHT TO REJECT THE SLABS AND HAVE THEM REPLACED AT NO COST TO THE OWNER.
6. ALL PRECAST MEMBERS SHALL NOT EXCEED 10'-0" WIDTHS, UNLESS NOTED OTHERWISE.
7. GROUT TO CONSIST OF ONE PART PORTLAND CEMENT (ASTM C150, TYPE 1) AND THREE PARTS OF SAND (ASTM C404).
8. PROVIDE FLASH PATCHING AT ALL UNEVEN SURFACES OF SLABS TO PRODUCE A FLAT SURFACE ACCEPTABLE TO THE ARCHITECT AND THE OWNER.

 BHIDE & HALL ARCHITECTS, P.A. 1205 ANKENY AVENUE, SUITE C ORANGE PARK, FL 32067-2892 TEL: (904) 443-0869 FAX: (904) 364-0470		 GMHILL G.M. HILL ENGINEERING 9640 SUNBEAM CENTER DRIVE JACKSONVILLE, FLORIDA 32257 PH: (904) 280-8244(P) PH: (904) 503-4827(F) C.O.A. #28181	
 JEA NEW MANDARIN WRF STORAGE BUILDING AND PARKING 10828 HAMPTON ROAD JACKSONVILLE, FL 32257			
ENGINEER		LICENSE NO.	
JEFFERY D. McGEe		45944	
			
Revision	Date		
GENERAL NOTES & DESIGN CRITERIA			
DATE:		10/28/19	
D.B.:		KA	
C.B.:		JDM	
JOB NO:		19023	
S0.1 FOR CONSTRUCTION			



NEW MANDARIN WRF STORAGE
BUILDING AND PARKING

10828 HAMPTON ROAD
JACKSONVILLE FL 32257

JEFFREY D. MCGEE
 LICENSE
 NO. 45944
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER




Seal / Signature

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FOUNDATION & SLAB PLAN	
DATE:	10/28/19
D.B.:	KA
C.B.:	JDM
JOB NO:	19023

S1.1
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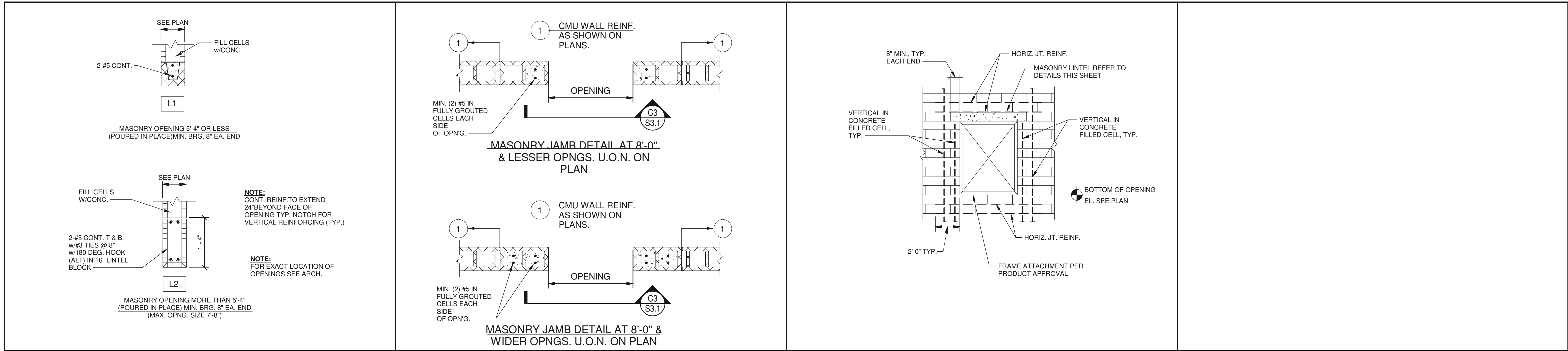
- COLUMN SYMBOLS
-  INDICATES COLUMN BELOW
-  INDICATES COLUMN THRU
-  INDICATES COLUMN ABOVE

FOOTING SCHEDULE			
MARK	SIZE (W x D x L)	REINFORCING	REMARKS
CF2.5	2'-6" x 1'-0" x CONT.	(3)#5 CONT. TOP & BOTTOM w/#3 TIES @ 18" O.C.	
F3.0	3'-0" x 3'-0" x 1'-0"	(4)#5 EA. WAY BOT.	
TE-2.0	2'-0" x 1'-4" x CONT.	(2)#5 CONT. BOTTOM	MONOLITHIC w/SLAB

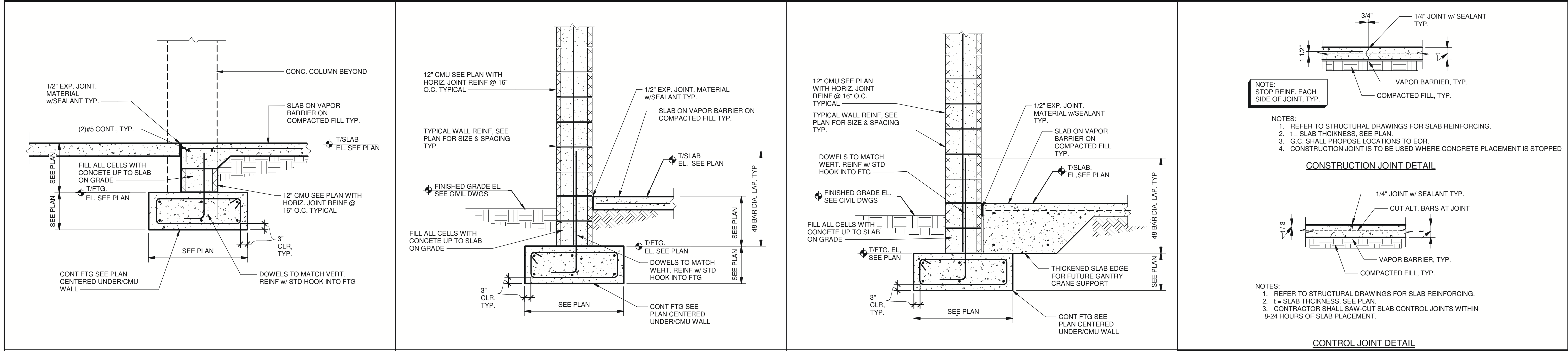


- | BEAM SCHEDULE | | | | | | | |
|---------------|--------|---------------|-------------|--------|--------|--------|--|
| | | | REINFORCING | | | | |
| MARK | ELEV. | SIZE (INCHES) | BOTT. | TOP | "C" | "E" | TIES |
| B1 | 23'-2" | 16 x 14 | (5) #7 | (2) #8 | (1) #8 | (2) #8 | #3 @ 6"O.C. |
| B2 | 24'-8" | 16 x 16 | (5) #7 | (2) #8 | (1) #8 | (2) #8 | #3 @ 6"O.C. |
| B3 | 24'-8" | 16 x 16 | (3) #7 | (3) #7 | ---- | ---- | #3 @ 6"O.C. |
| B4 | 21'-4" | 12 x 14 | (2) #7 | (2) #6 | ---- | ---- | (4) #3 @ 6"O.C.
REMAINDER @ 12"O.C. |

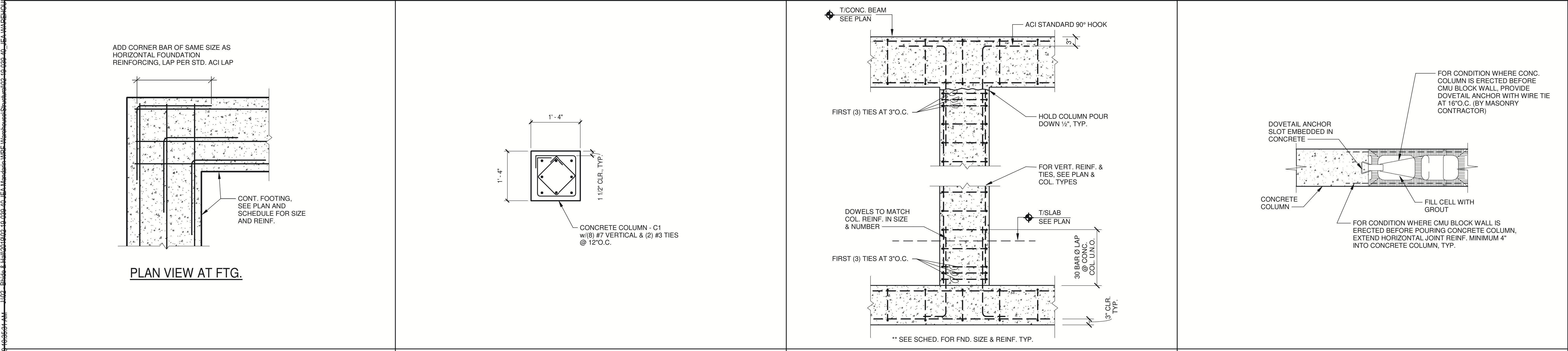




MASONRY LINTEL DETAILS SCALE = NTS C1 TYP. CMU JAMB JOINTS SCALE = NTS C2 TYP. CMU WALL REINF. @ OPENING SCALE = NTS C3



TYP. SECTION AT DOOR OPENING SCALE: 3/4" = 1'-0" B1 SECTION @ EXTERIOR 12" CMU WALL SCALE: 3/4" = 1'-0" B2 SECTION @ EXT. WALL w/THICKENED EDGE SCALE: 3/4" = 1'-0" B3 SLAB ON GRADE CONTROL JOINT SCALE = NTS B4



CORNER REINF. DETAIL AT FTGS. & TIE BMS. SCALE: 3/4" = 1'-0" A1 CONCRETE COLUMN DETAIL SCALE: 3/4" = 1'-0" A2 TYP. CONC. COL. DETAIL SCALE: 3/4" = 1'-0" A3 TYP. DOVETAIL ANCHOR DETAIL SCALE: 3/4" = 1'-0" A4

