

TOWN OF VALDESE - DRAUGHN AQUATIC CENTER STRUCTURE

PROJ:24-858
 Valdese Parks & Recreation Department
 Massel Ave SE
 Valdese, NC 28690

SHEET INDEX - GENERAL				
NUMBER	NAME	ORIG ISSUE	REV#	DATE
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G1.2	CODE COMPLIANCE PLAN- LEVEL 01	2024.09.23		
Grand total: 3				

SHEET INDEX - CIVIL				
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CSN101	CIVIL SITE PLAN	2024.09.23		
CUN101	UTILITY PLAN	2024.09.23		
CUN501	UTILITY DETAILS	2024.09.23		
Grand total: 4				

SHEET INDEX - ARCHITECTURAL				
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S7.1	TYPICAL FOUNDATION DETAILS AND SCHEDULES	2024.09.23		
S7.2	TYPICAL REINFORCING AND STEEL DETAILS	2024.09.23		
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Grand total: 2				

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E3.03	ELECTRICAL RISER DIAGRAM, DETAILS, AND PANEL SCHEDULES	2024.09.23		
E4.01	ELECTRICAL SPECIFICATIONS	2024.09.23		
Grand total: 6				

CURRENT ISSUE: 2024-09-23 Construction Documents

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 GRAVES**



SHEET: **G0.0**

NAME OF PROJECT: **TOWN OF VALDESE - DRAUGHN AQUATIC CENTER STRUCTURE**
 ADDRESS: **213 MASSEL AVE SE, VALDESE NC** ZIP CODE: **28690**
 OWNER/AUTHORIZED AGENT: **DAVID ANDERSEN** PHONE #: **(828) 874-6733**
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 OWNED BY: CITY / COUNTY PRIVATE STATE
 CODE ENFORCEMENT CITY COUNTY **BURKE** STATE
 JURISDICTION:

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 PLUMBING - - - - -
 MECHANICAL **SKA** **STEPHEN MOOREFIELD** **32552** **(336) 855-0993**
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 SPRINKLER- **SKA** **STEPHEN MOOREFIELD** **32552** **(336) 855-0993**
 STANDPIPE EMAIL: **sdmoorefield@skaeng.com**
 STRUCTURAL **SKA** **AARON BOPP** **029394** **(336) 855-0993**
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 RETAINING WALLS >5' HIGH - - - - -
 OTHER - - - - -

2018 NC BUILDING CODE:
 NEW BUILDING ADDITION RENOVATION 1ST TIME INTERIOR COMPLETION
 SHELL/CORE
 CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION - SHELL/CORE
 CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14
 ALTERATION: LEVEL I LEVEL II LEVEL III
 HISTORIC PROPERTY CHANGE OF USE
 CONSTRUCTED (DATE): **1938** CURRENT OCCUPANCY(S) (CH. 3): **A3**
 RENOVATED (DATE): - PROPOSED OCCUPANCY(S) (CH. 3): **A3/A4**
 RISK CATEGORY (TABLE 1604.5) CURRENT: I II III IV
 PROPOSED: I II III IV

BASIC BUILDING DATA
 CONSTRUCTION TYPE: I-A II-A III-A IV V-A
 (CHECK ALL THAT APPLY) I-B II-B III-B V-B
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
 STAND PIPES: NO YES CLASS I II III WET DRY
 FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES
 (CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS)

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
4TH FLOOR	-	-	-
3RD FLOOR	-	-	-
2ND FLOOR	13,579	-	13,579
MEZZANINE	-	-	-
1ST FLOOR	13,580	13,880	27,460
BASEMENT	-	-	-
TOTAL	27,159 SF*	13,880 SF	41,039 SF

*SF OF EXISTING BUILDING PROVIDED THROUGH GIS INFORMATION. NO EXISTING PLANS PROVIDED.

ALLOWABLE AREA
PRIMARY OCCUPANCY CLASSIFICATION(S):
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY: F-1 MODERATE F-2 LOW
 HAZARDOUS: H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL: I-1 CONDITION 1 2 I-2 CONDITION 1 2
 I-3 CONDITION 1 2 3 4 5 I-4
 MERCANTILE
 RESIDENTIAL: R-1 R-2 R-3 R-4
 STORAGE: S-1 MODERATE S-2 LOW HIGH-PILED
 PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE
 UTILITY & MISCELLANEOUS:
ACCESSORY OCCUPANCY CLASSIFICATION(S):

INCIDENTAL USES (TABLE 509):
 FURNACE ROOM WHERE ANY PIECE OF EQUIP. IS OVER 400,000 BTU PER HOUR INPUT
 ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
 REFRIGERANT MACHINE ROOM
 HYDROGEN FUEL GAS ROOMS, NOT CLASSIFIED AS GROUP H
 INCINERATOR ROOMS
 PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
 IN GROUP E OCCUPANCIES, LABORATORIES AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H
 IN GROUP I-2 OCCUPANCIES, LABORATORIES NOT CLASSIFIED AS GROUP H
 IN AMBULATORY CARE FACILITIES, LABORATORIES NOT CLASSIFIED AS GROUP H
 LAUNDRY ROOMS OVER 100 SQUARE FEET
 IN GROUP I-2, LAUNDRY ROOMS OVER 100 SQUARE FEET
 IN GROUP I-2, LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
 IN GROUP I-2, COMMERCIAL KITCHENS
 IN GROUP I-2, ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT
 GROUP I-3 CELLS AND GROUP I-2 PATIENT ROOMS EQUIPPED WITH PADDED SURFACES
 IN GROUP I-2, PHYSICAL PLANT MAINTENANCE SHOPS
 IN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS WITH CONTAINERS THAT HAVE AGGREGATE VOLUME OF 10 CUBIC FEET OR GREATER
 IN OTHER THAN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET
 IN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, STORAGE ROOMS GREATER THAN 100 SQUARE FEET
 STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS FOR FLOODED LEAD-ACID, NICKEL CADMIUM OR VRLA, OR MORE THAN 1,000 POUNDS FOR LITHIUM-ION AND LITHIUM METAL POLYMER USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTABLE POWER SUPPLIES
 FUEL STORAGE ROOMS IN PUBLIC SCHOOLS AND BOILER ROOMS IN PUBLIC SCHOOLS
 STORAGE ROOMS UNDERNEATH GRANDSTANDS OR BLEACHER SEATS CONTAINING COMBUSTIBLE OR FLAMMABLE MATERIALS

FOR ALL COMMERCIAL PROJECTS

SPECIAL USES (CHAPTER 4): 402 403 404 405 406 407 408 409
 410 411 412 413 414 415 416 417 418 419 420 421
 422 423 424 425 426 427 428 429 430
SPECIAL PROVISIONS: 510.2 510.3 510.4 510.5 510.6 510.7 510.8 509.9
MIXED OCCUPANCY: NO YES SEPARATION: **2 HR** HR. EXCEPTION: -
 NON-SEPARATED USE (508.3)
 THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

SEPARATED USE (508.4)
 SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B
 ALLOWABLE AREA OF OCCUPANCY A + ALLOWABLE AREA OF OCCUPANCY B ≤ 1
 $\frac{13,580 (2A \text{ NS EXISTING})}{25,000 (PER 1936 \text{ CODE FOR CLASS A})} + \frac{13,880 (2B \text{ NEW})}{38,000} + \dots = 0.905 \leq 1.00$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{1,3}
1	A4 - POOL	-	-	N/A	N/A
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

1. FRONTAGE AREA INCREASES FROM SECTION 507 ARE COMPUTED THIS:
 A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (F)
 B. TOTAL BUILDING PERIMETER = (P)
 C. RATIO (F/P) = (F/P)
 D. W = MINIMUM WIDTH OF PUBLIC WAY = (W)
 E. PERCENT OF FRONTAGE INCREASE $I_f = 100 (F/P - 0.25) X W/30$
 2. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
 3. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X D (MAX 3 STORIES) (506.2).
 4. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.
 5. FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

ALLOWABLE HEIGHT
 ALLOWABLE HEIGHT ON PLANS (CODE REFERENCE)

BUILDING HEIGHT IN FEET (TABLE 504.3) ¹	75'	39'	-
BUILDING HEIGHT IN STORIES (TABLE 504.4) ²	3	1	-

¹ PROVIDE CODE REFERENCE IF THE "SHOW ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
² THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
³ THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (WITH * REDUCTION)				
STRUCTURAL FRAME, INCLUDING COLS, GIRDDERS, TRUSSES	-	0	-	-	-	-	-
BEARING WALLS	-	0	-	-	-	-	-
EXTERIOR	-	0	-	-	-	-	-
NORTH	-	-	-	-	-	-	-
EAST	-	-	-	-	-	-	-
WEST	-	-	-	-	-	-	-
SOUTH	-	-	-	-	-	-	-
INTERIOR	-	-	-	-	-	-	-
NONBEARING WALLS & PARTITIONS	-	-	-	-	-	-	-
EXTERIOR WALLS	-	0	-	-	-	-	-
NORTH	-	0	-	-	-	-	-
EAST	-	0	-	-	-	-	-
WEST	-	0	-	-	-	-	-
SOUTH	-	0	-	-	-	-	-
INTERIOR WALLS	-	-	-	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORT BEAMS & JOISTS	-	0	-	-	-	-	-
FLOOR CEILING ASSEMBLY	-	0	-	-	-	-	-
COLUMNS SUPPORTING FLOORS	-	0	-	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORT BEAMS & JOISTS	-	0	-	-	-	-	-
ROOF CEILING ASSEMBLY	-	0	-	-	-	-	-
COLUMNS SUPPORTING ROOF	-	-	-	-	-	-	-
SHAFT ENCLOSURES - EXIT	-	-	-	-	-	-	-
SHAFT ENCLOSURES - OTHER	-	-	-	-	-	-	-
CORRIDOR SEPARATION	-	-	-	-	-	-	-
OCCUPANCY / FIRE BARRIER SEP.	-	-	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	-	2HR	-	G1.2	#	-	-
SMOKE BARRIER SEPARATION	-	-	-	-	-	-	-
SMOKE PARTITION	-	-	-	-	-	-	-
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION	-	-	-	-	-	-	-
INCIDENTAL USE SEPARATION	-	-	-	-	-	-	-

* INDICATE SECTION NUMBER PERMITTING REDUCTION
 # INHERENTLY RATED PER NCBC TABLE 721.1(1)

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROTECTIVE LINES	DEGREE OF OPENINGS REDUCTION (TABLE 705.8)	ALLOWABLE AREA (A)	ACTUAL ALLOWED ON PLANS (B)
-	-	-	-
-	-	-	-
-	-	-	-

NO CHANGE TO EXISTING - SEE G1.2

LIFE SAFETY SYSTEM REQUIREMENTS:
 EMERGENCY LIGHTING: NO YES
 EXIT SIGNS: NO YES
 FIRE ALARMS: NO YES
 SMOKE DETECTION SYSTEMS: NO YES PARTIAL
 CARBON MONOXIDE DETECTION: NO YES

LIFE SAFETY PLAN REQUIREMENTS:

- LIFE SAFETY PLAN SHEET #: **G2.1**
 FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
 ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON SITE PLAN)
 EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
 OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
 OCCUPANT LOADS FOR EACH AREA
 EXIT ACCESS TRAVEL DISTANCES (1017)
 COMMON PATH OF TRAVEL DISTANCES (1004.2.1 & 1006.3.2(1))
 DEAD END LENGTHS (1020.4)
 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
 MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
 ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
 A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
 LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
 LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7)
 LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9)
 LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
 LOCATION OF EMERGENCY ESCAPE WINDOWS (1030)
 THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
 THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5)
 NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS
 (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-	-	-

ACCESSIBLE PARKING
 (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQ'D	TOTAL # OF ACCESSIBLE SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED		TOTAL # OF ACCESSIBLE PROVIDED
			132' ACCESS VAN SPACES WITH 8' ACCESS AISLE	8' ACCESS AISLE	
-	-	-	-	-	-
TOTAL	-	-	-	-	-

NO CHANGE TO EXISTING FACILITY'S OCCUPANCY COUNT

PLUMBING FIXTURE REQUIREMENTS
 (TABLE 2902.1)

SPACE	USE	LAVATORIES		SHOWERS	DRINKING FOUNTAINS
		MALE	FEMALE		
EXIST'G	MALE	-	-	-	-
	FEMALE	-	-	-	-
NEW	MALE	-	-	-	-
	FEMALE	-	-	-	-
REQ'D	MALE	-	-	-	-
REQ'D	FEMALE	-	-	-	-

NO CHANGE TO EXISTING FACILITY'S OCCUPANCY COUNT

SPECIAL APPROVALS:
 SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHS, ETC., DESCRIBE BELOW)
 -

STRUCTURAL DESIGN:
 (PROVIDE ON STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
 IMPORTANCE FACTORS:
 SNOW (I_s) **1.1**
 SEISMIC (I_s) **1.0**
 LIVE LOADS:
 ROOF **20** PSF
 MEZZANINE **N/A** PSF
 FLOOR **100** PSF
 GROUND SNOW LOAD: **15** PSF
 WIND LOAD: ULTIMATE WIND SPEED **120** MPH (ASCE-7)
 EXPOSURE CATEGORY **B**

SEISMIC DESIGN CATEGORY A B C D
 PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
 RISK CATEGORY (TABLE 1604.5) I II III IV
 SPECTRAL RESPONSE ACCELERATION S_s **0.235** %g S_1 **0.097** %g
 SITE CLASSIFICATION (ASCE 7) A B C D E F
 DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA
 BASIC STRUCTURAL SYSTEM (CHECK ONE)
 BEARING WALL DUAL W/ SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM
 ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITIES:
 FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ PSF
 PRESUMPTIVE BEARING CAPACITY **1500** PSF
 PILE SIZE, TYPE, AND CAPACITY **N/A**

ENERGY SUMMARY

ENERGY REQUIREMENTS
 THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (REMAINDER OF SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: YES NO PROVIDE CODE OR STATUTORY REFERENCE:
BUILDING ENVELOPE WALLS ARE UNENCLOSED FOR 8 MONTHS PER NCBC 3103
 CLIMATE ZONE: 3A 4A 5A
 METHOD OF COMPLIANCE: ENERGY CODE: PRESCRIPTIVE PERFORMANCE
 ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE
 (IF "OTHER" SPECIFY SOURCE HERE) _____

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

DUPLICATE SECTIONS BELOW FOR EACH ADDITIONAL ASSEMBLY REQUIRED
ROOF/CEILING ASSEMBLY: (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY _____
 R-VALUE OF INSULATION _____
 SKYLIGHTS IN EACH ASSEMBLY _____
 U-VALUE OF SKYLIGHT _____
 TOTAL SQ. FT. OF SKYLIGHTS _____
EXTERIOR WALLS (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY _____
 R-VALUE OF INSULATION _____
 OPENINGS (WINDOWS OR DOORS W/ GLAZING) _____
 U-VALUE OF ASSEMBLY _____
 SOLAR HEAT GAIN COEFFICIENT _____
 PROJECTION FACTOR _____
 DOOR R-VALUES _____
WALLS BELOW GRADE: (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY _____
 R-VALUE OF INSULATION _____
FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY _____
 R-VALUE OF INSULATION _____
FLOORS SLAB ON GRADE
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY _____
 R-VALUE OF INSULATION _____
 HORIZ./VERT. REQUIREMENT _____
 SLAB HEATED _____

MECHANICAL DESIGN
 (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT:

THERMAL ZONE:
 WINTER DRY BULB **17** °F
 SUMMER DRY BULB **93** °F

INTERIOR DESIGN CONDITIONS:
 WINTER DRY BULB **68** °F
 SUMMER DRY BULB **N/A** °F
 RELATIVE HUMIDITY **N/A** %

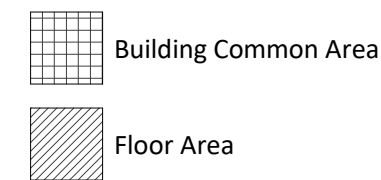
BUILDING HEATING LOAD: **N/A** BTUH

BUILDING COOLING LOAD: **N/A** BTUH

MECHANICAL SPACE CONDITIONING SYSTEM:
 UNITARY:
 DESCRIPTION OF UNIT: **Make Up Air Unit, Gas Fired**
 HEATING EFFICIENCY: **80** %
 COOLING EFFICIENCY: **N/A**
 SIZE CATEGORY OF UNIT: **>225 MBH**
 BOILER
 SIZE CATEGORY, IF OVERSIZED STATE REASON:

THE LINE SHOWN ABOVE IS AT THE STREET FRONTAGE. SEE SHEET G1.1 FOR THE BUILDING COMMON AREA.

