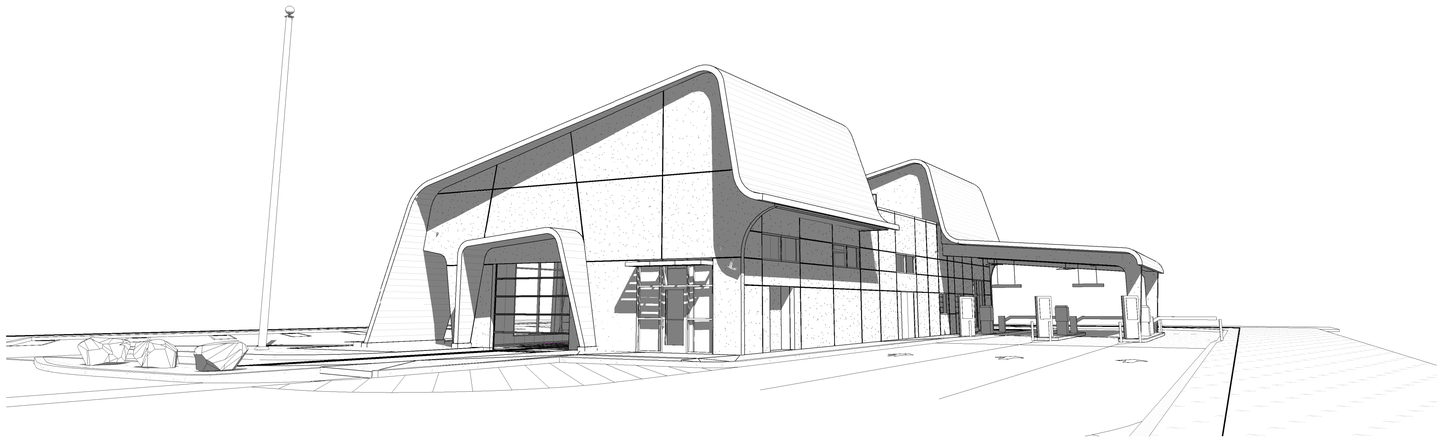
AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761



08/22/24 BID SET

VICINITY MAP



DEVELOPMENT TEAM

PLEASE DO NOT CONTACT CLIENT OR ARCHITECT/ENGINEERS

ALL RFI'S OR INQUIRIES SHOULD BE DIRECTED TO THE GENERAL CONTRACTOR.

GENERAL NOTES

A. DO NOT SCALE DRAWINGS
B. VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION
C. VERIFY ALL DIMENSIONS
D. PROVIDE SOLID FRT WOOD BACKING AT ITEMS PER EQUIPMENT SCHEDULE
E. PROVIDE SEALANT AT ALL LOCATIONS WHERE GYPSUM BOARD MEETS DISSIMILAR MATERIALS
F. PROVIDE SEALANT AT ALL CONCRETE PANEL JOINTS AND BETWEEN ALL BUILDING CONCRETE AND SITE CAST PAVING
G. SEE CIVIL DRAWINGS FOR ASSUMED ELEVATION AT THE OFFICE AREA. REFER TO ARCHITECTURAL SLAB GRADING PLAN FOR INTERIOR SLAB ELEVATIONS.

BIDDERS SCOPE

ANY AND ALL CONTRACTORS SUBMITTING A BID FOR WORK SCOPE REFERENCED OR DESCRIBED IN THIS BID DOCUMENT DRAWING PACKAGE SHALL INCLUDE RELATED WORK FROM ALL ARCHITECTURAL AND ENGINEERING DISPCIPLINES TOGETHER. THIS DRAWING PACKAGE AS A WHOLE CONSTITUTES THE SCOPE OF WORK FOR ALL SUBCONTRACTORS. DO NOT BREAK THE DRAWING PACKAGE INTO SUB-PACKAGES AS THOSE ABBREVIATED PACKAGES WILL CERTAINLY BE MISSING IMPORTANT SCOPE OF WORK INFORMATION.

FOR EXAMPLE, THERE IS ELECTRICAL SCOPE OF WORK THAT IS REFERENCED ON THE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES THAT MUST BE INCLUDED.

EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

DEFERRED SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND INDICATE BY NOTATION THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE AUTHORITIES HAVING JURISDICTION

ITEMS DEFERRED ARE REQUIRED TO HAVE A SEPARATE REVIEW AND APPROVAL. EVERY DEFERRED SUBMITTAL SHALL HAVE SUFFICIENT DRAWINGS, DETAILS AND SUPPORTING DATA TO STAND ON ITS OWN WITHOUT REFERENCE TO PREVIOUSLY APPROVED PLANS. PROVIDE A COMPLETE PACKAGE FOR SUBMISSION OF DEFERRED ITEMS:

1. PRE-CAST HOLLOW CORE ROOF PANEL SHOP DRAWINGS
2. STRUCTURAL STEEL SHOP DRAWINGS
3. PRE-ENGINEERED TRUSS SHOP DRAWINGS

THE FOLLOWING ITEMS REQUIRE SEPARATE PLAN CHECK AND PERMIT, AND ARE NOT DEFERRED SUBMITTALS:

A. EXTERIOR SIGNAGE

DESIGN CRITERIA

BUILDING CODES AS ADOPTED BY THE CITY OF OCOEE, FLORIDA:

FLORIDA BUILDING CODE, 8TH EDITION - AS ADOPTED BY JURISTICTION

PROJECT INFORMATION

THIS PROJECT INCLUDES AN ENCLOSED BUILDING OF 4,542ft², ON A 48,567ft² SITE DEVELOPMENT PLUS RIGHT OF WAY IMPROVEMENTS FOR NEW TUNNEL CAR WASH. PROJECT INCLUDES (18) VACUUM SPACES. ALL CONSTRUCTION IS NON-COMBUSTABLE AND STRUCTURE IS CONCRETE CONSTRUCTION WITH LIGHT FRAME OVERBUILD AREAS SERVING A TUNNEL CAR WASH.

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ARCHITECTURAL	
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A0.4	FOUNDATION STEMWALL COORDINATION PLAN
A1.0	ASSEMBLIES
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A1.2	SLAB AND TRENCH GRADING
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E-6	ELECTRICAL PANEL SCHEDULES
E-7	ELECTRICAL SINGLE LINE DIAGRAM

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24
2	8/22/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

COVER SHEET

SHEET NUMBER:

G0.0

BINDING

BIDDERS SCOPE

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EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

DEMOLITION

1. ALL DEMOLITION IS AS REQUIRED TO ALLOW FOR NEW CONSTRUCTION TO OCCUR. THE CONTRACTOR IS TO PROVIDE AND COORDINATE DEMOLITION AND REPAIR AS NEEDED TO ACHIEVE THE INDICATED NEW CONSTRUCTION RESULTS. THE FULL EXTENT OF THE DEMOLITION SHALL BE AS REQUIRED TO COMPLETE AND ACCOMODATE THE NEW CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ACTUAL DEMOLITION AND REPAIR EXTENT AND PROVIDE THE MEANS AND METHODS REQUIRED TO PROPERLY DEMOLISH AND COMPLETE THE NEW CONSTRUCTION. FAILURE OF THE CONTRACTOR TO FELD VERIFY SHALL NOT RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS TO THE WORK.
3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL WITH THE OWNER PRIOR TO FINALIZING THE BID AND THE START OF ANY WORK.
4. TERMINATE EXISTING UTILITIES AS REQUIRED.
5. ALL MATERIALS WHICH ARE NOT RELOCATED OR RE-USED SHALL BE TURNED OVER TO THE OWNER AT THEIR DISCRETION OR REMOVED FROM THE SITE (WITH THE OWNERS APPROVAL) AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL EXISTING FINISHES, FLOOR COVERINGS, WALL COVERINGS, PAINT, CONCRETE, GRINDING, CORING, CUTTING, ETC. REMOVE AS REQUIRED FOR THE INSTALLATION OF THE NEW FINISHES.

WOOD DOORS

1. UNLESS NOTED OTHERWISE, ALL WOOD DOORS SHALL BE IN CONFORMANCE WITH THE ARCHITECTURAL WOODWORK STANDARDS (AWS), CURRENT EDITION. AS SUPPLEMENTED BY THE WOODWORK INSTITUTE (WI) SUPPLEMENTAL TEXT (WI SERVICES AND QUALITY CONTROL OPTIONS, CURRENT EDITION).
2. ALL WOOD DOORS ARE TO BE PAINT GRADE, HEAVY DUTY PERFORMANCE.
3. UNLESS NOTED OTHERWISE, WOOD DOOR SURFACES SCHEDULE SHALL BE:
   EXPOSED SURFACES - PAINT
   SEMI-EXPOSED - PAINT
   CONCEALED - PAINT

DOORS & WINDOWS

1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITH THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. KEY LOCKING HARDWARE MAY BE USEDON THE MAIN ENTRANCE IN THERE IS A READILY VISIBLE DURABLE SIGN ON OR ADJACENT THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED".
2. DOOR OPERATING DEVICES SHALL BE LEVER OPERATED, PUSH-TYPE OR U-SHAPED HANDLES.
3. THE BOTTOM 12" OF ALL DOORS SHALL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST.
4. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
5. MANUVERING CLEARANCES AT DOORS, MINIMUM MANUVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER ASSISTED SHALL BE AS SHOWN. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.
6. UNLESS NOTED OTHERWISE DOOR CLEARANCES SHALL BE PER AWA AND SDI STANDARDS. FOR RATED DOORS, DOOR CLEARANCES SHALL BE PER NFPA 80.

GYPSUM BOARD

1. REPLACE GYPSUM BOARD WITH MOISTURE RESISTANT GYPSUM BOARD AT ALL WALLS WITHIN 4'-0" OF THE FRONT AND SIDES OF ALL PLUMBING FIXTURES. IF WALL HAS PLYWOOD, USE EXTERIOR RATED PLYWOOD.
2. ALL GYPSUM BOARD WORK TO CONFORM TO THE LATEST PUBLISHED U.S. GYPSUM STANDARD SPECIFICATIONS.
3. UNLESS NOTED OTHERWISE, MEET OR EXCEED LEVEL 4 FINISH IN COMPLIANCE WITH THE GYPSUM ASSOCIATION'S GA-214 "LEVELS OF FINISH FOR GYPSUM PANEL PRODUCTS."

PAINTING

1. ALL ELECTRICAL, CONDUIT, MECHANICAL, PIPING, AND OTHER MISCELLANEOUS ITEMS ARE TO BE PAINTED ONLY AT THE OFFICE AREA.
2. ALL GYPSUM BOARD IS TO BE PRIMED WITH ONE COAT PRIMER / SEALER AND TWO COATS LATEX ENAMEL APPLIED AT A MINIMUM DRY-FILM THICKNESS REQUIRED BY THE MANUFACTURER.
3. SUBMIT SAMPLES OF EACH FINISH, COLOR AND GLOSS TO ARCHITECT, FOR APPROVAL.

WOOD CASEWORK

1. UNLESS NOTED OTHERWISE, ALL ARCHITECTURAL WOOD CASEWORK SHALL BE IN CONFORMANCE WITH THE ARCHITECTURAL WOODWORK STANDARDS (AWS), CURRENT EDITION, AS SUPPLEMENTED BY THE WOODWORK INSTITUTE (WI) SUPPLEMENTAL TEXT (WI SERVICES AND QUALITY CONTROL OPTIONS, CURRENT EDITION).
2. ALL WOOD CASEWORK IS TO BE PREMIUM GRADE, FRAMELESS, EUROSTYLE.
3. UNLESS NOTED OTHERWISE, ARCHITECTURAL WOOD CASEWORK SURFACE SCHEDULE SHALL BE:
   EXPOSED EXTERIOR - HIGH PRESSURE PLASTIC LAMINATE
   EXPOSED INTERIOR - MELAMINE, WHITE - UNO
   SEMI-EXPOSED - MELAMINE, WHITE - UNO
   CONCEALED - MELAMINE, WHITE - UNO
4. WOOD CASEWORK HARDWARE SHALL BE BRUSHED CHROME.
5. UNLESS NOTED OTHERWISE, EDGBANDING SCHEDULE SHALL BE:
   EXPOSED - 3 MILLIMETER PVC, EASED EDGES, COLOR TO MATCH EXPOSED PLASTIC LAMINATE SURFACE.
   SEMI-EXPOSED - 3 MILLIMETER PVC, EASED EDGES, COLOR TO MATCH EXPOSED PLASTIC LAMINATE SURFACE.
6. ALL WOOD CASEWORK WITH SHELVING IS TO BE EQUIPPED WITH 3MM BOREHOLES AT 3" ON CENTER FOR THE HEIGHT OF THE CABINET AND BORELINES ARE TO BE 2" FROM THE FRONT AND BACK OF THE CABINET.
7. ALL CABINETS ARE TO BE CENTERED IN THE LOCATION PROVIDED AND EQUAL FILLER PANELS OF SAME PLASTIC LAMINATE AS BASE CABINETS IS TO BE PROVIDED ON BOTH SIDES OF CASEWORK / MILLWORK.
8. ALL CABINETS, MILLWORK PARTITIONS AND MILLWORK FINISHES ARE TO BE SCRIBED TO ADJACENT SURFACES, WALLS, FLOORS AND CEILINGS.

LAVATORY & MIRRORS

1. HEIGHT AND CLEARANCES : LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE (IF INTEGRAL SINK) NO HIGHER THAN 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF 27 INCHES MINIMUM ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE APRON AND/OR BOTTOM OF LAVTORY BASIN.
2. CLEAR FLOOR SPACE : A CLEAR FLOOR SPACE OF 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH. SUCH CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19 INCHES UNDERNEATH THE LAVATORY.
3. EXPOSED PIPES AND SURFACES : HOT WATER AND DRAIN PIPES UNDERNEATH LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDERNEATH LAVATORIES.
4. FAUCETS, LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY OPERATED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR A MINIMUM OF 10 SECONDS OR DURATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, WHICHEVER DURATION IS LONGER.
5. MIRRORS : MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40 INCHES ABOVE THE FINISH FLOOR. MIRRORS ABOVE LAVATORIES SHALL BE LOCATED NO HIGHER THAN 35 INCHES ABOVE THE FINISH FLOOR.

LIGHT GAUGE FRAMING

1. PARTITION CONSTRUCTION, STUD SIZES, AND STUD THICKNESS SHALL COMPLY WITH ASTM C 754 AND THE REQUIREMENTS OF THE METAL STUD MANUFACTURER'S ASSOCIATION.
2. NON-LOAD BEARING PARTITION HEAD TO STRUCTURE CONNECTIONS : PROVIDE TOP OF WALL CONSTRUCTION TO ACCOMODATE 1/2" MINIMUM DEFLECTION IN THE STRUCTURE.
3. CEILING / SOFFIT JOIST SPANS SHALL COMPLY WITH ASTM C 754 AND THE REQUIREMENTS OF THE METAL STUD MANUFACTURER'S ASSOCIATION.

CONTRACTOR SUBMITTALS

DOCUMENTS FOR SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND INDICATE BY NOTATION THAT THE DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR.

EVERY SUBMITTAL SHALL HAVE SUFFICIENT DRAWINGS, DETAILS AND SUPPORTING DATA TO STAND ON ITS OWN WITHOUT REFERENCE TO PREVIOUSLY APPROVED PLANS. PROVIDE A COMPLETE PACKAGE FOR SUBMISSION OF SUBMITTAL ITEMS

DIV:	DESCRIPTION:	COMMENTS:
03	PRE-CAST HOLLOW CORE ROOF PANEL SHOP DRAWINGS	
03	REBAR SHOP DRAWINGS	
03	FOUNDATION SHOP DRAWINGS FOR FLAGPOLE	DELEGATED DESIGN, COORDINATE WITH FLAGPOLE VENDOR
05	STEEL FABRICATION SHOP DRAWINGS	
05	PRE-ENGINEERED TRUSS SHOP DRAWINGS	
07	EXTERIOR FASCIA & BRAKE METAL SHOP DRAWINGS	
07	METAL ROOFING SHOP DRAWINGS & WARRANTY INFORMATION	
07	SINGLE PLY ROOFING SHOP DRAWINGS & WARRANTY INFORMATION	
07	PENETRATION SEALANTS SPECIFICATIONS	
08	STOREFRONT ENTRANCE, WINDOW, & DOOR SHOP DRAWINGS	
08	HOLLOW METAL FRAME & DOOR SHOP DRAWINGS	
08	GLAZING SHOP DRAWINGS	
08	DOOR HARDWARE & MASTER FACILITY KEYING	
09	ACOUSTIC CEILING CLOUD SHOP DRAWINGS	
09	PHYSICAL SAMPLES OF ALL INTERIOR & EXTERIOR FINISH MATERIALS	TO BE SUBMITTED TO ACHITECT AND OWNER
09	CONCRETE SEALANTS SPECIFICATIONS	
10	TOILET ROOM ACCESSORIES	
10	FIRE EXTINGUISHERS	
10	KNOX BOX	
10	FLAGPOLE	
11	SITE ACCESS GATES	
12	CASEWORK SHOP DRAWINGS	MILLWORK CABINETS, FRONT DESK, BANQUETTE SEATING, HARDWARE AND ACCESSORIES
12	WALL MOUNTED ADJUSTABLE SHELVES	
12	ENTRANCE MAT	
22	PLUMBING FIXTURES	
22	PIPING SYSTEMS, FITTINGS, & ACCESSORIES	
23	MECHANICAL UNITS	
23	MECHANICAL DUCTWORK & ACCESSORIES	
26	ELECTRICAL GEAR	
26	LIGHT FIXTURES & OTHER ELECTRICAL DEVICES...	
26	SITE LIGHTING	
27	SPEAKERS	
32	PAVEMENT STRIPING SHOP DRAWINGS	DELEGATED DESIGN, COORDINATE LAYOUT WITH OWNER
32	BOLLARD COVERS	
32	ARTIFICIAL ROCK FABRICATIONS	
33	CONCRETE TANK SHOP DRAWINGS	
33	PRECAST UNDERGROUND UTILITY STRUCTURES	
33	UNDERGROUND STOMWATER DETENTION SYSTEM SHOP DRAWINGS	

ABBREVIATIONS

A	ACOUSTICAL	JB	JAMB
A/C	AIR CONDITIONING	JNT	JOINT
ACT	ACOUSITCAL CEILING TILE		
ACST	ACOUSTICAL	M	MELAMINE
ADDM	ADDENDUM	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
ALLOW	ALLOWANCE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
ALUM	ALUMINUM	MFR	MANUFACTURER
APPROX	APPROXIMATE	MIN	MINIMUM
		MR	MOISTURE RESISTANT
BLDG	BUILDING		
BLK	BLOCK	NIC	NOT IN CONTRACT
BRK	BRICK	NTS	NOT TO SCALE
BU	BUILT-UP	NO	NUMBER
BW	BOTH WAYS		
		OC	ON CENTER
CDS	CASEWORK DESIGN SERIES (REFERENCE ARCHITECTURAL WOODWORK STANDARDS)	OD	OUTSIDE DIAMETER
		O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CJ	CONTROL JOINT		
CLG	CEILING	OFD	OVERFLOW DRAIN
COMP	COMPACTED/COMPOSITE	O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
CONC	CONCRETE	OPNG	OPENING
C.F.C.I.	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	P	PAINT
C.F.O.I.	CONTRACTOR FURNISHED, OWNER INSTALLED	PGB	PAINTED GYPSUM BOARD
		PL	PLASTIC LAMINATE
CONST	CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PNTD	PAINTED
CONTR	CONTRACTOR	PR	PAIR
CW	COORDINATE WITH	PT	PAINT
DF	DRINKING FOUNTAIN	RAD	RADIUS
DIA	DIAMETER	RB	RUBBER BASE
D/W	DISHWASHER	RD	ROOF DRAIN
DIM	DIMENSION	RCP	REFLECTED CEILING PLAN
DISP	DISPOSAL	REF	REFRIGERATOR
DN	DOWN	REG	REGULAR
DTL	DETAIL	REINF	REINFORCED/REINFORCING
DWG	DRAWING	REQD	REQUIRED
		REV	REVISED
EA	EACH	RM	ROOM
EXF	EXHAUST FAN	RO	ROUGH OPENING
EJ	EXPANSION JOINT	RS	ROUGH-SAWN
ELEC	ELECTRIC/ELECTRICAL		
ELEV	ELEVATION	SC	SOLID CORE
EQ	EQUAL	SCHED	SCHEDULE
ES	EXIT SIGN	SHT	SHEET
EXIST	EXISTING	SIM	SIMILAR
EXT	EXTERIOR	SPEC	SPECIFICATION
		SS	SOLID SURFACE
FD	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
FE	FIRE EXTINGUISHER	STOR	STORAGE
FEC	FIRE EXTINGUISHER CABINET	STRUC	STRUCTURAL
FFE	FURNITURE, FIXTURES, & EQUIPMENT	SYS	SYSTEM
FFLR	FINISHED FLOOR		
FIN	FINISH	T&B	TOP AND BOTTOM
FLR	FLOOR	T&G	TONGUE AND GROOVE
FOF	FACE OF FINISH	TO	TOP OF
FOS	FACE OF STUD	TOF	TOP OF FOOTING
FR	FIRE RATED	TOW	TOP OF WALL
FTG	FOOTING	TPTB	TREATED PLYWOOD TERMINAL BOARD
FURN	FURNITURE	TYP	TYPICAL
		TS	TUBE STEEL
G	GAS, UNLESS NOTED OTHERWISE		
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GI	GALVANIZED IRON	VCT	VINYL COMPOSITE TILE
GRD	GRADE	VERT	VERTICAL
GWB	GYPSUM BOARD		
		W	WATER, UNO
HB	HOSE BIBB	W/	WITH
HDR	HEADER	WD	WOOD
HM	HOLLOW METAL	WP	WATERPROOF
HORZ	HORIZONTAL	WR	WATER RESISTANT
		WWF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER	WWM	WELDED WIRE MESH
INSUL	INSULATION		
INT	INTERIOR		
IRRG	IRRIGATION		