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NEW MANDARIN WRF STORAGE BUILDING AND PARKING

10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

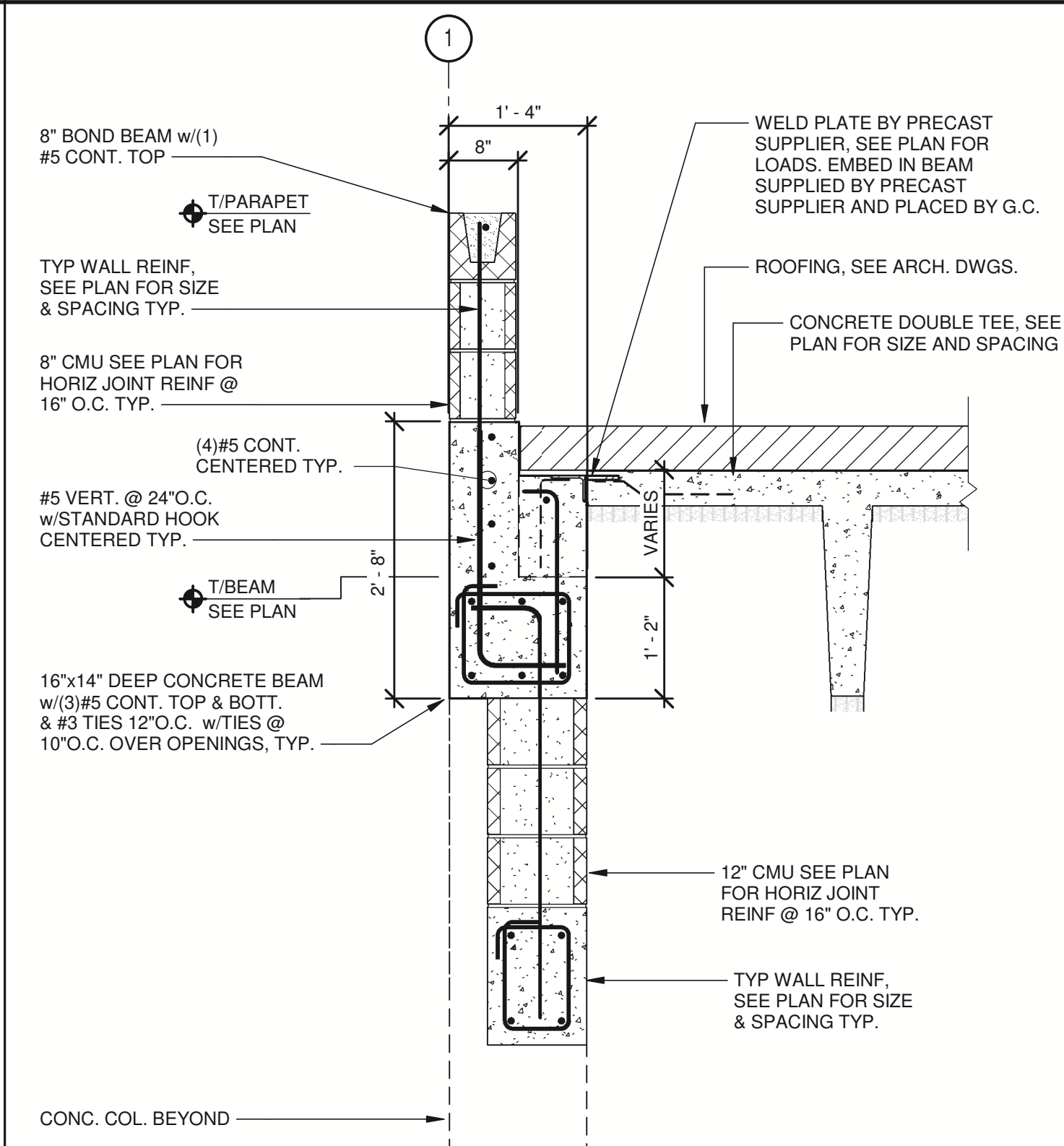
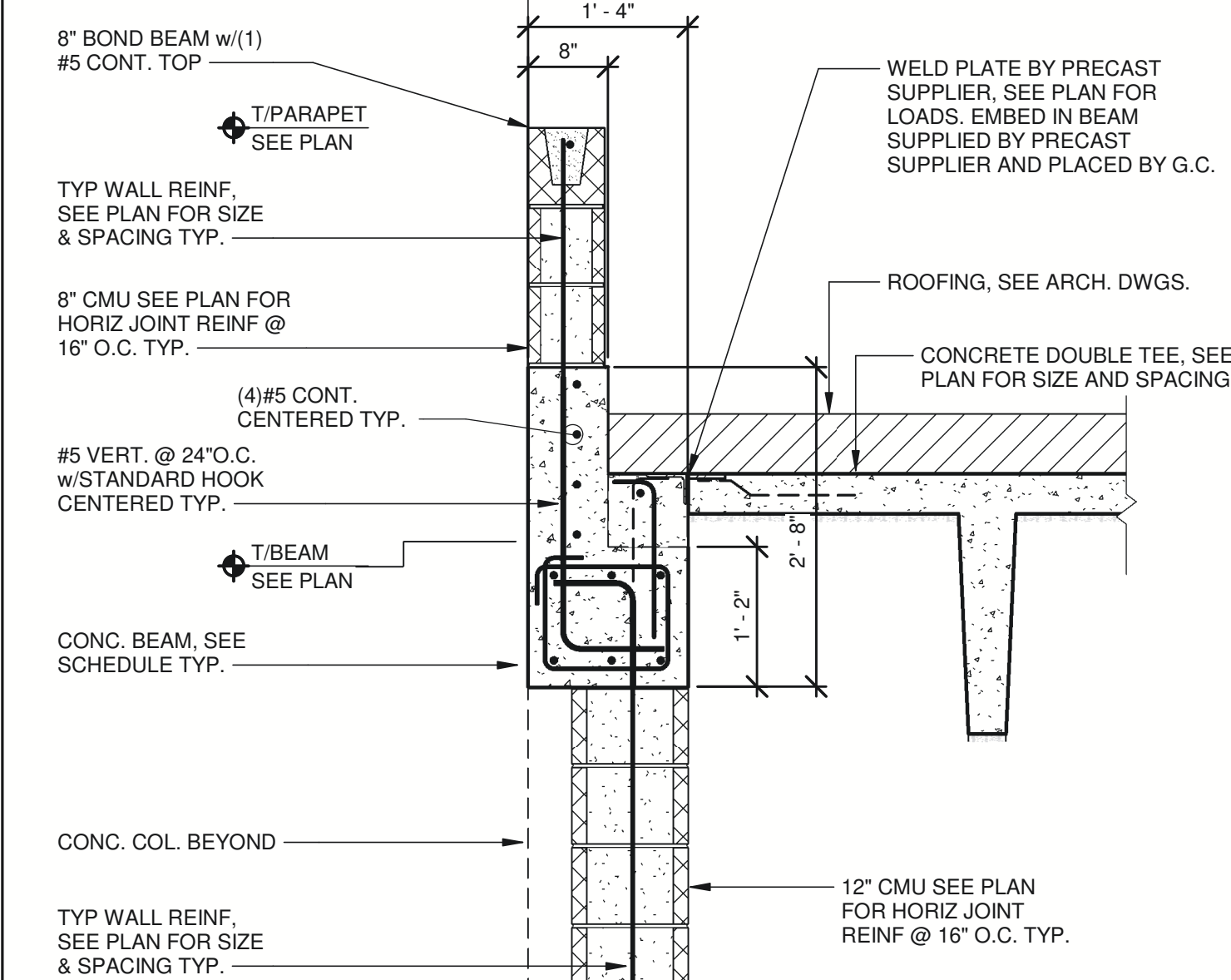
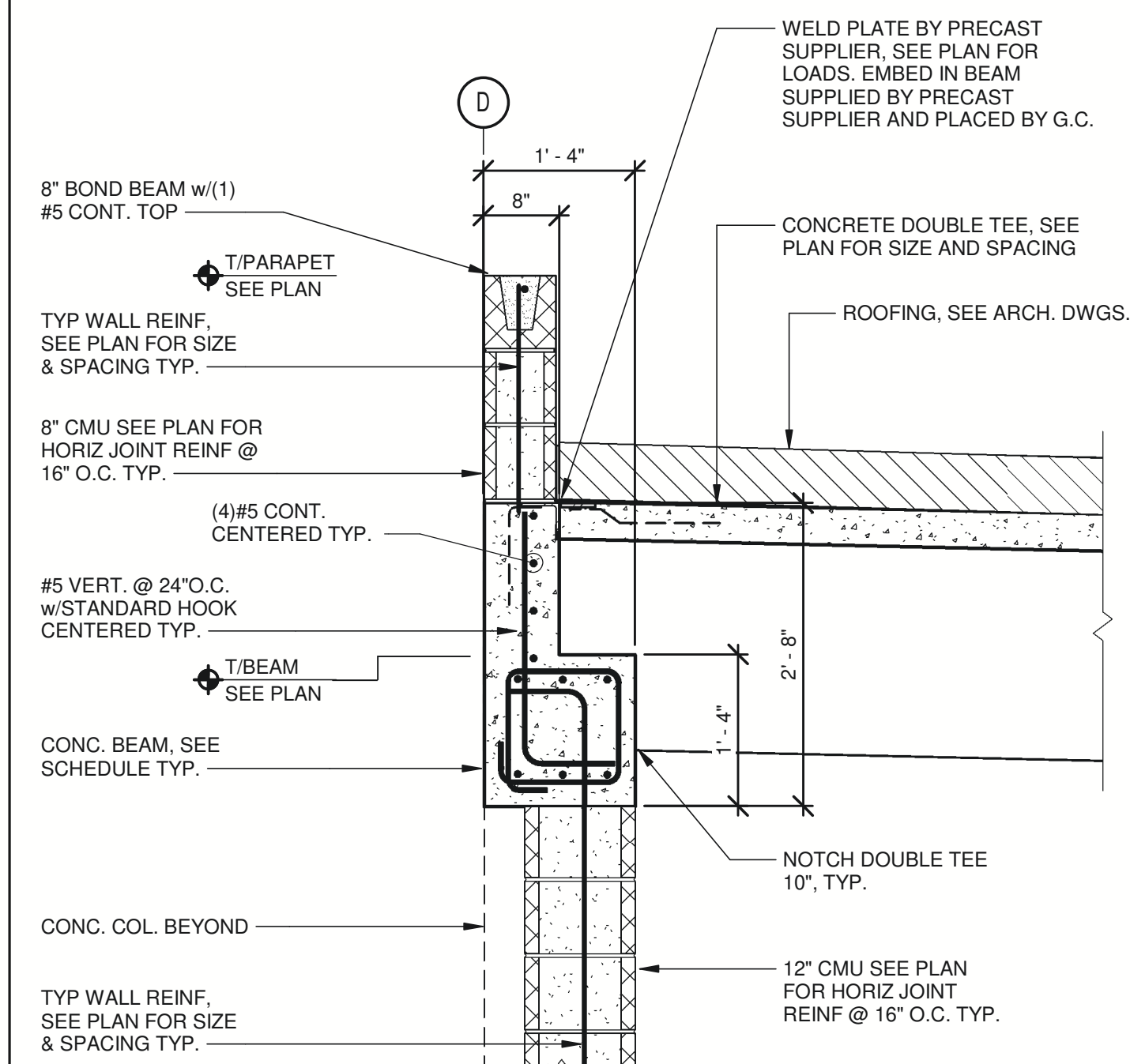
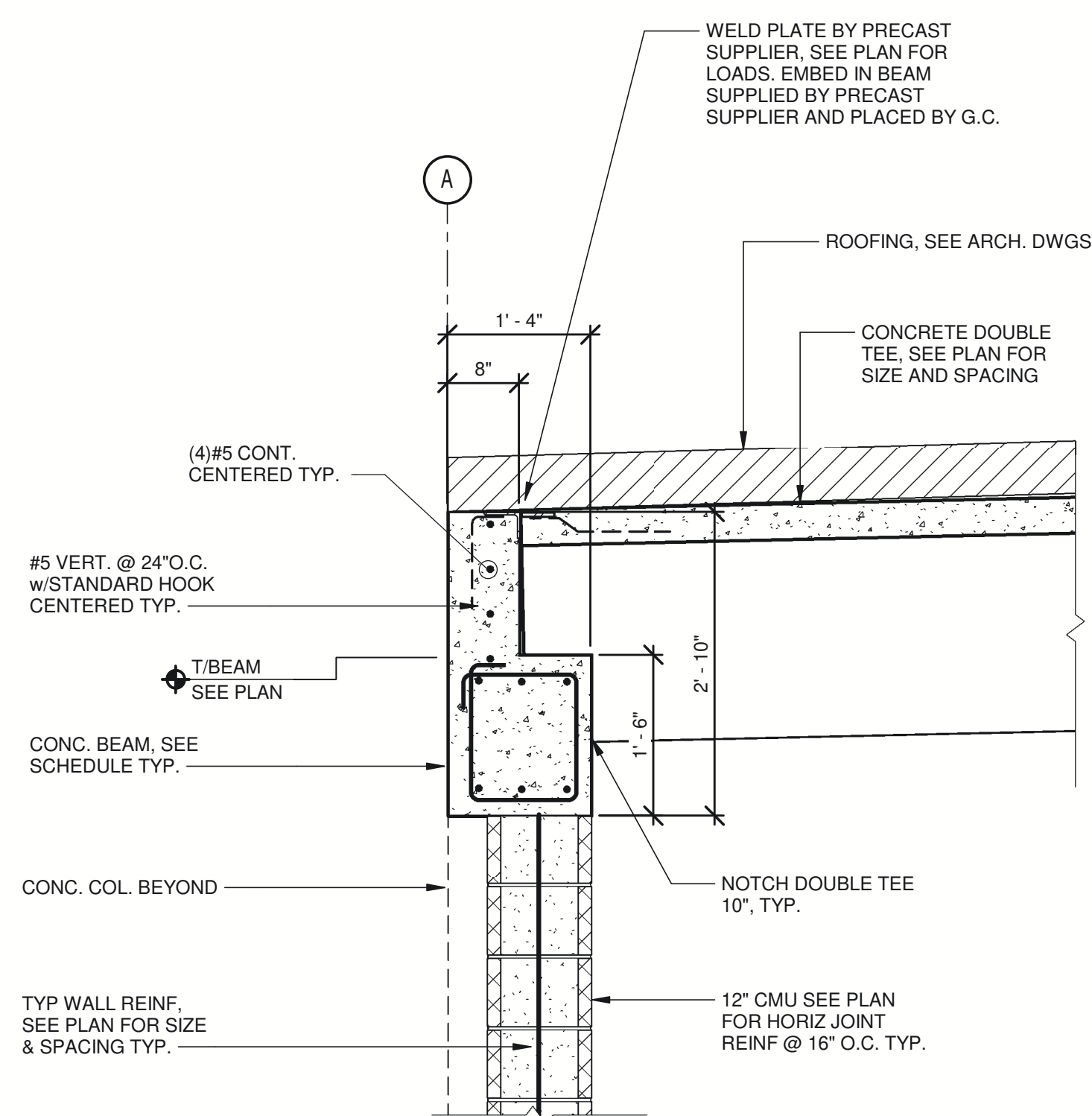
ENGINEER	LICENSE NO.
JEFFERY D. McSEE	45944