OCCUPANCY TYPES



EGRESS PATHS- LEVEL 01		
PATH	DISTANCE	Comments
E1	106'-4"	COMMON PATH OF TRAVEL = 10'-0" TOTAL TRAVEL DISTANCE = 116'-4"
E2	113'-0"	COMMON PATH OF TRAVEL = 10'-0" TOTAL TRAVEL DISTANCE = 123'-0"
E3	80'-6"	COMMON PATH OF TRAVEL = 76'-10" TOTAL TRAVEL DISTANCE = 157'-4"
E4	24'-10"	COMMON PATH OF TRAVEL = 76'-10" TOTAL TRAVEL DISTANCE = 101'-8"

EXITING REQUIREMENTS- LEVEL 01				
TOTAL AREA	OCCUPANTS	EXIT WIDTHS REQUIRED	HORIZ EXITS	STAIRS
13879.93 SF	608	0.00"	0.00"	

EXITING PROVIDED		
MARK	OCCUPANTS	CURRENT REV
100A	126	
	126	

LIFE SAFETY-OCCUPANCY- LEVEL 01					
NUMBER	NAME	AREA	AREA PER OCCUPANT	OCCUPANTS	CURRENT REV
136 OCC	POOL	6799.95 SF	50.00 SF	136	
472 OCC	DECK	7079.98 SF	15.00 SF	472	
		13879.93 SF		608	

CODE COMPLIANCE PLAN NOTES	
NUM.	NOTE

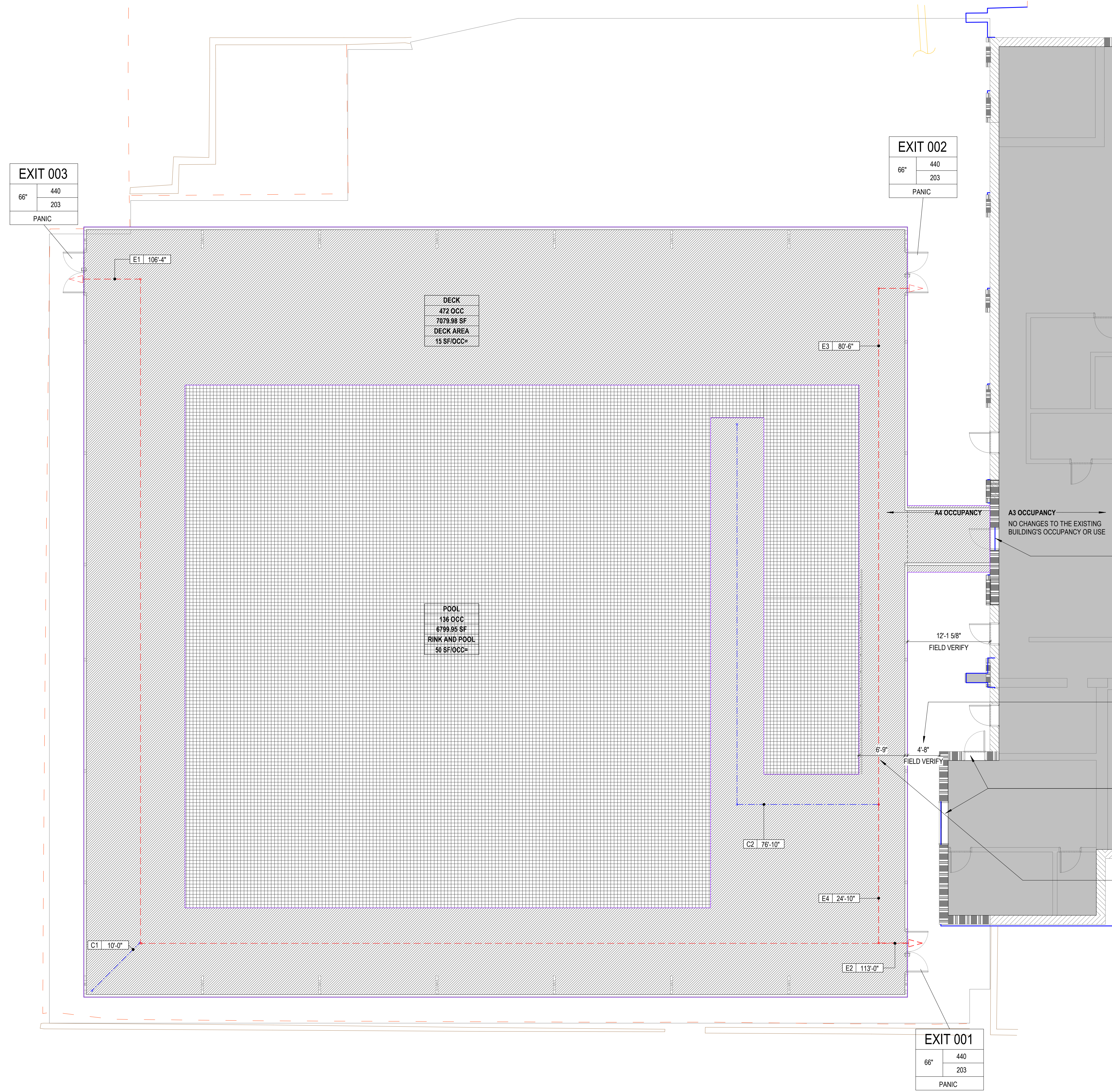


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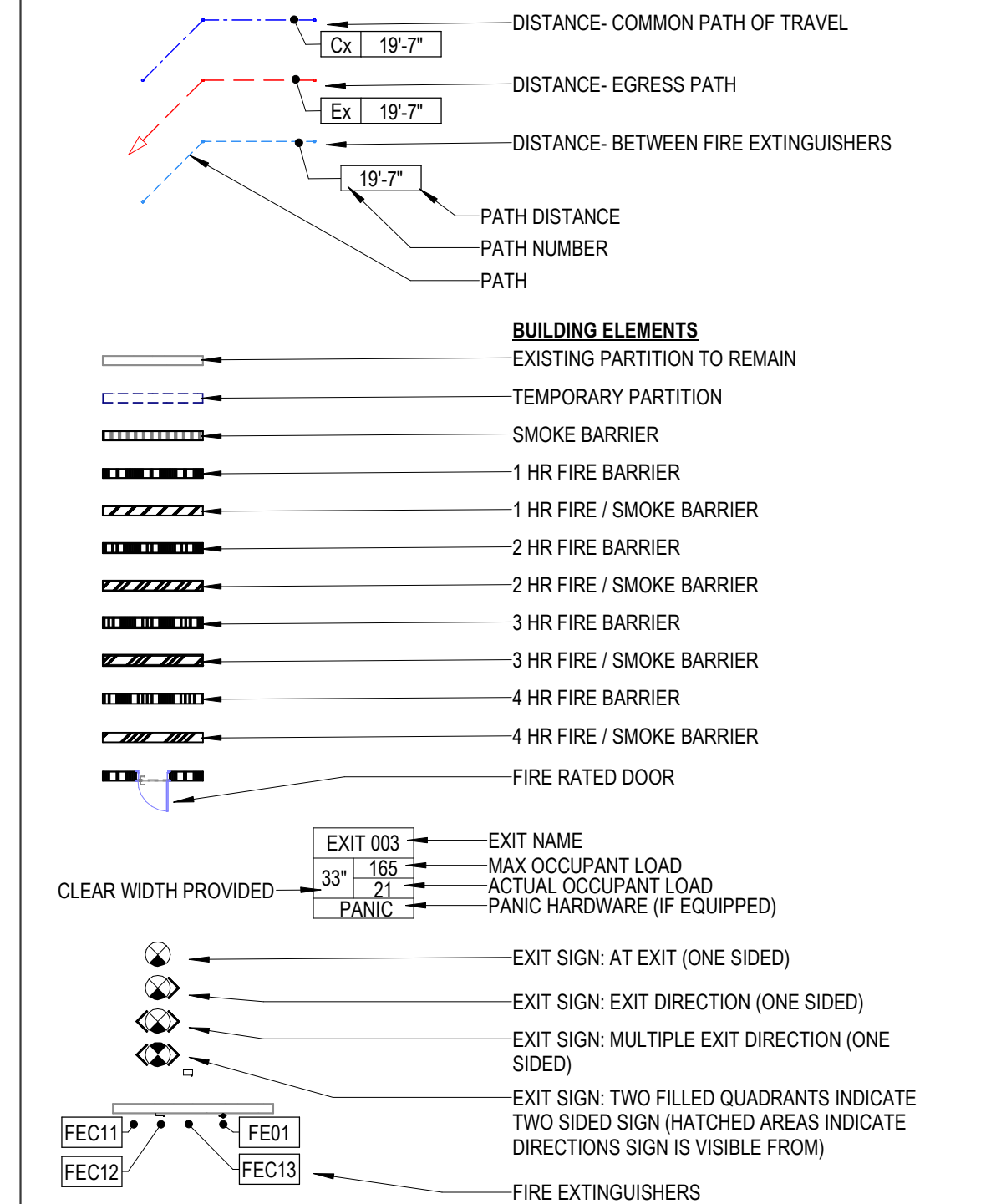
9-23-24



GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE CLEAR FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL OR OPENING.
- THE CONSTRUCTION MANAGER SHALL VERIFY ALL CONDITIONS, ANY VARIATIONS IN SIZES, FLOOR LEVELS, OR ANY OTHER EXISTING WHICH MAY BE REPORTED TO THE ARCHITECT BEFORE THE BEGINNING OF CONSTRUCTION.
- ALL DIMENSIONS AND LAYOUTS SHALL BE FIELD COORDINATED BY THE CONSTRUCTION MANAGER WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. ALL SHOP DRAWINGS AND EXISTING CONDITIONS, ANY INCONSISTENCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL RESOLVE AT NO COST TO THE OWNER AND TO THE SATISFACTION OF THE ARCHITECT, ANY AND ALL CONFLICTS BETWEEN THE WORK OF THE VARIOUS TRADES ARISING FROM ERRORS IN COORDINATION BETWEEN TRADES.
- IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS OR PRODUCTS, PROCEDURES, ETC., THE MORE STRINGENT DETAIL AND HIGHER QUALITY SHALL BE CONSIDERED THE INTENT OF THE CONTRACT DOCUMENTS. ARCHITECTS CONFIRMATION IS REQUIRED.
- ALL TYPICAL DOOR FRAMES ARE TO BE PLACED 4" MIN. (HINGE SIDE) FROM ANY INTERSECTION PARTITIONS, UNO.
- NO AS BUILT DRAWINGS WERE AVAILABLE FOR THE DEVELOPMENT CONSTRUCTION OF THE EXISTING BUILDING. ALL DRAWINGS REPRESENTING THE EXISTING BUILDING AND RELATED DETAILS ARE BASED ON ASSUMED CONDITIONS. ALL DIMENSIONS AND DETAILS NEED TO BE FIELD VERIFIED DURING THE MANDATORY SITE VISIT (WHERE THE OWNER WILL PROVIDE A MEANS TO SEE THE EXISTING ROOF CONDITIONS).

LEGEND- CODE COMP PLANS



**TOWN OF VALDESE -
DRAUGHN AQUATIC CENTER
STRUCTURE**
Valdeese Parks & Recreation
Department
Massel Ave SE
Valdeese, NC 28690
PROJECT: 24-858

DATE	DESCRIPTION

SHEET NAME:
CODE COMPLIANCE PLAN-
LEVEL 01

ORIG SUBMISSION: 2024.09.23
CURRENT:

SHEET:
G1.2

THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE OTHER SHEETS OF THIS PROJECT.

E

D

C

B

A

1

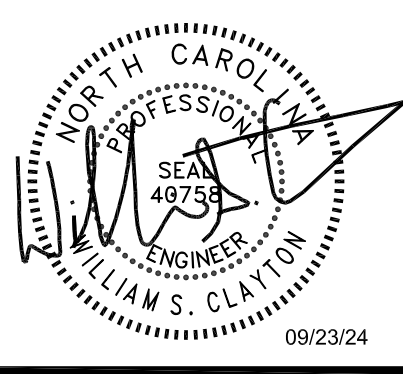
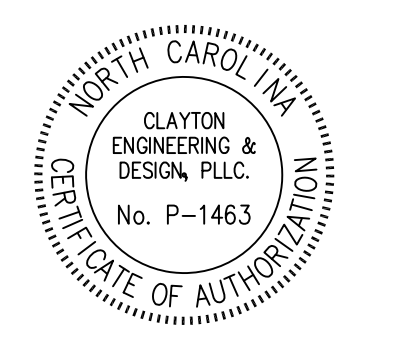
2

3

4

5

6



TOWN OF VALDESE - DRAUGHN AQUATIC CENTER STRUCTURE

Table with columns: DATE, DESCRIPTION

SHEET NAME: SITE PLAN
ORIG SUBMISSION: 2024.09.23
CURRENT:
SHEET: CSN101

ARNUAD AVENUE SE

MASSEL AVENUE SE

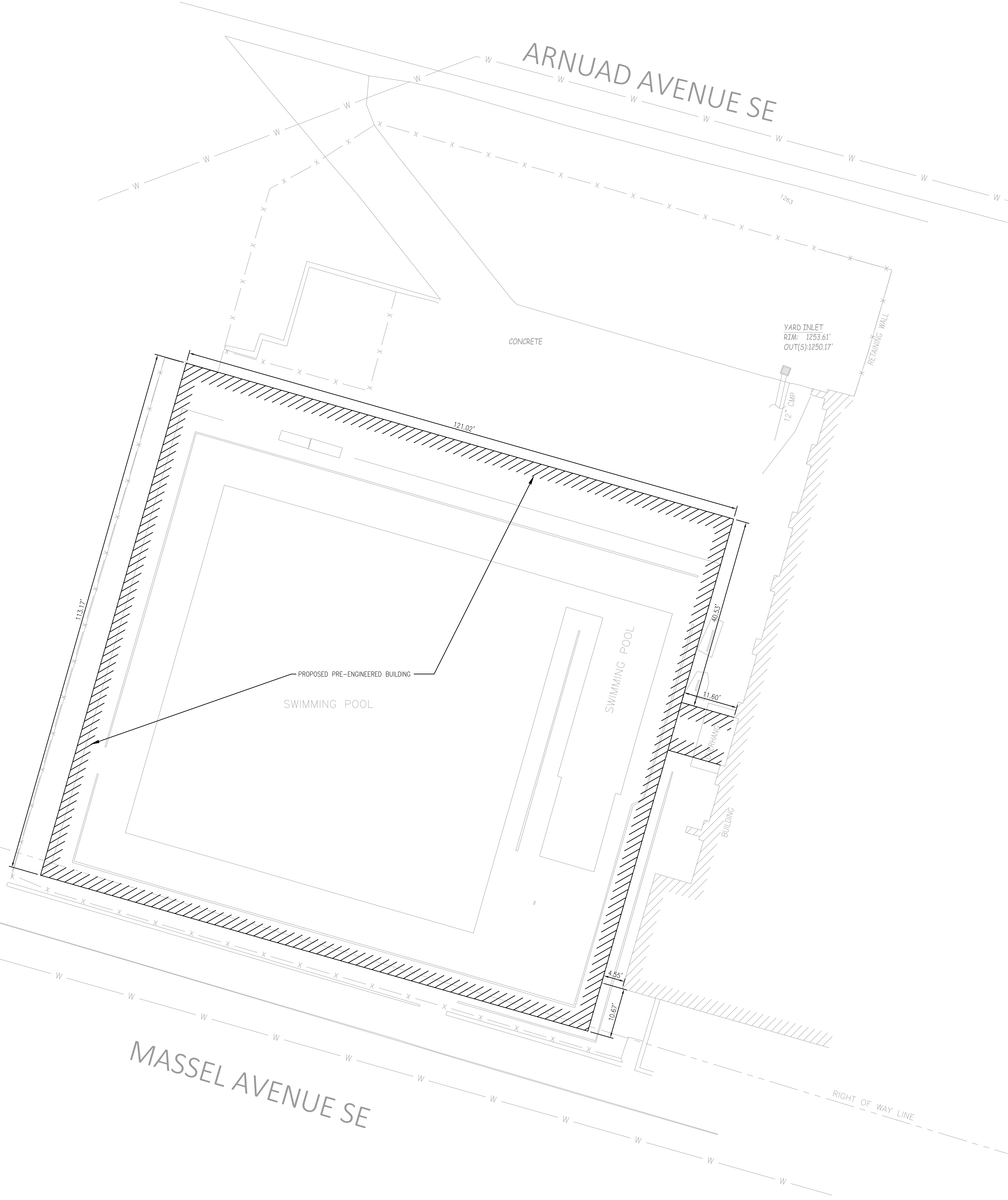
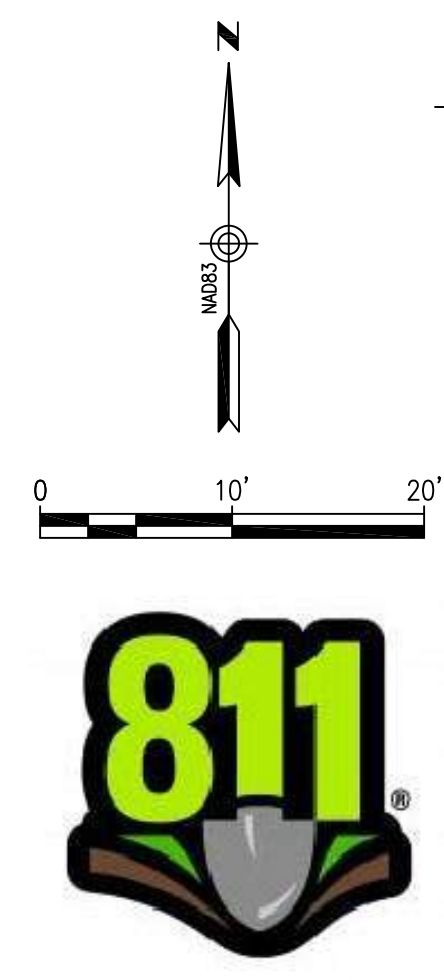
PROJECT DETAILS