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS THAT ARE REQUIRED BEFORE AND DURING THE CONSTRUCTION PROCESS PRIOR TO THE COMMENCEMENT OF ANY WORK, AND SHALL BE REQUIRED TO CONTACT THE PROPER AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL CAREFULLY READ, STUDY, AND UNDERSTAND ALL PLANS AND SPECIFICATIONS FOR TRADES. COORDINATION BETWEEN TRADES WILL BE NECESSARY AND THE RESPONSIBILITY OF THE CONTRACTOR. ANY QUESTIONS THAT ARISE SHALL BE CLARIFIED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
3. CONTRACTOR WILL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE AND WILL COORDINATE WORK PERFORMED BY ALL TRADES.
4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DISCREPANCIES ARE TO BE CLARIFIED WITH THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR WILL NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS WILL GOVERN.
6. THE ARCHITECTS APPROVAL MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CHANGES IN DIMENSIONS, DESIGN, MATERIALS, PRODUCTS, AND FINISHES. IN NO CASE MAY THE CONTRACTOR MAKE THESE CHANGES WITHOUT THE APPROVAL OF THE ARCHITECT.
7. SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR REVIEW. COORDINATE WITH ADDITIONAL GENERAL NOTES, ENERGY CONSERVATION NOTES, AND STRUCTURAL NOTES.
8. ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO THE **FLORIDA BUILDING CODE, 8TH EDITION**, AND ALL AMENDMENTS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
9. IN NO EVENT SHALL THE CONTRACTOR SUBSTITUTE AN "INDUSTRY STANDARD" CONSTRUCTION DETAIL FOR A DETAIL SPECIFIED IN THESE DOCUMENTS. THE CONTRACTOR SHALL BRING ALL WORK INTO CONFORMITY WITH THE CONSTRUCTION DOCUMENTS, AS THE ARCHITECT ORDERS, BEFORE APPROVAL OF THAT CONSTRUCTION WILL BE GRANTED. NOTES AND DETAILS ON THE DRAWINGS WILL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
10. PROVIDE A CONTINUOUS BEAD OF ELASTOMERIC SEALANT OR APPROPRIATE CAULKING MATERIAL AT ALL BETWEEN SIMILAR AND DISSIMILAR MATERIALS.
11. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL EQUIPMENT, PANEL LOCATIONS, WIRING DIAGRAMS, AND FIXTURE LOCATIONS. COORDINATE ANY RELATED WORK WITH GENERAL ELECTRICAL NOTES AND ELECTRICAL FIXTURE SCHEDULES.
12. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT, DUCT WORK, MECHANICAL PIPING, AND EXHAUST. COORDINATE ANY RELATED WORK WITH GENERAL MECHANICAL NOTES, SCHEDULES, AND DETAILS.
13. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING EQUIPMENT, FIXTURES, AND RELATED PIPING. I.E.: STORM SEWER, SANITARY SEWER, AND DOMESTIC WATER SUPPLY. COORDINATE ANY RELATED WORK WITH GENERAL PLUMBING NOTES, SCHEDULES, AND DETAILS.
14. CONTRACTOR AND ALL SUBCONTRACTORS WILL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE FLORIDA BUILDING CODE (CODE ADOPTED AT TIME OF ISSUANCE OF PERMIT, (OR LATEST ACCEPTED CODE ADOPTED BY THE AUTHORITIES HAVING JURISDICTION). THE CONTRACTOR WILL COORDINATE ALL REQUIRED INSPECTIONS, INCLUDING INSPECTIONS BY THE OWNER, ARCHITECT(S) AND ENGINEERS AND WILL NOT PROCEED WITH WORK UNTIL THE REQUIRED INSPECTIONS HAVE BEEN COMPLETED.
15. ANY SPECIAL INSPECTION REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE ARE NOT THE RESPONSIBILITY OF THE ARCHITECT.
16. CONTRACTOR WILL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE PROJECT SITE.
17. DURING CONSTRUCTION OPEN EXCAVATIONS AND TRENCHES WILL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
18. TEMPORARY BRACING WILL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND, LATERAL, LIVE AND DEAD LOADS. SUCH BRACING WILL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
19. PROVIDE AN OBVIOUS SHUT-OFF VALVE IN READILY ACCESSIBLE LOCATION FOR ALL PLUMBING WATER AS REQUIRED, COORDINATE WITH PLUMBING. ANY AND ALL VALVES ARE NOT TO BE CONCEALED IN ANY CONSTRUCTION WITHOUT ACCESS PANELS. PROVIDE BACKFLOW PREVENTION DEVICES AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
20. ACCESS PANELS ARE NOT TO BE LOCATED IN GYPSUM BOARD AREAS, AND ACCESS PANELS LOCATED IN WALLS ARE TO BE COORDINATED WITH THE RESPECTIVE WALL FINISHES AND ARE TO BE WHOLLY CONTAINED WITHIN THE ONE WALL FINISH AND BE PRE-FINISHED TO MATCH ADJACENT WALL FINISH.
21. UNLESS NOTED OTHERWISE, FINISH GRADE TO SLOPE AWAY FROM STRUCTURE AT 2%. COORDINATE ACTUAL GRADING WITH CIVIL.
22. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR TO FACE OF FOUNDATION WALL (FOFNDN), UNLESS NOTED OTHERWISE.
23. ALL WOOD IN CONTACT WITH CONCRETE, SHALL BE TREATED, ALL WOOD AT GRADE OR BELOW GRADE SHALL BE TREATED.
24. COORDINATE WITH FRAMING PLANS FOR LOCATIONS OF COLUMNS, BEAMS, MOMENT FRAMES, ETC. PROVIDE ADDITIONAL FURRING OR FRAMING TO ALLOW FOR INSTALLATION OF NEW MATERIALS, ELEMENTS AND SYSTEMS.
25. VISITS TO THE JOB SITE BY THE ARCHITECT OR HIS CONSULTANTS DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. ANY SUCH VISITS ARE SOLELY FOR THE PURPOSE OF OBSERVING THE WORK BEING PERFORMED.
26. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL PLUMBING FIXTURES UP TO 4'-0" FOR FULL LENGTH OF WALL WHICH PLUMBING FIXTURES ARE LOCATED, COORDINATE WITH PLUMBING.
27. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR THE COORDINATION OF WORK AND FOR THE WORK PERFORMED BY THE SUBCONTRACTORS.
28. MAINTAIN THE INTEGRITY OF ALL EXISTING BUILDING SYSTEMS, ASSEMBLIES, AND RATINGS. REPAIR ANY DAMAGE DONE TO SURROUNDING AREAS DURING CONSTRUCTION.
29. ALL EXISTING CONDITIONS ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL CAREFULLY EXAMINE THE EXISTING INSTALLATION AND ALL PROJECT DRAWINGS TO BECOME FAMILIAR WITH THE SCOPE OF WORK. NO ADDITIONAL CHARGES WILL BE ALLOWED DUE TO THE LACK OF PRE-BID SITE EXAMINATION. PROVIDE NOTIFICATION TO THE ARCHITECT AND OWNER OF ANY WORK WHICH NEEDS FURTHER CLARIFICATION OR MAY RESULT IN CHANGE TO THE PROPOSED WORK PRIOR TO COMMENCING CONSTRUCTION.
30. STORAGE OF COMBUSTIBLE RUBBISH CONTAINERS SHALL NOT BE CLOSER THAN 5 FEET OF COMBUSTIBLE CONSTRUCTION WALLS, ROOF OVERHANGS, WINDOWS, VENT OPENINGS AND UTILITIES.
31. TYPICAL OR 'TYP' SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS NOTED OTHERWISE.
32. CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE CLEAN AND FREE OF DEBRIS THROUGHOUT THE CONSTRUCTION PROCESS.
33. WORK AREAS SHALL REMAIN SECURE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE, WHERE NECESSARY, TEMPORARY LOCKABLE DOORS TO PROVIDE THE TENANT CONSTANT ACCESS TO SPACES NOT UNDER CONSTRUCTION. CONTRACTOR SHALL PROVIDE TENANT WITH KEYS FOR TEMPORARY DOORS, IF REQUESTED.
34. SIMILAR OR 'SIM' MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.
35. THE CONTRACTOR SHALL VERIFY THAT DRAWINGS ARE THE LATEST ISSUE PRIOR TO COMMENCING CONSTRUCTION.
36. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
37. IN THE CASE OF CONFLICT BETWEEN NOTES ON DRAWINGS IN THIS SET INCLUDING ALL PLANS, ELEVATIONS, AND DETAILS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. REQUEST CLARIFICATION FROM THE ARCHITECT IN ALL SUCH CASES.
38. THE CONTRACTOR SHALL CLEAN ALL SPACES INCLUDING BUT NOT LIMITED TO WINDOWS, WINDOW COVERINGS, FLOORS, WALL, CASEWORK, AND OTHER SURFACES IMMEDIATELY PRIOR TO OWNER OCCUPANCY.
39. ALL STEEL, INCLUDING ANCHORAGE, IN CONTACT WITH OR BELOW GRADE SHALL BE PAINTED WITH AND COATED TO 60 MILS. WITH MASTIC, AND SHALL BE FINISH PAINTABLE ABOVE GRADE.
40. CONTRACTOR IS RESPONSIBLE FOR ALL SAWCUTTING, CORING, AND WELDING AS REQUIRED, AND MAKE ALL ASSOCIATED REPAIRS, TO ALLOW FOR NEW CONSTRUCTION.
41. CONTRACTOR IS TO PROVIDE SOLID AND CONTINUOUS BACKING OF SAME MATERIAL, SIZE, TYPE, THICKNESS, SHAPE, GAUGE AS WALL CONSTRUCTION AT A MINIMUM OF 1/4 POINTS OF HEIGHT FOR ALL ELEMENTS IN CONTACT WITH WALLS.
42. A CLEAR, UNOBSTRUCTED AND OBVIOUS EXIT PATH SHALL BE MAINTAINED AT ALL TIMES. FIRE PATH SHALL BE MAINTAINED. WORK SHALL OCCUR ONLY DURING HOURS AUTHORIZED IN ADVANCE BY OWNER.
43. CONTRACTOR SHALL MAINTAIN EXITING DURING BUILDING HOURS OF OPERATION.
44. NO SUBSTITUTIONS ALLOWED WITHOUT ARCHITECTS APPROVAL.

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
PO BOX 1545
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

GENERAL NOTES

SHEET NUMBER:

G0.1

BINDING

COMcheck Software Version 4.1.5.5

Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Aquasonic Ocoee N Colonial Dr
Location:	Ocoee, Florida
Climate Zone:	2a
Project Type:	New Construction
Vertical Glazing / Wall Area:	17%

Construction Site:
9701 W Colonial Dr
Ocoee, FL 34761

Owner/Agent:
HCW MCO NCO, LP
700 S Rosemary Ave, Suite 204-112
West Palm Beach, FL 33401

Designer/Contractor:
Joshua Howa
Spotless Wash Solutions USA
PO Box 5456
Twin Falls, ID 83301
208-841-4524
josh@spotlesswashsolutions.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1-Conditioned Office Space (Office) : Nonresidential	752

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance Index = 64.00 (d), [Bldg. Use 1 - Conditioned Office Space]	752	---	19.0	0.051	0.039
Floor: Slab-On-Grade:Heated, Vertical 2 ft., [Bldg. Use 1 - Conditioned Office Space] (c)	108	---	12.0	0.884	0.690
NORTH					
Ext. Wall: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Conditioned Office Space]	672	15.0	12.0	0.052	0.151
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	115	---	---	0.650	0.500
Door: Glass (over 50 Glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	21	---	---	0.650	0.830
EAST					
Ext. Wall: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Conditioned Office Space]	185	15.0	12.0	0.052	0.151
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	71	---	---	0.650	0.500
Door: Glass (over 50 Glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	21	---	---	0.800	0.830

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
SOUTH					
Ext. Wall: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Conditioned Office Space]	672	15.0	12.0	0.052	0.151
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	44	---	---	0.650	0.500
Door: Glass (over 50 Glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID product label, SHGC 0.30, PF 0.50, [Bldg. Use 1 - Conditioned Office Space] (b)	21	---	---	0.650	0.830
WEST					
Ext. Wall: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Conditioned Office Space]	185	15.0	12.0	0.052	0.151
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Conditioned Office Space]	21	---	---	0.600	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) High albedo roof requirement options: 1) 3-year aged solar reflectance index >= 55.0 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 16% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

I) Project Description:

General: This project includes a 48,567 SF (~1.1 acre) site development plus right of way improvements.

II) Applicable Codes / Ordinances

A) Florida Building Code, 8th Edition - Building
B) Florida Building Code, 8th Edition - Accessibility
C) Florida Building Code, 8th Edition - Energy Conservation
D) Florida Building Code, 8th Edition - Mechanical
E) Florida Building Code, 8th Edition - Plumbing
F) Florida Building Code, 8th Edition - Fuel Gas

III) Enforcing Agencies

A) City of Ocoee Planning & Zoning
B) City of Ocoee Building Department
C) City of Ocoee Fire Department

IV) Site Information / Description

A) Address:
9701 W Colonial Drive
Ocoee, FL 34761
1) Lot is NW of the intersection of W Colonial Drive and S Clarke Rd.
B) Parcel Number: 21-22-28-6328-00-070
C) Current Site Description and Use: Vacant/Undeveloped

V) Municipal Code / Zoning Criteria

A) Zoning: PUD-COMM
1) Car Wash is an Automotive Wash (Auto Washing, Polishing, Detailing) and a permitted use.
2) Height: 1 Story (30.92').
3) Internal Setbacks:
(a) Front (East): 25' Required, 77.5' Proposed
(b) Side (North): 10' Required, 21.2' Proposed
(c) Side (South): 10' Required, 92.1' Proposed
(d) Rear (West): 10' Required, 49.2' Proposed

4) Parking: Proposed (1) accessible stall, included as one of (18) vacuum stalls. Customers use vacuum service bays as parking.

VI) Building Analysis Based on Florida Building Code

A) Use and Occupancy Classification (FBC Chapter 3)
1) Use Classification: Group B: Business (304.1).

B) General Heights and Building Areas (FBC Chapter 5)
1) Allowable Height: 2 Stories, 40 Feet (FBC Table 504.3)
(a) Proposed Height: 31'
2) Equipment Platforms: (Section 505.3)
(a) Not considered as a portion of the floor below.
(b) Do not contribute to either the building area or the number of stories.
(c) Not included in determining the fire area in accordance with Section 903.
(d) Walkways, stairways, alternating tread devices and ladders providing access to an equipment platform shall not serve as a part of the means of egress from the building.
3) Allowable Building Area (per floor): 9,000 SF basic before area increases due to setbacks (Inside face of exterior walls) (FBC Table 506.2)
(a) Proposed Building Area: 4,338sf net (Inside face of exterior walls)

C) Types of Construction: (FBC Chapter 6)
1) Construction Classification:
(a) FBC: Type V-B
(b) At times, fire hydrant requirements are more restrictive and re-classification is warranted. Conversation with the Fire Marshal should be had at the beginning of the project to discuss.
2) Fire Resistance Ratings: (Type V-B, FBC Table 601 & 705.5)

Primary Structural Frame:	0 Hour
Bearing Walls (Exterior & Interior):	0 Hour (none proposed)
Nonbearing Walls, Exterior (Table 602):	0 Hour (10' or more separation)
	1 Hour (less than 10' separation)
Nonbearing Walls, Interior:	0 Hour

Floor Construction and Secondary Members:	0 Hour
Roof Construction and Secondary Members:	0 Hour

D) Fire-Resistance Rated Construction: (FBC Chapter 7)
1) Exterior Walls: The fire separation distances from interior lot line and street centerlines exceed Table 705.5requirements at all sides of the building. No exterior walls are required to be rated.
(a) Allowable Area of Openings: On all sides of building, the fire separation distances exceed 30' and therefore no openings require protection and are not limited in area.
(b) Vertical Separation of Openings: Not applicable.
(c) Parapets (705.11): Per exception 1, parapets are not required per fire separation distance.
2) Fire Walls: No fire walls are anticipated.
3) Fire Barriers: No fire barriers are anticipated.
4) Fire Partitions: No fire partitions are anticipated.
5) Smoke Barriers: No smoke barriers are anticipated.
6) Smoke Partitions: No smoke partitions are anticipated.
7) Horizontal Assemblies: No horizontal rated assemblies are anticipated.

E) Interior Finishes: (FBC Chapter 8)
1) Interior Wall and Ceiling Finish Requirements (Table 803.11 – Nonsprinklered): Interior wall and ceiling finish materials shall be classified in accordance with ASTM E 84 or UL 723 and shall be Class A, B or C flame spread index and smoke-developed index of 0-450 for this project.
(a) Use class C or better materials throughout. Building does not contain corridors, exit enclosures, exit passageways or other area subject to Class A or B material requirements.

F) Fire Protection Systems: (FBC Chapter 9)
1) Automatic Sprinkler Systems (Section 903): Sprinkler systems are not required for this project. There are no specific requirements for single-story Business occupancy with Type V-B construction.
2) Portable Fire Extinguishers (Section 906):
(a) Building to contain Class A fire Hazards / Light (low) Hazard Occupancy.
(b) Two fire extinguishers are required, 3 are provided.
(c) Maximum travel distance to extinguisher is 75'.

(d) Minimum rating per extinguisher is 2-A.
3) Fire Alarm and Detection Systems (Section 907):
(a) Group B Areas: Not required per Section 907.2.2 because building does not contain any of three conditions listed.

G) Means of Egress: (FBC Chapter 10)
1) General Means of Egress: (FBC Section 1003)
(a) Ceiling Height: 7'-6" minimum.

2) Occupant Load: (FBC Table 1004.5)

Accessory Storage, Mechanical, Equipment: Equipment, Electrical, Work	1/300 GSF
Business Areas: Control, Toilet, Manager, Break, Hall	1/100 GSF

(a) Occupant Load: (section 1004)
(i) Business Areas: 766 GSF = 7 Occupants
(ii) Accessory Storage, Mechanical, Equipment Areas: 1,111 GSF = 4 Occupants
(iii) Drive-through Tunnel: 2,461 GSF = ** Omitted from Occupancy Calculation
(iv) Calculated Occupant Load = 11 Occupants.
(v) **Proposed Occupant Load = ** 11 Occupants**
(vi) ** The drive-through wash tunnel is omitted because it functions like any other non-covered drive through facility that does not get added to occupant load determinations.

3) Means of Egress Sizing (Section 1005):
(a) The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch per occupant.
(b) The minimum width, in inches (mm), of any means of egress components shall be not less than that specified for such component, elsewhere in this code.

4) Spaces with one Exit (Section 1006.2):
(a) Maximum occupant load: 49
(b) Maximum common path of egress travel distance: 100'.

5) Means of egress illumination: (Section 1008)
(a) Provide minimum 1 foot-candle at walking surface.

6) Accessible Means of Egress (Section 1009):

(a) Accessible means of egress shall be provided in accordance with the applicable sections of the Florida Building Code, Accessibility.

7) Doors, Gates and Turnstiles: (Section 1010)
(a) Provide a clear width of 32": 36" minimum width doors provided throughout.
(b) Egress doors shall be side hinged swinging type.
(c) Door opening force: 5lb. max. for egress doors except fire rated doors; other doors 15lb. max.
(d) Thresholds: ½" max., typical.
(e) Series Doors: 48" minimum clearance plus the width of a door between doors.

8) Stairways: (Section 1011)
(a) Ladders: (Section 1011.16)
(i) Not part of the means of egress from occupied spaces.
(ii) Constructed in accordance with the Section 306.5 of FBC, Mechanical
(iii) Permitted to provide access to:
(1) Spaces frequented only by personnel for maintenance, repair, or monitoring of equipment.
(2) Nonoccupiable spaces accessed only by catwalks, crawl spaces, freight elevators, or very narrow passageways.
(3) Nonoccupied roofs that are not required to have stairway access.

9) Ramps: (Section 1012)
(a) 1:12 max – 8% slope.
(b) Guards are not required if ramp is less than 30".

10) Exit Signs: (Section 1013)
(a) Required at exits and exit access doors in the direction of egress travel.
(i) Not required at spaces only requiring one exit.
(b) Must be illuminated and maintain power for 90 minutes after power loss.

11) Guards: (Section 1015)
(a) Required at open-sided walking surfaces, including mezzanines, equipment platforms, aisles, stairs, ramps and landings that are located more than 30 inches measured vertically to the floor or grade below at any point within 36 inches horizontally to the edge of the open side.
(b) Shall not be less than 42 inches high from adjacent walking surfaces.
(c) In areas that are not open to the public and for alternating tread devices and ship's ladders, guards shall not have openings that allow for passage of a sphere 21 inches in diameter. (1015.4 exception 4)

12) Exit Access: (Section 1016)
(a) Egress from a room or space shall not pass through adjoining rooms except when they are accessory to one another and provide a discernable path of egress.

13) Exit Access Travel Distance: 200' (FBC Table 1017.2, Group B)

14) Aisles: (Section 1018)
(a) Minimum clear aisle width not less than required for corridors (Section 1020).
(b) Nonpublic aisles serving less than 50 people and not required to be accessible by Chapter 11 need not exceed 28 inches in width.

15) Corridors: (Section 1020)
(a) Minimum corridor width (Table 1020.3): 36 (OL < 50)

16) Exits: (Section 1022)
(a) Exterior exit doors shall lead directly to the exit discharge or the public way.

17) Exit Discharge (Section 1028): Exits shall discharge directly to the exterior of the building and shall be at grade or shall provide direct access to grade.
(a) Capacity: Shall be the required discharge capacity of the exits being served.
(b) The exit discharge shall provide direct and unobstructed access to a public way.

STAMP:
STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS
DATE

AQUASONIC CAR WASH
9701 W COLONIAL DRIVE, OCOEE FL 34761

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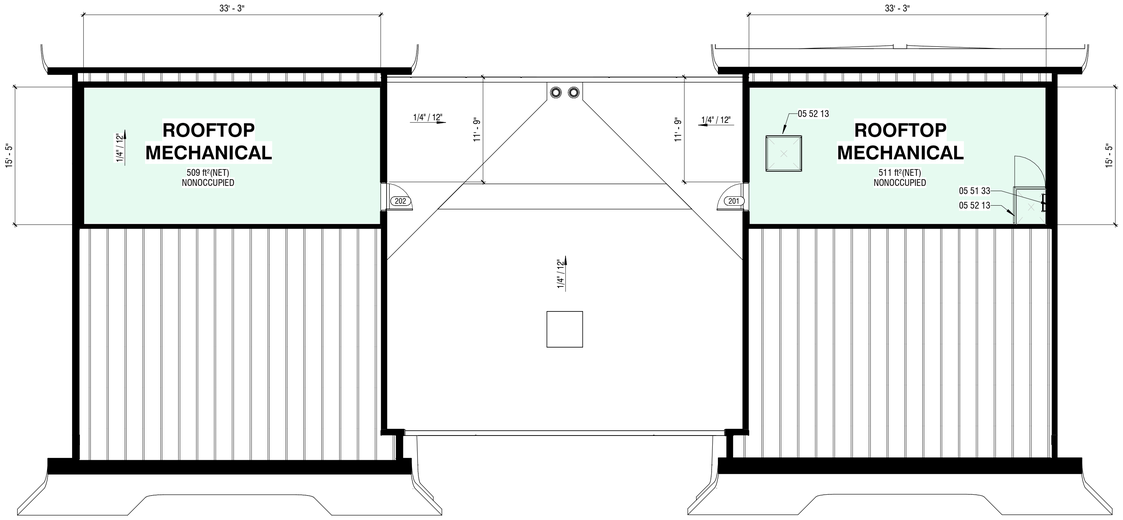
SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
PO BOX 5456
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

CODE DATA / IECC COMCHECK

SHEET NUMBER:
G0.2

BINDING



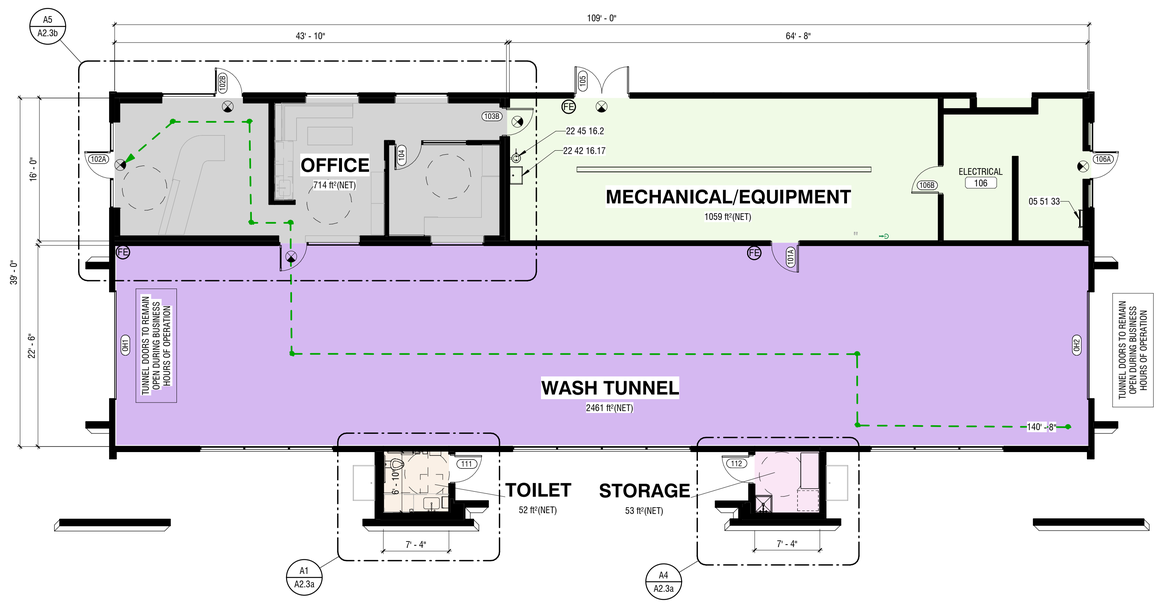
B1 NONOCCUPIED ROOFTOP MECHANICAL

0' 4' 8' 16'

NORTH

CODE AREAS

- MECHANICAL/EQUIPMENT
- OFFICE
- STORAGE
- TOILET
- WASH TUNNEL
- ROOFTOP MECHANICAL



A1 LIFE SAFETY PLAN - MAIN FLOOR LEVEL

1/8" = 1'-0"

0' 4' 8' 16'

NORTH

CODE SUMMARY

FLORIDA BUILDING CODE, 8TH EDITION

SINGLE MAJOR OCCUPANCY WITH INTEGRAL ACCESSORY OFFICE AREA

OCCUPANCY CLASSIFICATION (304):
GROUP B (CAR WASH), NOT SPRINKLERED, NO FIRE ALARM

BUILDING HEIGHTS & AREAS (504, 506):
GROUP B / TYPE VB: 2 STORIES / 9,000 SF
PROPOSED: 1 STORY / 4,542 SF (GROSS FOOTPRINT)

CONSTRUCTION TYPE (601): TYPE VB:
EXTERIOR WALLS: PRECAST CONCRETE
INTERIOR WALLS: LIGHT-FRAME CONSTRUCTION

OCCUPANCY SEPARATION (508): NONE REQUIRED

FIRE ALARM: NONE REQUIRED

OCCUPANT LOAD (1004):
CAR WASH TUNNEL (2,461 SF): UNOCCUPIED = 0
BUSINESS AREAS (714 SF): 100 SF PER OCC (GROSS) = 7
EQUIPMENT AREAS (1,111 SF): 300 SF PER OCC (GROSS) = 4
TOTAL BUILDING OCCUPANT LOAD: **11**

ONE EXIT SPACES (1006):
MAX OCCUPANT LOAD: 49
MAX COMMON PATH TRAVEL DISTANCE: 75'

TRAVEL DISTANCE (1017): 200' MAX TO NEAREST EXIT

GENERAL NOTES

A. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
B. SEE SHEET G0.1 FOR GENERAL NOTES

KEYNOTES

MARK:	DESCRIPTION:
05 51 33	STEEL LADDER WITH 2 1/2" RAILS AND 1" DIA. RUNGS. PROVIDE 7" MINIMUM TOE CLEARANCE BETWEEEN WALL AND LADDER RUNGS, AND STEEL WALL CONNECTION BRACKETS AT 60" OC MAX.
05 52 13	STEEL PIPE AND TUBE RAILINGS
22 42 16.17	HOUSEKEEPING SINK
22 45 16.2	EMERGENCY EYE WASH

LEGEND

EXIT SIGN, SEE ELECTRICAL

FE FIRE EXTINGUISHER LOCATION

BUILDING AREA (GROSS)

NAME:	AREA:
WASH BUILDING	4542 ft²
TOTAL AREA:	4542 ft²

AREA - OVERALL (NET)

NAME:	AREA:
OFFICE	714 ft²
TOILET	52 ft²
WASH TUNNEL	2461 ft²
MECHANICAL/EQUIPMENT	1059 ft²
STORAGE	53 ft²
TOTAL AREA:	4338 ft²

AREA - WASH TUNNEL

NAME:	AREA:
WASH TUNNEL	2461 ft²
TOTAL AREA:	2461 ft²

AREA - BUSINESS

NAME:	AREA:
OFFICE	714 ft²
TOILET	52 ft²
TOTAL AREA:	766 ft²

AREA - ACCESSORY

NAME:	AREA:
MECHANICAL/EQUIPMENT	1059 ft²
STORAGE	53 ft²
TOTAL AREA:	1111 ft²

STAMP:

STATE OF FLORIDA
JOSHUA HOWARD
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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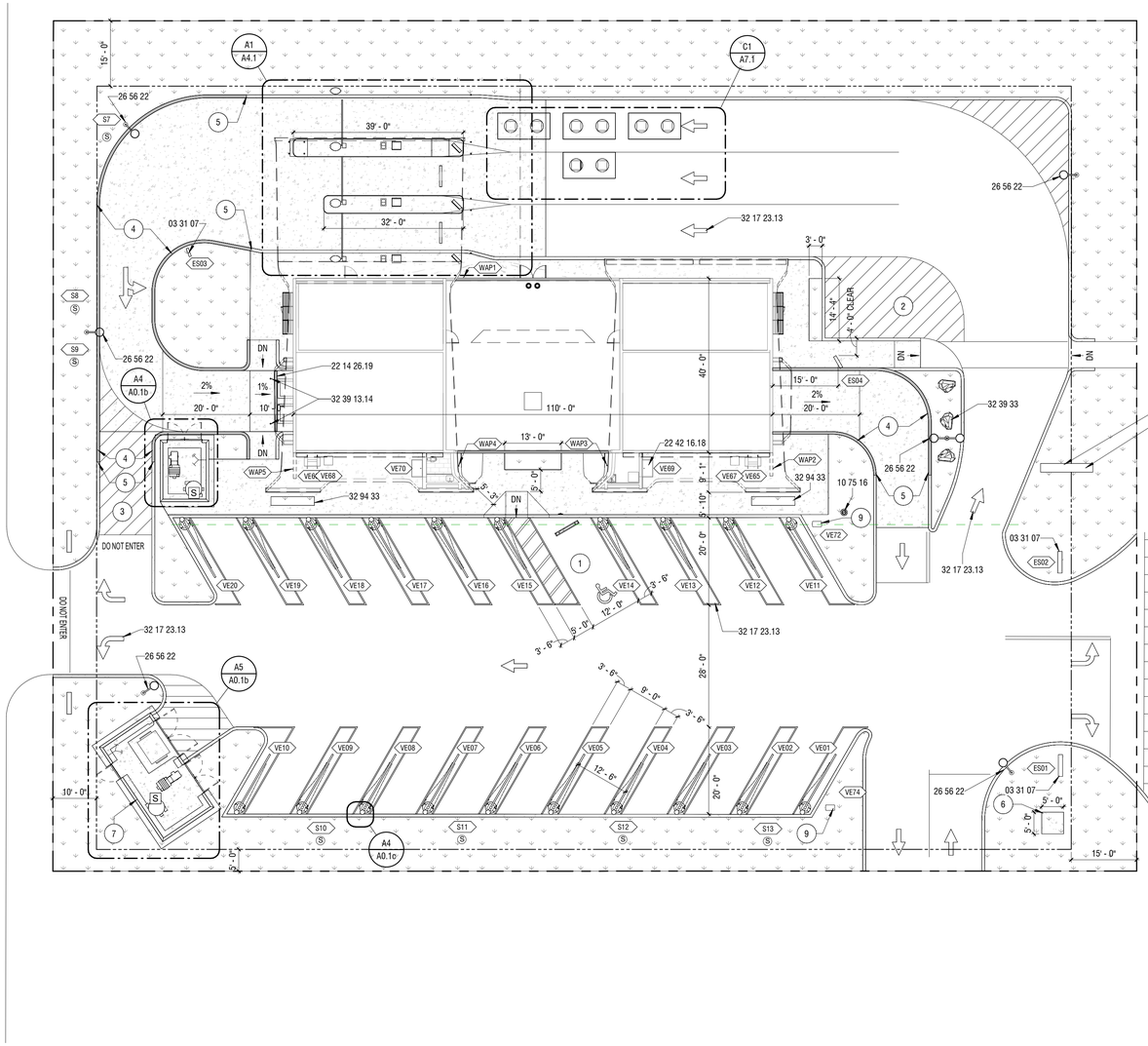
CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

LIFE SAFETY

SHEET NUMBER:

G0.3

BINDING



A1 SITE PLAN
1/16" = 1'-0"

0' 8' 16' 32'

TRUE NORTH PROJECT NORTH

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

GENERAL NOTES

A. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.

B. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.

C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST & RECIEVE VACUUM SYSTEM DRAWINGS FROM OWNER AND INCORPORATE AS A CONTRACT DOCUMENT FOR THIS PROJECT. DO NOT PROVIDE A BID OR COMMENCE WITH WORK UNTIL THIS HAS BEEN RECEIVED.

D. UNLESS NOTED OTHERWISE SLOPE GRADE 2% AWAY FROM BUILDING WITHIN 10' OF BUILDING, THEN MAXIMUM 5% TO MATCH EXISTING GRADE ELEVATIONS. SLOPE ALL WALKING SURFACES MAXIMUM 5% IN THE DIRECTION OF TRAVEL AND MAXIMUM 2% AT LANDING, CHANGE OF DIRECTION, AND PERPENDICULAR TO DIRECTION OF TRAVEL.

E. FOLLOW CIVIL & GEOTECHNICAL REPORT REQUIREMENTS FOR PAVEMENT SECTIONS AND SUBGRADE PREPARATION. DO NOT PROCEED WITH BID OR PERFORMANCE OF WORK WITHOUT THIS INFORMATION.

F. SEE LANDSCAPE PLANS FOR PLANTING AND IRRIGATION REQUIREMENTS.

G. SEE CIVIL DRAWINGS FOR EROSION AND SEDIMENTATION CONTROL, GRADING, DRAINAGE, PRIVATE AND PUBLIC UTILITIES, SITE STRUCTURES, SITE DETAILS, AND PAVEMENT SECTIONS.

H. ALL WORK TAKES PLACE DURING A SINGLE AND ONLY PHASE OF THE PROJECT.

I. NOT ALL UNDERGROUND PIPING AND CONDUITS FROM BUILDING TO RECLAIM TANKS IS IDENTIFIED ON THIS SHEET. SEE **A1.3** AND **A7.1** FOR ADDITIONAL REQUIREMENTS.

SITE INFORMATION

ADDRESS :	9701 W COLONIAL DRIVE OCOEE, FL 34761
ZONING :	PUD-COMM
SITE AREA :	48,567 SF
BUILDING AREA:	4,529 GSF (GROSS FOOTPRINT)
BUILDING HEIGHT:	32' 11" FT
SETBACKS:	
FRONT:	25' (ABUTTING PUBLIC THOROUGHFARE)
BACK:	10' (NO DEDICATED ALLEY OR PUBLIC WAY)
SIDES:	10' (ADJACENT COMMERCIAL OR INDUSTRIAL)
PARKING (CAR WASH):	
PROVIDED:	18 (1 ADA)

CITY OF OCOEE, FL MUNICIPAL CODE

SHEET NOTES

#:	DESCRIPTION:
1	ADA SPACE
2	DELIVERY/UNLOADING SPACE
3	ESCAPE LANE
4	PROVIDE ROLLED CURB PROFILE WHERE SHOWN GRAY
5	HAND TROWEL 4' LONG TRANSITION FROM ROLLED CURB TO VERTICAL CURB
6	TRANSFORMER PAD, SEE ELECTRICAL
7	COMBINED TRASH AND VACUUM EQUIPMENT ENCLOSURE
9	10"x14" IN-GROUND PULL BOX FOR ELECTRICAL LIGHTING CIRCUIT TO VACUUM ARCHES

KEYNOTES

MARK:	DESCRIPTION:
03 31 07	CONCRETE CAST-IN-PLACE FOUNDATION FOR OWNER FURNISHED SIGNAGE. CONTRACTOR TO REQUEST SIGNAGE PACKAGE FROM OWNER FOR ADDITIONAL REQUIREMENTS.
10 14 26	PYLON OR MONUMENT SIGN UNDER SEPARATE PLAN REVIEW AND PERMIT. COORDINATE WITH OWNER'S SIGNAGE VENDOR FOR FOUNDATION SUPPORT AND ELECTRICAL CONNECTION REQUIREMENTS
10 75 16	GROUND SET FLAGPOLE WITH FOUNDATION AS REQUIRED BY CONTRACTORS DELEGATED DESIGN ENGINEER, 50' OR MAX HEIGHT ALLOWED BY AHJ, COMMERCIAL GRADE WITH INTERNAL HALYARD, ALUMINUM OR FIBERGLASS, HURRICANE COMPLIANT/RESISTANT, ALUMINUM OR WHITE FINISH
22 14 26.19	FACILITY TRENCH DRAINS, ACO S200K WITH SLOTTED IRON 8" LOAD CLASS B GRATE
22 42 16.18	MAT WASHING SINK, CONTRACTOR TO CONTACT OWNER REGARDING SPECIFICATION FOR FINAL FAUCET SELECTION
26 56 22	SITE LIGHTING POLES AND STANDARDS, MATCH DEVELOPMENT STANDARDS
32 17 23.13	PAINTED PAVEMENT MARKING, WHITE, TYPICAL
32 39 13.14	STAINLESS STEEL REMOVABLE BOLLARDS, FLUSH MOUNT 12" EMBEDMENT SLEEVE, 4" OD X 48" H, CREATIVE SAFETY SUPPLY OR APPROVED EQUAL, SEE ENTRANCE BOLLARD DETAIL
32 39 33	ARTIFICIAL ROCK FABRICATIONS, SEE LANDSCAPING
32 94 33	PLANTERS

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	4/8/24
2	7/31/24
3	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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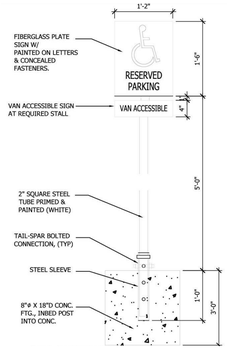
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JOB NUMBER:	22001-01
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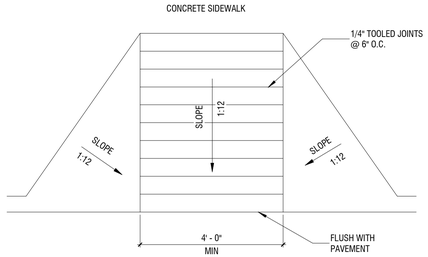
SITE PLAN

SHEET NUMBER:
A0.1a



CONSTRUCT PER ICC/ANSI A117.1-2009
OR LOCAL BUILDING STANDARD

D11 ADA PARKING SIGN
1/2" = 1'-0"

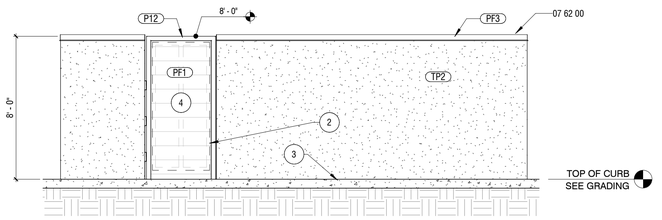


CONSTRUCT PER ICC/ANSI A117.1-2009
SECTION 406 OR LOCAL BUILDING STANDARD

D2 ACCESSIBLE CURB CUT
1/2" = 1'-0"

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
P12	HOLLOW METAL DOOR AND FRAME PAINT, GRAY.	SHERWIN-WILLIAMS	SILVERPLATE #SW 7649	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP2 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE



D3 TRASH ENCLOSURE WEST
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET **A2.1** FOR EXTERIOR FINISH SCHEDULE.

B. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4"

C. PROVIDE TEXTURED ELASTOMERIC FINISH SYSTEM AT ALL TRASH ENCLOSURE CONCRETE SURFACES.

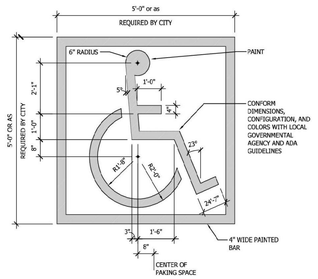
D. PROVIDE JOINT SEALANT BETWEEN ALL TRASH ENCLOSURE PANEL EDGES. ALSO PROVIDE JOINT SEALANT BETWEEN ALL SLAB OR PAVEMENT / WALL INTERSECTIONS.

SHEET NOTES

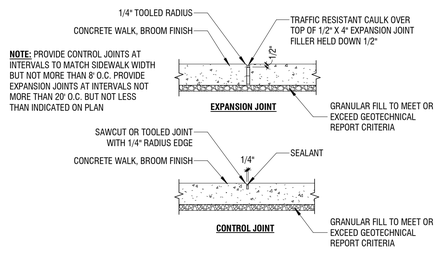
#:	DESCRIPTION:
1	6" HIGH CONCRETE APRON AT INTERIOR OF TRASH ENCLOSURE FOR DUMPSTER WHEEL STOP.
2	2'-6" x 8" x 1/2" STAINLESS STEEL CANE BOLT AT EACH DOOR LEAF. PROVIDE CANE BOLT HOLES DRILLED IN PAVEMENT AT CLOSED AND FULLY OPEN POSITIONS. *DO NOT PAINT*
3	CONCRETE CURB.
4	OWNER FURNISHED, CONTRACTOR INSTALLED SIGNAGE FRAME
5	TRASH DUMPSTER BY OTHERS

KEYNOTES

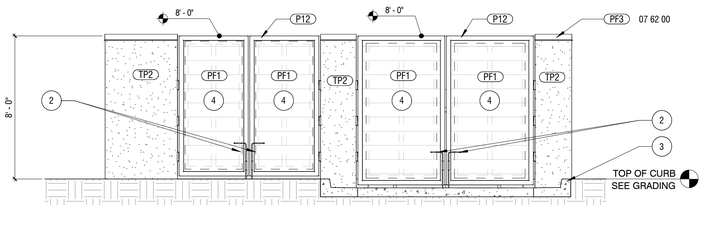
MARK:	DESCRIPTION:
03 31 01	BUILDING FOUNDATION, SEE STRUCTURAL
07 62 00	SHEET METAL FLASHING AND TRIM



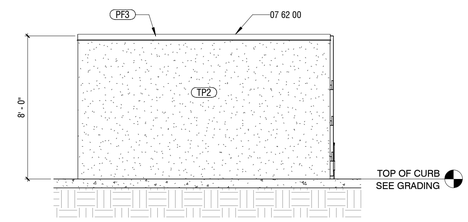
C1 ADA PARKING EMBLEM
1/2" = 1'-0"



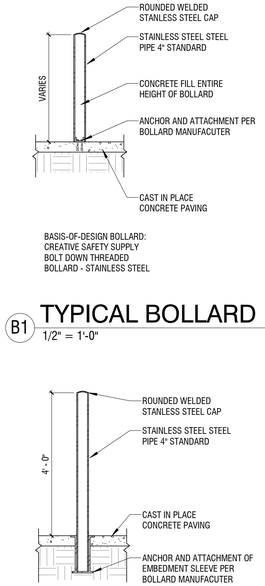
C2 SIDEWALK DETAIL
1" = 1'-0"



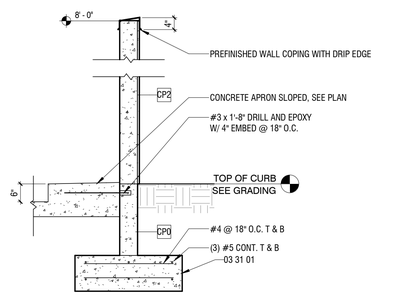
C3 TRASH ENCLOSURE EAST
1/4" = 1'-0"



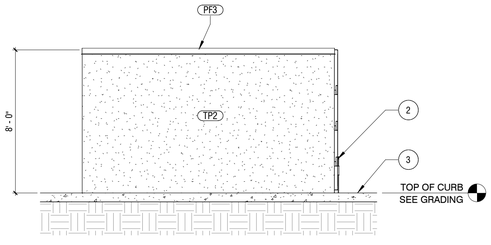
C4 TRASH ENCLOSURE SOUTH
1/4" = 1'-0"



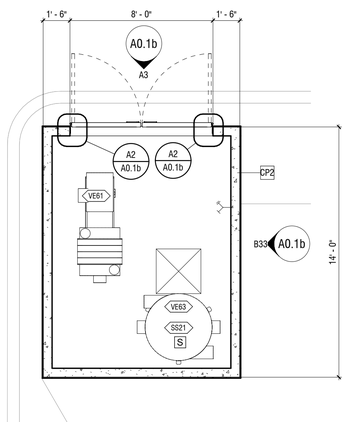
B1 TYPICAL BOLLARD
1/2" = 1'-0"



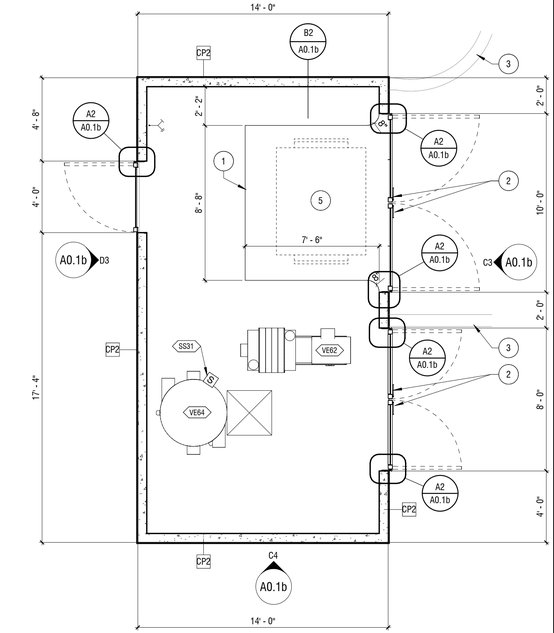
B2 TRASH ENCLOSURE WALL
1/2" = 1'-0"



B33 VACUUM ENCLOSURE EAST

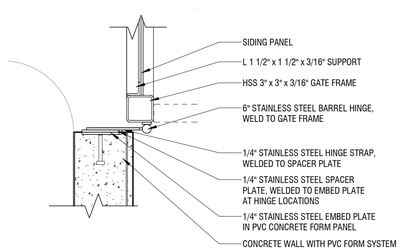


A3 VACUUM ENCLOSURE NORTH

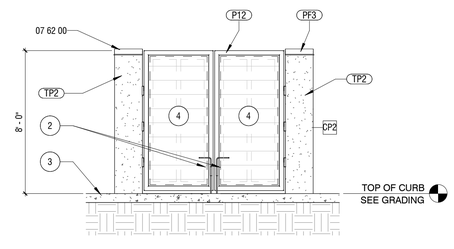


A5 TRASH ENCLOSURE
1/4" = 1'-0"

A1 ENTRANCE BOLLARD
1/2" = 1'-0"

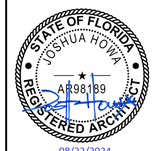


A2 TRASH ENCLOSURE GATE DETAIL
1 1/2" = 1'-0"



A4 VACUUM ENCLOSURE
1/4" = 1'-0"

STAMP:



08/22/24 BID SET

REVISIONS

#	DATE
1	7/31/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

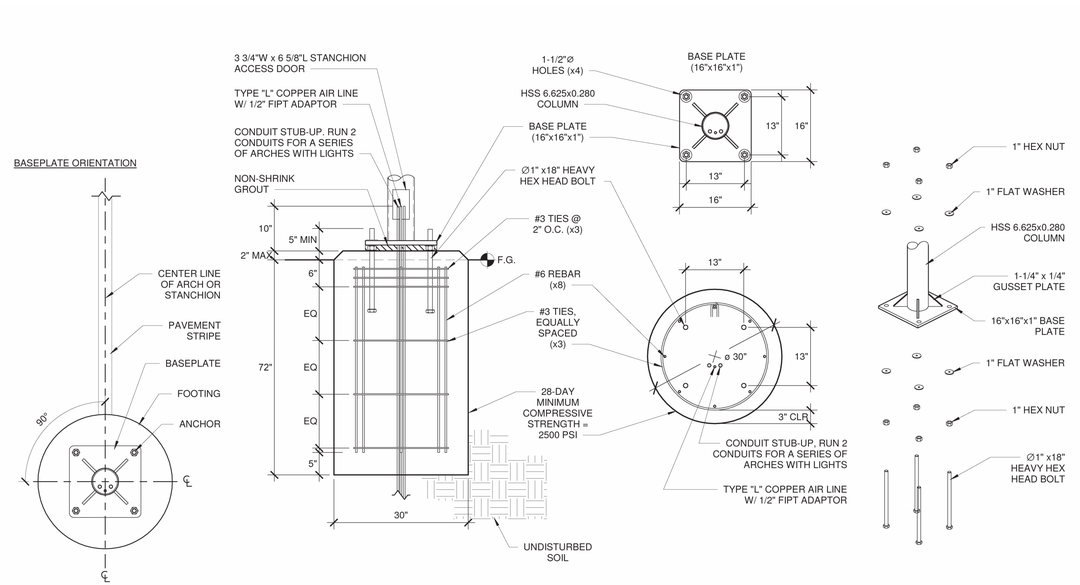
SITE DETAILS

SHEET NUMBER:

A0.1b

BINDING

BINDING



NOTE:
PIER DESIGN AND REINFORCEMENT FOR CONCEPTUAL USE ONLY. CONSULT STRUCTURAL ENGINEER IN YOUR AREA FOR SPECIFIC DESIGN CRITERIA.

FOOTING - PALM ARCH W/ AIR

VACUTECH

EDITED BY JEH - 08/15/24
FOR DEPTH OF FOOTING

A4 VACUUM BASE FOOTING

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

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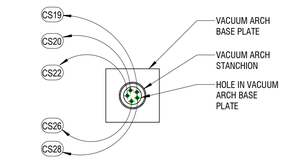
SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
PO BOX 1441
TWIN FALLS, IDAHO 83303
PH: (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

SITE DETAILS

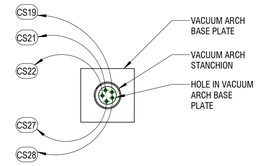
SHEET NUMBER:

A0.1c



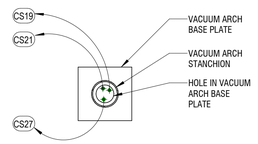
VACUUM ARCH TYPE A1

WASHER FLUID



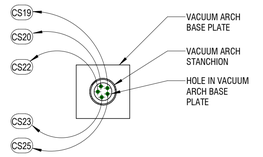
VACUUM ARCH TYPE A2

WASHER FLUID



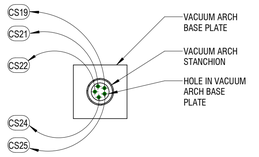
VACUUM ARCH TYPE A3

WASHER FLUID



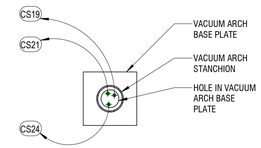
VACUUM ARCH TYPE B1

TIRE AIR



VACUUM ARCH TYPE B2

TIRE AIR

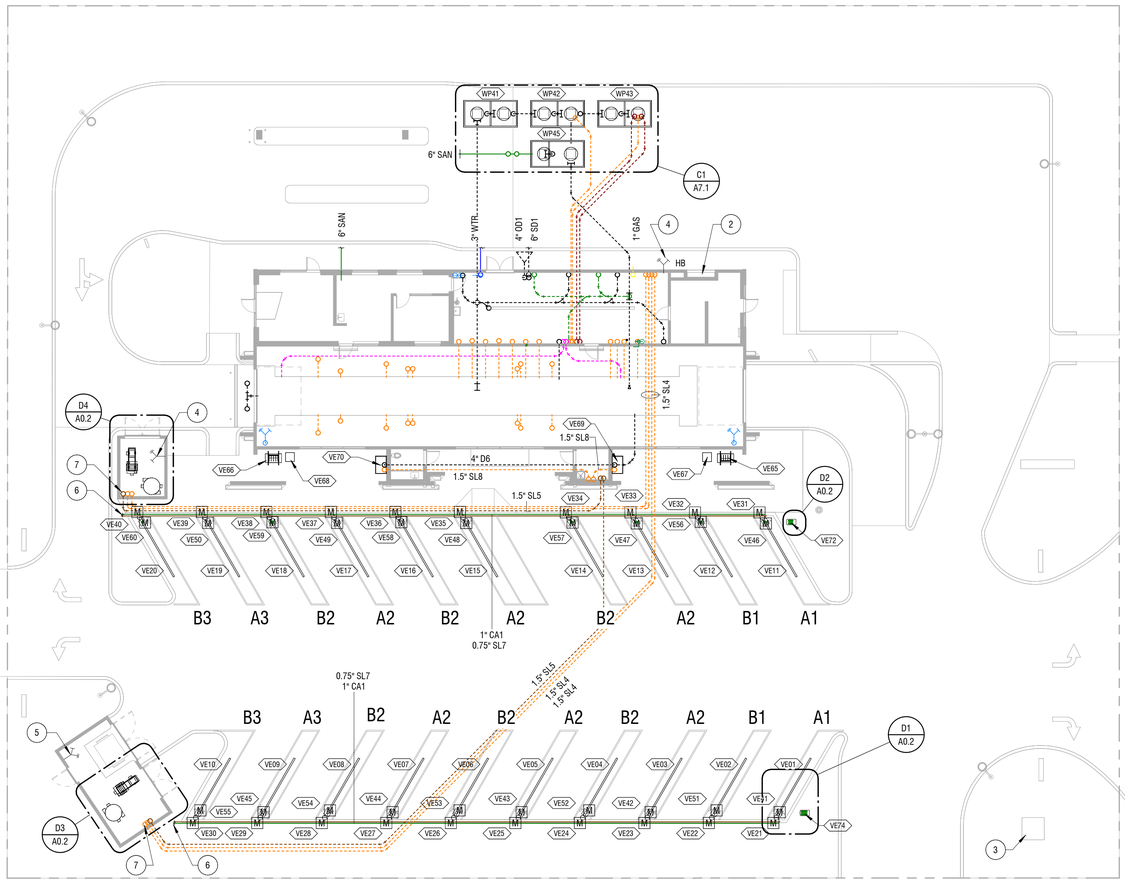


VACUUM ARCH TYPE B3

TIRE AIR

EQUIPMENT TAG KEY

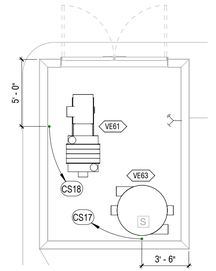
MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE



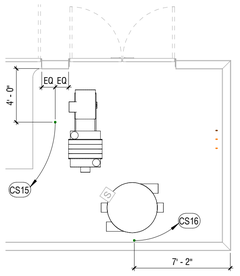
A1 SITE UTILITY PLAN

0' 8' 16' 32'

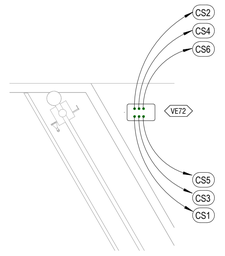
PROJECT NORTH



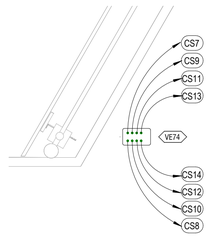
D4 VAC ENCLOSURE NORTH



D3 VAC ENCLOSURE SOUTH



D2 SITE PULL BOX NORTH



D1 SITE PULL BOX SOUTH

GENERAL NOTES

A. SEE CIVIL SITE PLANS AND ELECTRICAL SITE PLAN FOR ADDITIONAL REQUIREMENTS NOT ILLUSTRATED ON THIS SHEET.

B. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST & RECIEVE VACUUM SYSTEM DRAWINGS FROM OWNER AND INCORPORATE AS A CONTRACT DOCUMENT FOR THIS PROJECT. DO NOT PROVIDE A BID OR COMMENCE WITH WORK UNTIL THIS HAS BEEN RECEIVED.