Revision	Date

SECTIONS & DETAILS

DATE: 10/28/19
D.B.: KA
C.B.: JDM
JOB NO: 19023

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FOR CONSTRUCTION



JEA®

**NEW MANDARIN WRF STORAGE
BUILDING AND PARKING**

10828 HAMPTON ROAD
JACKSONVILLE, FL 32257

ENGINEER	LICENSE NO.
JEFFERY D. McGEE	45944

SECTIONS DETAILS

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S4.1

BHIDE & HALL ARCHITECTS, P.A.

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G.M. HILL ENGINEERING



LIGHTING POLE INSTALLATION DETAIL



HANDHOLE DETAIL

1. PROVIDE ALL WORK REQUIRED TO PROVIDE COMPLETE CONDUIT SYSTEMS AND RUNS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL MATERIALS, INSTALLATION HARDWARE, DRILLING OF WALLS/BEAMS, TRENCHING, MOUNTING HARDWARE, LABOR, PAINTING, REPAIRING OF EXISTING SURFACES, FIRESTOPPING, AND ACCESSORIES. RESTORE DISTURBED CEILING/WALLS TO ITS ORIGINAL CONDITION. FINISH AND PAINT DAMAGED AREAS. PAINT SHALL MATCH EXISTING. REPAIR CABINETS, WALLS, AND SHELVES DAMAGED BY CONTRACTOR OPERATION. PAINT ALL INTERIOR AND EXTERIOR, EXPOSED CONDUITS SAME COLOR AS SURFACE.
2. CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING SPACE, OR UNDERGROUND. SURFACE MOUNTED CONDUIT SHALL ONLY BE PERMITTED ON CONCRETE WALLS OR ON CEILINGS WITH NO CAVITY.
3. ALL EXTERIOR JUNCTION BOXES SHALL BE CAST METAL, GASKETED, AND NEMA-3R. PAINT SAME COLOR AS SURFACE.
4. NEW DEVICES SHALL BE MOUNTED AT HEIGHTS AS SHOWN ON LEGEND AND MOUNTING DETAILS. NOTIFY ENGINEER OF ANY CONFLICTS WITH SPECIFIED MOUNTING HEIGHTS. DRAWINGS SHOW THE APPROXIMATE LOCATION OF DEVICES. EXACT LOCATIONS MAY BE ADJUSTED AT BUILDING SITE BY OWNER'S REPRESENTATIVES. THE OWNER SHALL RESERVE THE RIGHT TO RELOCATE ANY DEVICE TO A DISTANCE NOT EXCEEDING 15' FROM THE LOCATION ON THE DRAWING DURING ROUGH-IN. WORK SHALL BE COMPLETED AT NO ADDITIONAL COST TO OWNER.
5. PROPERLY SEAL ALL NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, BOTH VERTICAL AND HORIZONTAL, IN ACCORDANCE WITH SECTION 705 OF THE FLORIDA BUILDING CODE, WHICH REQUIRES THAT ALL INSTALLATIONS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR FIRE STOP SYSTEMS SHALL BE AS TESTED BY ASTM E 119 & ASTM E 814.
6. NOTIFY ENGINEER OF ANY ITEMS OF NON-COMPLIANCE, WHETHER IT IS THE RESULT OF NEW WORK OR IS AN UNCOVERED EXISTING CONDITION.
7. USE OF PLASTIC ANCHORS IS PROHIBITED. DO NOT USE PLASTIC ANCHORS FOR SECURING PANELS, CONDUITS, OR ANY COMPONENTS.
8. CONTRACTOR SHALL INCLUDE AS PART OF THE BASE BID COST FOR PROVIDING ADDITIONAL WORK AS MAY BE REQUIRED ON THIS PROJECT AND AS ITEMIZED BELOW. WORK SHALL INCLUDE REQUIRED CABLES, CONDUITS, BOXES, FITTINGS, TERMINATIONS, DEVICES, AND NEEDED ACCESSORIES FOR FUNCTIONAL INSTALLATIONS. CONDUIT RUN SHALL BE 100 FEET FOR EACH FIXTURE, DEVICE OR OUTLET.

PROVIDE AND INSTALL AS LISTED BELOW:

- 4 DUPLEX RECEPTACLES.

CONTRACTOR SHALL INCLUDE PART OF BASE BID COST FOR ADDITIONAL ELECTRICAL WORK AS MAY BE NEEDED ON THIS PROJECT AND ITEMIZED BELOW. WORK SHALL INCLUDE FITTINGS, SUPPORT, BOXES, TERMINATIONS AND NEED ACCESSORIES FOR PROPER INSTALLATIONS.