- 1. OWNER - TOWN OF VALDESE
2. PARCEL I.D. NO. = 2743-04-5213
3. SITE ZONING = O-1
4. TOTAL SITE ACREAGE = 1.74 ACRES.
5. TOTAL DISTURBED ACREAGE = 0.25 ACRES
6. WATERSHED DISTRICT: LAKE RHODISS

NOTES THIS SHEET:

- 1. THE OWNER SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE BURKE COUNTY ENGINEERING DIVISION BEFORE ANY WORK BEGINS.
2. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.
3. ALL ROAD IMPROVEMENTS ARE TO BE COORDINATED WITH BURKE COUNTY AND NCDOT ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
4. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS.
5. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES.
6. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
7. POLE BASES AND ELECTRICAL DESIGN FOR PARKING LOT LIGHT POLES SHALL BE SUBMITTED PRIOR TO BEGINNING INSTALLATION.
8. UNSUITABLE SUBBASE MATERIAL NOT IDENTIFIED BY THE SOIL TESTS, BUT LOCATED DURING CONSTRUCTION, MUST BE REMOVED FROM THE RIGHT-OF-WAY AND REPLACED WITH BACKFILL.
9. WHERE VERTICAL CURB AND GUTTER EXIST, ALL DRIVEWAY RAMPS SHALL BE CONSTRUCTED OF PORTLAND CEMENT A MINIMUM OF 6-INCHES DEEP. THE RAMP MUST RISE 4-INCHES ABOVE THE FLOW LINE OF THE GUTTER AT A POINT NO CLOSER THAN 2- FEET FROM THE GUTTER.
10. ALL WORK TO BE COMPLETED IN NCDOT R/W TO BE COORDINATED WITH NCDOT.

SITE PLAN SCALE: 1"=10'



THE LINE SHOWN ABOVE IS
A 1/8" LINE REPRESENTING
A 1/8" LINE IN REALITY.
PAGE 001

E

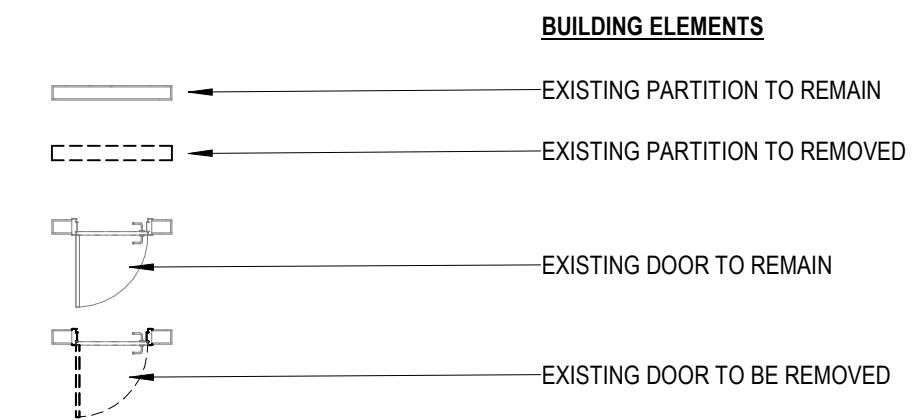
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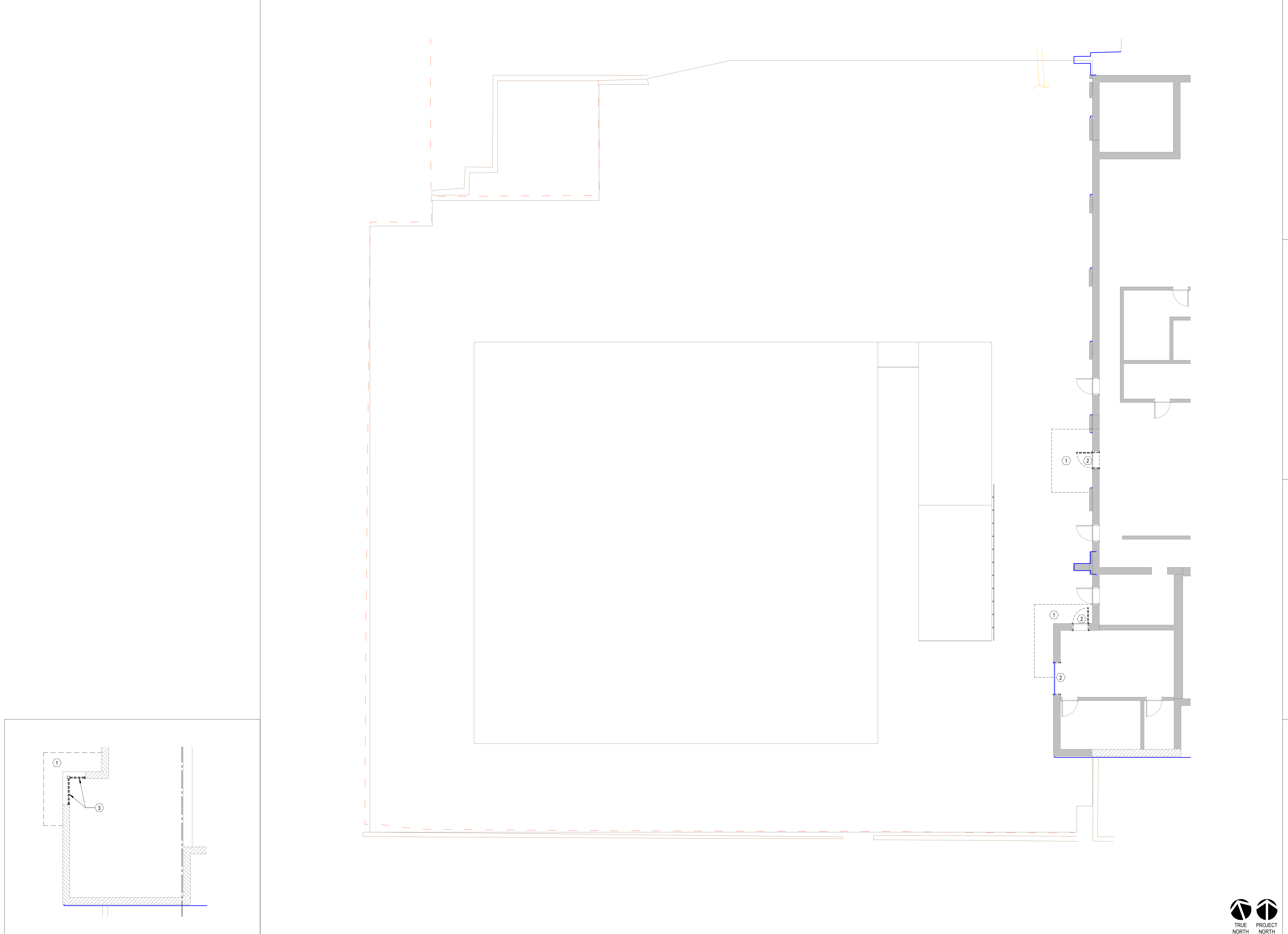
LEGEND- DEMOLITION PLANS



10	LEGEND- DEMO PLANS	1/8" = 1'-0"
A1.1		

DEMOLITION PLAN NOTES	
NUM.	NOTE
1	DEMOLISH EXISTING CANOPY
2	DEMOLISH EXISTING DOOR TO ALLOW FOR NEW DOOR TO BE INSTALLED IN EXISTING OPENING
3	DEMOLISH EXISTING WINDOW TO ALLOW FOR NEW WINDOW TO BE INSTALLED IN EXISTING OPENING

GENERAL NOTES	
1.	UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE CLEAR FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL OR OPENING.
2.	THE CONSTRUCTION MANAGER SHALL VERIFY ALL CONDITIONS, ANY VARIATIONS IN SIZES, FLOOR LEVELS, OR ANY OTHER EXISTING WHICH MAY BE REPORTED TO THE ARCHITECT BEFORE THE BEGINNING OF CONSTRUCTION.
3.	ALL DIMENSIONS AND LAYOUTS SHALL BE FIELD COORDINATED BY THE CONSTRUCTION MANAGER WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, ALL SHOP DRAWINGS AND EXISTING CONDITIONS. ANY INCONSISTENCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL RESOLVE AT NO COST TO THE OWNER AND TO THE SATISFACTION OF THE ARCHITECT, ANY AND ALL CONFLICTS BETWEEN THE WORK OF THE VARIOUS TRADES ARISING FROM ERRORS IN COORDINATION BETWEEN TRADES.
4.	IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS OR PRODUCTS, PROCEDURES, ETC., THE MORE STRINGENT DETAIL AND HIGHER QUALITY SHALL BE CONSIDERED THE INTENT OF THE CONTRACT DOCUMENTS. ARCHITECT'S CONFIRMATION IS REQUIRED.
5.	ALL TYPICAL DOOR FRAMES ARE TO BE PLACED 4" MIN. (HINGE SIDE) FROM ANY INTERSECTION PARTITIONS, UNO.
6.	NO AS BUILT DRAWINGS WERE AVAILABLE FOR THE DEVELOPMENT CONSTRUCTION OF THE EXISTING BUILDING. ALL DRAWINGS REPRESENTING THE EXISTING BUILDING AND RELATED DETAILS ARE BASED ON ASSUMED CONDITIONS. ALL DIMENSIONS AND DETAILS NEED TO BE FIELD VERIFIED DURING THE MANDATORY SITE VISIT (WHERE THE OWNER WILL PROVIDE A MEANS TO SEE THE EXISTING ROOF CONDITIONS).



21	DEMO FLOOR PLAN - LEVEL 02	1/8" = 1'-0"	16	DEMOLITION PLAN-OVERALL- LEVEL 01	1/8" = 1'-0"
A1.1			A1.1		



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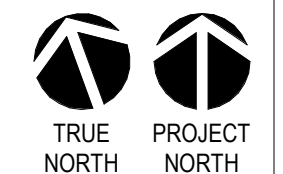
**TOWN OF VALDESE -
 DRAUGHN AQUATIC CENTER
 STRUCTURE**
 Valdeese Parks & Recreation
 Department
 Massel Ave SE
 Valdeese, NC 28690
 PROJECT: 24-858

DATE	DESCRIPTION

SHEET NAME:
 FLOOR PLAN- DEMOLITION PLAN

ORIG SUBMISSION: 2024.09.23
CURRENT:

SHEET: **A1.1**



E

D

C

B

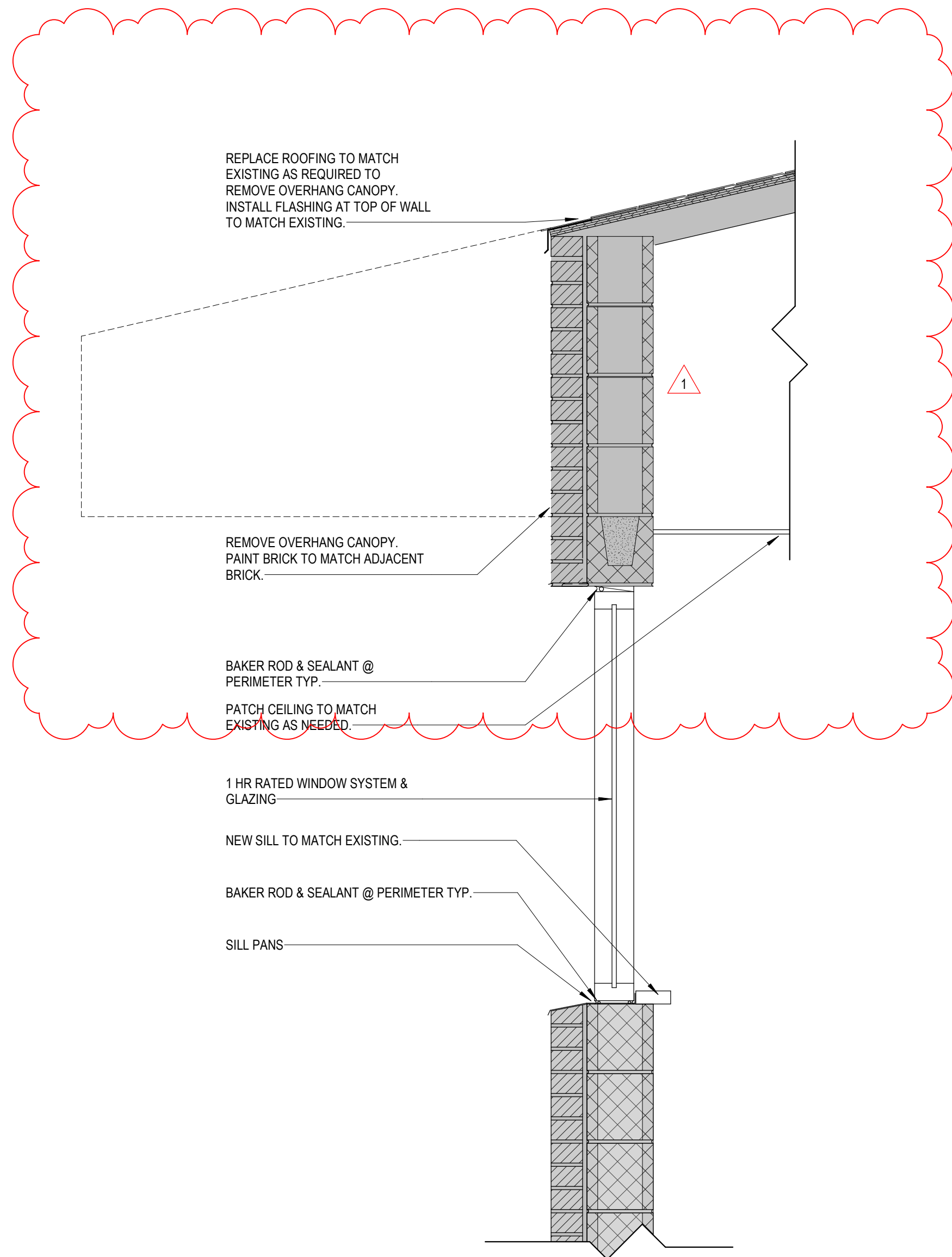
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DOOR SCHEDULE										
DOOR	PR	WIDTH	HEIGHT	THICK	MAT	TYPE	HOW	LBL	REMARKS	
LEVEL 01										
100A	-	3'-0"	7'-0"	1 3/4"	HM	-	-	90 MIN	COORDINATE HARDWARE W/ OWNER TO PROVIDE EXISTING KEYING AND OPERATION WITHIN NEW RATED DOOR/FRAME.	
100B	-	3'-0"	7'-0"	1 3/4"	HM	-	-	45 MIN	COORDINATE HARDWARE W/ OWNER TO PROVIDE EXISTING KEYING AND OPERATION WITHIN NEW RATED DOOR/FRAME.	
100C	-	6'-0"	7'-0"	1 3/4"	HM	-	-	45 MIN	ROLL UP DOOR COORDINATE HARDWARE W/ OWNER TO PROVIDE EXISTING KEYING AND OPERATION WITHIN NEW RATED DOOR/FRAME.	
101A	PR	6'-0"	7'-0"	-	-	-	-	-	PEMS CONTRACTOR TO PROVIDE DOORS/FRAMES & HARDWARE - DOORS TO HAVE PANIC HARDWARE	
101A	PR	6'-0"	7'-0"	-	-	-	-	-	PEMS CONTRACTOR TO PROVIDE DOORS/FRAMES & HARDWARE - DOORS TO HAVE PANIC HARDWARE	
101A	PR	6'-0"	7'-0"	-	-	-	-	-	PEMS CONTRACTOR TO PROVIDE DOORS/FRAMES & HARDWARE - DOORS TO HAVE PANIC HARDWARE	