C. NOT ALL UNDERGROUND PIPING AND CONDUITS FROM BUILDING TO RECLAIM TANKS ARE IDENTIFIED ON THIS SHEET. SEE **A1.3** AND **A7.1** FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES

#:	DESCRIPTION:
2	DISCONNECT LOCATION, SEE ELECTRICAL
3	TRANSFORMER PAD, SEE ELECTRICAL
4	THIS HOSE BIB TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. SEE PLUMBING DRAWINGS.
5	THIS HOSE BIB TO BE FURNISHED AND INSTALLED BY THE IRRIGATION CONTRACTOR. PROVIDE 3/4" HOSE BIB AT THE INSIDE OF THE ENCLOSURE.
6	OVERHEAD AIR PIPE & FLUID SLEEVE FURNISHED AND INSTALLED BY EQUIPMENT INSTALLER SUPPORTED BY VACUUM MAIN LINE, FOLLOW VACUUM PIPE INTO ENCLOSURE FOR CONNECTION TO UNDERGROUND STUB-UPS FROM EQUIPMENT ROOM
7	EXTEND SLEEVES INTO VACUUM ENCLOSURE AND HOLD TIGHT TO INSIDE FACE OF ENCLOSURE WALL

PIPE SCHEDULE

MARK:	DESCRIPTION:
CA	COMPRESSED AIR
CA1	EQUIPMENT INSTALLER TO PROVIDE AND INSTALL RAPIDAIR FASTPIPE SYSTEM ROUTED ALONG VACUUM MAIN LINE FOR COMPRESSED AIR. TEE AT EACH VACUUM ARCH AND ROUTE THROUGH STANCHION TO CONTROL BOX.
CD1	WALL CLEANER
D1	SCH40 PVC FROM TUNNEL TRENCH TO RECLAIM. MIN 1% SLOPE TOWARD TANK
D2	SCH40 PVC FROM TUNNEL TRENCH TO SAND/OIL INTERCEPTOR. MIN 1% SLOPE TOWARD TANK
D5	SCH40 PVC DRAIN NETWORK TO SAND/ OIL INTERCEPTOR
D6	SCH40 PVC DRAIN TO SIDE WALL OF TRENCH
D7	SCH40 PVC DRAIN TO MAIN RECLAIM DRAIN
DWS	DOMESTIC WATER SERVICE
GAS	LOCATION OF GAS SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO GAS SUPPLY SYSTEM.
HSW	SOFT HOT WATER
ICW	INDUSTRIAL COLD WATER
OD1	SCH40 PVC OVERFLOW DRAIN TO EXTERIOR
RD1	SCH40 PVC ROOF DRAIN TO STORM DRAIN
RD2	SCH40 PVC CONCEALED DRAIN TO ROOF
RO	REVERSE OSMOSIS WATER - SPOT-FREE RINSE
RW1	SCH40 PVC RECLAIM WATER FROM FILTER TO RECLAIM PUMP HEADER
RW2	SCH40 PVC RECLAIM WATER SANITARY TEE BETWEEN TANKS.
RW3	SCH80 PVC SUCTION LINE FROM TANK TO RECLAIM UNIT
RW4	SCH80 PVC RECLAIM WATER FROM NIGHT TIME SUMP PUMP
SAN	SANITARY, SEE MECHANICAL
SD1	SCH40 PVC ROOF DRAIN TO STORM DRAIN, SEE CIVIL
SL1	SCH40 PVC SLEEVE STUB UP FROM EQUIPMENT ROOM TO SIDE WALL OF TRENCH
SL2	SCH40 PVC SLEEVE FOR AIR HOSE TO RECLAIM
SL3	SCH40 PVC LOW LEVEL SENSOR CONDUIT TO RECLAIM
SL4	SCH40 PVC SLEEVE FOR COMPRESSED AIR HOSE TO IN-PAVEMENT BOX
SL5	SCH40 PVC SLEEVE FOR WINDOW WASHER FLUID HOSE TO IN-PAVEMENT BOX
SL7	EQUIPMENT INSTALLER TO FURNISH AND INSTALL SLEEVE OR HARD PIPE AT OWNER'S DISCRETION FOR WINDOW WASHER FLUID FILL OVERHEAD ALONG VACUUM MAIN LINE FROM STUB-UP IN VACUUM ENLOSURE TO EVERY OTHER VACUUM ARCH
SL8	SCH40 PVC SLEEVE FROM STORAGE ROOM TO MAT WASHING SINKS FOR DEGREASER
WTR	LOCATION OF WATER SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO MUNICIPAL WATER SUPPLY SYSTEM.

SITE CONDUIT SCHEDULE

#:	DESCRIPTION:
CS1	PULL-BOX TO PANEL HA FOR VACUUM STANCHION LED POWER
CS2	PULL-BOX TO BASE OF NEAREST ARCH STANCHION FOR LED POWER
CS3	PULL-BOX TO PANEL LA FOR TIRE PRESSURE CONTROL PANEL POWER
CS4	PULL-BOX TO NEAREST TYPE B ARCH STANCHION BASE FOR TIRE PRESSURE CONTROL PANEL POWER
CS5	PULL-BOX TO PANEL LA FOR WASHER FLUID SOLENOID POWER
CS6	PULL-BOX TO NEAREST TYPE A ARCH STANCHION BASE FOR WASHER FLUID PANEL POWER
CS7	PULL-BOX TO PANEL HA FOR VACUUM STANCHION LED POWER
CS8	PULL-BOX TO BASE OF NEAREST ARCH STANCHION FOR LED POWER
CS9	PULL-BOX TO PANEL LA FOR TIRE PRESSURE CONTROL PANEL POWER
CS10	PULL-BOX TO NEAREST TYPE B ARCH STANCHION BASE FOR TIRE PRESSURE CONTROL PANEL POWER
CS11	PULL-BOX TO PANEL LA FOR WASHER FLUID SOLENOID POWER
CS12	PULL-BOX TO NEAREST ARCH STANCHION BASE FOR WASHER FLUID PANEL POWER
CS13	PULL-BOX TO SERVER RACK FOR SPEAKERS
CS14	PULL-BOX TO LANDSCAPE SPEAKERS
CS15	VACUUM PRODUCER POWER TO DISCONNECT
CS16	PRESSURE TRANDUCER CONTROL TO VFD
CS17	PRESSURE TRANDUCER CONTROL TO VFD
CS18	VACUUM PRODUCER POWER TO DISCONNECT
CS19	VACUUM ARCH TO OFFICE SERVER FOR VACUUM PINCH VALVE
CS20	VACUUM ARCH FROM PULL-BOX FOR LED POWER
CS21	VACUUM ARCH FROM PREVIOUS VACUUM ARCH FOR LED POWER
CS22	VACUUM ARCH TO NEXT VACUUM ARCH FOR LED POWER
CS23	VACUUM ARCH FROM PULL-BOX FOR TIRE PRESSURE CONTROL PANEL POWER
CS24	VACUUM ARCH FROM PREVIOUS TYPE B VACUUM ARCH STANCHION BASE FOR TIRE PRESSURE CONTROL PANEL POWER
CS25	VACUUM ARCH TO NEXT TYPE B VACUUM ARCH STANCHION BASE FOR TIRE PRESSURE CONTROL PANEL POWER
CS26	VACUUM ARCH FROM PULL-BOX FOR WASHER FLUID SOLENOID POWER
CS27	VACUUM ARCH FROM PREVIOUS TYPE A VACUUM ARCH STANCHION BASE FOR WASHER FLUID SOLENOID POWER
CS28	VACUUM ARCH TO NEXT TYPE A VACUUM ARCH STANCHION BASE FOR WASHER FLUID SOLENOID POWER

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

WASH EQUIPMENT SITE UTILITIES PLAN

SHEET NUMBER:

A0.2

BINDING

EC, IC, PC - CAMERAS

ITEM	DESCRIPTION	RESPONSIBILITY: FURNISH	RESPONSIBILITY: UNLOAD	RESPONSIBILITY: SET IN PLACE	RESPONSIBILITY: INSTALL	CONDUIT: ROUTING	CONDUIT: PROVIDE	CONTROLS: WIRE SPEC	CONTROLS: CONNECTION TYPE	CONTROLS: FEED FROM/ TO	CONTROLS: HARDWIRE	MOUNTING	COMMENTS
EC01	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC02	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC03	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC04	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC05	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC06	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC07	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC08	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC09	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC10	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC11	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC12	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC13	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC14	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC15	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC16	PRE-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC17	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC18	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC19	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC20	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC21	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC22	POST-WASH CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC23	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
EC24	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC25	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC26	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC27	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC28	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC29	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC30	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC31	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC32	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC33	EXTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	BUILDING SOFFIT	VERIFY LOCATION WITH OWNER
EC34	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC35	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
EC36	EXTERIOR CAMERA	O	O	O	O	UG	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	LIGHT POLE	EXTEND CONDUIT INTO LIGHT POLE BASE, VERIFY LOCATION WITH OWNER
IC01	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC02	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC03	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC04	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC05	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC06	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC07	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC08	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC09	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC10	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC11	TUNNEL CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC12	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC13	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC14	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC15	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC16	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
IC17	INTERIOR CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	WALL	VERIFY LOCATION WITH OWNER
PC01	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC02	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC03	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC04	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC05	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC06	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ XPT	O	PEDESTAL	EXTEND CONDUIT INTO CENTER OF PEDESTAL BASE
PC07	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	CANOPY SOFFIT	VERIFY LOCATION WITH OWNER
PC08	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	CANOPY SOFFIT	VERIFY LOCATION WITH OWNER
PC09	PAY LANE CAMERA	O	O	O	O	OH	GC	CAT8 OUTDOOR	IP65 RJ45	CAMERA/ SERVER	O	CANOPY SOFFIT	VERIFY LOCATION WITH OWNER

62

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

GENERAL NOTES

A. IT IS CONTRACTORS RESPONSIBILITY TO REQUEST AND RECEIVE SECURITY AND CAMERA VENDORS SHOP DRAWINGS FOR COORDINATION OF REQUIRED CONDUITS. DO NOT MOVE FORWARD WITH ASSOCIATED WORK UNTIL THAT TASK IS COMPLETE.

B. SEE REFLECTED CEILING PLAN FOR BUILDING SECURITY DEVICE PLACEMENT.

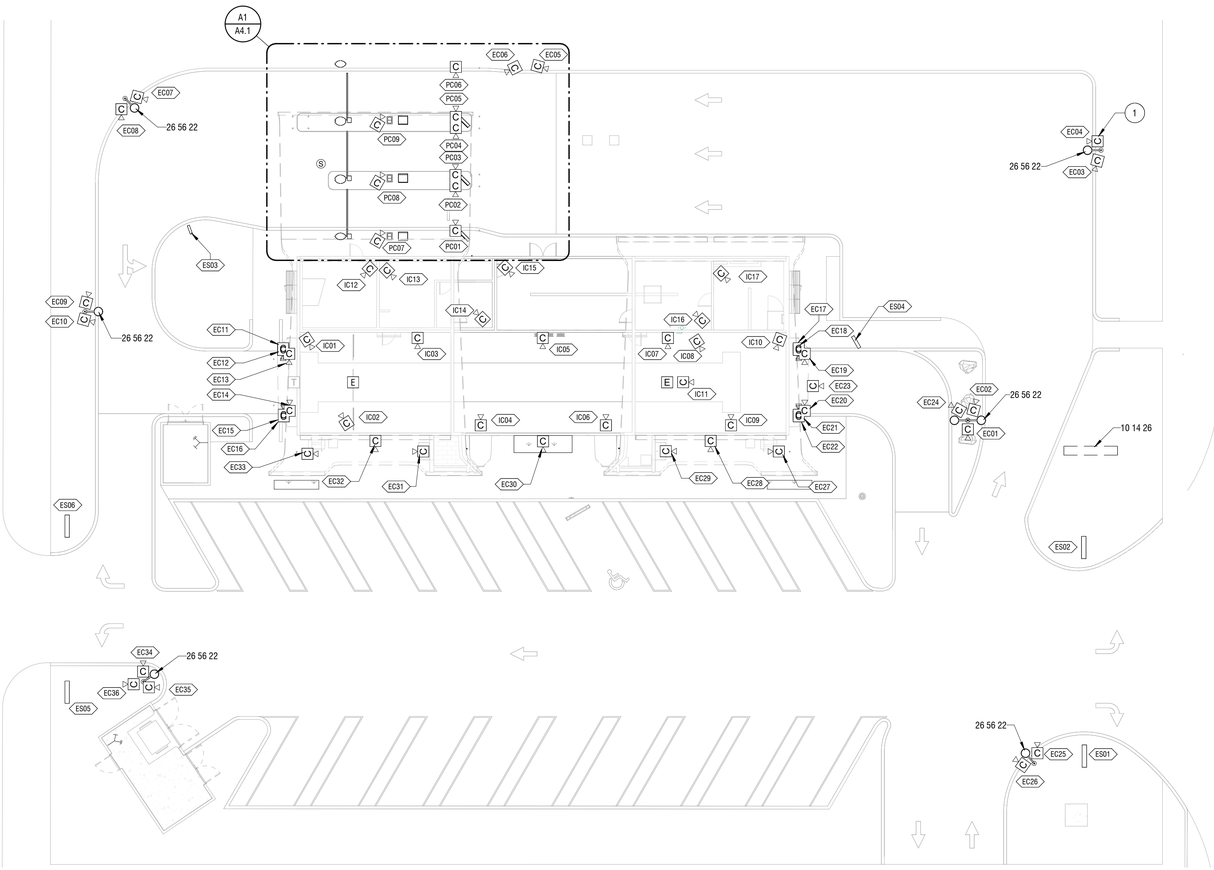
C. CONDUITS FOR WALL MOUNTED SECURITY DEVICES SHALL BE CONCEALED INSIDE OF PVC CONCRETE FORM PANELS AND INSIDE OF FRAMED WALLS AS APPLICABLE. THIS INCLUDES CONDUITS EXTENDING UP FROM GROUND AND ALSO CONDUITS EXTENDING FROM THE CEILING AND THEN DOWN INTO THE WALL.

KEYNOTES

MARK:	DESCRIPTION:
10 14 26	PYLON OR MONUMENT SIGN UNDER SEPARATE PLAN REVIEW AND PERMIT. COORDINATE WITH OWNER'S SIGNAGE VENDOR FOR FOUNDATION SUPPORT AND ELECTRICAL CONNECTION REQUIREMENTS
26 56 22	SITE LIGHTING POLES AND STANDARDS, MATCH DEVELOPMENT STANDARDS

SHEET NOTES

#:	DESCRIPTION:
1	IN ADDITION TO SITE SECURITY, THIS CAMERA IS DESIGNATED FOR LPR



A1 SITE SIGNAGE & SECURITY PLAN

0' 8' 16' 32'

TRUE NORTH PROJECT NORTH

STAMP:

STATE OF FLORIDA
JOSHUA HOWE
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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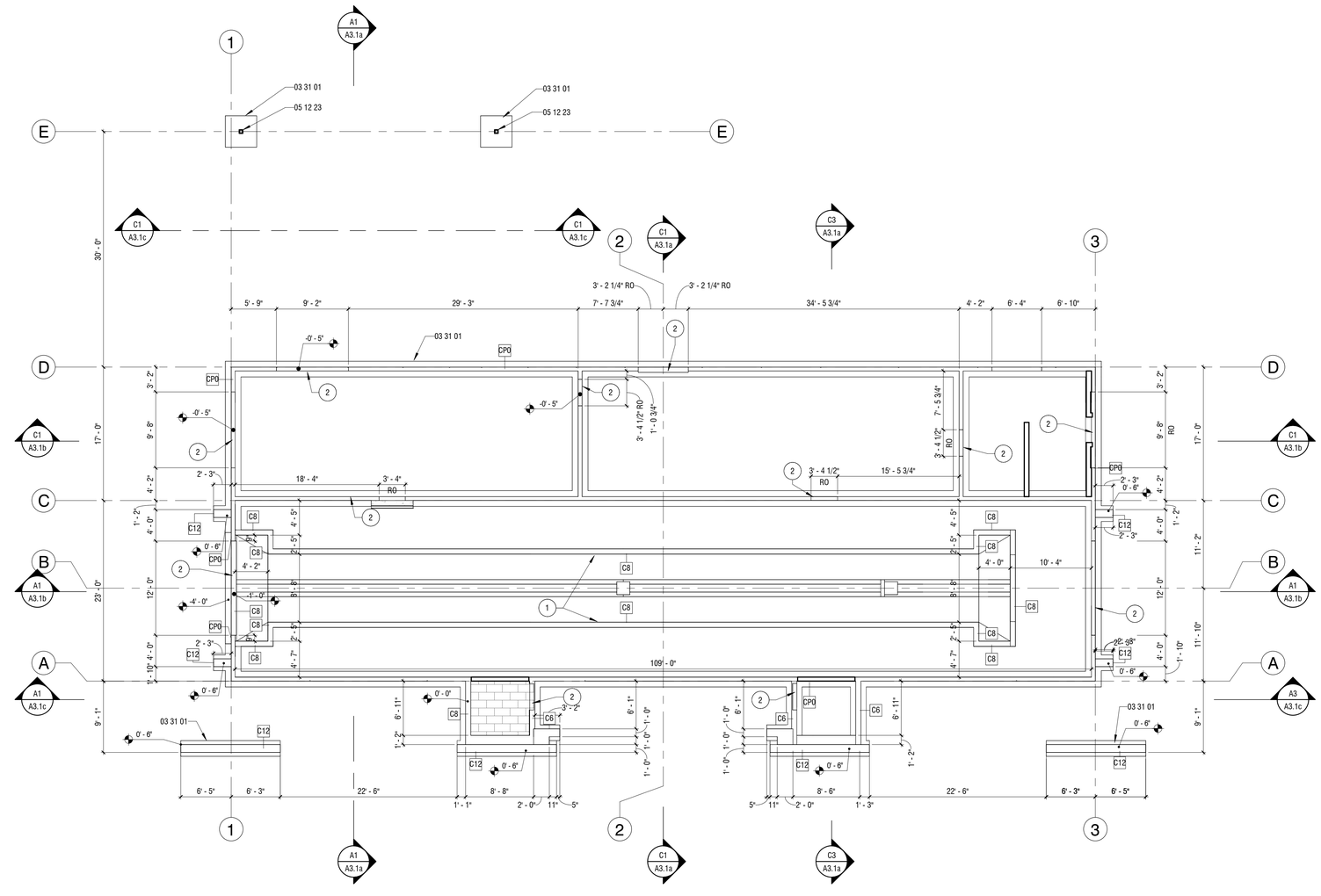
CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

SIGNAGE & SECURITY SITE PLAN

SHEET NUMBER:

A0.3

BINDING



A1 FOUNDATION STEMWALL COORDINATION PLAN

GENERAL NOTES

A. DIMENSIONS ARE TO:
   a. FACE OF STUD OR CONCRETE / BLOCK WALL.
   b. CENTERLINE OF WINDOW OR DOOR.
B. DIMENSIONED SWING DOOR OPENINGS ARE TO OUTSIDE FACE OF FRAME. ADD 1/2" TO DIMENSION FOR ROUGH OPENINGS.
C. WALL ASSEMBLIES ON SHEET **A1.0**.
D. ROOM FINISH SCHEDULES ON SHEET **A6.1**.
E. FRAME TYPES ON SHEET **A6.2**.
F. PROVIDE BACKING IN FRAMED WALLS FOR WALL MOUNTED ITEMS EXCEPT AS OTHERWISE NOTED ON EQUIPMENT AND ACCESSORIES SCHEDULES ON **A1.3** SERIES SHEETS.
G. PIPING AND ELECTRICAL ROUGH-IN STUB-UPS ARE TO BE AT CENTERLINE OF WALLS AT FRAMED WALL ASSEMBLIES.
H. FOR TYPICAL ACCESSIBILITY CLEARANCES SEE SHEET **A2.3**.
I. ALL WALLS, PARTITIONS AND FURRING TO EXTEND TO UNDERSIDE OF DECK UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE MANUFACTURER'S STANDARD DEFLECTION TRACK.
J. ALL TRENCH AND PIT GRATINGS ARE FURNISHED AND INSTALLED BY OWNER EXCEPT THAT EQUIPMENT ROOM TRENCH DRAIN AND EXTERIOR TRENCH DRAINS ARE PROVIDED BY CONTRACTOR.
K. OVERHEAD PANEL DOOR: BASIS-OF-DESIGN IS AIRLIFT DOORS, INC. ALASKA EXTREME PACKAGE WITH STAINLESS STEEL TORSION SPRINGS, ANODIZING UPGRADE, MANUAL OPERATION, 3-PANEL WIDE POLYCARBONATE . DO NOT INCLUDE STRAPEZE COUNTERBALANCE SYSTEM. OVERHEAD DOORS SHALL EXTEND VERTICALLY ON WALL AS HIGH AS POSSIBLE.
L. OVERHEAD ROLLING STEEL SERVICE DOOR BASIS-OF-DESIGN IS OVERHEAD DOOR MODEL 610 - F-265, MANUAL OPERATION.
M. PROVIDE ACCESSIBLE DOOR LANDING AT APPROACH AND PULL SIDE OF ALL DOORS.
N. PROVIDE BROOM FINISH AT ALL INTERIOR SLABS, EXCEPT PROVIDE SMOOTH TROWEL FINISH AT CAR WASH TUNNEL AT THE PASSENGER SIDE OF THE CONVEYOR TRENCH EXTENDING 4' BEYOND THE TRENCH (PASSENGER SIDE ONLY). PROVIDE BROOM FINISH BEGINNING 4' FROM TRENCH TO ADJACENT WALL.
O. PROVIDE SEALANT AT ENTIRE PERIMETER OF THE CAR WASH TUNNEL AND THE EQUIPMENT ROOM WHERE THE SLABS MEET A CONCRETE WALL. USE ISOFLEX OR APPROVED EQUAL TEAR-OFF STRIP JOINT FILLER TO CREATE A VOID FOR THE SEALANT.
P. PROVIDE TWO COATS OF MAX WAX COATING MANUFACTURED TO PROTECT STEEL FROM MOISTURE AT ALL STEEL EXPOSED AT ENTIRE TUNNEL. THIS INCLUDES ALL EXPOSED EMBED STEEL EXCEPT STAINLESS STEEL PLATES. DO NOT COAT ANGLE EMBEDS OR PLATES AT TRENCHES.
Q. GROUT AND TEXTURE ALL INTERIOR AND EXTERIOR PANEL PICK HARDWARE REVEALS EXCEPT WHERE CONCEALED BY EXTERIOR FINISH MATERAILS. TEXTURE TO MATCH ADJACENT PANEL SURFACE.
R. PROVIDE VERTICAL SEALANT AND BACKER ROD BETWEEN ARE VERTICAL AND HORIZONTAL CONCRETE WALL PANEL JOINTS.

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	4/8/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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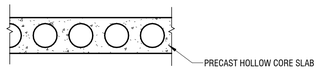
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FOUNDATION STEMWALL COORDINATION PLAN

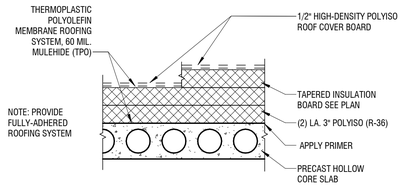
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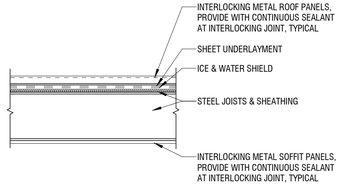
BINDING



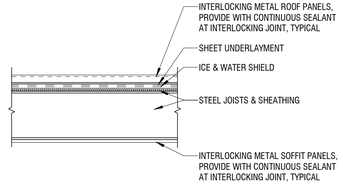
R0 PRECAST ROOF ASSEMBLY
1" = 1'-0"



R1 PRECAST ROOF ASSEMBLY
1" = 1'-0"



R2 EXTERIOR METAL ROOF
1" = 1'-0"



R3 EXTERIOR METAL ROOF
1" = 1'-0"

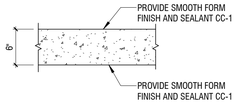
GENERAL NOTES

A. PLYWOOD SHEATHING TO BE APA RATED PS 1 STRUCTURAL PLYWOOD, EXPOSURE 1
B. 2x WOOD STUDS: USE STRUCTURAL NO. 2 OR BETTER DOUGLAS FIR.
C. WHEN PLYWOOD IS USED AS FINISHED INTERIOR WALL SURFACE, SAND PLYWOOD SMOOTH, PRIME AND PAINT AFTER INSTALLATION.
D. ROOF MEMBRANE AND MEMBRANE FLASHING: 60 MIL TPO, FULLY OR SELF-ADHERED SYSTEM. COLOR: WHITE. WARRANTY: 20-YEAR SYSTEM. PROVIDE COMPLETE SYSTEM AS MANUFACTURED BY MULE-HIDE PRODUCTS.
E. INSTALL ALL PRODUCTS PER MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR ASSEMBLY.
F. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FLOOR, WALL & ROOF ASSEMBLY REQUIREMENTS. WHERE STRUCTURAL REQUIREMENTS EXCEED REQUIREMENTS OTHERWISE INDICATED, THE STRUCTURAL DRAWINGS SHALL PREVAIL.
G. ALL WALLS, PARTITIONS, AND FURRING ARE FULL HEIGHT UNLESS SPECIFICALLY INDICATED OTHERWISE.