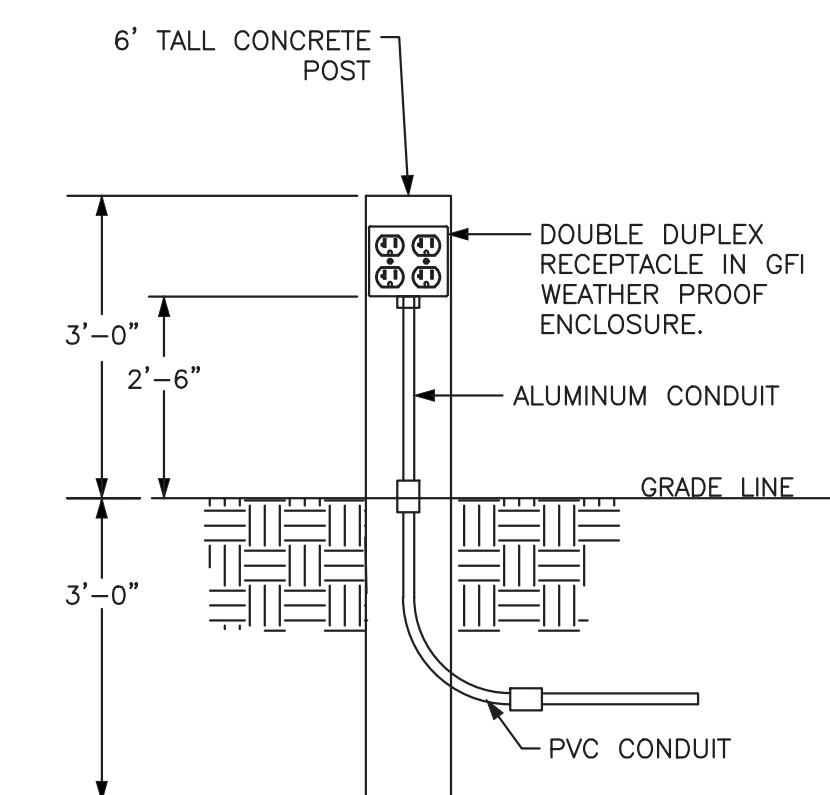
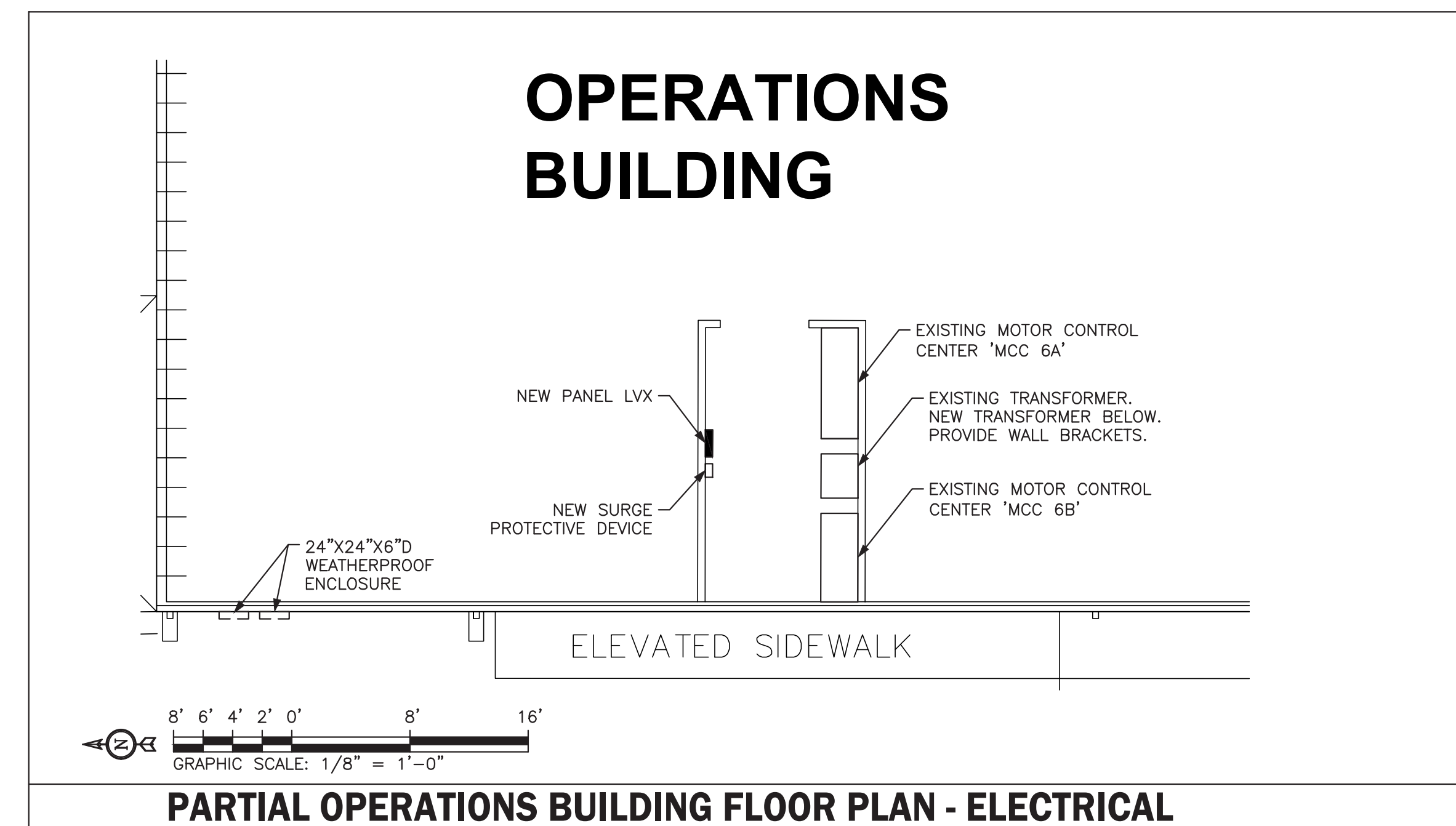
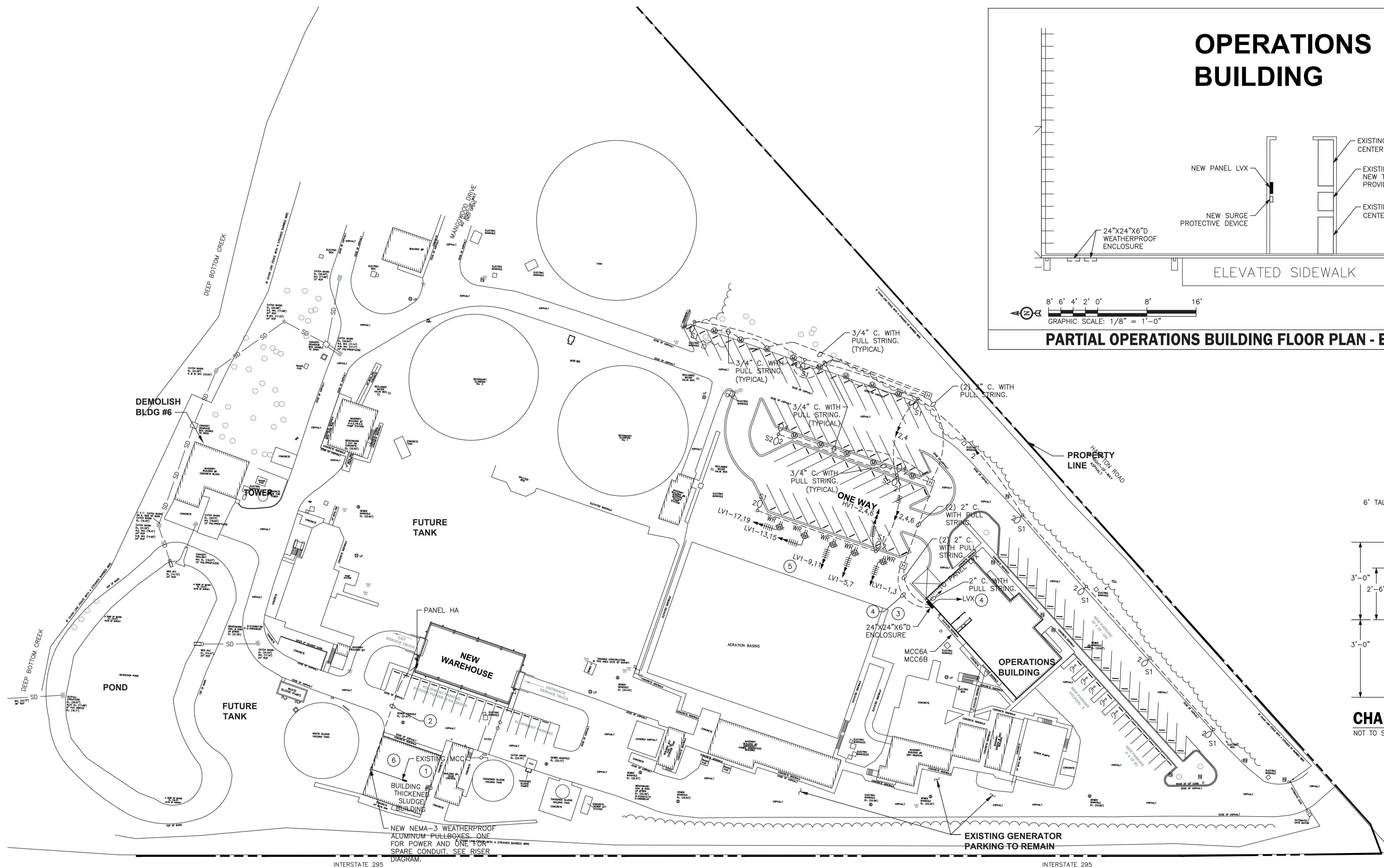
- 200 FEET OF 3/4" EMT CONDUIT
- 600 FEET OF #10 THHN/THWN COPPER WIRE.

	LIGHTING FIXTURE – SURFACE MOUNTED.
	LIGHTING FIXTURE – SURFACE MOUNTED – NIGHT LIGHT.
	EMERGENCY LIGHTING FIXTURE. DO NOT SWITCH.
	COMBINATION OF EMERGENCY/EXIT LIGHT – PROVIDE ARROWS AS INDICATED, SHADING DENOTES FACE OPERATION. DO NOT SWITCH.
	POLE MOUNTED LIGHTING FIXTURE.
\$	TOGGLE SWITCH – SINGLE POLE – QUIET TYPE 20 AMP, 120/277 VOLT, HUBBELL NO. HBL12211 WITH NO. NP11 COVERPLATE – 46" MOUNTING HEIGHT, U.N.O.
\$w	TOGGLE SWITCH – SINGLE POLE, 20 AMP, 120/277V, MOTOR RATED, GROUNDING TYPE, MOUNT AT EQUIPMENT HOUSING.
\$r	TIMER SWITCH – 1/4 TURN FOR 2 HOUR RUN TIME, 20 AMP, 120V, 48" MOUNTING HEIGHT.
\$	VACANCY SENSOR – SWITCH. 120/277 VOLT, ADJUSTABLE DELAY OFF. WATT STOPPER #DW-100-I, IVORY COVERPLATE. 46" MOUNTING HEIGHT, U.N.O.
	DUPLEX RECEPTACLE – 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL NO. HBL53511 WITH NO. NP81 COVERPLATE, 18" MOUNTING HEIGHT, U.N.O.
	DOUBLE GFCI DUPLEX RECEPTABLES – (2) TWO 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL NO. GFR5321TR WITH NO. PB2 COVERPLATE, 36" MOUNTING HEIGHT, U.N.O. EXTERIOR LOCATIONS SHALL BE WEATHER RESISTANT LABELED "WR" PER NEC. PROVIDE WEATHERPROOF WHILE IN USE COVER. TAYMAC #ML500G
	SPECIAL PURPOSE RECEPTACLE COMPLETE WITH COVERPLATE. CONFIGURATION TO MATCH EQUIPMENT PLUG. PROVIDE WEATHERPROOF WHILE IN USE COVER. TAYMAC #ML500G
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GFR53621R WITH NO. NP261 COVERPLATE, 46" MOUNTING HEIGHT, U.N.O.
	WEATHER RESISTANT DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GFR201 WITH COVERPLATE, EXTERIOR LOCATIONS SHALL BE WEATHER RESISTANT LABELED "WR" PER NEC AND MOUNTED AT 18" A.F.F.
J	JUNCTION BOX SIZE PER NEC.
E	EQUIPMENT CONNECTION.
P	PHOTOCELL MOUNT FACING NORTH.
	MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT CONNECTION PER NEC.
	LIGHTING AND/OR POWER PANELBOARD.
---	WIRING IN CONDUIT, RUN CONCEALED IN SLAB OR UNDERGROUND.
---	WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.
	HOMERUN TO PANELBOARD – NUMBER OF ARROWS DENOTES QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF NO. 12 CONDUCTORS. RUNS VOID OF CROSSMARKS ARE 1/2 INCH CONDUIT, 3 NO. 12, U.N.O. DO NOT COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.
WP	DENOTES WEATHERPROOF – MOUNT RECEPTABLES HORIZONTALLY AND PROVIDE WEATHERPROOF WHILE IN USE COVER TAYMAC #ML500G (DUPLEX RECEPTACLE). TAYMAC #ML2500G (DOUBLE DUPLEX RECEPTACLE)
U.N.O.	UNLESS NOTED OTHERWISE.
A.F.F.	ABOVE FINISHED FLOOR.
AC	DENOTES MOUNTED ABOVE COUNTER HEIGHT.
C	DENOTES MOUNTED RECESSED IN CEILING SOFFIT.
GG	GREEN GROUND CONDUCTOR.
E.C.	EMPTY CONDUIT WITH PULL WIRE/CORD.
NL	NIGHT LIGHT, DO NOT SWITCH.
	DISCONNECT SWITCH, "3 60/40" DENOTES 3 POLE, 60 AMP, 40 AMP FUSES.
ST	SHUNT TRIP PUSHBUTTON STATION. PROVIDE 1/2"C. TO SWITCHBOARD 'MDP'.
H	HANDHOLE 24" X 24" X 18" DEEP. QUAZITE#PG2424BA18 WITH HEAVY DUTY COVER #PG2424BAHG17 MOUNT FLUSH WITH GRADE ON TOP OF 6" LAYER OF CRUSHED ROCKS.
M	MARKER HANDHOLE 12" ROUND PVC LABEL CONDUITS "FUTURE CHARGER". MOUNT ON TOP OF 6" CRUSHED ROCK.
CR	CARD READER. 48" MOUNTING HEIGHT.
REX	REQUEST TO EXIT. WALL MOUNT ABOVE DOOR.
PS	POWER SUPPLY. WALL MOUNT AT 8'-0". LOCATE DUPLEX NEXT TO BOX.
DS	MAGNETIC DOOR SWITCH.