DOOR AND HARDWARE GENERAL NOTES:
 1. FIELD VERIFY DOOR OPENING DIMENSIONS
 2. PROVIDE CYLINDERS AND KEYING TO MATCH EXISTING, AND COORDINATE KEYING AS REQUIRED BY OWNER
 3. DOORS WITHIN A RATED WALL TO HAVE DOOR AND FRAMES THAT ARE UL CERTIFIED FOR RATINGS SHOWN.
 4. MATCH EXISTING DOOR HARDWARE STYLE, FIELD VERIFY ALL DOOR AND HARDWARE DURING MANDATORY PRE-CONSTRUCTION SITE VISIT

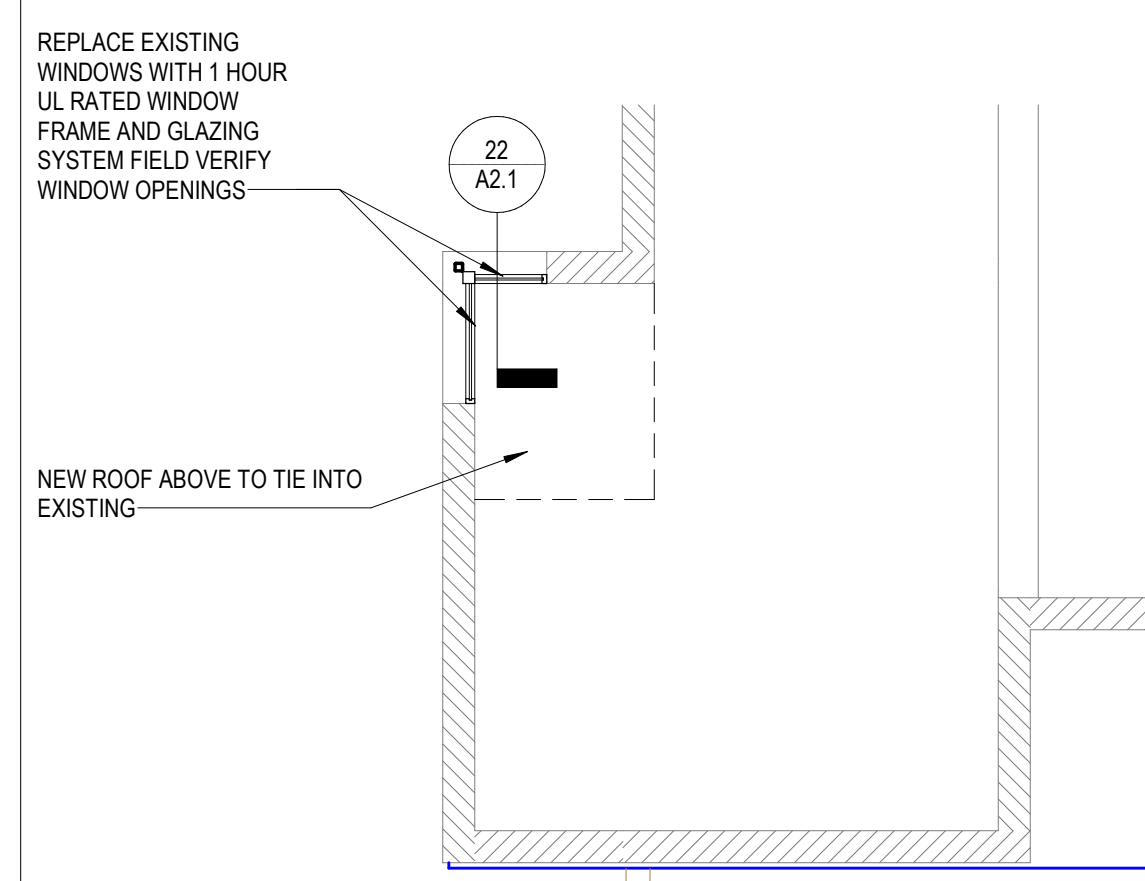
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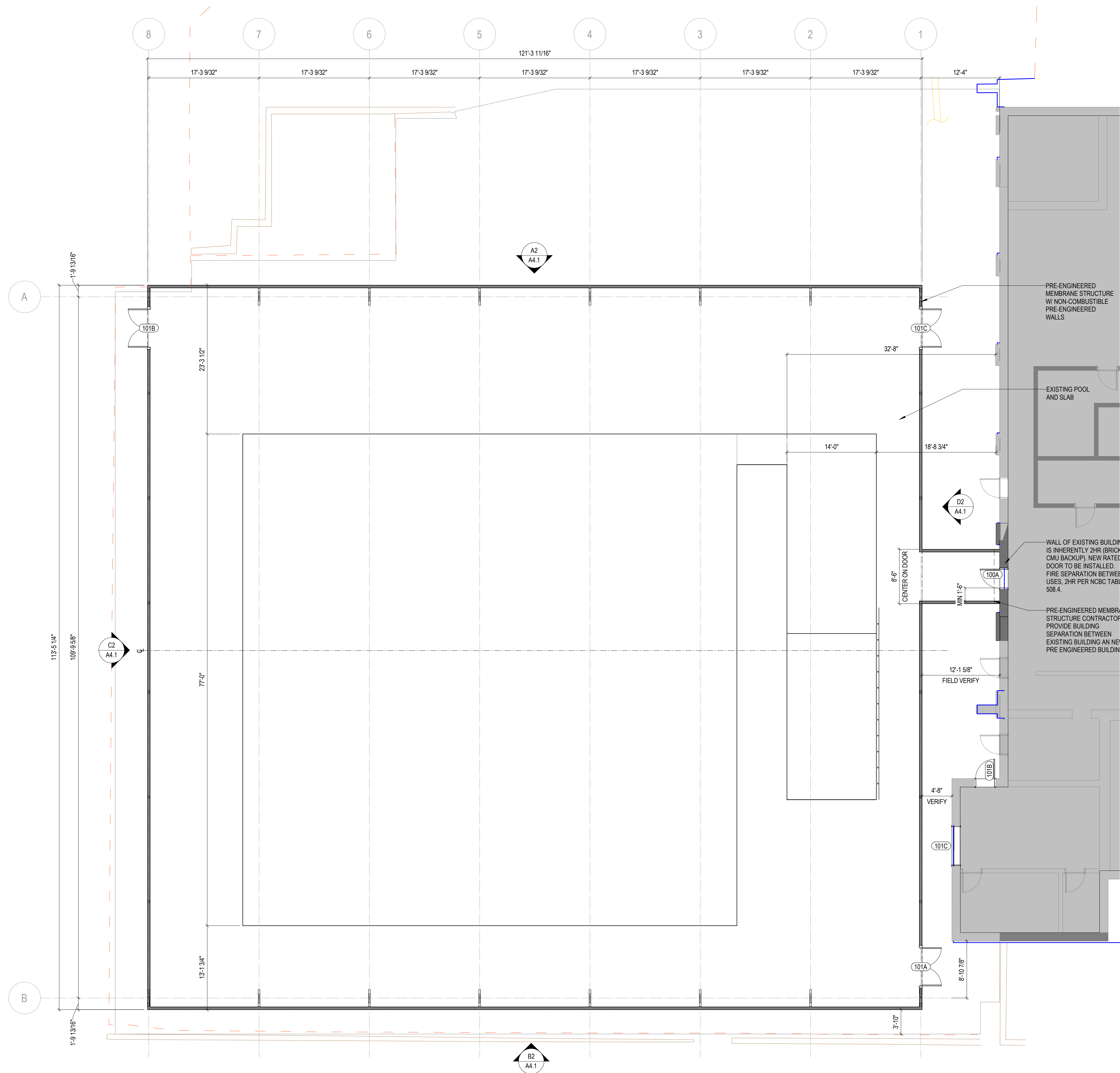


NOTE SEE GENERAL #6

22 SECTION @ WINDOW 1" = 1'-0"



21 FLOOR PLAN - LEVEL 02 1/8" = 1'-0"



16 FLOOR PLAN-OVERALL - LEVEL 01 1/8" = 1'-0"

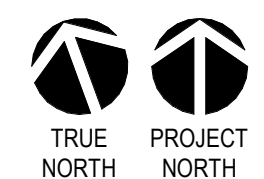
TOWN OF VALDESE -
DRAUGHN AQUATIC CENTER
STRUCTURE
Valdease Parks & Recreation
Department
Massei Ave SE
Valdease, NC 28690
PROJECT: 24-858

DATE	DESCRIPTION
10/29/2024	ADDENDUM 2

SHEET NAME:
FLOOR PLAN- NEW CONSTRUCTION

ORIG SUBMISSION: 2024.09.23
 CURRENT: 10/29/2024
 ADDENDUM 2

SHEET:
A2.1



1/8" = 1'-0"

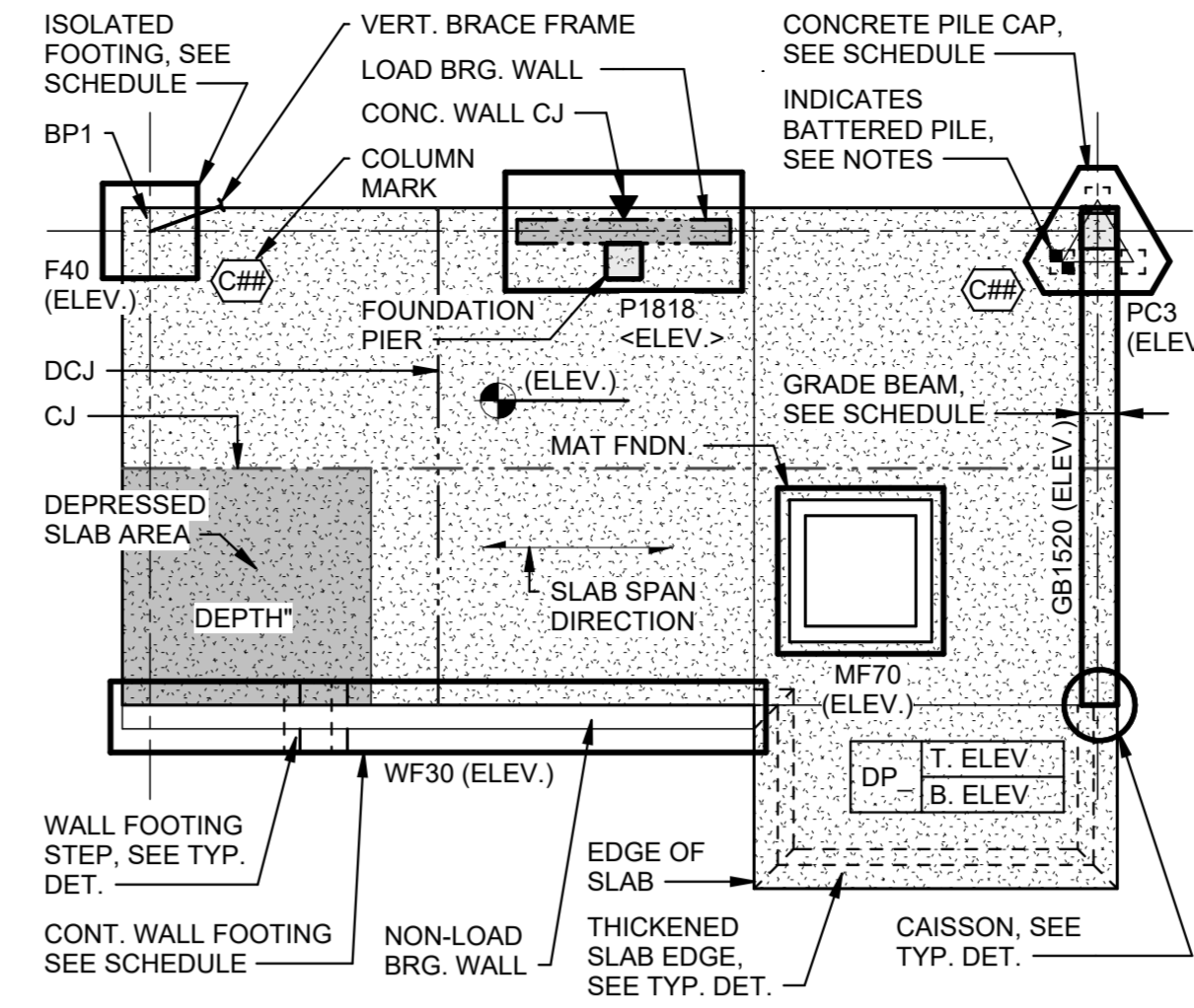
STRUCTURAL ABBREVIATIONS

Table of structural abbreviations including terms like ANCHOR BOLT, AMERICAN CONCRETE INSTITUTE, ABOVE FINISHED FLOOR, etc., with their corresponding symbols and codes.

MATERIALS AND SYMBOLS LEGEND

Table of materials and symbols legend including PLAN SYMBOLS, MATERIALS, and VIEW SYMBOLS with corresponding graphical representations.

FOUNDATION PLAN SYMBOLS LEGEND



DRAWING INDEX

Drawing index table listing drawing numbers (S1.1 to S7.2) and their corresponding titles (GENERAL NOTES, INDEX, FOUNDATION PLAN, etc.).



MICHAEL GRAVES logo and contact information

Architect: WALTER ROBB ARCHITECTS, A MICHAEL GRAVES COMPANY

SKA Consulting Engineers, Inc. logo and contact information



REINFORCED CONCRETE MASONRY

- 1. DETAILS FOR MASONRY CONSTRUCTION ON THE STRUCTURAL DRAWINGS ARE LIMITED IN SCOPE TO SHOW STRUCTURAL REQUIREMENTS ONLY...
2. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530 CONCRETE MASONRY BLOCK SHALL CONFORM TO ASTM C90...
3. PORTIONING OF ALL MORTAR SHALL BE ONLY BY VOLUME MEASUREMENT...