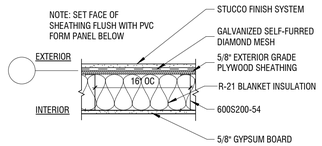
PRODUCTS:

STUCCO SYSTEM: STOPOWERWALL WITH CRACK DEFENSE SYSTEM
WEATHER RESISTIVE BARRIER: STOGUARD CONFORMABLE MEMBRANE
SLAB VAPOR BARRIER: 15-MIL STEGO WRAP
ACOUSTIC INSULATION: ROXUL MINERAL WOOL
THERMAL BLANKET INSULATION: JOHNS MANVILLE KRAFT-FACED FIBERGLASS
POLYISO INSULATION: MULE-HIDE POLY ISO FLAT & POLY ISO TAPERED
TPO MEMBRANE: MULE-HIDE 60 MIL, WHITE
METAL ROOF PANELS: MBCI FLEXLOC, 22GA, BONE WHITE
SHEET UNDERLAYMENT: GRACE ICE & WATER SHIELD HT

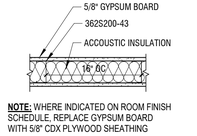
ROOF ASSEMBLIES



C6 CAST-IN-PLACE CONCRETE
1" = 1'-0"

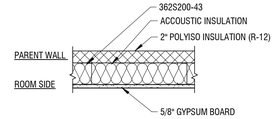


E6a 6" EXTERIOR
1" = 1'-0"

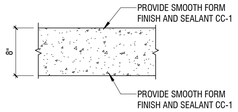


NOTE: WHERE INDICATED ON ROOM FINISH SCHEDULE, REPLACE GYPSUM BOARD WITH 5/8" CDX PLYWOOD SHEATHING

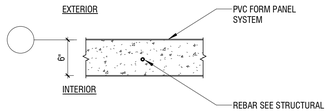
P4 4" PARTITION
1" = 1'-0"



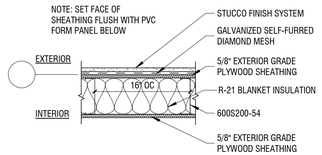
F4 4" FURRING
1" = 1'-0"



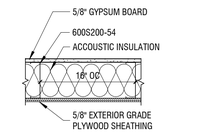
C8 CAST-IN-PLACE CONCRETE
1" = 1'-0"



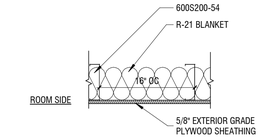
CP0 PVC/ CONCRETE FORM PANEL
1" = 1'-0"



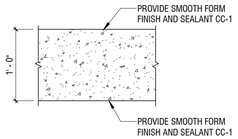
E6b 6" EXTERIOR W/ BACKING
1" = 1'-0"



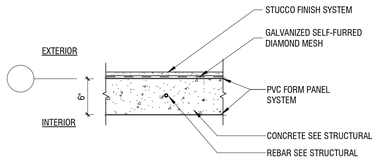
P6a 6" PARTITION
1" = 1'-0"



F6 6" FURRING
1" = 1'-0"

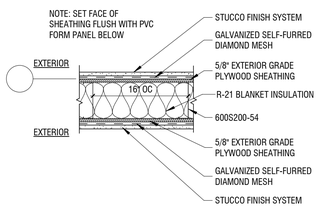


C12 CAST-IN-PLACE CONCRETE
1" = 1'-0"

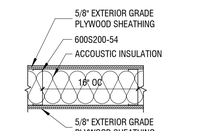


CP2 CP2 IS SAME ASSEMBLY TO CP1 BUT DIFFERENT COLOR - SEE ELEVATIONS FOR FINISH SCHEDULE

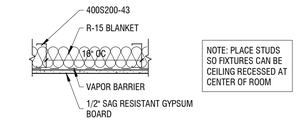
CP1 STUCCO ON FORM PANEL
1" = 1'-0"



E8a 6" EXTERIOR W/ BACKING
1" = 1'-0"



P6b 6" PARTITION
1" = 1'-0"

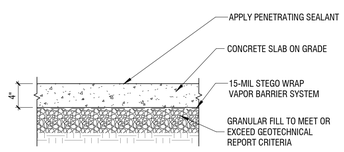


NOTE: PLACE STUDS SO FIXTURES CAN BE CEILING RECESSED AT CENTER OF ROOM

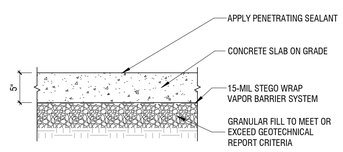
C1 GYPSUM BOARD CEILING
1" = 1'-0"

WALL ASSEMBLIES

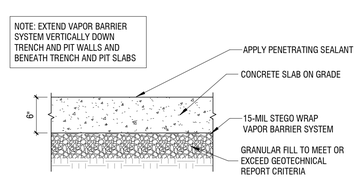
NOTE: ALL WALL ASSEMBLIES ARE FULL-HEIGHT TO UNDERSIDE OF STRUCTURAL DECK UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE MANUFACTURER'S STANDARD DEFLECTION JOINT SYSTEM WHERE WALLS EXTEND TO UNDERSIDE OF STRUCTURE. IF SPECIFIED STUD SIZE DOES NOT MEET DEFLECTION CRITERIA FOR HEIGHT INDICATED, INCREASE STUD SIZE ACCORDINGLY



FS4 4" CONCRETE SLAB
1" = 1'-0"

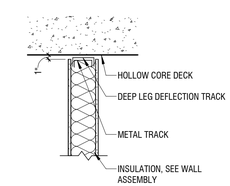


FS5 5" CONCRETE SLAB
1" = 1'-0"



FS6 6" CONCRETE SLAB
1" = 1'-0"

FLOOR ASSEMBLIES



A5 FULL HEIGHT WALL, TYPICAL
3/4" = 1'-0"

STAMP:
STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	4/8/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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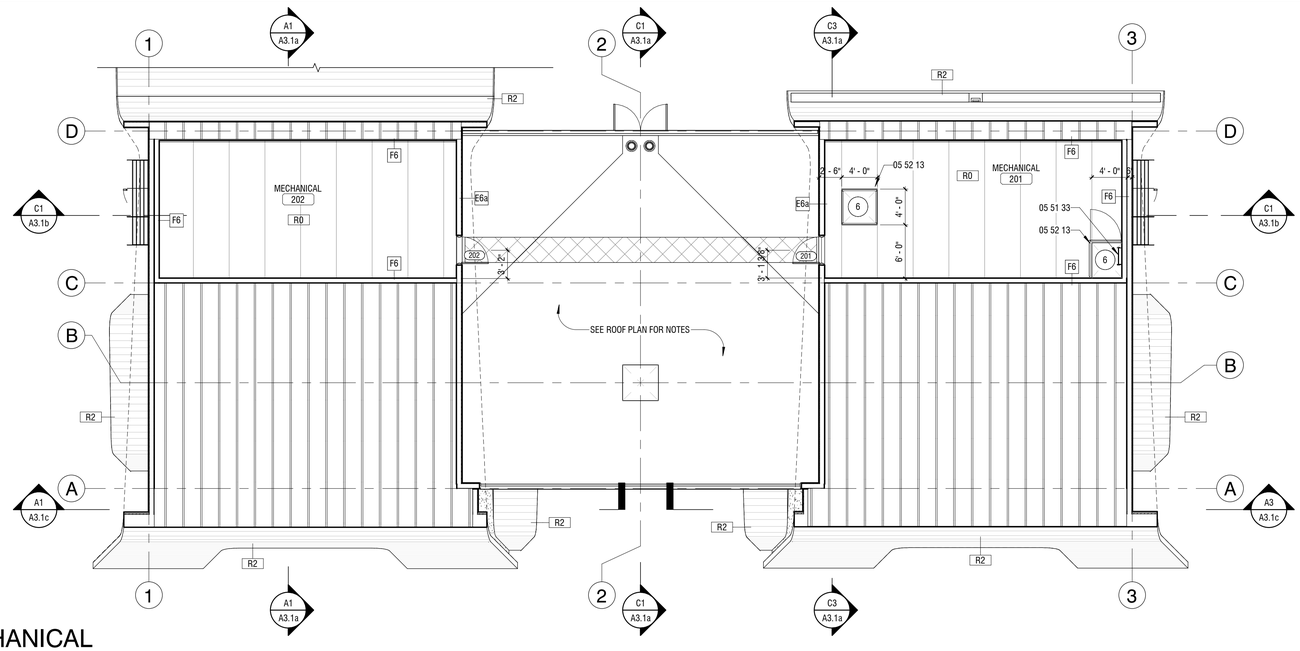
SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
2050 S. 4th E.
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

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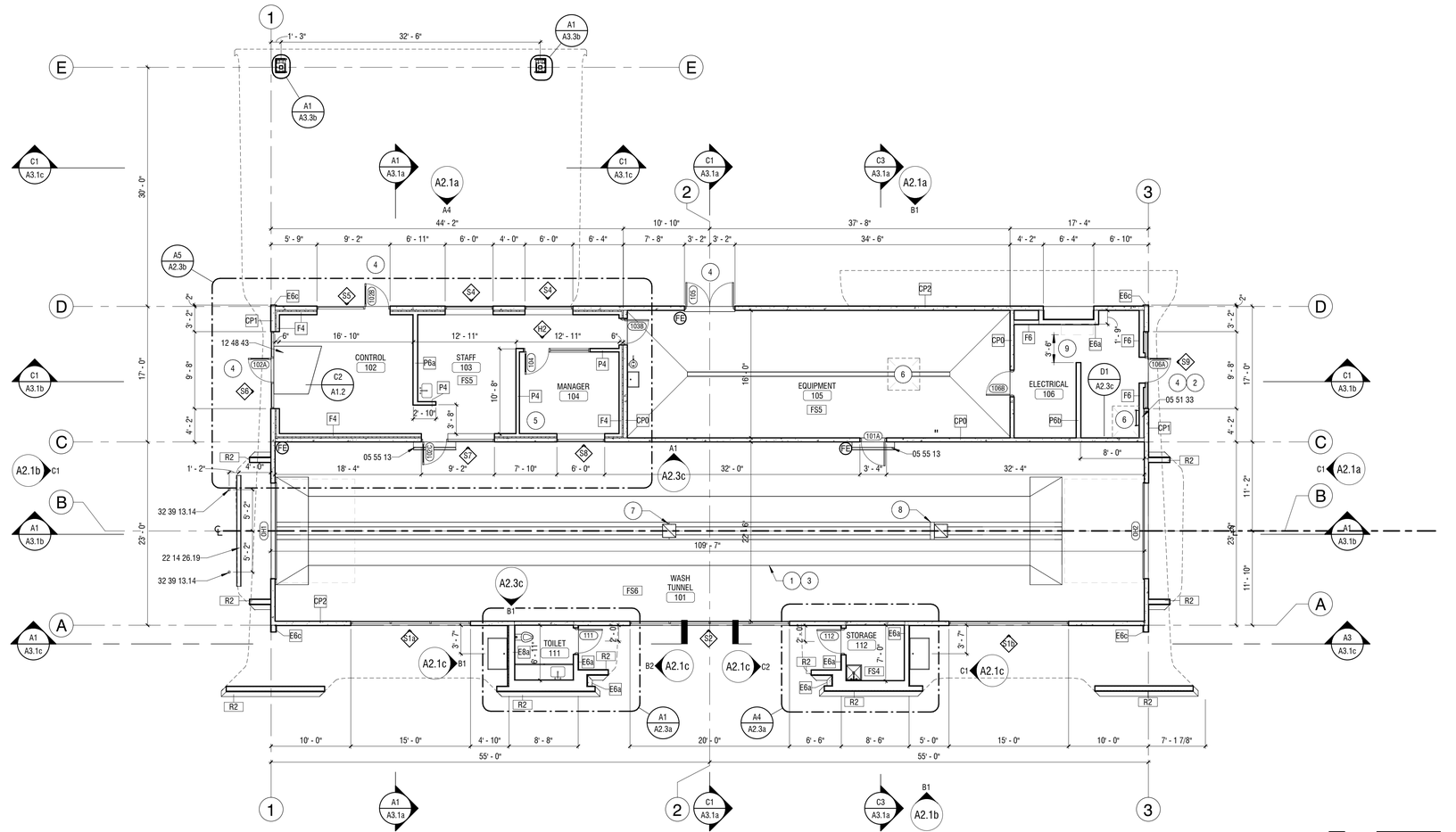
ASSEMBLIES

SHEET NUMBER:
A1.0

BINDING



C1 ROOFTOP MECHANICAL



A1 FLOOR PLAN

1/8" = 1'-0"

0' 4' 8' 16'

NORTH

GENERAL NOTES

A. DIMENSIONS ARE TO:
   a. FACE OF STUD OR CONCRETE / BLOCK WALL.
   b. CENTERLINE OF WINDOW OR DOOR.
B. DIMENSIONED SWING DOOR OPENINGS ARE TO OUTSIDE FACE OF FRAME. ADD 1/2" TO DIMENSION FOR ROUGH OPENINGS.
C. WALL ASSEMBLIES ON SHEET **A1.0**.
D. ROOM FINISH SCHEDULES ON SHEET **A6.1**.
E. FRAME TYPES ON SHEET **A6.2**.
F. PROVIDE BACKING IN FRAMED WALLS FOR WALL MOUNTED ITEMS EXCEPT AS OTHERWISE NOTED ON EQUIPMENT AND ACCESSORIES SCHEDULES ON **A1.3** SERIES SHEETS.
G. PIPING AND ELECTRICAL ROUGH-IN STUB-UPS ARE TO BE AT CENTERLINE OF WALLS AT FRAMED WALL ASSEMBLIES.
H. FOR TYPICAL ACCESSIBILITY CLEARANCES SEE SHEET **A2.3**.
I. ALL WALLS, PARTITIONS AND FURRING TO EXTEND TO UNDERSIDE OF DECK UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE MANUFACTURER'S STANDARD DEFLECTION TRACK.
J. ALL TRENCH AND PIT GRATINGS ARE FURNISHED AND INSTALLED BY OWNER EXCEPT THAT EQUIPMENT ROOM TRENCH DRAIN AND EXTERIOR TRENCH DRAINS ARE PROVIDED BY CONTRACTOR.
K. OVERHEAD PANEL DOOR: BASIS-OF-DESIGN IS AIRLIFT DOORS, INC. ALASKA EXTREME PACKAGE WITH STAINLESS STEEL TORSION SPRINGS, ANODIZING UPGRADE, MANUAL OPERATION, 3-PANEL WIDE POLYCARBONATE . DO NOT INCLUDE STRAPEZE COUNTERBALANCE SYSTEM. OVERHEAD DOORS SHALL EXTEND VERTICALLY ON WALL AS HIGH AS POSSIBLE.
L. OVERHEAD ROLLING STEEL SERVICE DOOR BASIS-OF-DESIGN IS OVERHEAD DOOR MODEL 610 - F-265, MANUAL OPERATION.
M. PROVIDE ACCESSIBLE DOOR LANDING AT APPROACH AND PULL SIDE OF ALL DOORS.
N. PROVIDE BROOM FINISH AT ALL INTERIOR SLABS, EXCEPT PROVIDE SMOOTH TROWEL FINISH AT CAR WASH TUNNEL AT THE PASSENGER SIDE OF THE CONVEYOR TRENCH EXTENDING 4' BEYOND THE TRENCH (PASSENGER SIDE ONLY). PROVIDE BROOM FINISH BEGINNING 4' FROM TRENCH TO ADJACENT WALL.
O. PROVIDE SEALANT AT ENTIRE PERIMETER OF THE CAR WASH TUNNEL AND THE EQUIPMENT ROOM WHERE THE SLABS MEET A CONCRETE WALL. USE ISOFLEX OR APPROVED EQUAL TEAR-OFF STRIP JOINT FILLER TO CREATE A VOID FOR THE SEALANT.
P. PROVIDE TWO COATS OF MAX WAX COATING MANUFACTURED TO PROTECT STEEL FROM MOISTURE AT ALL STEEL EXPOSED AT ENTIRE TUNNEL. THIS INCLUDES ALL EXPOSED EMBED STEEL EXCEPT STAINLESS STEEL PLATES. DO NOT COAT ANGLE EMBEDS OR PLATES AT TRENCHES.
Q. GROUT AND TEXTURE ALL INTERIOR AND EXTERIOR PANEL PICK HARDWARE REVEALS EXCEPT WHERE CONCEALED BY EXTERIOR FINISH MATERAILS. TEXTURE TO MATCH ADJACENT PANEL SURFACE.
R. PROVIDE VERTICAL SEALANT AND BACKER ROD BETWEEN ARE VERTICAL AND HORIZONTAL CONCRETE WALL PANEL JOINTS.

KEYNOTES

MARK:	DESCRIPTION:
05 51 33	STEEL LADDER WITH 2 1/2" RAILS AND 1" DIA. RUNGS. PROVIDE 7" MINIMUM TOE CLEARANCE BETWEEN WALL AND LADDER RUNGS, AND STEEL WALL CONNECTION BRACKETS AT 60" OC MAX.
05 52 13	STEEL PIPE AND TUBE RAILINGS
05 55 13	METAL STAIR TREADS, WOOSTER PRODUCTS AG101.4 ALUMOGRIT TYPE 101 OR APPROVED EQUAL.
12 48 43	RECESSED ENTRANCE MAT, BOD: CONSTRUCTION SPECIALTIES PEDIMAT
22 14 26.19	FACILITY TRENCH DRAINS, ACO S200K WITH SLOTTED IRON 8" LOAD CLASS B GRATE
32 39 13.14	STAINLESS STEEL REMOVABLE BOLLARDS, FLUSH MOUNT 12" EMBEDMENT SLEEVE, 4" OD X 48" H, CREATIVE SAFETY SUPPLY OR APPROVED EQUAL, SEE ENTRANCE BOLLARD DETAIL

SHEET NOTES

#:	DESCRIPTION:
1	CONVEYOR TRENCH WITH PERIMETER ANGLE EMBEDS, SEE DETAIL. CONVEYOR EQUIPMENT AND CONVEYOR GRATING BY OTHERS.
2	CENTER OPENING IN WALL
3	CONVEYOR EQUIPMENT AND CONVEYOR GRATING BY OTHERS
4	EXIT DISCHARGE DOOR.
5	PROVIDE 150F125-33 FULL HEIGHT @ 24" O.C. VERTICALLY WITH 5/8" PLYWOOD SHEATHING AND 1 1/2" POLYISO. INSULATION ADHERED TO WALL BETWEEN FURRING SECTIONS. SAND PLYWOOD AND PAINT SEMI-GLOSS GRAY TO MATCH CONCRETE.
6	OPENING IN HOLLOW CORE ROOF, SEE STRUCTURAL
7	LOW POINT OF CONVEYOR TRENCH.
8	DAM IN CONVEYOR TRENCH.
9	COORDINATE CLEAR DIMENSION WITH MAIN DISTRIBUTION PANEL SUPPLIER FOR ACTUAL DEPTH OF EQUIPMENT

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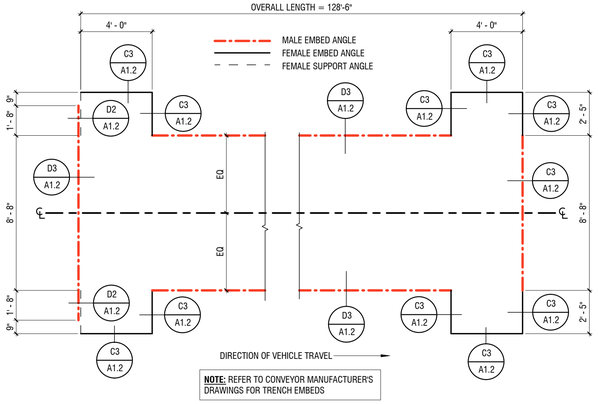
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FLOOR PLAN

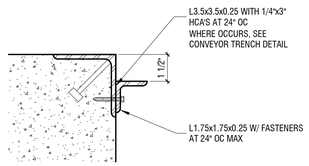
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A1.1

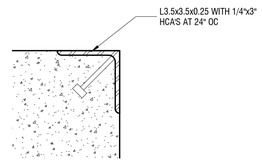
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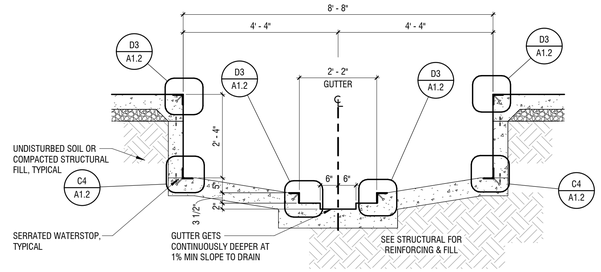
D1 CONVEYOR TRENCH DETAIL
1/4" = 1'-0"



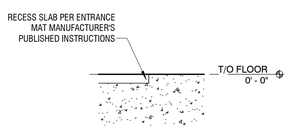
D2 FEMALE SUPPORT ANGLE



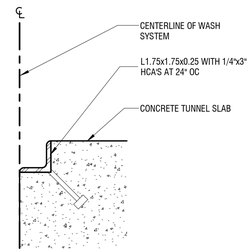
D3 MALE EMBED ANGLE



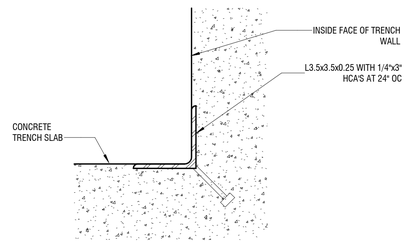
C1 CONVEYOR TRENCH SECTION
1/2" = 1'-0"



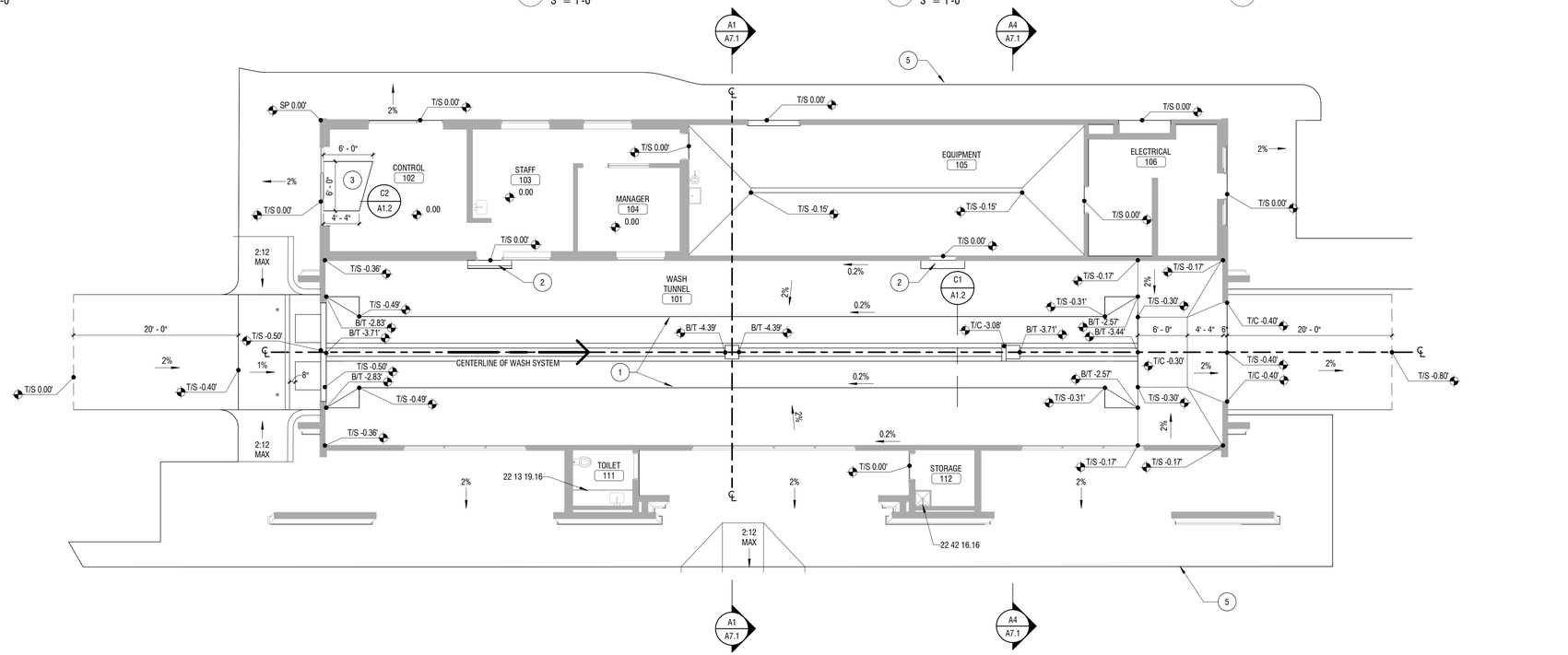
C2 ENTRANCE MAT DETAIL
3" = 1'-0"



C3 FEMALE EMBED ANGLE
3" = 1'-0"



C4 FEMALE EMBED ANGLE



A1 SLAB GRADING PLAN
1/8" = 1'-0"

0' 2' 4' 8'

NORTH

GENERAL NOTES

A. ABBREVIATIONS:
   a. B/G = BOTTOM OF TRENCH GUTTER
   b. B/P = BOTTOM OF PIT
   c. B/T = BOTTOM OF TRENCH OR TANK
   d. SP = SIDEWALK SPOT ELEVATION
   e. CP = CENTER OF PIPE
   f. CIP = CAST IN PLACE
   g. IE = INVERT ELEVATION - FLOW LEVEL AT PIPE
   h. T/S = TOP OF SLAB
   i. T/C = TOP OF CURB
   j. B/C = BOTTOM OF CURB
B. ASSUMED ELEVATION **100.00** IS EQUAL TO ELEVATION **TBD**.
C. PROVIDE MEDIUM BROOM CONCRETE FINISH AT ENTIRE CAR WASH TUNNEL. PROVIDE SMOOTH TROWEL FINISH AT PASSENGER SIDE OF CONVEYOR TRENCH FOR THE FIRST 4' (121.9mm) ADJACENT TO TRENCH AND MEDIUM BROOM FINISH BEGINNING AT THE 4' MARK TO ADJACENT WALL. PROVIDE SMOOTH TROWEL FINISH AT ALL OTHER INTERIOR CONCRETE LOCATIONS.