LIGHT FIXTURE SCHEDULE NOTES:

1. OCCUPANCY SENSOR SHALL BE SUITABLE FOR HIGH BAY APPLICATIONS.
2. MOUNT FIXTURES TO BOTTOM OF BEAMS.
3. PROVIDE 37' CONCRETE POLE, MEETING JEA STANDARD AND 8' ARM POLE ASSEMBLY SHALL WITH STAND 140 MPH WIND.

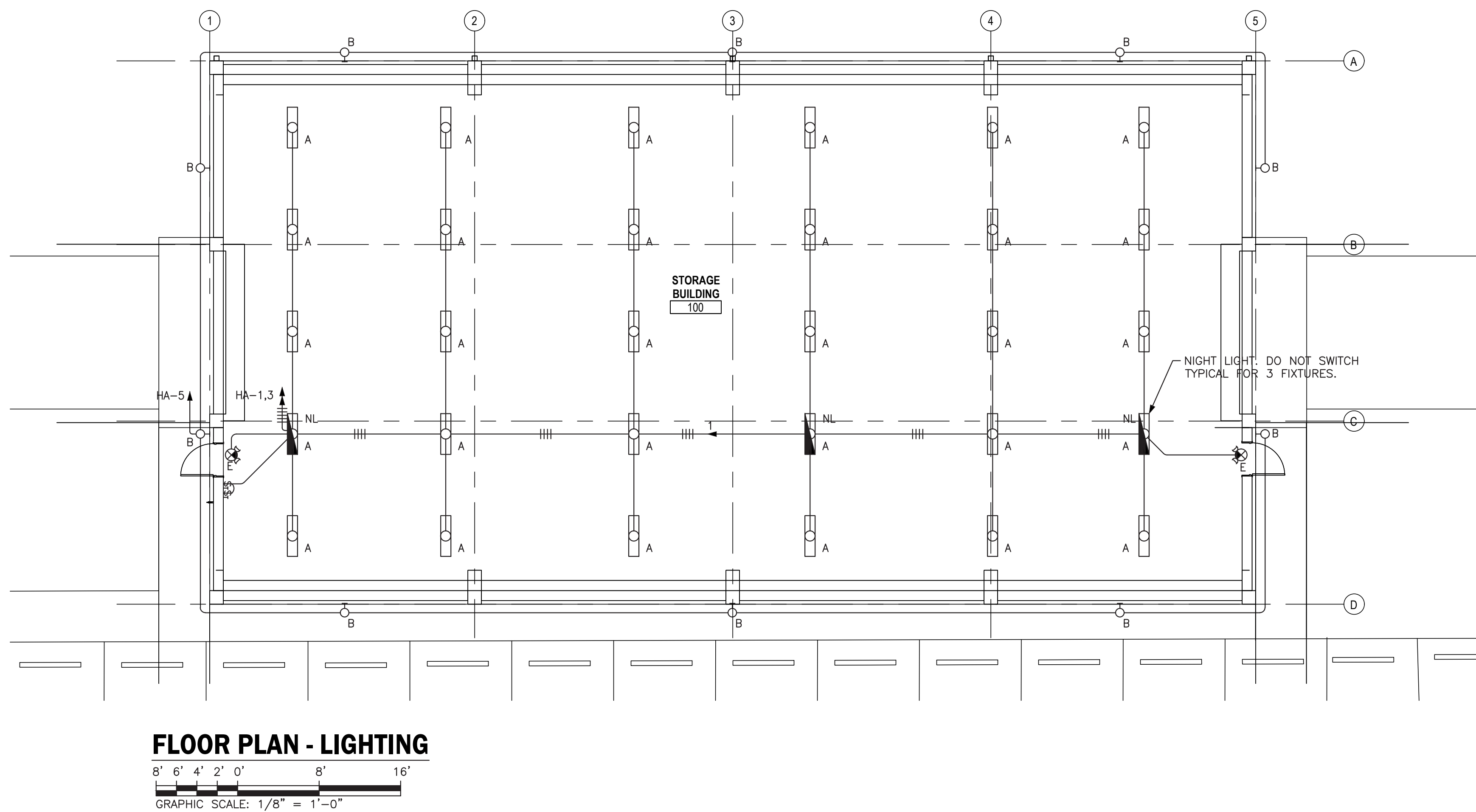
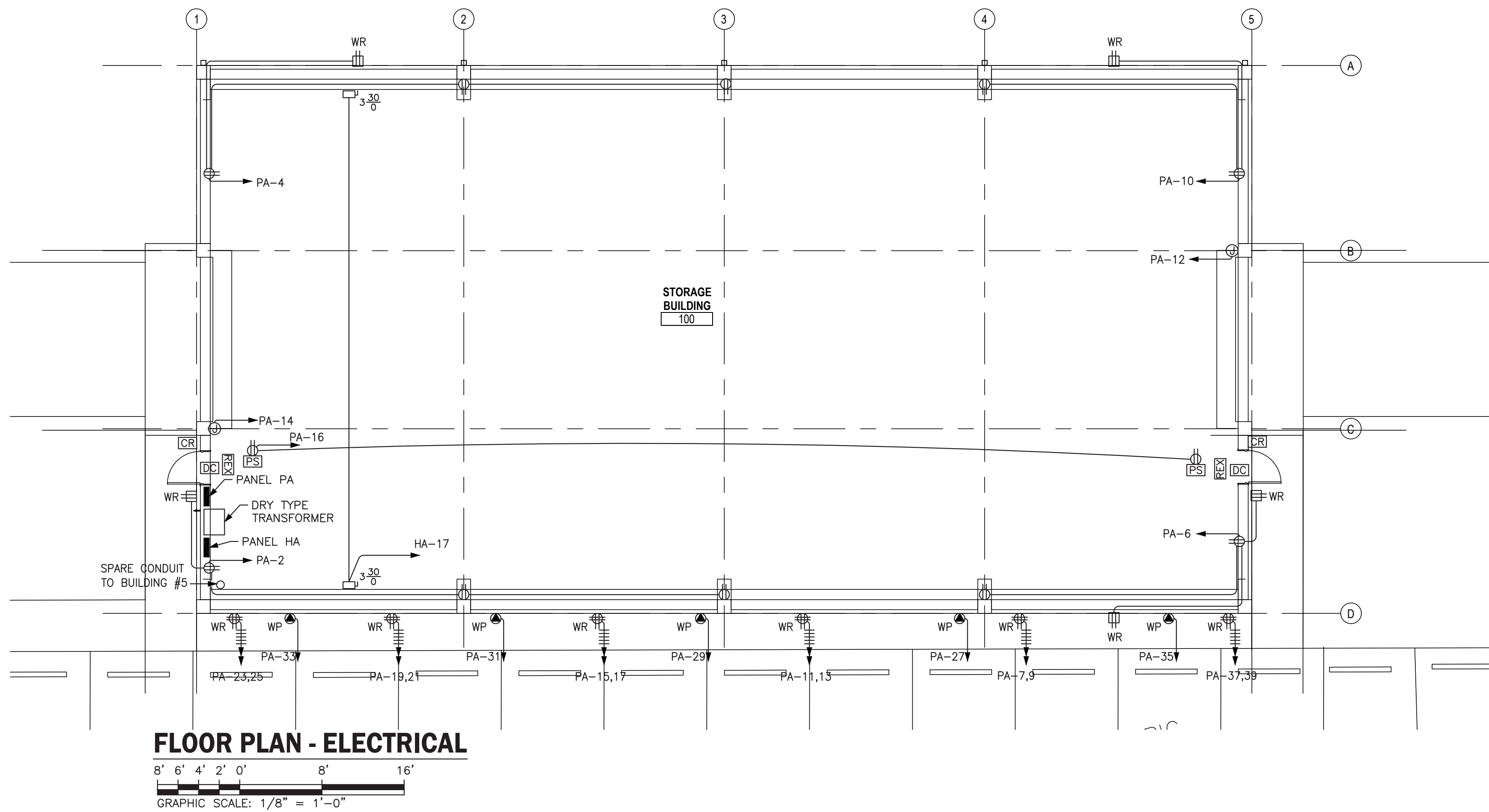
 BHIDE & HALL ARCHITECTS, P.A. <small>1237 ANGLADE AVENUE, SUITE C ORLANDO, FLORIDA 32837 TEL: (407) 244-6379 FAX: (407) 244-6069</small>		HADDAD ENGINEERING, INC.  <small>2955 HARTLEY ROAD, SUITE 205 JACKSONVILLE, FLORIDA 32257 TEL: (904) 766-2600 FAX: (904) 766-2601 CERTIFICATE OF AUTHORIZATION NO. 40-009</small>	
 NEW MANDARIN WRF STORAGE BUILDING AND PARKING <small>10828 HAMPTON ROAD JACKSONVILLE, FL 32257</small>			
ENGINEER NAMIR A. HADDAD		LICENSE NO. 31967	
Seal / Signature			
Date			
Revision			
△			
ELECTRICAL LEGEND, NOTES AND SCHEDULE			
DATE:		11/28/19	
D.B.:		A.W.	
C.B.:		N.A.H.	
JOB NO:		19023	
<div style="font-size: 48px; font-weight: bold; margin: 0;">E1.1</div> <div style="font-weight: bold; margin: 5px 0;">FOR CONSTRUCTION</div>			