STRUCTURAL DESIGN DATA

- 1. CODES AND STANDARDS:
A. 2018 N. C. REVISIONS TO THE 2015 INTERNATIONAL BUILDING CODE
B. MIN. DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES: ASCE 7-10
C. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: ACI 318-14
D. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES: ACI 530-13
E. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS: AISC 360-10
F. AF&PA - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
2. FOUNDATIONS:
A. FOOTINGS - ALLOWABLE SOIL BEARING PRESSURE (ASSUMED)... 6000 PSF
3. GRAVITY LOADS:
A. FLOOR LIVE LOADS:
1. POOL DECK... 100 PSF
B. ROOF LIVE LOAD... 20 PSF
C. ROOF TRUSS LOADS: PER ENGINEERED STRUCTURE DESIGNER
D. ROOF SNOW LOADS:
1. GROUND SNOW LOAD... 15 PSF
2. FLAT ROOF SNOW LOAD... 12 PSF
3. RISK CATEGORY... III
4. IMPORTANCE FACTOR... 1.1
5. Cf... 1.0
6. Ct... 1.0
7. DRIFT SURCHARGE LOAD AND WIDTH - AS SHOWN ON DRAWINGS
E. SUSPENDED DEAD LOADS: PER CONSTRUCTION SHOWN ON DWGS
F. OTHER DEAD LOADS: PER CONSTRUCTION SHOWN ON DWGS
4. WIND LOADS:
A. ULTIMATE WIND SPEED... 120 MPH
B. RISK CATEGORY... III
C. IMPORTANCE FACTOR... 1.0
D. EXPOSURE CATEGORY... B
E. INTERNAL PRESSURE COEFFICIENT... 0.85

PRE-ENGINEERED STRUCTURE

- 1. THE BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE BUILDING STRUCTURAL FRAME. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA...
2. BEFORE INSTALLATION OF FOUNDATIONS, BUILDING SUPPLIER SHALL SUBMIT FINAL DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT FOR REVIEW.
3. BUILDING DESIGN CALCULATIONS, SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
4. FORCE TRANSFER FROM BUILDING TO THE CONCRETE FOUNDATIONS SHALL BE BY THE BUILDING SUPPLIER.
5. BUILDING SUPPLIER SHALL DESIGN AND SUPPLY STEEL GIRTS BETWEEN COLUMNS/FRAMES TO LATERALLY SUPPORT THE EXTERIOR WALLS AND CLADDING.
6. ALLOWABLE DEFLECTION LIMITS FOR MEMBERS SHALL BE AS FOLLOWS:
A. ROOF PURLINS AND RAFTERS:
a. VERTICAL DEFLECTION FROM DEAD LOAD = SPAN/360
b. VERTICAL DEFLECTION FROM LIVE LOAD = SPAN/260
c. VERTICAL DEFLECTION FROM TOTAL LOAD = SPAN/240
B. GIRTS: HORIZONTAL DEFLECTION = SPAN/240
C. OVERALL BUILDING DRIFT = H/200, WHERE 'H' IS THE BUILDING EAVE HEIGHT
D. DEFLECTION AND DRIFT LIMITS FOR WIND LOADS ARE TO BE CONSIDERED WITH A 10-YEAR WIND OCCURRENCE.
E. ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURE ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.
7. BUILDING MANUFACTURER SHALL PROVIDE RECOMMENDED CONNECTIONS FROM WIND GIRTS TO SUPPORT ELEMENTS.

LIGHT GAUGE METAL FRAMING

- 1. ALL LIGHT STRUCTURAL STEEL MEMBERS THAT SUPPORT ROOF AND/OR FLOOR LOADS SHALL BE FORMED FROM STEEL SECTIONS THAT CONFORM TO THE SPECIFICATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
2. ALL LIGHT STRUCTURAL STEEL MEMBERS SHALL HAVE A MINIMUM Fy = 33 KSI.
3. 8" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 800S162-43, SPACED AT 16" O/C UNO, WITH GROSS PROPERTIES EQUAL TO: A = 0.537 IN2, Ix = 4.633 IN4, Sx = 1.158 IN3, Iy = 0.160 IN4, Rxx = 2.937 IN, Ryy = 0.546 IN.
4. 6" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 600S162-43, SPACED AT 16" O/C UNO, WITH GROSS PROPERTIES EQUAL TO: A = 0.447 IN2, Ix = 2.316 IN4, Sx = 0.772 IN3, Iy = 0.146 IN4, Rxx = 2.276 IN, Ryy = 0.376 IN.
5. 4" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 400S162-33, SPACED AT 16" O/C UNO, WITH GROSS PROPERTIES EQUAL TO: A = 0.275 IN2, Ix = 0.692 IN4, Sx = 0.346 IN3, Iy = 0.103 IN4, Rxx = 1.586 IN, Ryy = 0.611 IN.
6. 3-1/2" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 350S162-33, SPACED AT 16" O/C UNO, WITH GROSS PROPERTIES EQUAL TO: A = 0.258 IN2, Ix = 0.508 IN4, Sx = 0.290 IN3, Iy = 0.098 IN4, Rxx = 1.404 IN, Ryy = 0.617 IN.
7. 2-1/2" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 250S162-43, SPACED AT 16" O/C UNO, WITH GROSS PROPERTIES EQUAL TO: A = 0.289 IN2, Ix = 0.302 IN4, Sx = 0.242 IN3, Iy = 0.111 IN4, Rxx = 1.022 IN, Ryy = 0.62 IN.
8. FURNISH AND INSTALL CONTINUOUS MECHANICAL LATERAL BRACING AT 48 C/C OR AS REQUIRED BY THE STRUCTURAL WALL STUD MANUFACTURER UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. 4"x68 MIL. FLAT STRAPS SHALL BE USED AT 'X-BRACED' BAYS. A MINIMUM FILLET WELD LENGTH OF 1-1/2" IS REQUIRED AT EACH END OF STRAPS TO DEVELOP FULL TENSION CAPACITY.
10. FOUR (4) STUDS ARE REQUIRED AT EACH END OF EACH 'X-BRACED' BAY. THESE STUDS SHALL BE STITCH WELDED TOGETHER. SEE APPLICABLE DETAILS.
11. THE LENGTH OF AN 'X-BRACED' BAY SHALL BE EQUAL TO THE HEIGHT OF THE BAY, MINIMUM UNO.
12. A CONTINUOUS 1.6"x7"x1/8" BEAM SHALL BE INSTALLED ABOVE THE TOP 'RUNNER' AT ALL LOAD BEARING STUD WALLS UNO. THIS LOAD DISTRIBUTION ANGLE SHALL NOT BE SPICED ABOVE ANY WALL OPENING (WINDOW, DOOR, LOUVER, ETC.). PLACE TWO (2) STUDS MINIMUM BELOW SPLICE LOCATIONS (ONE EACH SIDE OF SPLICE).
13. SUBMIT 4 COPIES OF MANUFACTURERS DATA INDICATING WALL STUD/JOIST PROPERTIES AND BRACING.

ANCHORS & FASTENERS

- 1. GENERAL:
A. ALL ANCHOR AND FASTENER PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS BY PERSONNEL CERTIFIED IN THE MANUFACTURING PROCESS...
B. SEE DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ANCHOR AND FASTENER REQUIREMENTS.
C. PRODUCT DATA SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
D. WHERE THE MANUFACTURER IS IDENTIFIED IN THE CONTRACT DOCUMENTS, IT IS PROVIDED AS THE PERFORMANCE STANDARD FOR THE ANCHOR OR FASTENER PRODUCT. ALTERNATE PRODUCTS MAY BE SUBMITTED FOR APPROVAL AND MUST PROVIDE AT LEAST THE SAME PERFORMANCE FOR THE DETAILED INSTALLATION AS THE REFERENCED PRODUCT.
E. DAMAGE TO EXISTING MATERIALS DUE TO ANCHOR INSTALLATION SHALL BE REPAIRED USING PROCEDURES AND MATERIALS APPROVED BY THE ENGINEER.
2. ANCHORAGE IN CONCRETE:
A. THE SUITABILITY OF POST-INSTALLED EXPANSION AND UNDER-CUT ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN DEMONSTRATED BY THE ACI 308.2 PREQUALIFICATION TESTS.
B. THE INSTALLATION OF ANCHORS IN HARDENED CONCRETE SHALL NOT DAMAGE THE SURROUNDING CONCRETE OR ANYTHING EMBEDDED IN THE CONCRETE. PRIOR TO DRILLING FOR ANCHOR INSTALLATION, LOCATE MATERIALS EMBEDDED IN THE CONCRETE USING NON-DESTRUCTIVE METHODS. ADJUST ANCHOR LOCATIONS TO AVOID EMBEDDED MATERIALS. SUBMIT POSITIONS OF RELOCATED ANCHORS TO ENGINEER FOR APPROVAL PRIOR TO DRILLING. PRE-DRILL PROBE HOLES USING A SMALL DIAMETER DRILL BIT AT FINAL ANCHOR LOCATION TO CONFIRM A CLEAR DRILLING PATH.
C. ADHESIVE ANCHORS SHALL BE INSTALLED PER THESE NOTES AND PER TYPICAL DETAILS.
D. UNLESS OTHERWISE NOTED, ANCHORAGE IN NEW POST-TENSIONED CONCRETE SHALL BE MADE USING ANCHOR BOLTS AND INSERTS PLACED IN THE FORMWORK PRIOR TO CONCRETE PLACEMENT.

CONCRETE

- 1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIFICATIONS.
A. FLOWABLE CONCRETE FILL... 500 PSI
B. FOOTINGS AND PIERS... 3000 PSI
C. SLABS ON GRADE... 4000 PSI
D. PERMANENTLY EXTERIOR EXPOSED CONCRETE... 4000 PSI
E. ALL OTHER CONCRETE... 4000 PSI
2. CONCRETE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL CONTAIN APPROXIMATELY 6% ENTRAINED AIR. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. CONCRETE SHALL BE BATCHED USING MATERIALS AND PROPORTIONS DESIGNATED IN THE APPROVED DESIGN MIXES. THE GENERAL CONTRACTOR SHALL PROVIDE QUALITY CONTROL OF THE CONCRETE MIX.
4. CONCRETE SLUMP SHALL BE AS INDICATED IN THE SPECIFICATIONS.
5. THE ADDITION OF WATER TO INCREASE SLUMPS ABOVE THE LEVEL SPECIFIED OR TO RETEMPER CONCRETE WHICH HAS EXPERIENCED SLUMP LOSS DUE TO EXCESSIVE MIXING OR HEAT BUILD-UP IS NOT PERMITTED.
6. CONCRETE SHALL BE HANDLED, PLACED, AND CONSOLIDATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
7. SEE SPECIFICATIONS FOR CURING AND HOT AND COLD WEATHER REQUIREMENTS FOR CONCRETE.
8. PROVIDE PRE-MOLDED EXPANSION-JOINT FILLER AT EDGES OF SLABS ON GRADE AGAINST VERTICAL SURFACES UNLESS NOTED OTHERWISE.
9. DOWELS FROM FOOTINGS SHALL BE ACCURATELY LOCATED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF THE CONCRETE. PLACEMENT OF DOWELS IN FRESH CONCRETE AFTER THE CONCRETE HAS BEEN PLACED WILL NOT BE PERMITTED. USE TEMPLATES FOR THE PLACEMENT OF DOWELS IN COLUMNS AND SHEAR WALLS.
10. THE CONTRACTOR SHALL USE INSTRUMENTS TO MAINTAIN A CONTINUOUS CHECK OF THE ELEVATIONS OF THE TOP SURFACES OF SLABS DURING THE PLACEMENT AND FINISHING OF THE CONCRETE. ADJUSTMENTS SHALL BE MADE TO MAINTAIN THE SURFACES WITHIN THE SPECIFIED TOLERANCES.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ANCHOR BOLTS, CLIPS, INSERTS, SLEEVES AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COOPERATION WITH OTHER TRADES PRIOR TO THE PLACING OF CONCRETE.
12. CONCRETE FORMWORK SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED SUFFICIENT STRENGTH TO NOT BE DAMAGED BY FORMWORK REMOVAL. SEE ALSO SPECIFICATIONS.

CONSTRUCTION

- 1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE, OR LOSS.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT. SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. THE DESIGNER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON NEW AND/OR EXISTING STRUCTURES. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING, AND REMOVING ANY SHORING AND BRACING REQUIRED DURING CONSTRUCTION, INCLUDING BRACING REQUIRED FOR SIDES OF EXCAVATIONS DURING FOUNDATION CONSTRUCTION AND TEMPORARY BRACING FOR WALLS.
8. THE CONTRACTOR SHALL INFORM THE DESIGNER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY VIRTUE OF THE DESIGNER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE DESIGNER OF SUCH DEVIATION AT TIME OF SUBMISSION, AND THE DESIGNER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.
9. NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE DESIGNER.
10. WHERE CONSTRUCTION TOLERANCES ALLOW FOR VARIATIONS IN LOCATION, SIZE, ETC. OF STRUCTURAL ELEMENTS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR NECESSARY TO MODIFY CONNECTION ELEMENTS AS REQUIRED TO PROVIDE A FINISHED PRODUCT WHICH IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ANY SUCH MODIFICATIONS REQUIRED SHALL BE REVIEWED AND APPROVED BY THE DESIGNER PRIOR TO EXECUTION.
11. THE DESIGNER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ITEMS ARE READY FOR FIELD REVIEW. SUFFICIENT NOTICE SHALL BE GIVEN TO ALLOW SCHEDULING OF THE FIELD REVIEW.

DRAWINGS & COORDINATION

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.
3. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.
4. DETAILS ARE MARKED AT THE SPECIFIC LOCATION WHERE THEY APPLY, BUT ALSO INDICATE GENERAL CONSTRUCTION REQUIREMENTS FOR OTHER LOCATIONS WITH SIMILAR CONDITIONS.
5. DETAILS NOTED AS "TYPICAL" MAY NOT BE REFERENCED ON THE DRAWINGS. TYPICAL DETAILS APPLY AT ALL LOCATIONS WHERE THE TYPE OF CONSTRUCTION SHOWN IN THE TYPICAL DETAIL OCCURS.

FOUNDATIONS

- 1. THE CONTRACTOR IS TO REVIEW THE SUBSURFACE EXPLORATION REPORT PERFORMED FOR THIS PROJECT BY CATAWBA VALLEY ENGINEERING & TESTING, PROJECT NO. 24-448 DATED JULY 16, 2024 BEFORE COMMENTING ON SITE GRADINGS TO BECOME GENERALLY FAMILIAR WITH SUBSURFACE CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. ALL SUBGRADE PREPARATION SHALL BE PERFORMED AS DEFINED IN THE PLANS AND SPECIFICATIONS AND IN COOPERATION WITH THE OWNER'S GEOTECHNICAL TESTING SERVICE.
2. SPECIAL FOUNDATIONS FOR THE SUPPORT OF MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT INSIDE OR OUTSIDE OF THE BUILDING SHALL BE DESIGNED BY THE EQUIPMENT SUPPLIER(S) AND REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPATIBILITY WITH THE BUILDING FOUNDATION SYSTEM. DRAWINGS OF THE FOUNDATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE BUILDING IS LOCATED.
3. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS MAY BE INDICATED IN PART ON THE STRUCTURAL DRAWINGS TO SHOW APPROXIMATE LOCATIONS RELATIVE TO CERTAIN STRUCTURAL COMPONENTS. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS ARE NOT A PART OF THE STRUCTURAL DESIGN. SEE OTHER DRAWINGS FOR DESIGN REQUIREMENTS OF THESE SYSTEMS.
4. ALL FOOTINGS ARE DESIGNED TO BEAR ON RESIDUAL SOIL OR COMPACTED ENGINEERED FILL AND TO HAVE A MINIMUM BEARING CAPACITY AS LISTED UNDER 'STRUCTURAL DESIGN DATA' IN THE GENERAL NOTES. FOOTING EXCAVATIONS ARE TO BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY FOR SUITABLE SOILS, BEARING PRESSURE, AND CONNECTION. COMPACTION OF SOIL UNDER FOOTINGS TO BE 100% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. SEE FOUNDATION PLAN NOTES FOR FURTHER REQUIREMENTS.

REINFORCING STEEL

- 1. DETAILING, FABRICATION, STORAGE, AND INSTALLATION OF REINFORCING, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315), BOTH BY THE AMERICAN CONCRETE INSTITUTE.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING STEEL WELDED TO EMBEDDED STEEL PLATES OR SHAPES SHALL CONFORM TO ASTM A706. DO NOT WELD REINFORCING BARS TO EACH OTHER.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. UNLESS NOTED OTHERWISE ON PLANS OR IN DETAILS, REINFORCING BARS MARKED ON THE PLANS AS BEING CONTINUOUS SHALL BE LAPPED AT SPLICE LOCATIONS AS SHOWN IN SCHEDULE. FOR SPLICES AT CORNERS OR INTERSECTIONS OF WALLS AND BEAMS, SEE TYPICAL DETAILS.
5. REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT BOND BETWEEN THE STEEL AND THE CONCRETE.
6. REINFORCING STEEL SHALL BE SECURELY TIED AND ANCHORED IN PLACE BEFORE CONCRETE PLACEMENT TO PREVENT DISLOCATION.
7. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE ON REINFORCING STEEL SHALL BE AS FOLLOWS:
A. FOOTINGS - ALL FACES... 3"
B. SLAB ON GRADE - TOP... 1"
C. SLAB ON GRADE - BOTTOM... 2"
8. BARS SHALL BE BENT ONLY USING APPROVED METHODS. BARS SHALL NOT BE BENT AFTER PARTIAL EMBEDMENT IN HARDENED CONCRETE.