SHEET NOTES

#:	DESCRIPTION:
1	TOP OF OF CONVEYOR TRENCH SHALL BE LEVEL WITH TOLERANCE OF ± 1/16" FROM EDGE TO EDGE MEASURED PERPENDICULAR TO DIRECTION OF TRAVEL.
2	CAST-IN-PLACE CONCRETE STEP. SLOPE TOP OF STEP 1/4":12". MEDIUM BROOM FINISH AT TOP SURFACE.
3	RECESSED ENTRANCE MAT
5	EDGE OF CONCRETE SIDEWALK

KEYNOTES

MARK:	DESCRIPTION:
22 13 19.16	LINEAR FLOOR DRAIN, INFINITY DRAIN S-TIF 65 TILE INSERT FRAME
22 42 16.16	MOP SINK, FLUSH-MOUNT, STAINLESS STEEL WITH STAINLESS STEEL GRATES, DRAIN-TECH 9-OP-24FM-SSR OR APPROVED EQUIVALENT

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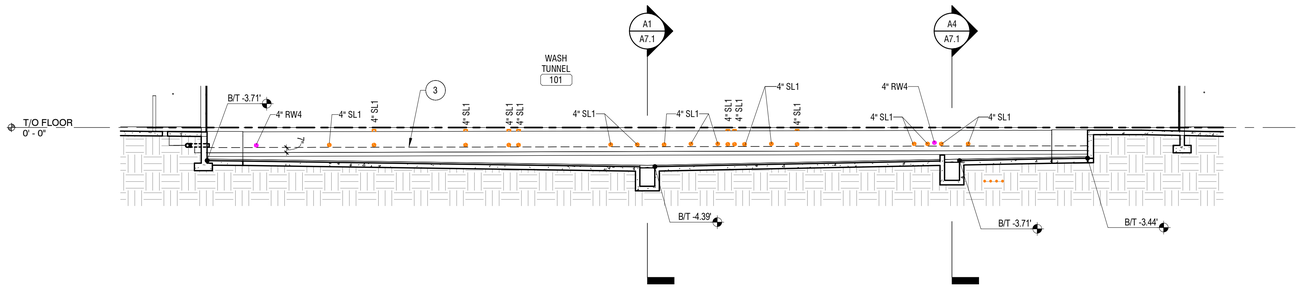
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SLAB AND TRENCH GRADING

SHEET NUMBER:

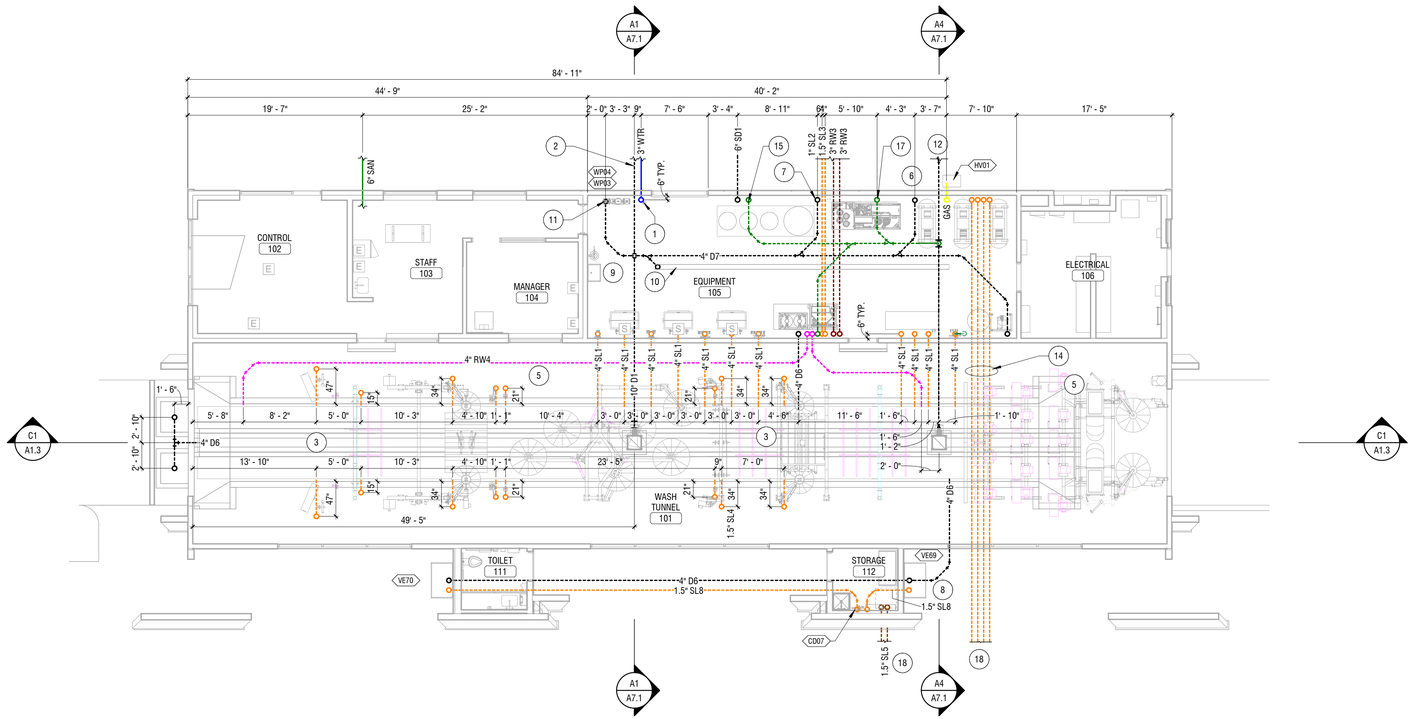
A1.2

BINDING



C1 TRENCH SECTION
1/8" = 1'-0"

0' 4' 8' 16'



A1 SLAB PLUMBING PLAN
1/8" = 1'-0"

0' 4' 8' 16'

NORTH

GENERAL NOTES

A. ABBREVIATIONS:
   a. B.P. = BOTTOM OF PIT
   b. B.T. = BOTTOM OF TRENCH
   c. B.S. = BOTTOM OF STEP
   d. C.P. = CENTER OF PIPE
   e. C.I.P = CAST IN PLACE
   f. I.E. = INVERT ELEVATION - FLOW LEVEL AT PIPE
   g. T.T. = TOP OF TRENCH
B. ASSUMED ELEVATION **100.00** IS EQUAL TO ELEVATION **TBD**.
C. ALL PIPE, SLEEVES AND CONDUIT EXTENDING TO CONVEYOR TRENCH SHALL BE LOCATED 11" FROM TOP OF TRENCH AT THAT LOCATION TO CENTER OF PIPE OR SLEEVE.
D. ALL PIPE / PIPE SLEEVE ELBOWS TO BE LONG SWEEP.
E. SEE PLUMBING PLAN FOR SANITARY PIPE LAYOUT AND CLEANOUTS.
F. ALL PIPE STUB-UPS SHOULD EXTEND 6" ABOVE CONCRETE (UNO) AND WRAPPED WITH 1/4" THICK FOAM WRAP AT ENTIRE DEPTH OF CONCRETE SLAB. TRIM FOAM WRAP FLUSH WITH TOP OF SLAB AFTER CURED.
G. ALL UNDERGROUND PIPING SHALL BE PRESSURE-TESTED WITHIN 15 MINUTES OF PAVEMENT POUR FOR A MINIMUM OF 48 HOURS.
H. ALL PIPE STUB-UPS SHOULD EXTEND 6" ABOVE CONCRETE AND WRAPPED WITH 1/4" THICK FOAM WRAP AT ENTIRE DEPTH OF CONCRETE SLAB. TRIM FOAM WRAP FLUSH WITH TOP OF SLAB AFTER CURED.

SHEET NOTES

#:	DESCRIPTION:
1	WATER MAIN SERVICE ENTRANCE STUB-UP LOCATION.
2	DRAIN TO RECLAIM TANKS, SEE A0.1 FOR CONTINUATION
3	PIPE INVERTS AT TRENCH TO BE 7" ABOVE GUTTER FLOOR OF TRENCH TO ACCOMMODATE CONTINUOUS ANGLE AND WATERSTOP ASSEMBLIES.
5	PROVIDE CONSTANT DOWNWARD SLOPE EACH DIRECTION TO SIDEWALL OF TRENCH.
6	AIR CONDENSATE DRAIN
7	OPEN HUB DRAIN FOR RO SYSTEM TO RECLAIM SYSTEM
8	HOUSEKEEPING SINK AND WASHING MACHINE DRAINS. SEE PLUMBING DRAWINGS.
9	HOUSEKEEPING SINK AND EYE WASH DRAIN ASSEMBLY. SEE PLUMBING DRAWINGS.
10	MANUFACTURED TRENCH DRAIN. CONNECT LATERAL PIPES PER TRENCH DRAIN MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR WATERPROOF SEAL.
11	OPEN HUB DRAIN FOR BACKFLOW PREVENTERS TO RECLAIM SYSTEM
12	DRAIN TO INTERCEPTOR, SEE A0.1 FOR CONTINUATION
14	THESE PIPE EXTEND BENEATH CONVEYOR TRENCH AND NOT THROUGH THE TRENCH, NO EXPECTIONS.
15	OPEN HUB DRAIN FOR WATER SOFTENER TO SAND-OIL INTERCEPTOR
17	OPEN HUB DRAIN FOR RO WASTE TO SAND-OIL INTERCEPTOR
18	SEE A-SERIES SITE UTILITY PLAN FOR CONTINUATION

PIPE SCHEDULE

MARK:	DESCRIPTION:
D1	SCH40 PVC FROM TUNNEL TRENCH TO RECLAIM. MIN 1% SLOPE TOWARD TANK
D2	SCH40 PVC FROM TUNNEL TRENCH TO SAND/OIL INTERCEPTOR. MIN 1% SLOPE TOWARD TANK
D5	SCH40 PVC DRAIN NETWORK TO SAND/ OIL INTERCEPTOR
D6	SCH40 PVC DRAIN TO SIDE WALL OF TRENCH
D7	SCH40 PVC DRAIN TO MAIN RECLAIM DRAIN
GAS	LOCATION OF GAS SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO GAS SUPPLY SYSTEM.
RW3	SCH80 PVC SUCTION LINE FROM TANK TO RECLAIM UNIT
RW4	SCH80 PVC RECLAIM WATER FROM NIGHT TIME SUMP PUMP
SAN	SANITARY, SEE MECHANICAL
SD1	SCH40 PVC ROOF DRAIN TO STORM DRAIN, SEE CIVIL
SL1	SCH40 PVC SLEEVE STUB UP FROM EQUIPMENT ROOM TO SIDE WALL OF TRENCH
SL2	SCH40 PVC SLEEVE FOR AIR HOSE TO RECLAIM
SL3	SCH40 PVC LOW LEVEL SENSOR CONDUIT TO RECLAIM
SL4	SCH40 PVC SLEEVE FOR COMPRESSED AIR HOSE TO IN-PAVEMENT BOX
SL5	SCH40 PVC SLEEVE FOR WINDOW WASHER FLUID HOSE TO IN-PAVEMENT BOX
SL8	SCH40 PVC SLEEVE FROM STORAGE ROOM TO MAT WASHING SINKS FOR DEGREASER
WTR	LOCATION OF WATER SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO MUNICIPAL WATER SUPPLY SYSTEM.

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

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SLAB PLUMBING PLAN

SHEET NUMBER:

A1.3

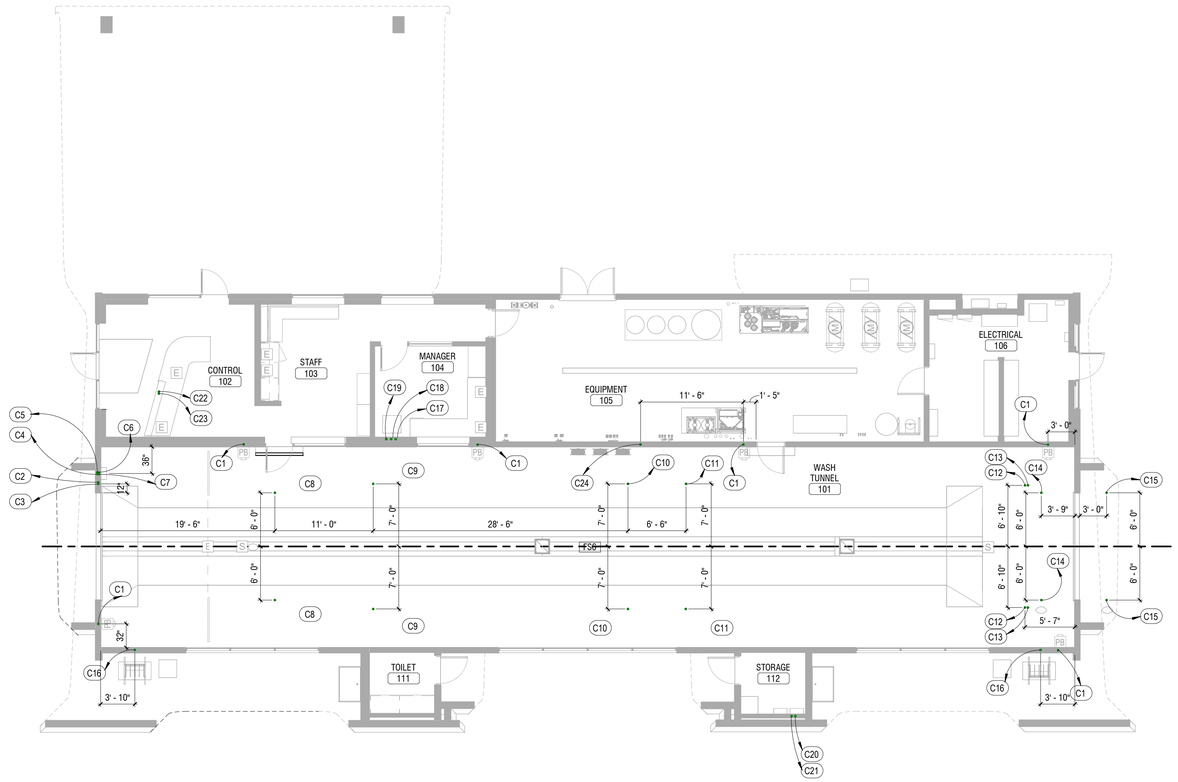
BINDING

UNDERSLAB CONDUIT SCHEDULE

#:	SIZE	DESCRIPTION:
C1	3/4"	START/STOP FROM DEVICE TO MCC
C2	3/4"	OVERHEAD DOOR OPERATOR CONTROL FOR FUTURE EQUIPMENT
C3	3/4"	OVERHEAD DOOR OPERATOR POWER FOR FUTURE EQUIPMENT
C4	3/4"	LOADING POWER
C5	3/4"	LOADING FUTURE ACCESSORY POWER
C6	3/4"	LOADING CONTROL TO MANAGER'S OFFICE SERVER RACK TERMINATION
C7	3/4"	LOADING CONTROL TO MCC TC
C8	3/4"	ENTER EYE TO MCC TC
C9	1 1/4"	ROCKER BRUSH 1 TO MCC
C10	1 1/4"	OMNI ARCH MOTOR TO MCC
C11	1 1/4"	ROCKER BRUSH 2 TO MCC
C12	1 1/4"	TIRE SHINE MOTOR TO MCC
C13	1 1/4"	BRUSH MOTOR TO MCC
C14	3/4"	TIRE SHINE PHOTO EYE TO MCC TC
C15	3/4"	ANTI-COLLISION EYE TO MCC TC
C16	3/4"	MAT WASHER TO HOUSE PANEL
C17	3/4"	SERVER RACK IN MANAGER TO VACUUM AIR CONTROLLER
C18	1 1/2"	SERVER RACK IN MANAGER TO MCC TC
C19	3"	25-CONDUCTOR, 24AWG CABLE TO MCC TC, PROVIDE DRB SYSTEM PART #CA05025 WITH DRB PART #CN25250 MAKE CONNECTOR AT THE SRMB. TERMINATE CONDUCTORS AT MCC TC PER MANUFACTURER'S PUBLISHED LITERATURE
C20	3/4"	VACUUM CONTROLLER WALL RACK TO SERVER
C21	3/4"	VACUUM CONTROLLER WALL RACK TO MCC
C22	3/4"	SUPER OPERATOR CONTROL DESK STATION TO MCC TC
C23	3/4"	SUPER OPERATOR CONTROL DESK STATION TO SERVER
C24	3/4"	RO HOSE REEL CONTROL SWITCH AT TUNNEL TO RO DELIVERY PUMP CONTROLLER

GENERAL NOTES

A. NOT ALL CONDUITS ARE IDENTIFIED. REFER TO E-SERIES SHEETS FOR ADDITIONAL REQUIREMENTS.
B. ALL EXPOSED CONDUIT INSIDE BUILDING TO BE NON-METALLIC AND LIQUID-TIGHT.
C. UNLESS OTHERWISE IDENTIFIED, 3/4" IS THE SMALLEST DIAMETER CONDUIT ALLOWED FOR ENTIRE PROJECT.
D. CONDUITS THAT EXIST AT THE OPPOSITE SIDE OF THE CONVEYOR TRENCH FROM THE EQUIPMENT ROOM SHALL EXTEND AROUND OR BENEATH THE TRENCH, AND NEVER THROUGH THE TRENCH.



A1 CONDUIT PLAN
1/8" = 1'-0"

0' 2' 4' 8'

NORTH

BINDING

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

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AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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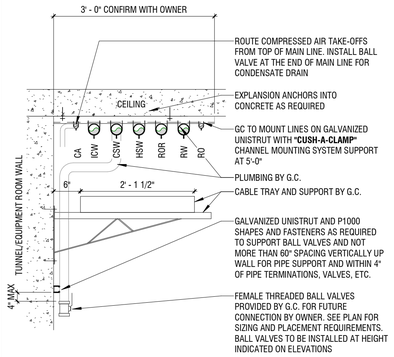
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WASH EQUIPMENT SPECIAL CONDUIT PLAN

SHEET NUMBER:

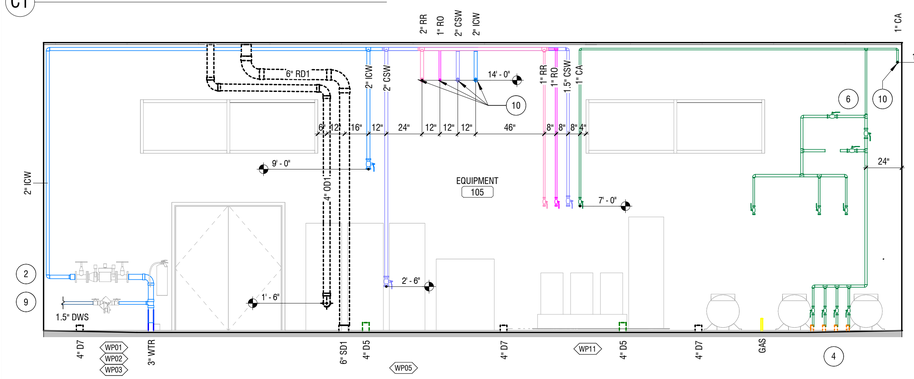
A1.4

NOTE: DO NOT INSTALL VALVES UNTIL EQUIPMENT IS SET IN FINAL PLACE AND LOCATION OF VALVE IS CONFIRMED WITH OWNER



NOTE: REFER TO EQUIPMENT PLAN, PLUMBING PLAN AND PLUMBING ELEVATIONS FOR EXACT SPACING AND LAYOUT. FAILURE TO COORDINATE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ANY AND ALL PIPING.

C1 UNISTRUT & CABLE TRAY



B1 EQUIPMENT ROOM - EXTERIOR SIDE

1/4" = 1'-0"

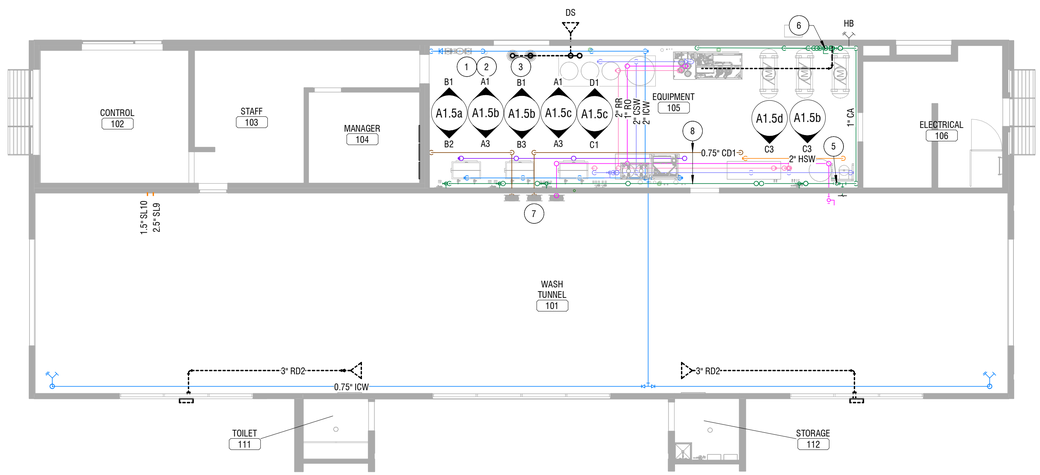
B2 EQUIPMENT ROOM - TUNNEL SIDE

1/4" = 1'-0"



EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE



A2 WASH EQUIPMENT PLUMBING PLAN

1/8" = 1'-0"

0' 4' 8' 16'

NORTH

GENERAL NOTES

A. SEE P-SERIES PLUMBING DRAWINGS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS.
B. SEE SLAB PLUMBING PLAN **A1.3** FOR BENEATH SLAB SLEEVES AND PIPING.
C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNERS CONSTRUCTION FORCES.
D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE".
E. ALL PIPING TO BE GRADE L COPPER UNLESS SPECIFICALLY DESIGNATED OTHERWISE BELOW.
F. ALL COPPER PIPE SHALL INCORPORATE BRAZED COPPER FITTINGS.
G. ALL BALL VALVES TO BE FEMALE PIPE THREAD, BRASS BODIED, FULL PORT.
H. PIPE INSULATION SHALL BE PROVIDED AT HOT WATER PIPING AND EXTERIOR IN-GROUND PIPING THAT IS LESS THAN 36" BURIAL DEPTH OR FROST LINE.
I. PIPE INSULATION PROVIDED SHALL BE 1" FOR PIPES UP TO AND INCLUDING 2" IN DIAMETER, AND 1.5" FOR PIPES MORE THAN 2" IN DIAMETER.
J. ABBREVIATIONS:

CA	COMPRESSED AIR: RAPIDAIR FASTPIPE SYSTEM AND COMPRESSION FITTINGS. USE MAXLINE WHEN INDICATED TO RUN IN UNDERGROUND PVC SLEEVE.
HOTSY	HOTSY PRESSURE WASHING SYSTEM: PROVIDE 1/2" 4000PSI BLACK HIGH PRESSURE HOT WATER HOSE AND FITTINGS. PROVIDE CUSH-A-CLAMP UNISTRUT SUPPORT.
ICW	INDUSTRIAL COLD WATER: GRADE L COPPER PIPE
RO	REVERSE OSMOSIS WATER: GRADE L COPPER
RR	RO REJECT RECOVERY WATER: GRADE L COPPER
RW	RECLAIM WATER: GRADE L COPPER
SCW	SOFT COLD WATER: GRADE L COPPER
SHW	SOFT HOT WATER: GRADE L COPPER
SHWU	SOFT HOT WATER UNDER SLAB: GRADE K COPPER
VAC	VACUUM PIPING: PROVIDE SOLID CORE PVC
NPT	NATIONAL PIPE THREAD

LEGEND

- HOSE BIB 'HB-1'. PROVIDE & INSTALL 3/4" THREADED OUTLET BALL VALVE. INSTALL AT 66" ABOVE SLAB UNLESS OTHERWISE NOTED ON PLANS. ADDITIONAL HOSE BIBS ARE SPECIFIED ON SHEET PLUMBING PLANS.
- BALL VALVE. PROVIDE FEMALE PIPE THREAD UNITS - SEE DETAIL **3** FOR VALVE WITH DROP STEM MOUNTING.
- T/D — TEST & DRAIN BALL VALVE.
- SHUT-OFF BALL VALVE.
- ELBOW. PROVIDE QUANTITY AS REQUIRED.
- TEE.
- MAKE PLUMBING CONNECTION.
- DOWNSPOUT NOZZLE.