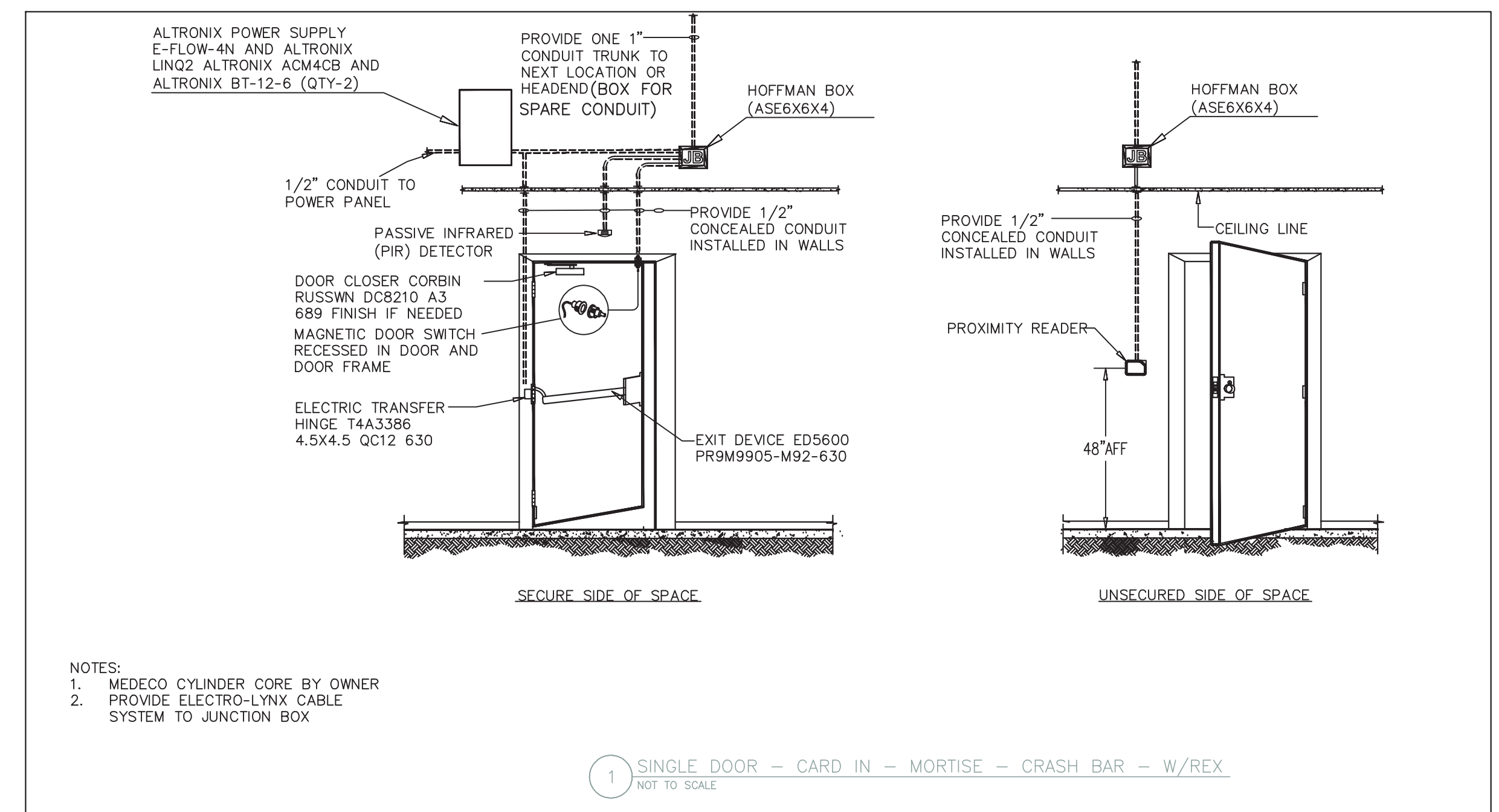
- NOTES:**

- ① EXISTING MOTOR CONTROL CENTER, 800 AMP 480/277 VOLT, SQUARE 'D'. PROVIDE NEW 3 POLE, 100AMP CIRCUIT BREAKER, WITH MOUNTING EQUIPMENT AND HARDWARE. AIC TO MATCH EXISTING EQUIPMENT.
- ② SAWCUT PAVEMENT AND REPAIR TO ITS ORIGINAL CONDITION.
- ③ SEAL CONDUIT PENETRATION AT EXTERIOR SIDE AND INTERIOR SIDE OF WALL. USE WATER PROOF FLEXIBLE MATERIAL.
- ④ 2" CONDUITS WITH #10 WIRES FOR CIRCUITS LV1-1,3,5,7,9,11,13,15,17,19
- ⑤ RUN 3/4" CONDUITS FROM EACH RECEPTACLE. PEDESTAL TO HANDHOLE.
- ⑥ LOCATE SPARE CONDUIT IN ELEC. ROOM. LABEL "NEW WAREHOUSE."





- NOTES:**
1. CONDUITS CONCEALED BELOW GRADE AND IN CONCRETE BLOCK WALL SHALL BE PVC SCHEDULE 40.
 2. EXPOSED CONDUITS FOR INTERIOR SHALL BE ALUMINUM WITH SEALED CONNECTIONS.
 3. SEAL ALL FIXTURES AND OUTLETS CONNECTIONS WITH PUTTY OR APPROVED ALTERNATE TO PREVENT H2S CORROSIONS.
 4. ALL EXTERIOR BOXES SHALL BE WEATHERPROOF ALUMINUM CONSTRUCTION.



SPECIFICATIONS

PART 1 – GENERAL

- 0.1 THE WORK INCLUDES THE PROVIDING OF ALL LABOR, MATERIALS, AND SERVICES NECESSARY TO INSTALL THE INDICATED SYSTEMS, COMPLETE WITH HANGERS, SUPPORTS, EQUIPMENT AND CONNECTIONS REQUIRED TO ANY FUTURE OR EQUIPMENT INDICATED OR SPECIFIED.
- B. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
1. SANITARY WASTE AND VENT PIPING SYSTEMS.
 2. DOMESTIC WATER PIPING SYSTEMS.
- 1.02 ALL WORK
- A. SHALL BE PERFORMED BY MECHANICS SKILLED IN THE PARTICULAR CLASS OF WORK AND ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE WORK SHALL BE COORDINATED WITH OTHER TRADES AND RESPONSIBILITIES ESTABLISHED SO THAT THE WORK SHALL BE COMPLETED WITHOUT DELAYS OR INTERFERENCE WITH SCHEDULES.
- 1.03 CUTTING AND PATCHING
- A. WHERE REQUIRED, THE CONTRACTOR SHALL DO THE CUTTING AND PATCHING USING WORKERS WHO ARE SKILLED IN THE TRADE INVOLVED. THE COMPLETED WORK SHALL PRESENT A FINISHED WORKMANLIKE APPEARANCE.
- 1.04 PIPING AND DRAWINGS
- A. THE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF THE WORK. THE LOCATION OF ALL PIPING SHALL BE COORDINATED TO DETERMINE THAT IT CLEARS ALL OPENINGS AND STRUCTURAL MEMBERS, THAT PIPING INDICATED AS CONCEALED CAN BE PROPERLY CONCEALED IN WALLS OR PARTITIONS OF FINISHED ROOMS, AND THAT IT DOES NOT INTERFERE WITH LIGHTS OR EQUIPMENT HAVING FIXED LOCATIONS. CONCEAL ALL PIPING EXCEPT WHERE OTHERWISE INDICATED.
- 1.05 OPENINGS IN EXISTING CONCRETE CONSTRUCTION
- A. SHALL BE CORE DRILLED OR CUT WITH MASONRY SAW. PNEUMATIC TOOLS WILL NOT BE PERMITTED. THE INTEGRITY OF THE FIRE RATING OF WALLS, CEILINGS, AND FLOORS SHALL BE MAINTAINED AND SHALL MEET LIFE SAFETY AND LOCAL CODES.
- 1.06 EXCAVATION AND BACKFILL
- A. IN ACCORDANCE WITH THE CIVIL REQUIREMENTS.
- 1.07 UNIONS
- A. INSTALL ON ONE SIDE OF EACH VALVE OR CONNECTIONS TO EQUIPMENT.
- 1.08 SHOP DRAWINGS
- A. DIGITAL COPY OF SHOP DRAWINGS OF EACH ITEM LISTED IN THE "EQUIPMENT SCHEDULES" OR ELSEWHERE ON THE DRAWINGS AND IN THE SPECIFICATIONS. (THESE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND APPROVED BY HIM BEFORE THE CONTRACTOR MAY PURCHASE THE EQUIPMENT OR MATERIALS). TWO SETS WILL BE RETAINED BY THE ARCHITECT.
- B. SHOP DRAWINGS SHALL BE SUBMITTED WITH ALL EQUIPMENT ITEMS COMPLETE AT ONE TIME. SHOP DRAWINGS SHALL BE PRESENTED IN BOOK FORM IN A HARDBACKED BINDER WITH HEAVY PAPER DIVIDERS FOR EACH PARAGRAPH OF THE SPECIFICATION DELINEATING AN ITEM OR ITEMS OF EQUIPMENT. DIVIDERS SHALL BE PROVIDED WITH SUBSTANTIAL STAGGERED INDEX TABS, WITH EACH TAB NUMBERED WITH THE SPECIFICATION PARAGRAPH NUMBER FOR THE INCLUDED ITEM(S) OF EQUIPMENT. IN ADDITION, AN INDEX LISTING EACH TAB DIVISION WITH EQUIPMENT COVERED SHALL BE PROVIDED AT THE FRONT OF THE SUBMITTAL BOOK. ITEMS PRESENTED SINGLY FOR APPROVAL WILL NOT BE ACCEPTABLE.
- C. COORDINATE THE LOCATION OF FLOOR DRAINS, PIPING AND OTHER PERTINENT ITEMS WITH THE WORK OF OTHER TRADES. INSTALLATION OF THESE ITEMS SHALL BE MADE AFTER RECEIPT OF AND IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
- 1.09 GUARANTEE
- A. ALL EQUIPMENT, MATERIAL, ACCESSORIES AND INSTALLATION SHALL CARRY A GUARANTEE AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. EACH SYSTEM AS A WHOLE, AND IN ALL ITS PARTS, SHALL BE GUARANTEED TO FUNCTION CORRECTLY UP TO THE SPECIFIED CAPACITY. SHOULD A SYSTEM, OR ANY PART THEREOF, FAILS TO MEET THE PERFORMANCE REQUIREMENTS, NECESSARY REPLACEMENTS, ALTERNATIONS OR REPAIRS SHALL BE MADE TO BRING PERFORMANCE UP TO SPECIFIED REQUIREMENTS. BUILDING CONSTRUCTION FINISHES DAMAGED OR MARRED SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. ALL OF THE ABOVE DESCRIBED SHALL BE DONE WITHOUT COST TO THE OWNER.