TOWN OF VALDESE - DRAUGHTN AQUATIC CENTER STRUCTURE Valdeese Parks & Recreation Department Massel Ave SE Valdeese, NC 28690 PROJECT: 24-658

Table with columns DATE and DESCRIPTION for drawing revisions.

SHEET NAME:

GENERAL NOTES, ABBREVIATIONS, DRAWING LEGENDS AND SHEET INDEX

ORIG SUBMISSION: 2024.09.23

CURRENT:

SHEET:

THIS SHEET IS TO BE USED IN CONJUNCTION WITH SHEET S7.1

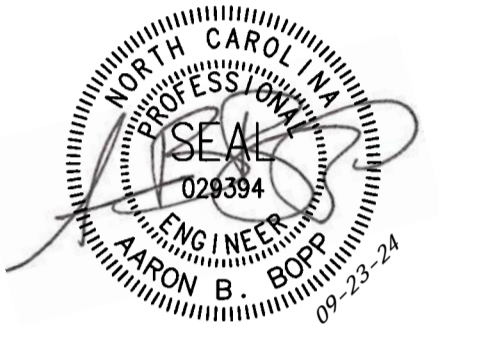
E

D

C

B

A



TOWN OF VALDESE - DRAUGHN AQUATIC CENTER STRUCTURE

Table with 2 columns: DATE, DESCRIPTION

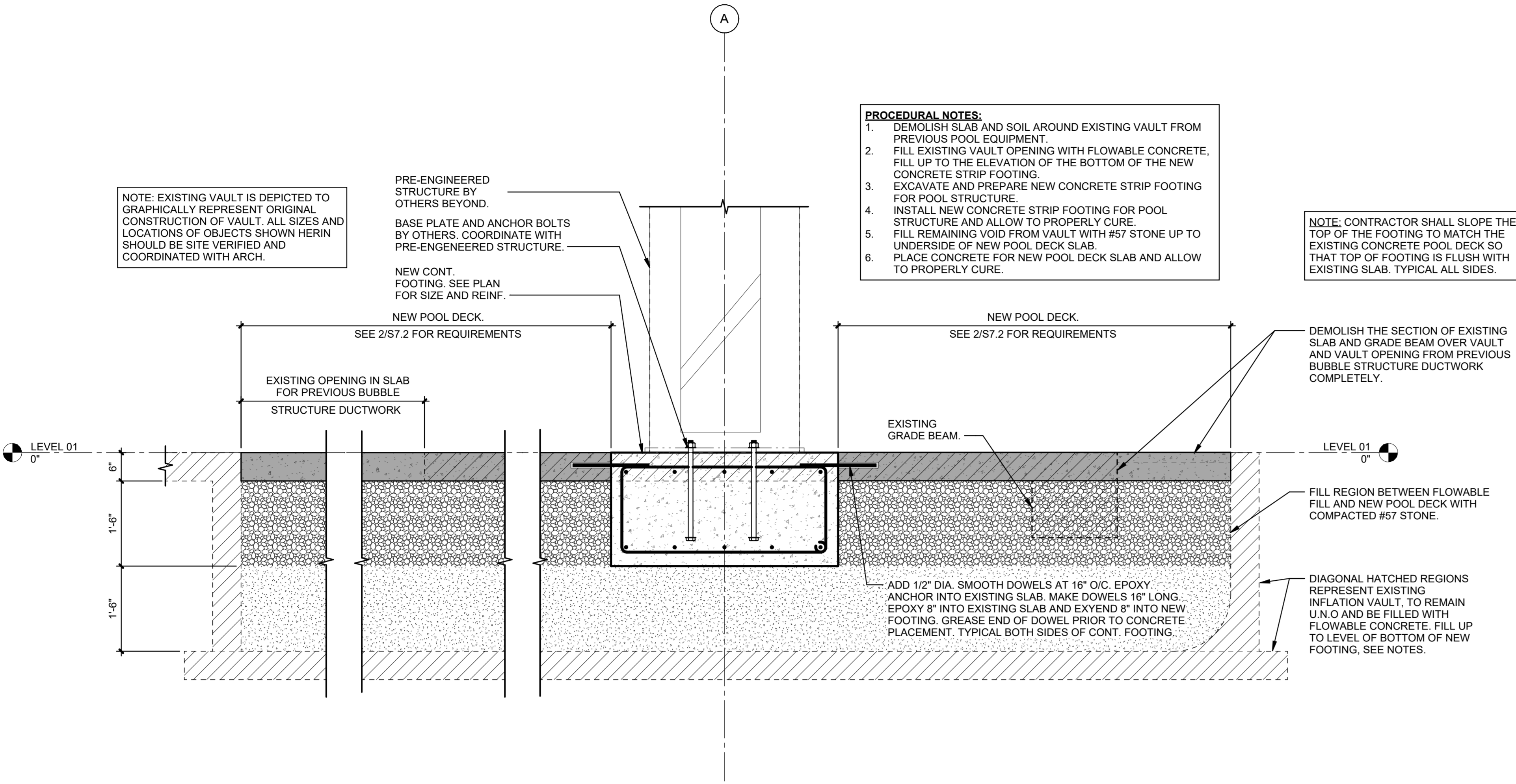
SHEET NAME: TYPICAL REINFORCING AND STEEL DETAILS

ORIG SUBMISSION: 2024.09.23 CURRENT:

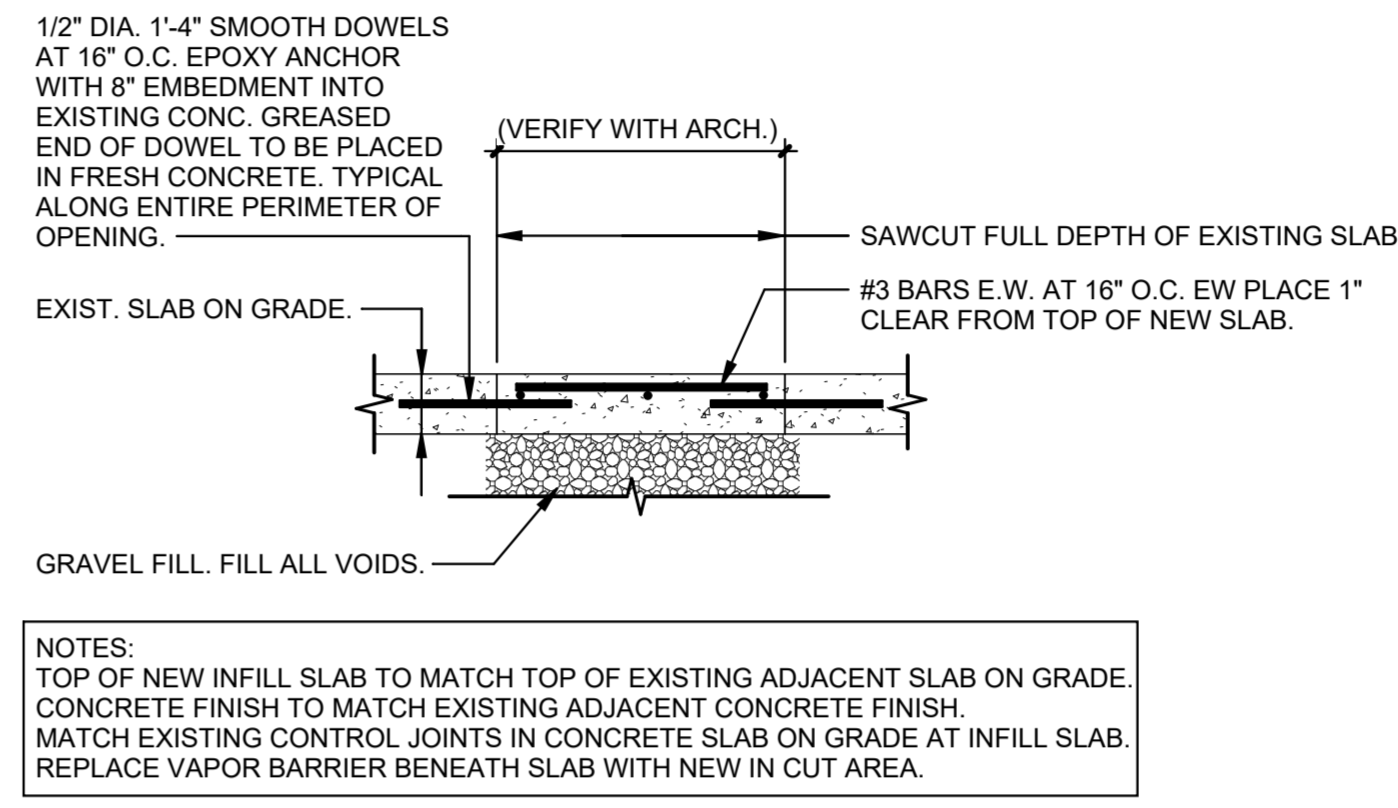
SHEET: S7.2

- PROCEDURAL NOTES: 1. DEMOLISH SLAB AND SOIL AROUND EXISTING VAULT FROM PREVIOUS POOL EQUIPMENT...

NOTE: CONTRACTOR SHALL SLOPE THE TOP OF THE FOOTING TO MATCH THE EXISTING CONCRETE POOL DECK SO THAT TOP OF FOOTING IS FLUSH WITH EXISTING SLAB. TYPICAL ALL SIDES.



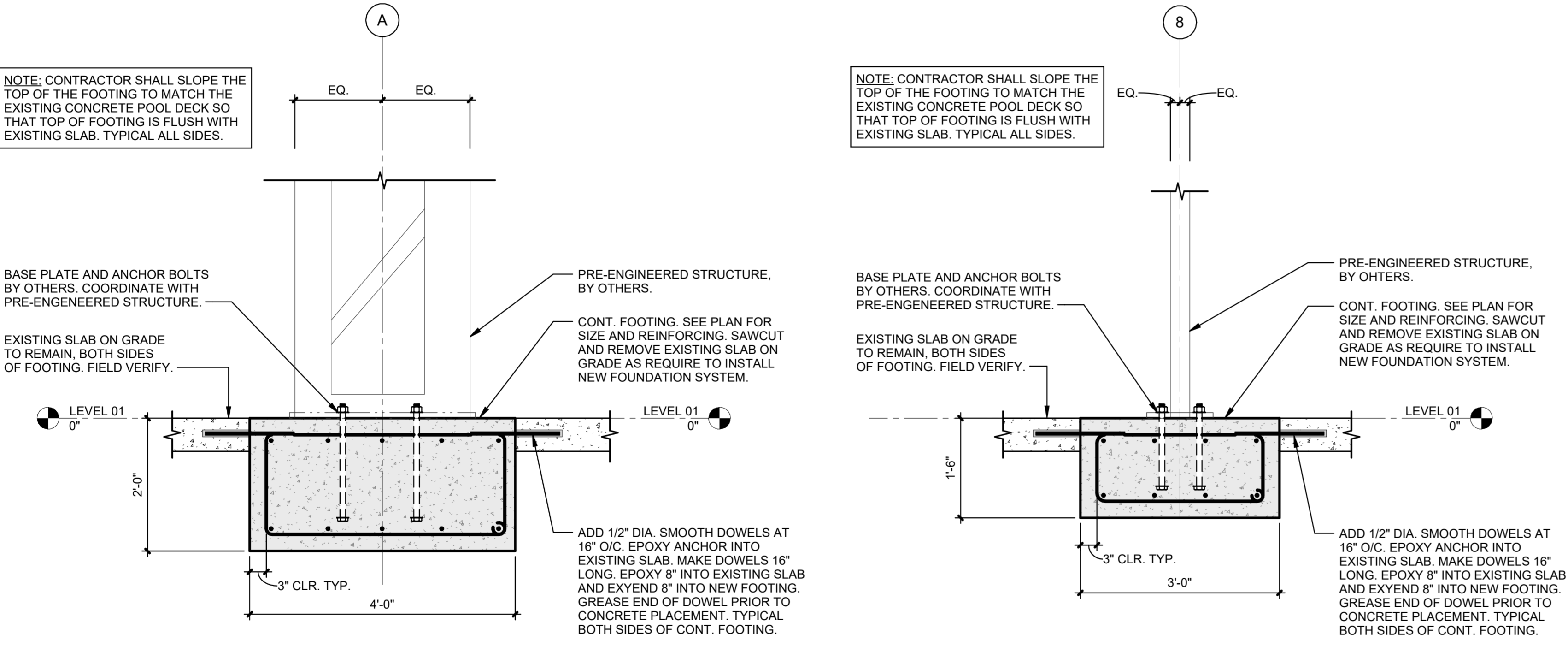
1 Section 7 3/4" = 1'-0"



2 TYPICAL DETAIL - PATCHING OF EXIST SLAB ON GRADE 3/4" = 1'-0"

NOTE: CONTRACTOR SHALL SLOPE THE TOP OF THE FOOTING TO MATCH THE EXISTING CONCRETE POOL DECK SO THAT TOP OF FOOTING IS FLUSH WITH EXISTING SLAB. TYPICAL ALL SIDES.

NOTE: CONTRACTOR SHALL SLOPE THE TOP OF THE FOOTING TO MATCH THE EXISTING CONCRETE POOL DECK SO THAT TOP OF FOOTING IS FLUSH WITH EXISTING SLAB. TYPICAL ALL SIDES.



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

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

MECHANICAL GENERAL NOTES

- 1. CONTRACTOR SHALL LEAD AND ACHIEVE COORDINATION OF ALL TRADES SO THAT ALL WORK WILL FIT AND CAN BE PROPERLY INSTALLED BY ALL CONTRACTORS. MECHANICAL CONTRACTOR BE RESPONSIBLE FOR OBTAINING INFORMATION FROM ALL TRADES TO SHOW LOCATION, SIZES AND COORDINATION ON OVERLAY SHOP DRAWINGS (SEE SPECIFICATION SECTION 1510 FOR ADDITIONAL REQUIREMENTS).