SHEET NOTES

#:	DESCRIPTION:
1	WATER MAIN SERVICE ENTRANCE STUB-UP LOCATION.
2	SEE PLUMBING DRAWINGS FOR WATER SERVICE BACKFLOW PREVENTERS, INSTALL PARALLEL TO WALL IN SHORTEST REASONABLE LENGTH. WHEN SEPARATE DOMESTIC WATER SERVICE BLACKFLOW PREVENTER IS REQUIRED, INSTALL BELOW THE MAIN WASH PROCESS BACKFLOW PREVENTER.
3	SEE PLUMBING DRAWINGS FOR WATER SOFTENER SYSTEM (2" PRE-PLUMBED PIPING MANIFOLD.
4	UNDERGROUND COMPRESSED AIR PIPING FROM AIR DRYER TO VACUUM ARCH BASES. PROVIDE SHUT-OFF BALL VALVE TO EACH OF (2) PIPES.
5	BALL VALVE FOR EXTENSION TO FUTURE AIR VALVES AT BLOWER ROOM FANS.
6	CONNECT (3) AIR COMPRESSORS TO SINGLE AIR DRYER & PROVIDE BYPASS LOOP AROUND AIR DRYER. SEE PLUMBING DETAIL.
7	PIPING TO TUNNEL HOSE BIBBS SHALL SLOPE DOWN TO VALVE, SO TUNNEL PIPING CAN BE DRAINED EASILY, TYPICAL. INSTALL VALVES AT +48".
8	MOUNT PIPE OR GROUP OF PIPES AS OCCURS TO OWNERS UNISTRUT RACK SYSTEM PER DETAIL, TYPICAL AT SOUTH WALL.
9	CONNECTION TO DOMESTIC WATER SYSTEM, SEE PLUMBING.
10	CROSSOVER POINT. PTOVIDE UNISTRUT BRIDGE AT 4'-0" OC SPACING.
11	EXTEND PIPE THROUGH WALL AT THIS LOCATION

PIPE SCHEDULE

MARK:	DESCRIPTION:
CA	COMPRESSED AIR
CD1	WALL CLEANER
CD2	PREP GUN
CSW	SOFT COLD WATER
D5	SCH40 PVC DRAIN NETWORK TO SAND/ OIL INTERCEPTOR
D6	SCH40 PVC DRAIN TO SIDE WALL OF TRENCH
D7	SCH40 PVC DRAIN TO MAIN RECLAIM DRAIN
DWS	DOMESTIC WATER SERVICE
GAS	LOCATION OF GAS SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO GAS SUPPLY SYSTEM.
HSW	SOFT HOT WATER
ICW	INDUSTRIAL COLD WATER
OD1	SCH40 PVC OVERFLOW DRAIN TO EXTERIOR
RD1	SCH40 PVC ROOF DRAIN TO STORM DRAIN
RD2	SCH40 PVC CONCEALED DRAIN TO ROOF
RO	REVERSE OSMOSIS WATER - SPOT-FREE RINSE
RR	RO REJECT RECOVERY
RW1	SCH40 PVC RECLAIM WATER FROM FILTER TO RECLAIM PUMP HEADER
RW3	SCH80 PVC SUCTION LINE FROM TANK TO RECLAIM UNIT
RW4	SCH80 PVC RECLAIM WATER FROM NIGHT TIME SUMP PUMP
SD1	SCH40 PVC ROOF DRAIN TO STORM DRAIN, SEE CIVIL
SL1	SCH40 PVC SLEEVE STUB UP FROM EQUIPMENT ROOM TO SIDE WALL OF TRENCH
SL2	SCH40 PVC SLEEVE FOR AIR HOSE TO RECLAIM
SL3	SCH40 PVC LOW LEVEL SENSOR CONDUIT TO RECLAIM
SL4	SCH40 PVC SLEEVE FOR COMPRESSED AIR HOSE TO IN-PAVEMENT BOX
SL9	SCH40 PVC SLEEVE THROUGH WALL NEAR CEILING FOR LED WALL POWER CABLES
SL10	SCH40 PVC SLEEVE THROUGH WALL NEAR CEILING FOR LED WALL CONTROL CABLES
WTR	LOCATION OF WATER SERVICE ENTERING BUILDING. SEE MECHNICAL PLANS FOR INTERIOR PIPE SIZE AND CONTINUATION INSIDE OF BUILDING AND CIVIL UTILITY PLAN FOR EXTERIOR PIPE SIZE AND CONTINUATION ON SITE TO MUNICIPAL WATER SUPPLY SYSTEM.

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JOSHUA HOWE
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

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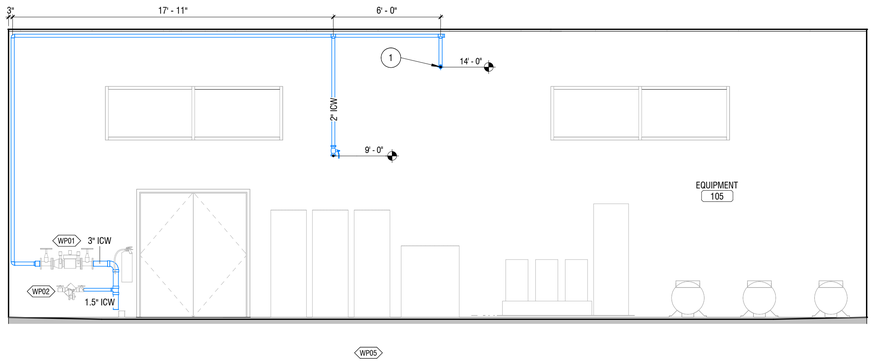
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DRAWN:	AS
JOB NUMBER:	22001-01
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WASH EQUIPMENT PLUMBING PLAN

SHEET NUMBER:

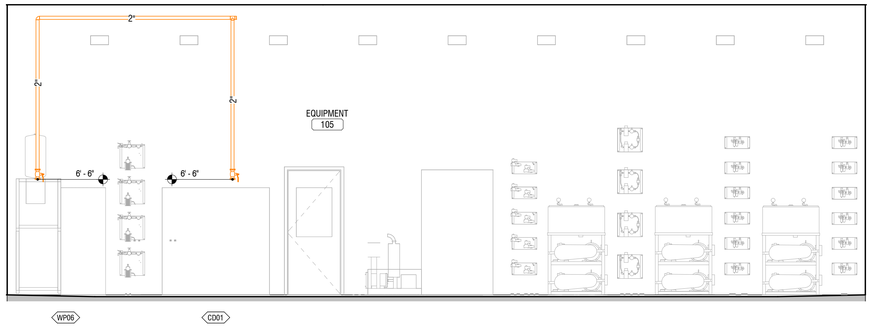
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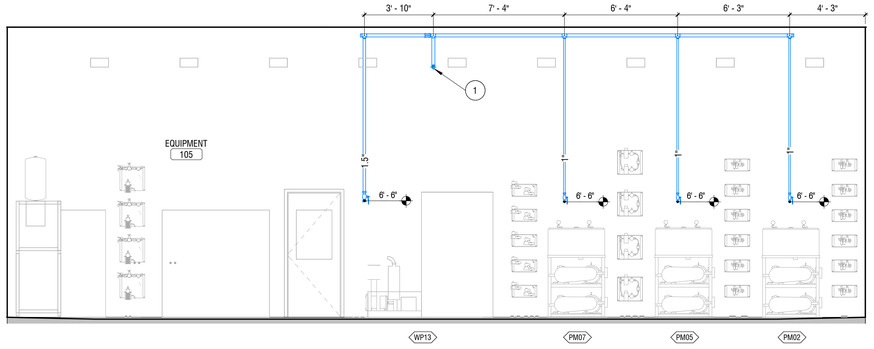


B1 EQUIPMENT ROOM ICW - EXTERIOR SIDE

1/4" = 1'-0"

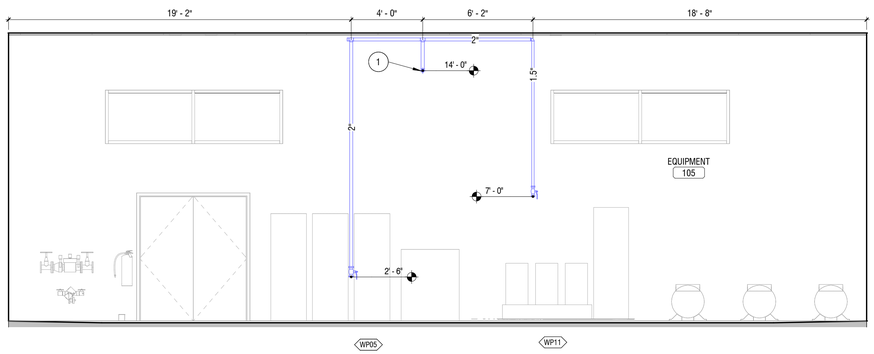


C3 EQUIPMENT ROOM HSW - TUNNEL SIDE



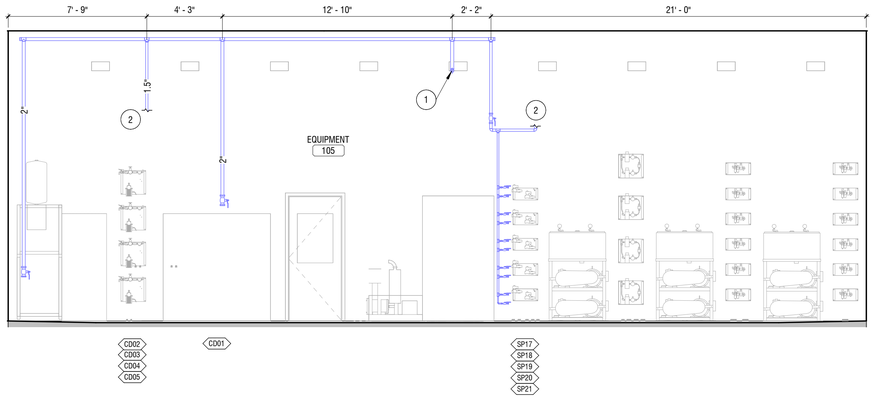
B3 EQUIPMENT ROOM ICW - TUNNEL SIDE

1/4" = 1'-0"



A1 EQUIPMENT ROOM CSW - EXTERIOR SIDE

1/4" = 1'-0"



A3 EQUIPMENT ROOM CSW - TUNNEL SIDE

1/4" = 1'-0"

0' 2' 4' 8'

GENERAL NOTES

A. SEE P-SERIES PLUMBING DRAWINGS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS.
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NPT	NATIONAL PIPE THREAD

LEGEND

3/4"	HOSE BIB 'HB-1'. PROVIDE & INSTALL 3/4" THREADED OUTLET BALL VALVE. INSTALL AT 66" ABOVE SLAB UNLESS OTHERWISE NOTED ON PLANS. ADDITIONAL HOSE BIBS ARE SPECIFIED ON SHEET PLUMBING PLANS.
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T/D	TEST & DRAIN BALL VALVE.
	SHUT-OFF BALL VALVE.
	ELBOW. PROVIDE QUANTITY AS REQUIRED.
	TEE.
	MAKE PLUMBING CONNECTION.
	DOWNSPOUT NOZZLE.

SHEET NOTES

#:	DESCRIPTION:
1	CROSSOVER POINT. PTOVIDE UNISTRUT BRIDGE AT 4'-0" OC SPACING.
2	CONNECT TO BALL VALVE ON RR.

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

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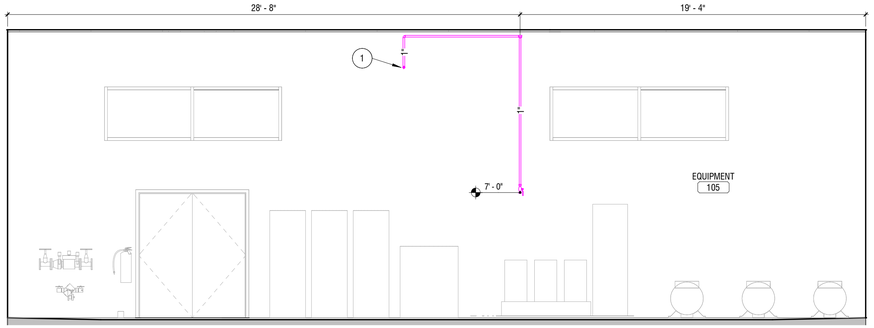
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JOB NUMBER:	22001-01
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WASH EQUIPMENT PLUMBING ELEVATIONS

SHEET NUMBER:

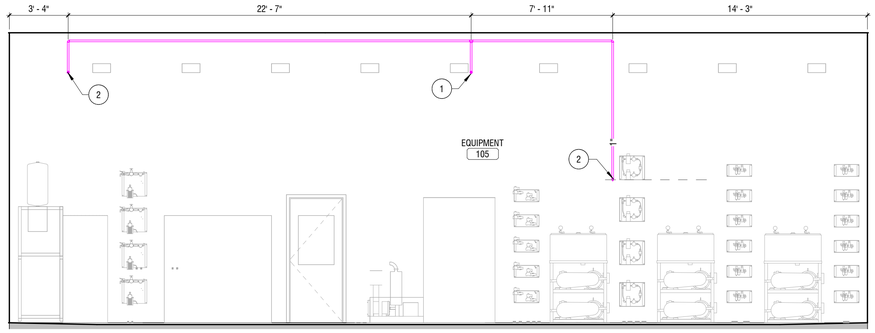
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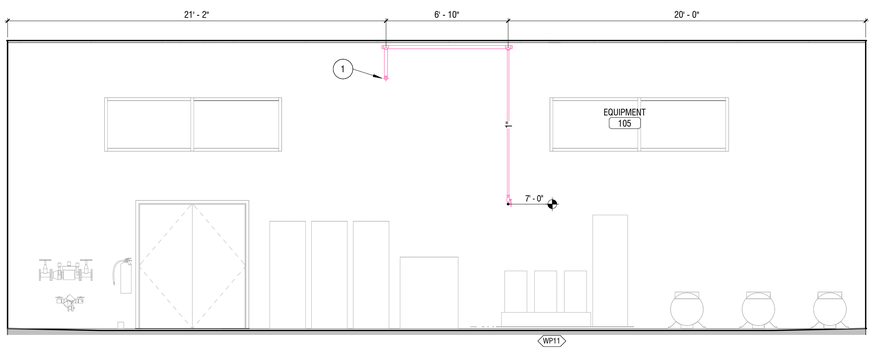
D1 EQUIPMENT ROOM RO - EXTERIOR SIDE

1/4" = 1'-0"

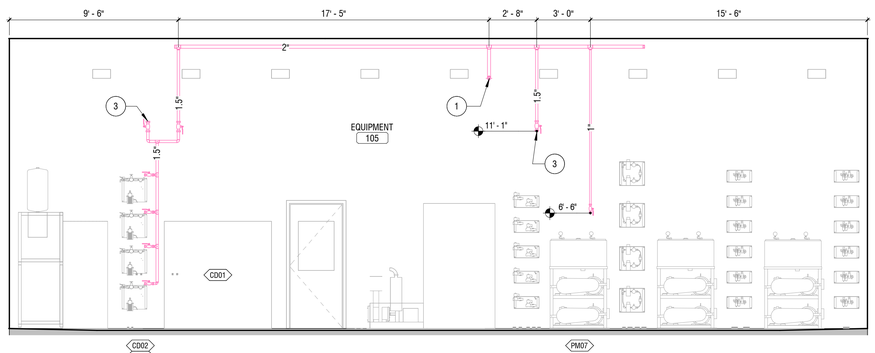


C1 EQUIPMENT ROOM RO - TUNNEL SIDE

1/4" = 1'-0"



A1 EQUIPMENT ROOM RR - EXTERIOR SIDE



A3 EQUIPMENT ROOM RR - TUNNEL SIDE

0' 2' 4' 8'

GENERAL NOTES

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D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE".
E. ALL PIPING TO BE GRADE L COPPER UNLESS SPECIFICALLY DESIGNATED OTHERWISE BELOW.
F. ALL COPPER PIPE SHALL INCORPORATE BRAZED COPPER FITTINGS.
G. ALL BALL VALVES TO BE FEMALE PIPE THREAD, BRASS BODIED, FULL PORT.
H. PIPE INSULATION SHALL BE PROVIDED AT HOT WATER PIPING AND EXTERIOR IN-GROUND PIPING THAT IS LESS THAN 36" BURIAL DEPTH OR FROST LINE.
I. PIPE INSULATION PROVIDED SHALL BE 1" FOR PIPES UP TO AND INCLUDING 2" IN DIAMETER, AND 1.5" FOR PIPES MORE THAN 2" IN DIAMETER.
J. ABBREVIATIONS:

CA	COMPRESSED AIR: RAPIDAIR FASTPIPE SYSTEM AND COMPRESSION FITTINGS. USE MAXLINE WHEN INDICATED TO RUN IN UNDERGROUND PVC SLEEVE.
HOTSY	HOTSY PRESSURE WASHING SYSTEM: PROVIDE 1/2" 4000PSI BLACK HIGH PRESSURE HOT WATER HOSE AND FITTINGS. PROVIDE CUSH-A-CLAMP UNISTRUT SUPPORT.
ICW	INDUSTRIAL COLD WATER: GRADE L COPPER PIPE
RO	REVERSE OSMOSIS WATER: GRADE L COPPER
RR	RO REJECT RECOVERY WATER: GRADE L COPPER
RW	RECLAIM WATER: GRADE L COPPER
SCW	SOFT COLD WATER: GRADE L COPPER
SHW	SOFT HOT WATER: GRADE L COPPER
SHWU	SOFT HOT WATER UNDER SLAB: GRADE K COPPER
VAC	VACUUM PIPING: PROVIDE SOLID CORE PVC
NPT	NATIONAL PIPE THREAD

LEGEND

- HOSE BIB 'HB-1'. PROVIDE & INSTALL 3/4" THREADED OUTLET BALL VALVE. INSTALL AT 66" ABOVE SLAB UNLESS OTHERWISE NOTED ON PLANS. ADDITIONAL HOSE BIBS ARE SPECIFIED ON SHEET PLUMBING PLANS.
- BALL VALVE. PROVIDE FEMALE PIPE THREAD UNITS - SEE DETAIL **3** FOR VALVE WITH DROP STEM MOUNTING.
- T/D — TEST & DRAIN BALL VALVE.
- SHUT-OFF BALL VALVE.
- ELBOW. PROVIDE QUANTITY AS REQUIRED.
- TEE.
- MAKE PLUMBING CONNECTION.
- DOWNSPOUT NOZZLE.

SHEET NOTES

#:	DESCRIPTION:
1	CROSSOVER POINT. PTOVIDE UNISTRUT BRIDGE AT 4'-0" OC SPACING.
2	EXTEND PIPE THROUGH WALL AT THIS LOCATION
3	CONNECT TO CSW.

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

STAMP:

STATE OF FLORIDA
JOSHUA HOWE
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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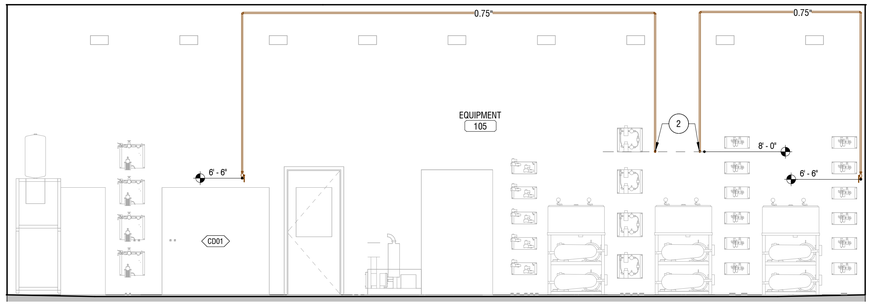
CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

WASH EQUIPMENT PLUMBING ELEVATIONS

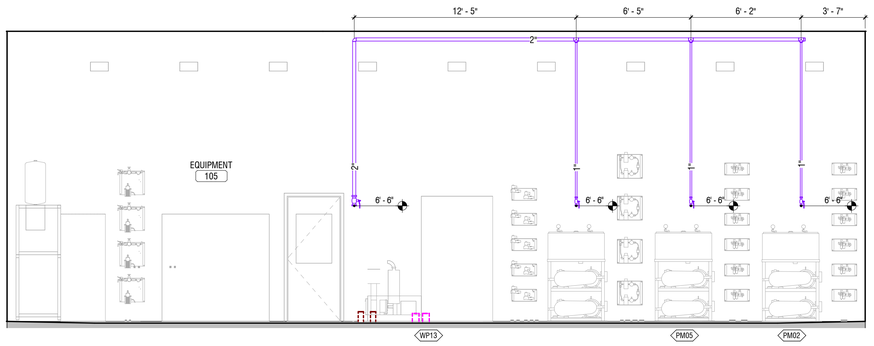
SHEET NUMBER:

A1.5c

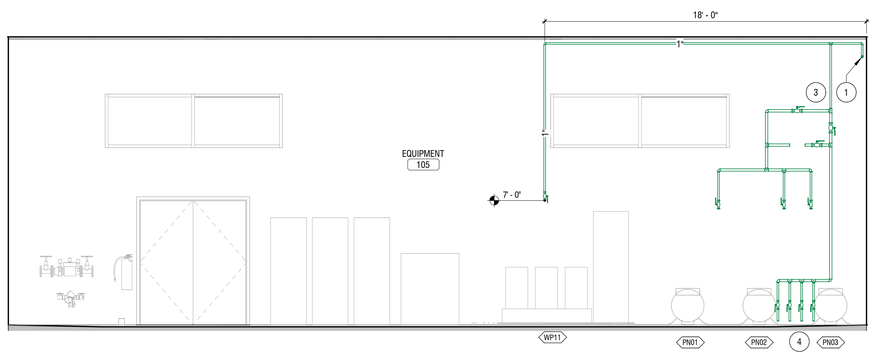
BINDING



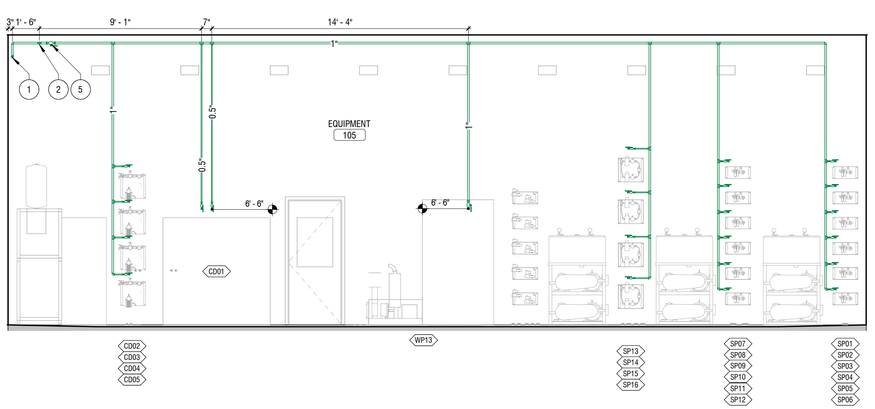
C3 EQUIPMENT ROOM CD - TUNNEL SIDE



B3 EQUIPMENT ROOM RW - TUNNEL SIDE
1/4" = 1'-0"



A1 EQUIPMENT ROOM CA - EXTERIOR SIDE
1/4" = 1'-0"



A3 EQUIPMENT ROOM CA - TUNNEL SIDE
1/4" = 1'-0"

GENERAL NOTES

A. SEE P-SERIES PLUMBING DRAWINGS FOR CONTINUATION AND ADDITIONAL REQUIREMENTS.
B. SEE SLAB PLUMBING PLAN **A1.3** FOR BENEATH SLAB SLEEVES AND PIPING.
C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNERS CONSTRUCTION FORCES.
D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE".
E. ALL PIPING TO BE GRADE L COPPER UNLESS SPECIFICALLY DESIGNATED OTHERWISE BELOW.
F. ALL COPPER PIPE SHALL INCORPORATE BRAZED COPPER FITTINGS.
G. ALL BALL VALVES TO BE FEMALE PIPE THREAD, BRASS BODIED, FULL PORT.
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LEGEND

HB-1	HOSE BIB 'HB-1'. PROVIDE & INSTALL 3/4" THREADED OUTLET BALL VALVE. INSTALL AT 66" ABOVE SLAB UNLESS OTHERWISE NOTED ON PLANS. ADDITIONAL HOSE BIBS ARE SPECIFIED ON SHEET PLUMBING PLANS.
	BALL VALVE. PROVIDE FEMALE PIPE THREAD UNITS - SEE DETAIL **3** FOR VALVE WITH DROP STEM MOUNTING.
T/D	TEST & DRAIN BALL VALVE.
	SHUT-OFF BALL VALVE.
	ELBOW. PROVIDE QUANTITY AS REQUIRED.
	TEE.
	MAKE PLUMBING CONNECTION.
	DOWNSPOUT NOZZLE.

SHEET NOTES

#:	DESCRIPTION:
1	CROSSOVER POINT. PTOVIDE UNISTRUT BRIDGE AT 4'-0" OC SPACING.
2	EXTEND PIPE THROUGH WALL AT THIS LOCATION
3	CONNECT (3) AIR COMPRESSORS TO SINGLE AIR DRYER & PROVIDE BYPASS LOOP AROUND AIR DRYER. SEE PLUMBING DETAIL.
4	UNDERGROUND COMPRESSED AIR PIPING FROM AIR DRYER TO VACUUM ARCH BASES. PROVIDE SHUT-OFF BALL VALVE TO EACH OF (2) PIPES.
5	BALL VALVE FOR EXTENSION TO FUTURE AIR VALVES AT BLOWER ROOM FANS.

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
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PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
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TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

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ISSUED FOR:	08/22/24 BID SET

WASH EQUIPMENT PLUMBING ELEVATIONS

SHEET NUMBER:

A1.5d

BINDING

SCHEDULE KEY

B-	BOBRICK ACCESSORY CATOLOGUE NUMBERS
GC	GENERAL CONTRACTOR
O	OWNER
OC	OWNERS CONSTRUCTION FORCES
NA	NOT APPLICABLE
/ R	RECESSED APPLICATION
V	VARIES
	GREY COLOR INDICATES NOT APPLICABLE
XXXX	EQUIPMENT ITEM TAGS, SEE VENDOR'S DATA SHEET PROVIDED BY OTHERS FOR ADDITIONAL REQUIREMENTS

GENERAL NOTES

A. FOR EQUIPMENT AND ACCESSORY MOUNTING HEIGHTS, SEE SHEET **A2.3**.

B. WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR BLOCKING IN ACCORDANCE WITH THE EQUIPMENT SCHEDULE. WALL MOUNTED ITEMS AT CONCRETE WALLS DO NOT REQUIRE BACKING.