PART 2 – PRODUCTS

- 2.01 GENERAL
- A. ALL MATERIALS SHALL BE NEW AND FREE FROM ALL DEFECTS. THESE SPECIFICATIONS LIST ALL OF THE ACCEPTABLE MATERIALS FOR A GIVEN SERVICE, ONE OF WHICH SHALL BE USED UNLESS OTHERWISE SPECIFICALLY NOTED.
- B. THE QUALITY AND WEIGHT OF MATERIALS FURNISHED AND INSTALLED SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), LIFE SAFETY CODE AND THE LOCAL PLUMBING CODE.
- 2.02 PIPE AND FITTINGS
- A. GENERAL: ALL PIPING SHALL BE RUN STRAIGHT, PLUMB AND PROPERLY GRADED IN DIRECTION INDICATED ON THE DRAWINGS. CUT PIPE SHALL BE SQUARELY CUT AND PROPERLY REAMED TO REMOVE ALL FITTINGS AND BURRS BEFORE MAKING UP THE JOINTS. FITTINGS AND NIPPLES SHALL BE OF THE SAME MATERIALS AS THE PIPE.
- B. CPVC SCHEDULE 80 PIPE SHALL BE SUITABLE FOR USE AT MAXIMUM WORKING PRESSURE OF 150 PSI. ALL PIPE MUST MEET THE REQUIREMENTS OF ASTM D-1784, ASTM F-441, AND NSF STANDARD 14. SOCKET TYPE FITTINGS SHALL MEET ASTM F-439. THREADED FITTINGS SHALL MEET ASTM F-437 WITH THREADED BRASS INSERT BY IPT/HARRINGTON OR ACCEPTABLE ALTERNATIVE. SOLVENT WELD MATERIAL SHALL BE SOLVENT CEMENT SCHEDULE 40 PIPE CONFORMING TO ASTM D1785.
- C. PLASTIC PIPE AND FITTINGS: PIPE SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D1785. FITTINGS SHALL BE PVC CONFORMING TO ASTM D2466. SOLVENT CEMENT SHALL CONFORM TO ASTM D2564. CELLULAR CORE PIPING IS NOT ACCEPTABLE.

- 2.03 HOSE BIBBS
- A. GENERAL: VALVE NUMBERS ARE SPECIFIED TO ESTABLISH TYPE AND QUALITY. EQUIVALENT VALVES WILL BE CONSIDERED FOR APPROVAL.
- B. DOMESTIC WATER PIPING:
1. HOSE BIBB: ZURN MODEL Z1341-BFP WITH LOOSE KEY AND ROUGH CHROME FINISH.
- 2.04 PIPE HANGERS
- A. HANGERS SHALL BE OF THE CLEVIS TYPE, MSS SP-58, TYPE 1.
- 2.05 PLUMBING FIXTURES
- A. GENERAL: ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY". ALL FIXTURES AND FITTINGS PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER, ESCUTCHEONS, HANDLES, ETC., ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN. ALL FIXTURES AND FITTINGS PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH CATALOG CUTS AND FULL DESCRIPTION. ALL EXPOSED METAL AND PIPING NOT OTHERWISE SPECIFIED SHALL BE POLISHED CHROMIUM ON BRASS OR BRONZE. ALL COLD WATER SUPPLY TO FIXTURES SHALL BE PROVIDED WITH STOPS OF THE LOOSE KEY TYPE.
- B. SEE DESIGN BASIS FOR FIXTURE SPECIFICATIONS. WHERE FIXTURE TYPES REFER TO THOSE MANUFACTURED BY ACOERN, UNLESS OTHERWISE NOTED, THESE NUMBERS ARE USED TO INDICATE TYPE AND QUALITY OF FIXTURES DESIRED. FIXTURES OF EQUAL QUALITY MANUFACTURED BY AMERICAN STANDARD, CRANE, ELJER OR KOHLER WILL BE CONSIDERED FOR APPROVAL. HANGER SUPPORTS AND CARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 2.06 THERMAL INSULATION
- A. GENERAL: NO INSULATION SHALL BE INSTALLED UNTIL THE PIPING SYSTEMS HAVE BEEN CHECKED AND FOUND FREE OF ALL LEAKS. SURFACES SHALL BE CLEAN AND DRY BEFORE ATTEMPTING TO APPLY INSULATION. INSULATION SHALL BE INSTALLED BY A PROFESSIONAL INSULATION CONTRACTOR WITH ADEQUATE EXPERIENCE AND ABILITY TO PERFORM THE WORK. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS COMPLY WITH THE SPECIFICATIONS.
- B. DOMESTIC WATER PIPING:
1. MATERIAL: SHALL BE INSULATED WITH 1" THICK JOHNS-MANVILLE FLAME SAFE AF-T FIBERGLASS PIPE INSULATION.
2. APPLICATION: PRIOR TO INSTALLING THE INSULATION, THE PRESSURE RELEASE PAPER SHALL BE REMOVED FROM THE JACKET LAPS. PIPE INSULATION SHALL BE SECURED IN PLACE BY APPLYING PRESSURE TO THE PRESSURE INSTALLED CLOSURE SYSTEM. ELBOWS SHALL BE SECURED WITH JOHNS-MANVILLE UNIFORM FITTING COVERS. VALVES AND OTHER IRREGULAR SHAPED FITTINGS SHALL BE INSULATED WITH PIPE INSULATION SEGMENTS AND FINISHED WITH A SKIM COAT OF AIR DRYING JOHNS-MANVILLE 375 CEMENT AND WHITE GLASS FABRIC DIPPED IN FOSTER'S 30-60 COATING OR EQUAL.

PART 3 – EXECUTION

- 3.01 DOMESTIC WATER PIPING
A. ALL PIPE AND FITTINGS SHALL BE TYPE K COPPER.
- 3.02 CLEANING AND PROTECTION OF PIPE
A. BEFORE BEING PLACED IN POSITION, PIPE AND FITTINGS SHALL BE CLEANED CAREFULLY. ALL PIPE SHALL BE MAINTAINED IN A CLEAN CONDITION.
- 3.03 PIPE IN TRENCHES
A. SEWER AND WATER PIPING SHALL BE PLACED IN SEPARATE TRENCHES.
B. WATER PIPING SHALL BE BURIED AT A DEPTH OF SIX INCHES BELOW THE FROST LINE OR A MINIMUM OF 12 INCHES, WHICHEVER IS GREATER.
- 3.04 INSTALLATION OF SCREW-JOINTED PIPING (IF USED)
A. ALL PIPING SHALL BE CUT ACCURATELY TO MEASUREMENTS ESTABLISHED BY THE CONTRACTOR AND SHALL BE WORKED INTO PLACE WITHOUT SPRINGING OR FORCING. PROPER PROVISION SHALL BE MADE FOR THE EXPANSION AND CONTRACTION OF ALL PIPE LINES. PIPE AND FITTINGS SHALL BE FREE FROM RUST AND INJURIES. SCREW JOINTS IN WATER PIPING SHALL BE MADE WITH A LUBRICANT APPLIED ON THE MALE THREADS ONLY. THREADS SHALL BE FULL CUT AND NOT MORE THAN THREE THREADS ON THE PIPE SHALL REMAIN EXPOSED. ALL FERROUS PIPE THREAD, AFTER BEING INSTALLED AND TESTED, SHALL BE GIVEN ONE COAT OF RED LEAD AND OIL PAINT. UNIONS AND UNION TYPE CONNECTIONS AND SHUT-OFF VALVES SHALL BE PROVIDED FOR ALL FIXTURES AND EQUIPMENT READY FOR DISCONNECTION. ON FERROUS PIPE 3 INCHES IN DIAMETER AND SMALLER, UNIONS SHALL BE 150 POUND STEAM-WORKING-PRESSURE MALLEABLE IRON GROUND JOINT TYPE. PIPE HUNG FROM CEILINGS SHALL BE SUPPORTED BY HEAVY, ADJUSTABLE HANGERS CONFORMING TO MSS SP-59. ALL HANGERS AND COLLARS SHALL BE OF SIZES SUITABLE FOR THE WEIGHT OF THE PIPE. ALL CHANGES IN SIZES OF PIPE SHALL BE MADE WITH REDUCING FITTINGS.
- 3.05 WATER SYSTEMS
A. WATER SYSTEMS SHALL BE INSTALLED WITH A FALL TOWARDS THE SHUT-OFF VALVE OR THE LOWEST FIXTURE. DRAINERS FROM COLD WATER LINES SHALL BE PROVIDED TO FIXTURES AND OUTLETS AS INDICATED.