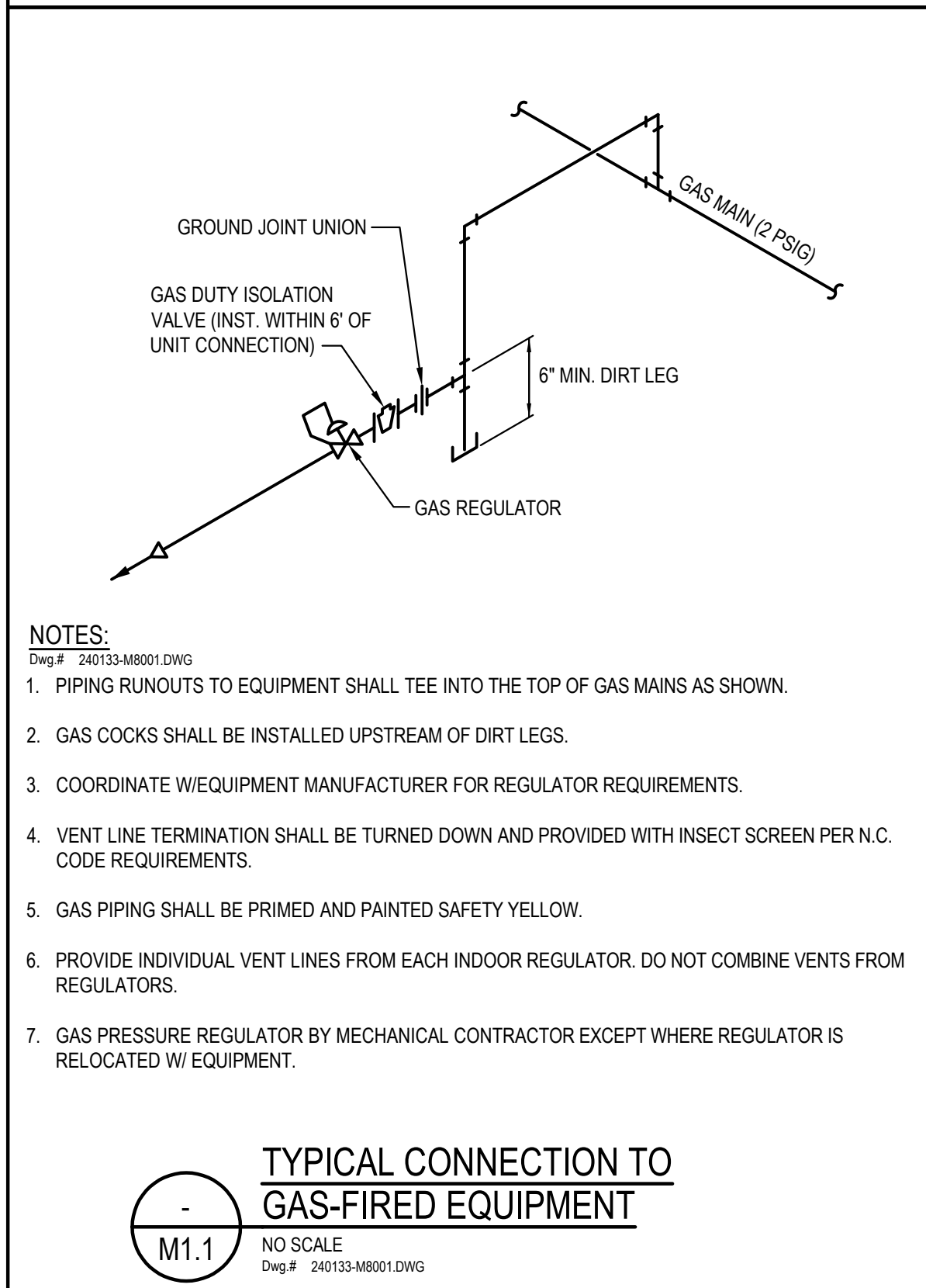
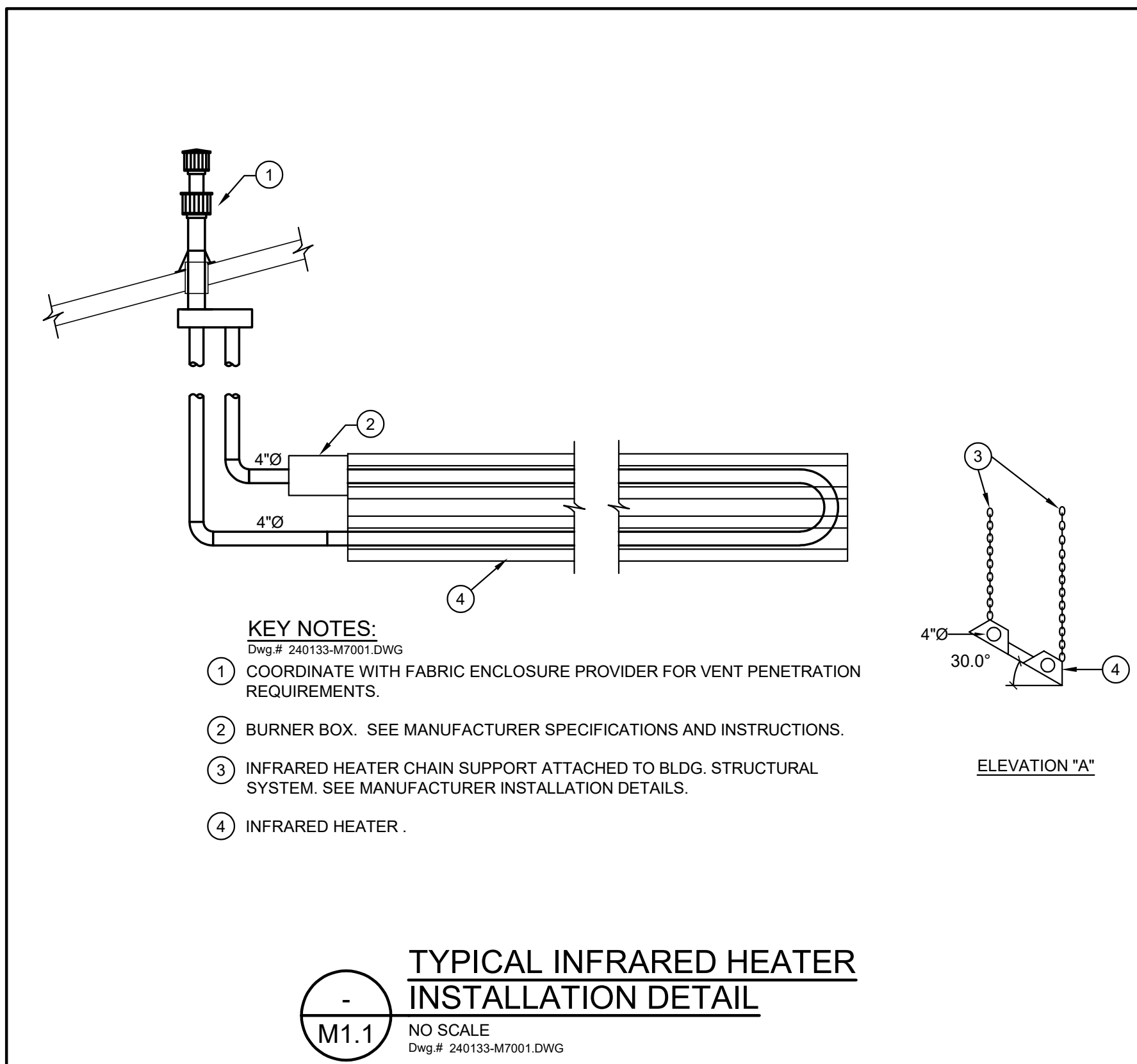
- REPRESENTATIVE WHERE SQUARE MITERED ELBOWS MUST BE USED, TURNING VANES SHALL BE PROVIDED PER SPECIFICATIONS.

MECHANICAL SPECIFICATIONS

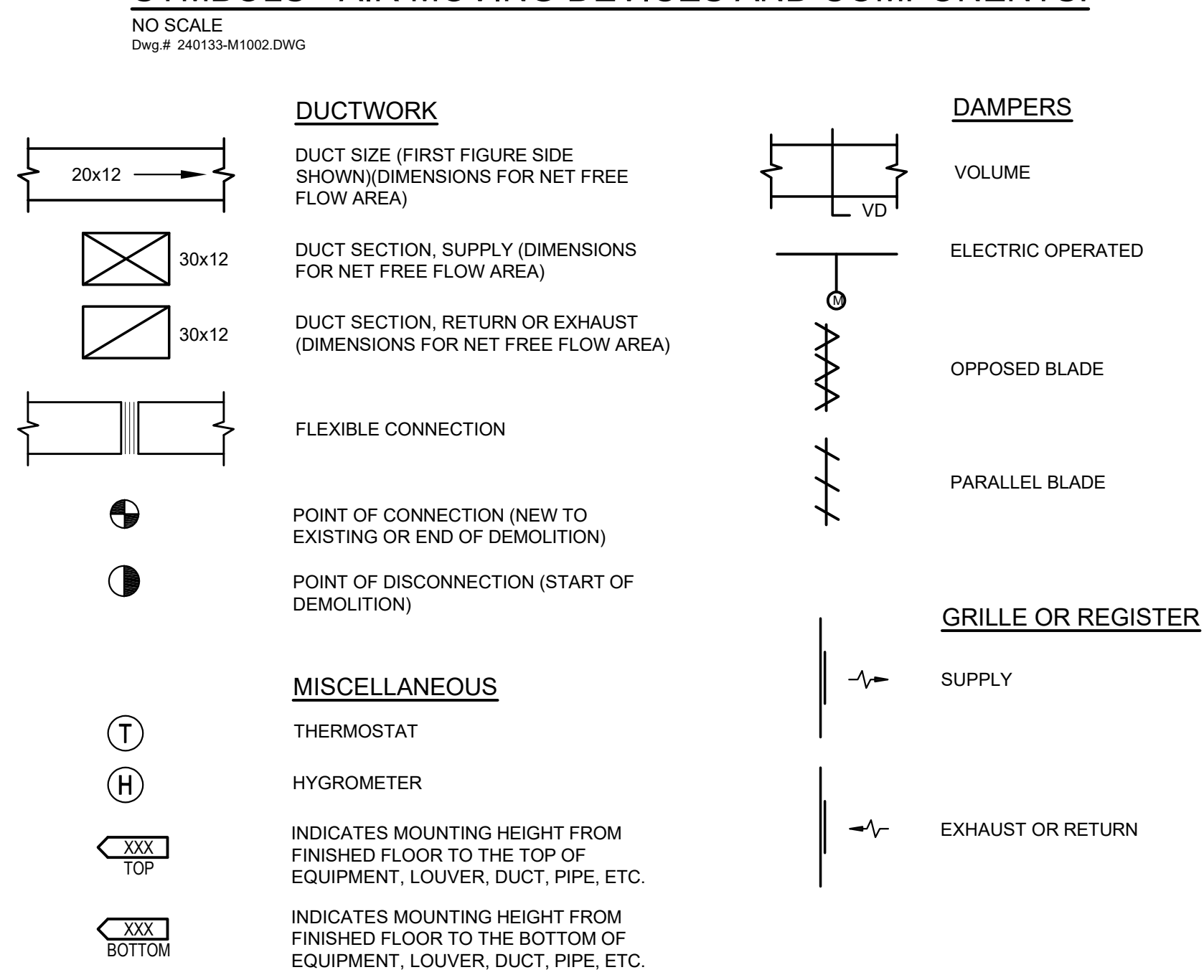
GENERAL: THE WORK COVERED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS CONSISTS IN PROVIDING A COMPLETE SYSTEM INCLUDING LABOR, MATERIALS, ETC.

EXECUTION:

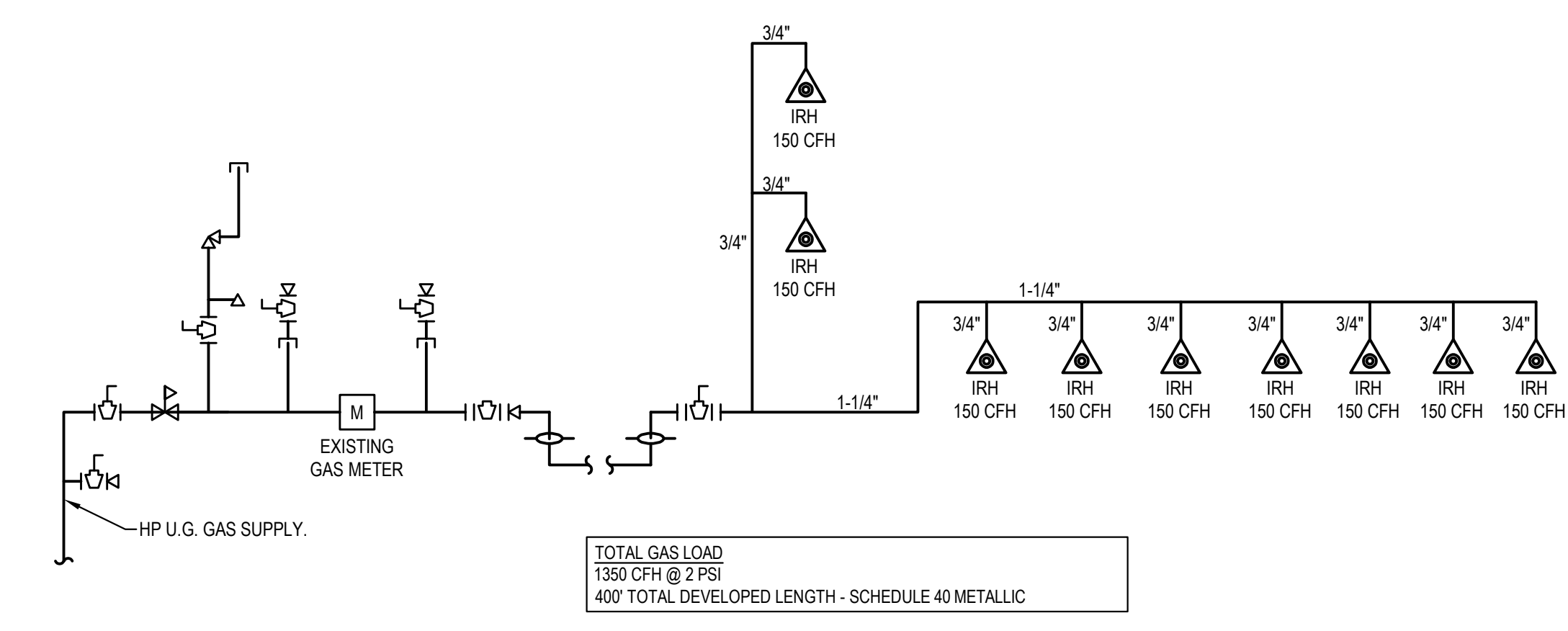
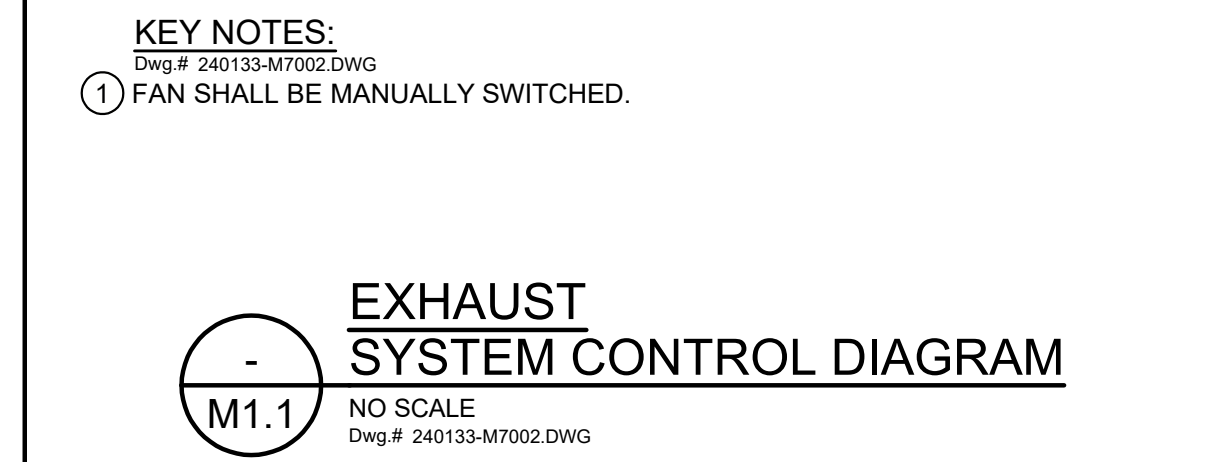
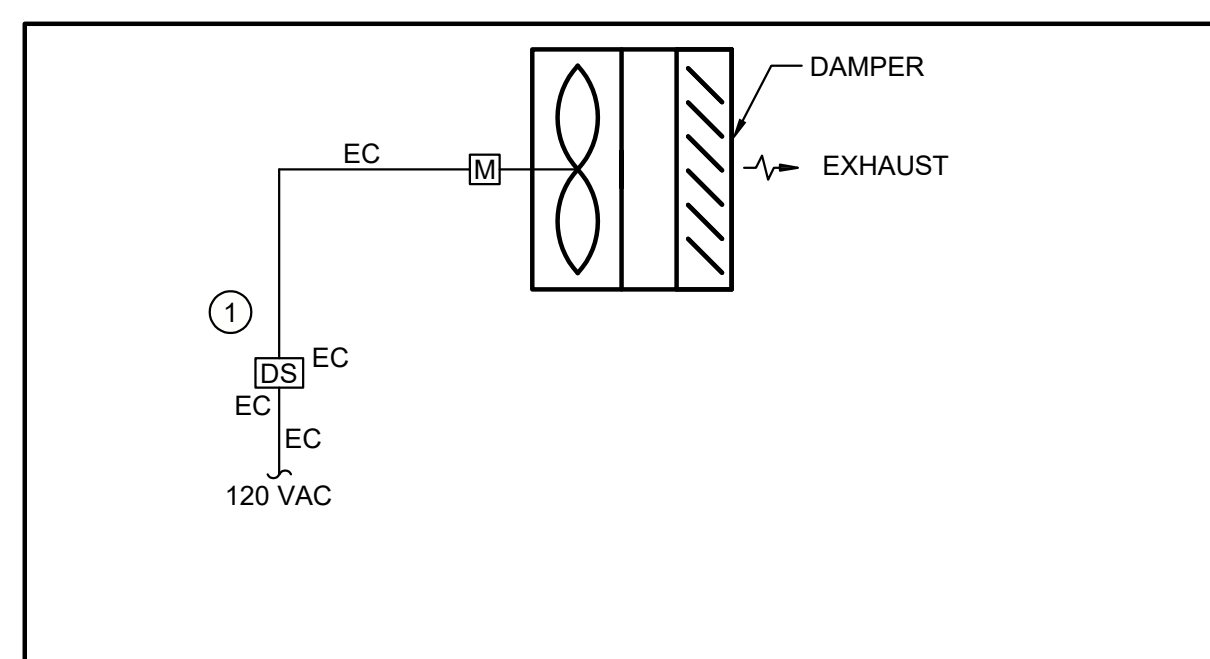
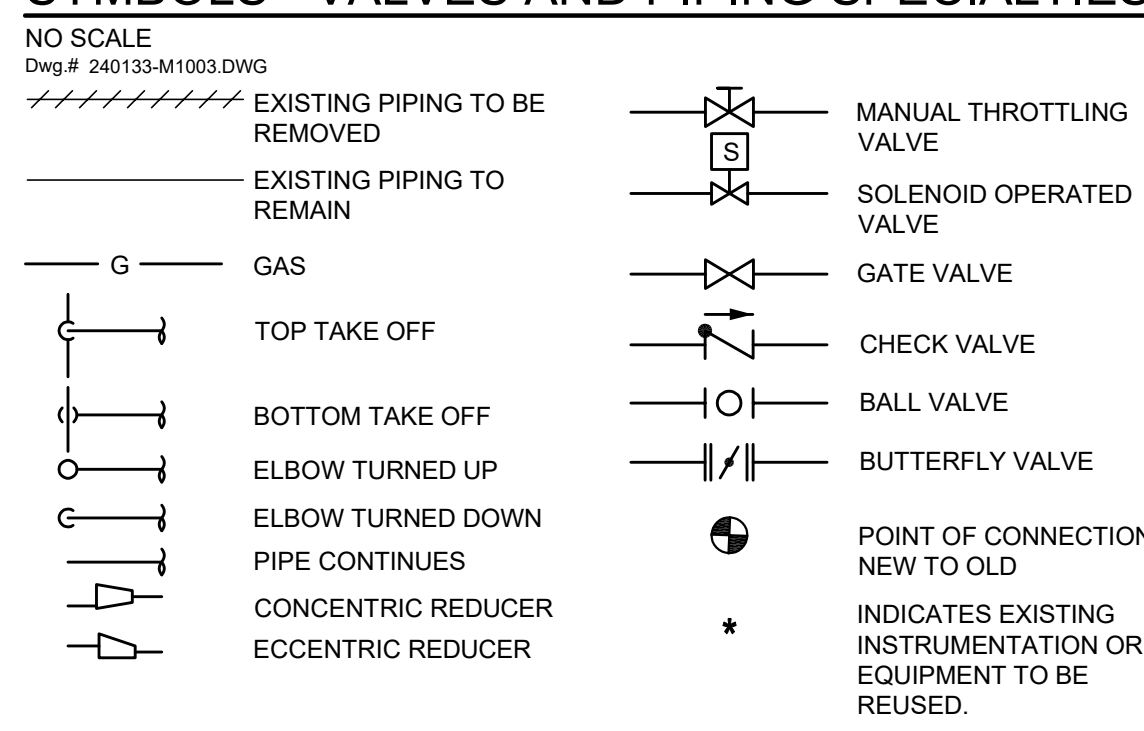
INSTALL THE PACKAGED ROOFTOP AIR CONDITIONING UNITS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