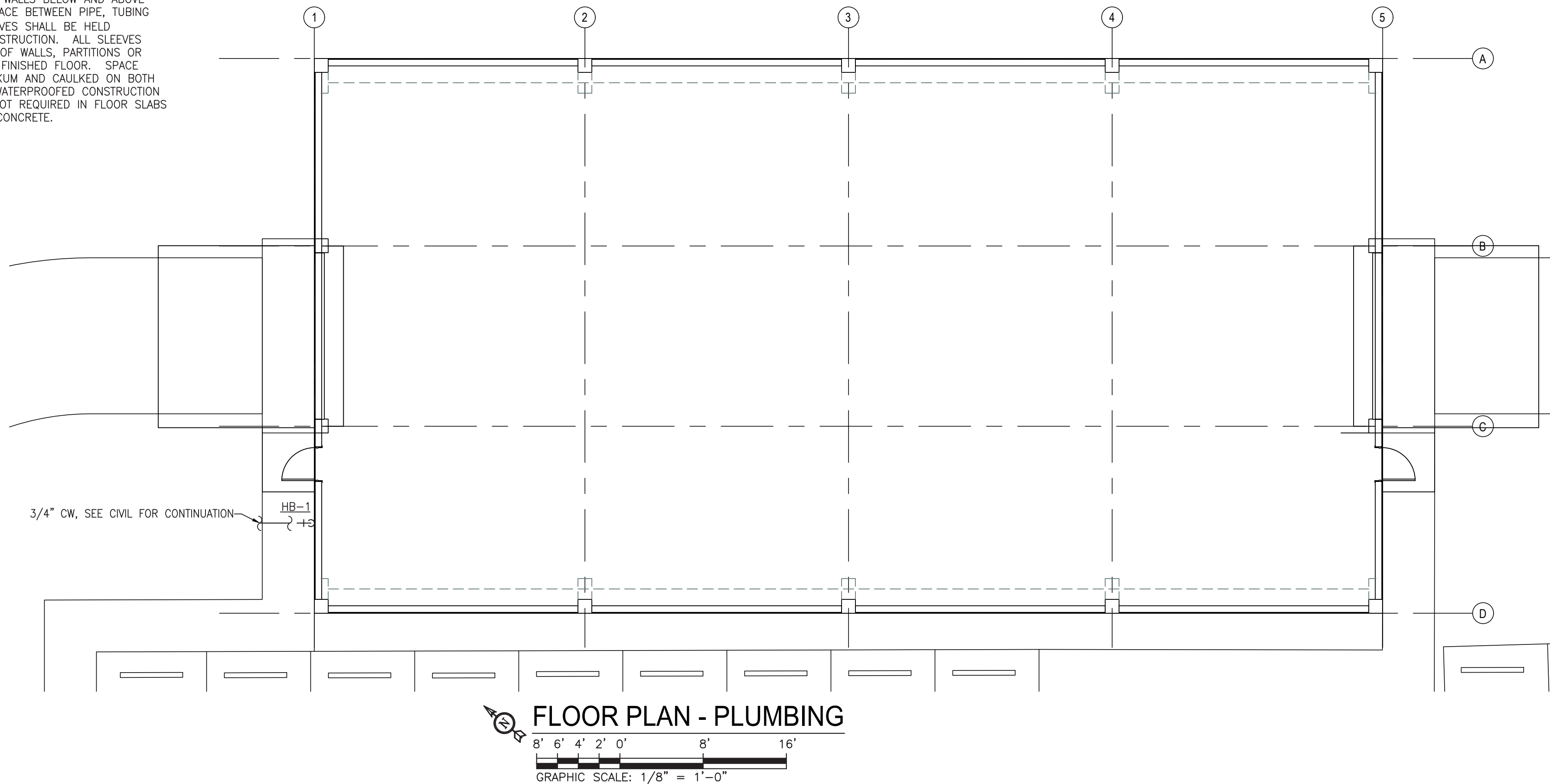
- 3.06 PIPE SLEEVES
- A. PIPE SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH MASONRY OR CONCRETE WALLS. PIPES SHALL BE PROTECTED BY A MINIMUM OF 2" OF CONCRETE OR MASONRY. SLEEVES SHALL BE PLACED DURING CONSTRUCTION OF THE BUILDING AND AT NO TIME SHALL JACK HAMMERS BE USED. SLEEVES IN OUTSIDE WALLS BELOW AND ABOVE GRADE, OR IN PATIOn SLABS, SHALL BE ZINC-COATED SHEET STEEL. SPACE BETWEEN PIPE, TUBING OR INSULATION AND THE SLEEVE SHALL NOT LESS THAN 1/4 INCH. SLEEVES SHALL BE HELD SECURELY IN PROPER POSITION AND LOCATION BEFORE AND DURING CONSTRUCTION. ALL SLEEVES SHALL BE 1/2" OF STEEL OR 1" OF CONCRETE THICK THROUGH PATIOn SLABS, PATIOn OR PATIOn OR SLABS. SLEEVES IN FLOOR SLABS SHALL EXTEND 2 INCHES ABOVE THE FINISHED FLOOR. SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE FIRMLY PACKED WITH OAKUM AND CAULKED ON BOTH ENDS OF THE SLEEVE WITH INSULATING CEMENT. SLEEVES LOCATED IN WATERPROOFED CONSTRUCTION SHALL BE PROVIDED WITH AN IMPERMEABLE RUBBER GASKET. RUBBER GASKETS SHALL BE FIRMLY LOCATED ON GRADE EXCEPT THAT COPPER PIPE SHALL NOT COME INTO CONCRETE.

- 0.7. STERILIZATION
 - A. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED AND CLEAN.
 - B. ENSURE PH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC).
 - C. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.
 - D. BLEED OFF EXCESS DISINFECTANT, ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.
 - E. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.
 - F. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.
 - G. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.
 - H. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA C651.
 - I. A TESTING FIRM COMPANY SPECIALIZING IN TESTING POTABLE WATER SYSTEMS SHALL BE APPROVED BY THE STATE.
 - J. A CERTIFICATE SHALL BE SUBMITTED TO OWNER THAT CLEANLINESS OF WATER DISTRIBUTION SYSTEM MEETS OR EXCEEDS STATE HRS REQUIREMENTS.
- 0.8 ANCHORING, GUIDING AND SUPPORTING OF PIPING
 - A. ALL PIPING SHALL BE ANCHORED AND SUPPORTED IN A MANNER SUCH THAT EXPANSION AND CONTRACTING WILL TAKE PLACE IN THE DIRECTION DESIRED AND VIBRATION AND UNDE STRAINS ON EQUIPMENT WILL BE PREVENTED BY USE OF VIBRATION DAMPENERS. HANGERS USED FOR THE SUPPORT OF PIPING, INCH NOMINAL PIPE SIZE AND LARGER, SHALL BE FABRICATED TO PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD. WALL BRACKETS SHALL BE USED WHERE PIPES ARE ADJACENT TO WALL OR OTHER VERTICAL SURFACES THAT MAY BE USED FOR SUPPORTS. SUPPORTS SHALL BE PROVIDED WITH A TYPE 4 PIPE COVERING PROTECTION SADDLE AT EACH SUPPORT IN ACCORDANCE WITH TABLE 4 OF SP-69. PIPE SUPPORTS SHALL BE SPACED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPES, THE MEDIUM IN THE PIPE, INSULATION, VALVES AND FITTINGS. PIPE SUPPORT SHALL BE SUCH AS TO PREVENT THE FORMING OF POCKETS, THE MAXIMUM HORIZONTAL SPACING FOR METAL PIPING BETWEEN PIPE SUPPORTS SHALL CONFORM TO TABLE 3 OF MSS SP-69, EXCEPT THAT CAST IRON SOIL PIPE SHALL HAVE A MAXIMUM SPACING BETWEEN HANGERS OF 5 FEET. VERTICAL PIPING SHALL BE SUPPORTED BY BOLTED STEEL CLAMPS OR TYPE CONFORMING TO MSS SP-69. PIPE HANGERS SHALL BE ISOLATED FROM UNINSULATED METAL PIPE WITH NEOPRENE PADS SUCH THAT ORGANIC MULL WILL NOT PERMIT OR CAUSE THE PIPE TO VIBRATE WITHIN THE SUPPORT.
- 0.9 INSTRUCTION MANUALS
 - A. FURNISH FOUR COMPLETE COPIES OF INSTRUCTIONS EXPLAINING OPERATION AND MAINTENANCE AND REPLACEMENT PARTS LISTS FOR THE FAUCET TRIM, FLUSH VALVES, AND FIXTURES.

- 3.10 SAFETY CODE
A. ALL PIPING IN ACCORDANCE WITH ANSI A13.1981.

- 3.11 AS-BUILT DRAWINGS
A. PROVIDE A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS AT JOB COMPLETION. UPON REQUEST, THE ARCHITECT WILL PROVIDE THE CONTRACTOR WITH REPRODUCIBLE COPIES OF THE CONTRACT DRAWINGS FOR THE USE IN MAKING THESE "AS-BUILT" DRAWINGS.

- 3.12 FIELD TESTS
A. WATER SUPPLY PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF 100 PSI MINIMUM. PRESSURE SHALL BE MAINTAINED ON THE LINES FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE THE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.



GENERAL NOTES

1. THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF THE WORK. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS, THE DRAWINGS AND LOCAL GOVERNING CODES.
2. CONTRACTORS SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
3. CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING ITEMS PRIOR TO BIDDING AND ADVISE ARCHITECT OF ANY DISCREPANCIES.
4. ITEMS SHOWN AS PROVIDED UNDER ANOTHER DIVISION SHALL BE CONNECTED IN THIS WORK. OBTAIN EXACT ROUGH-IN INFORMATION BEFORE CONSTRUCTION ON ALL ITEMS REQUIRING PLUMBING CONNECTIONS.
5. THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS & HEREIN SPECIFIED. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER IN ACCORDANCE WITH GOOD PRACTICE, MANUFACTURER'S RECOMMENDATIONS AND THE DEPARTMENT OF PUBLIC HEALTH.
6. FURNISH (1) ONE YEAR SERVICE AND GUARANTEE ON ALL LABOR, MATERIALS AND EQUIPMENT.
7. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHINGS, MECHANICAL AND ELECTRICAL, EQUIPMENT, ETC.
8. ALL TESTING & STERILIZATION SHALL COMPLY W/LOCAL GOVERNING CODES & RECOMMENDATION OF THE AMERICAN WATER WORKS ASSOC. ALL PLUMBING TESTS SHALL BE WITNESSED BY THE PLUMBING INSPECTOR, AND A COPY OF THE DISINFECTION REPORT SHALL BE PROVIDED TO THE PLUMBING INSPECTOR.
9. PROVIDE ALL STOPS, ESCUTCHEONS, CONNECTIONS, ETC., AS NECESSARY TO COMPLETE THE INSTALLATION OF EACH FITTING, WHETHER SUCH ITEMS ARE LISTED OR NOT.
10. GENERAL CONTRACTOR SHALL HIRE A SURVEY/LOCATOR COMPANY TO LOCATE/IDENTIFY ALL UNDERGROUND PIPING, ETC.
11. ALL FITTINGS SHALL BE INSTALLED BY NO LESS THAN A JOURNEYMAN LEVEL PLUMBER.

BASIS OF DESIGN

- HB-1 HOSE BIB BY ZURN MODEL Z1341-BFP WITH LOOSE KEY AND ROUGH CHROME FINISH.

PLUMBING LEGEND

— — — COLD WATER (CW)

 <p>NEW MANDARIN WRF STORAGE BUILDING AND PARKING</p> <p>10828 HAMPTON ROAD JACKSONVILLE, FL 32257</p>		 <p>BHIDE & HALL ARCHITECTS, P.A. 1320 KINGSLEY AVENUE, SUITE C ORANGE PARK, FL 32067 TEL: (904) 264-9399 LIC. NO. A-AC008609</p>	
 <p>HADDAD ENGINEERING, INC. 2955 HARTLEY ROAD, SUITE 205 JACKSONVILLE, FL 32257 TEL: (904) 264-2666 LIC. NO. 13000 CERTIFICATE OF AUTHORIZATION NO. 49090</p>			
<p>ENGINEER</p> <p>JORDAN BERLIN</p>		<p>LICENSE NO.</p> <p>84199</p>	
<p>Seal / Signature</p>			
<p>Date</p>			
<p>Revision</p>			
<p>△</p>			
<p>STORAGE BUILDING FLOOR PLAN - PLUMBING</p>			
<p>DATE:</p>		<p>10/28/2019</p>	
<p>D.B.:</p>		<p>J.B.</p>	
<p>C.B.:</p>		<p>J.B.</p>	
<p>JOB NO:</p>		<p>19023</p>	
<p>P1.0</p> <p>FOR CONSTRUCTION</p>			