SYMBOLS - AIR MOVING DEVICES AND COMPONENTS:



SYMBOLS - VALVES AND PIPING SPECIALTIES



M1.1 NO SCALE Dwg # 240133-M1004.DWG GAS SYSTEM DIAGRAM

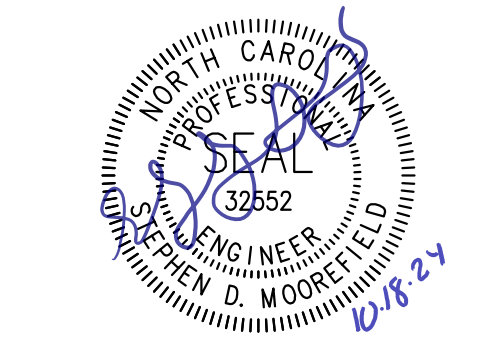
M1.1 NO SCALE Dwg # 240133-M1001.DWG TYPICAL CONNECTION TO GAS-FIRED EQUIPMENT

M1.1 NO SCALE Dwg # 240133-M1001.DWG TYPICAL INFRARED HEATER INSTALLATION DETAIL

M1.1 NO SCALE Dwg # 240133-M1002.DWG EXHAUST SYSTEM CONTROL DIAGRAM

M1.1 NO SCALE Dwg # 240133-M1003.DWG INFRARED HEATER CONTROLS

SKA CONSULTING ENGINEERS logo and contact information: 7900 Trial Center Drive, Suite 200, Greensboro, NC 27409-5075.



TOWN OF VALDESE - DRAUGHN AQUATIC CENTER STRUCTURE Valdease Parks & Recreation Department Massel Ave SE Valdease, NC 28690 PROJECT: 24-858

Table with 2 columns: DATE, DESCRIPTION. Row 1: 10/18/24, ADDENDUM 1.

SHEET NAME: MECHANICAL GENERAL NOTES AND LEGENDS

ORIG SUBMISSION: 2024.09.27 CURRENT:

THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE GENERAL NOTES ON THIS DRAWING.

ELECTRICAL SYMBOL LEGEND
Dwg # 240133-E1002.DWG

GENERAL

- Electrical Panelboard 208/120V
Electrical Panelboard 480/277V
Special Panel
Branch Circuit Home Run - Letters and Numerals indicate panel designation and circuit number. Arrows indicate number of circuits unless otherwise noted. Circuit numbers separated by slashes are multi-pole circuits. Circuit numbers separated by commas are single-pole circuits. Equipment grounding conductors shall be included in all runs of conduit. Provide dedicated neutrals.
Branch Circuit Conduit Installed Concealed in Walls and Above Ceilings Unless Otherwise Noted or Required by Site Conditions.
Unless Noted Otherwise, Branch Circuit Conduit Installed Concealed in or Below Floor Slab or Below Grade.

LIGHTING

- LED Strip Luminaire. Refer to drawing and lighting fixture schedule for mounting.
LED Luminaire. Refer to drawing and lighting fixture schedule for mounting.
LED Luminaire with Integral Emergency Battery Pack. Refer to drawing and lighting fixture schedule for mounting.
LED Wall Mounted Luminaire.
LED Wall Mounted Luminaire with Emergency Battery Pack.
Emergency Egress LED Fixture. Connect unswitched to local lighting circuit, UNO. See schedule.
Ceiling Mounted LED Exit Sign. Connect unswitched to local lighting circuit, UNO. Shaded quadrant(s) indicates face(s). Provide arrows as indicated on drawings. See schedule.
Wall Mounted LED Exit Sign. Connect unswitched to local lighting circuit, UNO. Shaded quadrant(s) indicate face(s). Provide arrows as indicated on drawings. See schedule.
Timer Switch Equal to Tork #C506H.
Single Pole Switch 120/277V, 20A. Mount in a single gang galvanized box 46" above finished floor unless otherwise noted or required by site conditions. Provide corrosion resistant switches within pool enclosure. Coordinate coverplate and device finish with owner.
120V Photocell.

FIRE ALARM

- Fire Alarm Control Panel
Manual Fire Alarm Pull Station Mounted at 48" A.F.F.
Addressable Visual Only Fire Alarm Notification Device, Wall Mounted. Modifier indicates minimum canдела rating. Mount 6'-8" above finished floor or 6" below ceiling height, whichever is lower.
Addressable Audible/Visual Fire Alarm Notification Device, Wall Mounted. Modifier indicates minimum canдела rating. Mount 6'-8" above finished floor or 6" below ceiling height, whichever is lower.

POWER

- Duplex, Federal Specification Listed, 20 Amp Grounding Type, Weather Resistant and Tamper Resistant Receptacle. Provide corrosion resistant receptacles within pool enclosure. Mount vertically in a single gang galvanized box, 18" above floor, or as noted, or directed. "WP" - Indicates with weatherproof gasketed cast metal in-use cover. "GFI" - Indicates receptacle with ground fault interrupter, surface mounted. Coordinate coverplate and device finish with owner.
Motor Connection
Heavy Duty Non Fusible Disconnect Switch Furnished, Installed, and Connected by the Electrical Contractor. First numerals indicate maximum ampere rating, second numeral indicates number of poles. Provide NEMA 3R switches for exterior applications or where subject to moisture. "FWE" indicates furnished with equipment.
Heavy Duty Fusible Disconnect Switch Furnished, Installed, and Connected by the Electrical Contractor. First numerals indicate maximum ampere rating, second numeral indicates number of poles. Third numerals indicate fuse size, or provide fuses to suit equipment served. Provide NEMA 3R switches for exterior applications or where subject to moisture. "FWE" indicates furnished with equipment.
20A, 208V Heavy Duty Motor Rated Switch Furnished, Installed, and Connected by Electrical Contractor. Provide corrosion resistant switches within pool enclosure. "FWE" - Indicates furnished with equipment.
Junction Box, Size and Mounting as Required.
Junction Box, Wall Mounted, Size as Required. Provide blank cover plate where required.

SECURITY

- Security Camera

ELECTRICAL ABBREVIATIONS
Dwg # 240133-E1001.DWG

Table listing electrical abbreviations such as A OR AMP, AFF, AFG, AIC, ALT, ATS, AWG, BKR, BFG, C, CB, CLG, CT, CU, DIA, DN, DWG(S), EC, EF, EG, ELEC, EMT, EQUIP, ER, EWC, EWH, (E), FACP, FL, FLA, FT, FVNR, FWE, GA, GALV, GC, GEC, GFI, GND, GRS, HOA, HID, HP, HT, HTR, IG, IMC, IN, JB, KCMIL, KVA, KW, KWT, L, MC, MCC, MCB, MTD, MTS, N, NC, NEC, NEMA, NF, NFPA, NIC, NO, Ø, PNL, PVC, REC, SCHED, SN, SPECS, SWBD, SWGR, TEL, TTB, TYP, TVSS, UG, UL, UNO, V, WP, XFMR, ISOLATED GROUND, INTERMEDIATE METALLIC CONDUIT, INCH-INCHES, JUNCTION BOX, THOUSANDS OF, CIRCULAR MILLS, KILO VOLT AMPERES, KILOWATT LIGHTS, MECHANICAL CONTRACTOR, MAIN CIRCUIT BREAKER, MOTOR CONTROL CENTER, MAIN LUG ONLY, MOUNTED, MOUNTING, NEUTRAL, NORMALLY CLOSED, NATIONAL ELECTRIC CODE, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, NON-FUSED, NATIONAL FIRE PROTECTION ASSOCIATION, NOT IN CONTRACT, NORMALLY OPEN OR NUMBER, PHASE, PANEL, POLYVINYL CHLORIDE, RECEPTACLE, SCHEDULE, SOLID NEUTRAL SPECIFICATIONS, SWITCHBOARD, SWITCHGEAR, TELEPHONE, TELEPHONE TERMINAL BACKBOARD, TYPICAL, SURGE SUPPRESSOR, UNDERGROUND UNDERWRITES LABORATORIES, UNLESS NOTED OTHERWISE, VOLTS, WIRE, WEATHERPROOF TRANSFORMER.

GENERAL FIRE ALARM NOTES
Dwg # 240133-E1006.DWG

- 1. PROVIDE ADDRESSABLE NOTIFICATION APPLIANCES COMPATIBLE WITH THE EXISTING NAPCO MAGNUM FIRE ALERT 6000 SERIES FIRE ALARM CONTROL PANEL. THESE APPLIANCES ARE TO BE RED WITH WHITE LETTERING. AUDIBLE NOTIFICATION APPLIANCES ARE TO UTILIZE A SETTING AT A MINIMUM OF 87dB. VISUAL NOTIFICATION APPLIANCES SHALL BE CAPABLE OF MULTIPLE CANDELA SETTINGS UP TO 110 CANDELAS.
2. FIRE ALARM MANUAL PULL STATIONS SHALL BE DOUBLE-ACTION TYPE. POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET AND ALL SHOULD BE KEYPED ALIKE.
3. EXTEND NEW WIRING FOR NEW NOTIFICATION DEVICES BACK TO EXISTING NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY. VERIFY EXISTING POWER SUPPLY HAS ENOUGH CAPACITY TO SERVE NEW DEVICES PRIOR TO CONNECTION AND PROVIDE ADDITIONAL POWER SUPPLIES AS REQUIRED. REFERENCE MANUFACTURER'S INFORMATION FOR EXACT WIRING REQUIREMENTS.
4. THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE IN FULL ACCORDANCE WITH NFPA 72, NC STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER APPLICABLE CODES.
5. WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE IES MANUFACTURER AND THAT HAVE BEEN APPROVED BY THE AUTHORITIES HAVING JURISDICTION, AS APPLICABLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES AND LOCATION OF FIRE ALARM DEVICES PRIOR TO SYSTEM INSTALLATION.
7. MOUNT ALL WALL MOUNTED VISUAL UNITS TO NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR.
8. MOUNT ALL MANUAL PULL STATIONS WITHIN 5' OF DOORWAYS AND BETWEEN 42" AND 48" TO CENTER OF DEVICE ABOVE FINISHED FLOOR. MEASUREMENT TO BE VERTICAL.
9. ALL WIRING SHALL BE IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRIC CODE) ARTICLE 760 AND WITH NFPA 72.
10. CONTRACTOR SHALL CHECK ALL RUNS OF CABLE FOR SHORT CIRCUITS OR GROUND, OPEN WIRING, AND SHALL INSTALL AND CHECK ALL RESISTORS TO BE IN PLACE.
11. COORDINATE WITH SPRINKLER CONTRACTOR FOR ALL REQUIRED SPRINKLER SYSTEM CONNECTIONS.
12. ALL FIRE ALARM DEVICES INSTALLED WITHIN THE POOL ENCLOSURE SHALL BE CORROSION RESISTANT.

ELECTRICAL DEMOLITION NOTES:
Dwg # 240133-E1001.DWG

- 1. INFORMATION PROVIDED ON THESE DRAWINGS IS TAKEN FROM FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
2. REMOVE BRANCH CIRCUITS BEING DEMOLISHED BACK TO THE LAST REMAINING DEVICE/FIXTURE OR, IF NONE, THE SOURCE PANELBOARD. ENERGIZE ALL EXISTING DEVICES TO REMAIN THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE". EXISTING CONDUIT AND WIRES SHALL BE PERMITTED TO REMAIN TO THE EXTENT PRACTICABLE.
3. CONTRACTOR SHALL ASSUME ALL LOW VOLTAGE SIGNAL CABLES ARE ACTIVE TO REMAIN UNLESS NOTED OTHERWISE. REPAIR OF REMAINING CABLES DAMAGED DURING WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: [] PERFORMANCE [X] PRESCRIPTIVE
ASHRAE 90.1: [] PERFORMANCE [] PRESCRIPTIVE
LIGHTING SCHEDULE
LAMP TYPE REQUIRED IN FIXTURE
NUMBER OF LAMPS IN FIXTURE
BALLAST TYPE USED IN FIXTURE
NUMBER OF BALLASTS IN FIXTURE
TOTAL WATTAGE PER FIXTURE
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 16,924W VS. 17,668W
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 390W VS. 860W
ADDITIONAL PRESCRIPTIVE COMPLIANCE
[] C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
[X] C406.3 REDUCED LIGHTING POWER DENSITY
[] C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
[] C406.5 ON-SITE RENEWABLE ENERGY
[] C406.6 DEDICATED OUTDOOR AIR SYSTEM
[] C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING



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nc License No. 12308



TOWN OF VALDESE -
DRAUGHT AQUATIC CENTER
STRUCTURE
Valdeese Parks & Recreation
Department
Massel Ave SE
Valdeese, NC 28690
PROJECT: 24-858

Table with 2 columns: DATE, DESCRIPTION

SHEET NAME:

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES

ORIG SUBMISSION: 2024.09.23

CURRENT:

SHEET:

E1.01

DRAWING INDEX

Dwg # 240133-E1001.DWG

Table with 2 columns: E1.01 ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES; E2.01 ELECTRICAL DEMOLITION; E3.01 NEW POWER & SIGNAL; E3.02 NEW LIGHTING; E3.03 NEW HVAC POWER; E4.01 ELECTRICAL SPECIFICATIONS