C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNER'S CONSTRUCTION FORCES.

D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE" .

E. UNLESS SCHEDULED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, UNLOADING AND PLACING ALL CAR WASH TUNNEL EQUIPMENT. OWNER SHALL BE RESPONSIBLE FOR SECURING AND MOUNTING THE EQUIPMENT.

F. GC IS RESPONSIBLE FOR UNLOADING AND MOVING ALL TUNNEL EQUIPMENT.

G. GENERAL CONTRACTOR IS RESPONSIBLE TO REQUEST & RECIEVE DRB, AVW EQUIPMENT COMPANY, INC & VACUTECH SYSTEMS EQUIPMENT DRAWINGS FROM OWNER PRIOR TO PROJECT BIDDING AND INCORPORATE AS CONTRACT DOCUMENTS FOR THIS PROJECT.

H. SHIELDED VFD CABLE MUST BE PROVIDED BETWEEN ALL VFD'S AND PANEL AND FROM VFD'S TO MOTORS.

DEFINITIONS

FURNISH PURCHASE AND DELIVER ITEM TO SITE. THIS DOES NOT INCLUDE UNLOADING FROM DELIVERY VEHICLE.

UNLOAD REMOVE ITEM FROM DELIVERY VEHICLE AND PLACE AT OWNER'S CHOSEN LOCATION.

SET IN PLACE MOVED FROM ANY LOCATION ON PROPERTY AND SET IN APPROPRIATE PLACE. THIS LOCATION SHALL BE CONFIRMED BY THE OWNER'S REPRESENTATIVE. GC SHALL PHOTOGRAPH EACH ITEM OR GROUP OF ITEMS FOR VERIFICATION.

INSTALL EQUIPMENT TO BE FASTENED, MOUNTED OR SECURED IN PLACE. DOES NOT INCLUDE PLUMBING OR ELECTRICAL CONNECTIONS.

HARDWIRE PROVIDE & CONNECT CONDUCTORS FROM SOURCE TO EQUIPMENT; THIS INCLUDES BOTH POWER AND CONTROLS CONDUCTORS. TEST EACH CONNECTION FOR EQUIPMENT START UP. PROVIDE A MOTOR BUMP TO TEST ALL MOTORS FOR CORRECT ROTATION. SHIELDED VFD CABLE MUST BE PROVIDED FOR ANY AND ALL MOTORS THAT CONNECT TO A VFD.

PROVIDE CONDUIT EXTEND APPROPRIATE POWER AND/ OR CONTROLS CONDUIT FROM SOURCE TO EQUIPMENT AND PROVIDE APPROPRIATELY SIZED JBOX AT TERMINATION. SEE SCHEDULE FOR ROUTING CONDUITS OVERHEAD OR UNDERGROUND. AT CAR WASH TUNNEL, ONLY LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (LFNC) WITH IP65 JBOXES WILL BE ACCEPTED.

PROVIDE VALVES THIS INCLUDES VALVES AND ALL NECESSARY PLUMBING FITTINGS FOR COMPLETE, CODE COMPLIANT INSTALLATION. ALL CODE REQUIRED VALVES MAY NOT BE SHOWN. IT IS THE PLUMBER'S RESPONSIBILITY TO PROVIDE ADDITIONAL VALVES AS NECESSARY.

PLUMBING CONNECTION PROVIDE PIPING AND FITTINGS REQUIRED AND MAKE FINAL CONNECTION TO EQUIPMENT FOR ALL WATER, SEWER, GAS, AND COMPRESSED AIR SYSTEMS. THIS INCLUDES CONNECTION OF ALL SOLENOIDS OR SOLENOID MANIFOLDS TO PIPING SYSTEM.

WP - WATER PROCESSING / BOILER SYSTEMS

			RESPONSIBILITY					POWER		CONDUIT			PLUMBING							
ITEM	AVW #	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	HARDWIRE	VOLTS	AMPS	ROUTING	PROVIDE	CONTROLS WIRING	VALVES	PLUMB IN	INLET SIZE	PLUMB OUT	OUT SIZE	MOUNTING	COMMENTS
WP01		BACKFLOW PREVENTER; 3" (PROCESS WATER)	GC	GC	GC	GC	-	-	-	-	-	-	GC	GC	3"	GC	3"	-	INSTALL RPBP'S IN PARALLEL
WP02		BACKFLOW PREVENTER; 1 1/2" (DOMESTIC)	GC	GC	GC	GC	-	-	-	-	-	-	GC	GC	1.5"	GC	1.5"	-	INSTALL RPBP'S IN PARALLEL
WP03		MAIN WATER SUPPLY	GC	GC	GC	GC	-	-	-	-	-	-	GC	GC	3"	GC	3"	GROUND/ R	SEE CIVIL SITE UTILITY PLAN, INSTALL PER LOCAL REQUIREMENTS
WP04		8" GO - GRADE CLEAN OUT	GC	GC	GC	GC	-	-	-	-	-	-	GC	GC	-	GC	-	GROUND	SEE SHEET A7.1
WP05	26	WATER SOFTENER SYSTEM; TRI-PLEX PROPAK 3FC300M	O	OC	OC	OC	GC	110VAC	0.25	UG	GC	GC	GC	GC	2"	GC	2"	SLAB	VWW VS2-2000-210 - SKID MOUNTED, DUPLEX W/ PRE-PLUMBED MANIFOLD
WP06		WATER HEATER SYSTEM, 399,000 BTU PVI SS	O	OC	OC	OC	GC	120	12	UG	GC	PREWIRED	GC	GC	3/4"G, 1.5"W	GC	1.5"	SLAB	LOCHINVAR WHB399, 4-1/4" WC, 22GPM, CONCENTRIC VENT KIT PROVIDED BY GC
WP11	27	REVERSE OSMOSIS SYSTEM SKID	O	OC	OC	OC	GC	120		UG	GC	PREWIRED	GC	GC	1.5"	GC	1.5", 1.5"	SLAB	SEE UNIT DATA SHEET FOR ALL REQUIREMENTS
WP13	28	RECLAIM UNIT	O	OC	OC	OC	GC	480	15	UG	GC	PREWIRED	GC	GC	1.5", 2", 2"	GC	1.5", 1.5"	SLAB	SEE UNIT DATA SHEET FOR ALL REQUIREMENTS
WP31		HOSE REEL; PREP GUN SOAP	OC	OC	OC	OC	-	-	-	-	-	-	-	GC	.75"	O	-	WALL	PROVIDE MCMASTER-CARR ITEM #7079T28
WP32		HOSE REEL; WALL CLEANER	OC	OC	OC	OC	-	-	-	-	-	-	-	GC	.75"	O	-	WALL	PROVIDE MCMASTER-CARR ITEM #7079T28
WP33		HOSE REEL; SPOT FREE / RO	OC	OC	OC	OC	-	-	-	-	-	-	-	GC	.75"	O	-	WALL	PROVIDE MCMASTER-CARR ITEM #7079T28
WP41		SETTLING TANK; 5,000 GA	GC	GC	GC	GC	-	-	-	-	-	-	-	GC	10"	GC	6"	GROUND/ R	SEE SHEET A7.1
WP42		SETTLING TANK; 5,000 GA	GC	GC	GC	GC	-	-	-	-	-	-	-	GC	6"	GC	6"	GROUND/ R	SEE SHEET A7.1
WP43		SETTLING TANK; 5,000 GA	GC	GC	GC	GC	-	-	-	-	-	-	-	GC	6"	GC	6"	GROUND/ R	SEE SHEET A7.1
WP45		SAND/ OIL INTERCEPTOR TANK; 5,000 GA	GC	GC	GC	GC	-	-	-	-	-	-	-	GC	6"	GC	6"	GROUND/ R	SEE SHEET A7.1
WP51		SWIRLY TRENCH DRAIN	O	GC	GC	GC	-	-	-	-	-	-	-	-	-	GC	10"	TRENCH/ R	INSTALL WITH TRENCH FORMS
WP52		SWIRLY TRENCH DRAIN	O	GC	GC	GC	-	-	-	-	-	-	-	-	-	GC	10"	TRENCH/ R	INSTALL WITH TRENCH FORMS

PM - PUMPS AND MOTORS

			RESPONSIBILITY				POWER					CONDUIT		CONTROLS					PLUMBING						
ITEM	AVW #	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	HP	VOLTS	AMPS	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWI RE	VALVES	PLUMB IN	INLET	PLUMB OUT	OUTLET	MOUNTING	COMMENTS
PM01	27CA	PUMP; RO FILTER	0	OC	OC	OC	7.5	460	9	MCC/ UNIT VFD	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	GC	0	1.5"	0	1.5"	SKID	
PM02	5A	DOUBLE STACK PUMPING STATION FRAME & TANK - PREP GUN / BUMPER BLAST	0	OC	OC	OC	-	-	-	-	-	-	-	No	-	-	-	-	GC	0	1"_1"	0	2"_2"	SLAB	
PM03	5AA	PUMP; HIGH PRESSURE, PREP GUN	0	OC	OC	OC	10	460	17	MCC VFD/ MOTOR	GC	UG	GC	No	PREWIRED	PREWIRED	PREWIRED	-	GC	0	1.5"	0	1.5"	STAND	
PM04	24A	PUMP; HIGH PRESSURE H-25, BUMPER BLASTER	0	OC	OC	OC	15	460	17	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	GC	0	1.5"	0	1.5"	STAND	
PM05	24	DOUBLE STACK PUMPING STATION FRAME & TANK - WHEEL BLASTERS	0	OC	OC	OC	-	-	-	-	-	-	-	No	-	-	-	-	GC	GC	1"_1"	0	2"_2"	GROUND	
PM06	24B	PUMP; PIVOTING WHEEL BLASTER	0	OC	OC	OC	15	460	17	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	0	0	1.5"	0	1"	STAND	
PM07	25	DOUBLE STACK PUMPING STATION FRAME & TANK - HIGH PRESSURE ARCH	0	OC	OC	OC	-	-	-	-	-	-	-	No	-	-	-	-	GC	0	1"_1"	0	2"_2"	SLAB	
PM08	25A	PUMP; OCTA ARCH TOP	0	OC	OC	OC	15	460	17	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	0	0	1.5"	0	1"	STAND	
PM09	25B	PUMP; OCTA ARCH SIDES	0	OC	OC	OC	15	460	17	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	0	0	1.5"	0	1"	STAND	
PM10	28FA	PUMP; RECLAIM UNIT	0	OC	OC	OC	5	460	6	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	GC	0	1.5"	0	1.5"	STAND	
PM11	32A	PUMP; CHEMICAL DISPENSING SYSTEM	0	OC	OC	OC	7.5	480	9	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	GC	0	2"	0	.75"	STAND	
PM12	32A	PUMP; CHEMICAL DISPENSING SYSTEM	0	OC	OC	OC	7.5	480	9	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	GC	0	2"	0	.75"	STAND	

PN - PNEUMATIC / COMPRESSED AIR

			RESPONSIBILITY				POWER					CONDUIT		CONTROLS					PLUMBING							
ITEM	AVW #	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	HP	VOLTS	AMPS	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWIRE	VALVES	PLUMB IN	AIR IN SIZE	PLUMB OUT	AIR OUT SIZE	MOUNTING	COMMENTS
PN01	36	AIR COMPRESSOR	OC	OC	OC	OC	10	460	12	HA/ UNIT	GC	UG	GC	No	UNIT PREWIRED	UNIT PREWIRED	UNIT PREWIRED	-	GC	GC	1.5"	O		SLAB	ROTATRY, 80GA
PN02	37	AIR COMPRESSOR	OC	OC	OC	OC	10	460	12	HA/ UNIT	GC	UG	GC	No	UNIT PREWIRED	UNIT PREWIRED	UNIT PREWIRED	-	GC	GC	1.5"	O		SLAB	ROTATRY, 80GA
PN03	38	AIR COMPRESSOR	OC	OC	OC	OC	10	460	12	HA/ UNIT	GC	UG	GC	No	UNIT PREWIRED	UNIT PREWIRED	UNIT PREWIRED	-	GC	GC	1.5"	O		SLAB	ROTATRY, 80GA

TM - TUNNEL EQUIPMENT MOTORS

			RESPONSIBILITY				POWER					CONDUIT		CONTROLS						
ITEM	AVW #	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	HP	VOLTS	AMPS	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWIRE	MOUNTING	COMMENTS
TM01	2A	MOTOR, CONVEYOR 1	0	OC	0	0	20	460	23	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM02	2B	MOTOR, CONVEYOR 2	0	OC	0	0	20	460	23	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM03	8A	MOTOR, TOP BRUSH	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM04	9A	MOTOR, ROCKER BRUSH 1 DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM05	9B	MOTOR, ROCKER BRUSH 1 PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM06	12AA	MOTOR, ENTRY WRAPS DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM07	12AB	MOTOR, ENTRY WRAPS PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM08	12BA	MOTOR, EXIT WRAPS DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM09	12BB	MOTOR, EXIT WRAPS PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM10A	12CA	MOTOR, CONTOUR DS TOP	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM10B	12CB	MOTOR, CONTOUR DS BOTTOM	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM11A	12CC	MOTOR, CONTOUR PS TOP	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM11B	12CD	MOTOR, CONTOUR PS BOTTOM	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM12	14B	MOTOR, OSCILLATING HIGH PRESSURE DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM13	14C	MOTOR, OSCILLATING HIGH PRESSURE PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM14	14A	MOTOR, OSCILLATING HIGH PRESSURE TOP	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM15	16A	MOTOR, MITTER CURTAIN	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM16	17A	MOTOR, ROCKER BRUSH 2 DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM17	17B	MOTOR, ROCKER BRUSH 2 PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM18	23AA	MOTOR, MIRROR WIPER DS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM19	23AB	MOTOR, MIRROR WIPER PS	0	OC	0	0	1.5	460	3	MCC VFD/ MOTOR	GC	OH	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	
TM20	26BA	MOTOR, TIRE SHINE, DRIVER SIDE	0	OC	0	0	1.5	460	2	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
TM21	26BB	MOTOR, TIRE SHINE, PASSENGER SIDE	0	OC	0	0	1.5	460	2	MCC VFD/ MOTOR	GC	UG	GC	Yes	PREWIRED	PREWIRED	PREWIRED	-	FRAME	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT

BM - BLOWER MOTORS

			RESPONSIBILITY				POWER					CONDUIT		CONTROLS						
ITEM	AVW #	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	HP	VOLTS	AMPS	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	WIRING	MOUNTING	COMMENTS
BM01	20AA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM02	20BA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM03	20CA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM04	20DA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM05	21AA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM06	21BA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM07	21CA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM08	21DA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM09	21EA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM10	22AA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM11	22BA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM12	22CA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM13	22DA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM14	22EA	MOTOR, BLOWER	0	OC	0	0	10	460	12	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM15	26CA	MOTOR, BLOWER - SOLORANICS DS	0	OC	0	0	2	460	2	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	
BM16	26DA	MOTOR, BLOWER - SOLORANICS PS	0	OC	0	0	2	460	2	MCC/ MOTOR	GC	OH	GC	Yes	MCC PREWIRED	MCC PREWIRED	MCC PREWIRED	-	ARCH	

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	4/8/24

AQUASONIC CAR WASH
9701 W COLONIAL DRIVE, OCOEE FL 34761

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P.O. BOX 4545
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

EQUIPMENT SCHEDULE

SHEET NUMBER:
A1.6a

BINDING

SCHEDULE KEY

B-	BOBRICK ACCESSORY CATOLOGUE NUMBERS
GC	GENERAL CONTRACTOR
O	OWNER
OC	OWNERS CONSTRUCTION FORCES
NA	NOT APPLICABLE
/ R	RECESSED APPLICATION
V	VARIES
	GREY COLOR INDICATES NOT APPLICABLE
XXXX	EQUIPMENT ITEM TAGS, SEE VENDORS DATA SHEET PROVIDED BY OTHERS FOR ADDITIONAL REQUIREMENTS

GENERAL NOTES

A. FOR EQUIPMENT AND ACCESSORY MOUNTING HEIGHTS, SEE SHEET **A2.3**.

B. WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR BLOCKING IN ACCORDANCE WITH THE EQUIPMENT SCHEDULE. WALL MOUNTED ITEMS AT CONCRETE WALLS DO NOT REQUIRE BACKING.

C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNER'S CONSTRUCTION FORCES.

D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE" .

E. UNLESS SCHEDULED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, UNLOADING AND PLACING ALL CAR WASH TUNNEL EQUIPMENT. OWNER SHALL BE RESPONSIBLE FOR SECURING AND MOUNTING THE EQUIPMENT.

F. GC IS RESPONSIBLE FOR UNLOADING AND MOVING ALL TUNNEL EQUIPMENT.

G. GENERAL CONTRACTOR IS RESPONSIBLE TO REQUEST & RECIEVE DRB, AVW EQUIPMENT COMPANY, INC & VACUTECH SYSTEMS EQUIPMENT DRAWINGS FROM OWNER PRIOR TO PROJECT BIDDING AND INCORPORATE AS CONTRACT DOCUMENTS FOR THIS PROJECT.

H. SHIELDED VFD CABLE MUST BE PROVIDED BETWEEN ALL VFD'S AND PANEL AND FROM VFD'S TO MOTORS.

DEFINITIONS

FURNISH PURCHASE AND DELIVER ITEM TO SITE, THIS DOES NOT INCLUDE UNLOADING FROM DELIVERY VEHICLE.

UNLOAD REMOVE ITEM FROM DELIVERY VEHICLE AND PLACE AT OWNER'S CHOSEN LOCATION.

SET IN PLACE MOVED FROM ANY LOCATION ON PROPERTY AND SET IN APPROPRIATE PLACE. THIS LOCATION SHALL BE CONFIRMED BY THE OWNER'S REPRESENTATIVE. GC SHALL PHOTOGRAPH EACH ITEM OR GROUP OF ITEMS FOR VERIFICATION.

INSTALL EQUIPMENT TO BE FASTENED, MOUNTED OR SECURED IN PLACE. DOES NOT INCLUDE PLUMBING OR ELECTRICAL CONNECTIONS.

HARDWIRE PROVIDE & CONNECT CONDUCTORS FROM SOURCE TO EQUIPMENT; THIS INCLUDES BOTH POWER AND CONTROLS CONDUCTORS. TEST EACH CONNECTION FOR EQUIPMENT START UP. PROVIDE A MOTOR BUMP TO TEST ALL MOTORS FOR CORRECT ROTATION. SHIELDED VFD CABLE MUST BE PROVIDED FOR ANY AND ALL MOTORS THAT CONNECT TO A VFD.

PROVIDE CONDUIT EXTEND APPROPRIATE POWER AND/ OR CONTROLS CONDUIT FROM SOURCE TO EQUIPMENT AND PROVIDE APPROPRIATELY SIZED JBOX AT TERMINATION. SEE SCHEDULE FOR ROUTING CONDUITS OVERHEAD OR UNDERGROUND. AT CAR WASH TUNNEL, ONLY LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (LFNC) WITH IP65 JBOXES WILL BE ACCEPTED.

PROVIDE VALVES THIS INCLUDES VALVES AND ALL NECESSARY PLUMBING FITTINGS FOR COMPLETE, CODE COMPLIANT INSTALLATION. ALL CODE REQUIRED VALVES MAY NOT BE SHOWN. IT IS THE PLUMBER'S RESPONSIBILITY TO PROVIDE ADDITIONAL VALVES AS NECESSARY.

PLUMBING CONNECTION PROVIDE PIPING AND FITTINGS REQUIRED AND MAKE FINAL CONNECTION TO EQUIPMENT FOR ALL WATER, SEWER, GAS, AND COMPRESSED AIR SYSTEMS. THIS INCLUDES CONNECTION OF ALL SOLENOIDS OR SOLENOID MANIFOLDS TO PIPING SYSTEM.

CD - CHEMICAL DISPENSING

ITEM	AVW #	DESCRIPTION	RESPONSIBILITY				CONDUIT		POWER		CONTROLS				PLUMBING					MOUNTING	COMMENTS
			FURNISH	UNLOAD	SET IN PLACE	INSTALL	ROUTING	PROVIDE	VOLTS	AMPS	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWIRE	VALVES	PLUMB IN	IN SIZE	PLUMB OUT	OUT SIZE		
CD01	32	CHEMICAL DELIVERY SYSTEM	O	OC	OC	OC	UG	GC	120	-	6x SOUTHWIRE MCTC-18-7S-1	TERMINAL BLOCK	TC/ JBOX	GC	GC	O	1.5",1.5"	O	1.5",1.5"	WALL	SIX 7-CONDUCTOR CABLES REQUIRED FOR CONTROLS
CD01A	13AA	CHEMICAL SOLENOID; CTA 1	-	-	-	-	UG	GC	120	0.25	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	-	-	-	-	
CD02	13A	FLOJET PUMP PANEL CTA 1	O	OC	OC	OC	-	-	-	-	-	-	-	-	GC	O	.5"	O	-	WALL	
CD02A	14AA	CHEMICAL SOLENOID; CTA 2	-	-	-	-	UG	GC	120	0.25	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	.5"	-	-	-	
CD03	14A	FLOJET PUMP PANEL CTA 2	O	OC	OC	OC	-	-	-	-	-	-	-	-	GC	O	.5"	O	-	WALL	
CD04	15A	FLOJET PUMP PANEL CTA 3	O	OC	OC	OC	-	-	-	-	-	-	-	-	GC	O	.5"	O	-	WALL	
CD04A	15AA	CHEMICAL SOLENOID; CTA 3	-	-	-	-	UG	GC	120	0.25A	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	-	-	-	-	
CD05		FLOJET PUMP PANEL WALL CLEANER	O	OC	OC	OC	-	-	-	-	-	-	-	-	GC	O	.5"	O	-	WALL	
CD05A		CHEMICAL SOLENOID; WALL CLEANER	-	-	-	-	UG	GC	120	0.25A	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	-	-	-	-	
CD06A		WINDSHIELD WASHER FLUID DIAPHRAGM PROPORTIONER	O	OC	OC	OC	UG	GC	-	-	-	-	-	-	GC	GC	.5"	GC	.5"	WALL	
CD06B		WINDSHIELD WASHER FLUID DIAPHRAGM PROPORTIONER	O	OC	OC	OC	UG	GC	-	-	-	-	-	-	GC	GC	.5"	GC	.5"	WALL	
CD06C		WINDSHIELD WASHER FLUID DIAPHRAGM PUMP	O	OC	OC	OC	UG	GC	120		-	-	LA/ PUMP	GC	GC	GC	-	GC	-	WALL	
CD06D		WINDSHIELD WASHER FLUID DIAPHRAGM PUMP	O	OC	OC	OC	UG	GC	120		-	-	LA/ PUMP	GC	GC	GC	-	GC	-	WALL	
CD07		FLOJET PUMP PANEL DEGREASER	O	OC	OC	OC	-	-	-	-	-	-	-	-	GC	O	.5"	O	-	WALL	

SP - SOLENOID MANIFOLDS & PANELS

ITEM	AVW #	DESCRIPTION	RESPONSIBILITY				POWER		CONDUIT		CONTROLS					PLUMBING				MOUNTING	COMMENTS
			FURNISH	UNLOAD	SET IN PLACE	INSTALL	VOLTS	AMPS	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWIRE	VALVES	PLUMB IN	IN SIZE			
SP01	11A	AIR CONTROL PANEL 1	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP01A	11AA	AIR SOLENOID; AIR CONTROL PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP02	16E	AIR CONTROL PANEL 2	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP02A	16EA	AIR SOLENOID; AIR CONTROL PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP03	24F	AIR CONTROL PANEL 3	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP03A	24FA	AIR SOLENOID; AIR CONTROL PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP04	25H	AIR CONTROL PANEL 4	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP04A	25HA	AIR SOLENOID; AIR CONTROL PANEL 4	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP05	13A	AIR CONTROL PANEL 5	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP05A	13AA	AIR SOLENOID; AIR CONTROL PANEL 5	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP06	22C	AIR CONTROL PANEL 6	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP06A	22CA	AIR SOLENOID; AIR CONTROL PANEL 6	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP07	25F	AIR CONTROL PANEL 7	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP07A	25FA	AIR SOLENOID; AIR CONTROL PANEL 7	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP08	26AC	AIR CONTROL PANEL 8	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP08A	26ACA	AIR SOLENOID; AIR CONTROL PANEL 8	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP09	16D	AIR CONTROL PANEL 9	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP09A	16DA	AIR SOLENOID; AIR CONTROL PANEL 9	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP10	23E	AIR CONTROL PANEL 10	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP10A	23EA	AIR SOLENOID; AIR CONTROL PANEL 10	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP11	25G	AIR CONTROL PANEL 11	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP11A	25GA	AIR SOLENOID; AIR CONTROL PANEL 11	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP12	26BC	AIR CONTROL PANEL 12	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ SOLENOID	GC	GC	GC	.5"		WALL	
SP12A	26BCA	AIR SOLENOID; AIR CONTROL PANEL 12	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP13	12AC	RETRACT AND AIR ASSIST PANEL 1	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP13A	12ACA	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP13B	12ACB	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP13C	12ACC	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP14	12BC	RETRACT AND AIR ASSIST PANEL, EXIT WRAPS	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP14A	12BCA	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP14B	12BCB	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP14C	12BCC	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP15	15C	RETRACT AND AIR ASSIST PANEL 3	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP15A	15CA	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP15B	15CB	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP15C	15CC	AIR SOLENOID; RETRACT AND AIR ASSIST PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP16	8B	TOP BRUSH AIR ASSIST PANEL	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP16A	8BA	AIR SOLENOID; TOP BRUSH AIR ASSIST PANEL	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP16B	8BB	AIR SOLENOID; TOP BRUSH AIR ASSIST PANEL	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP17	9C	WATER CONTROL PANEL 1	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP17A	9CA	WATER SOLENOID; WATER CONTROL PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP17B	9CB	WATER SOLENOID; WATER CONTROL PANEL 1	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP18	18CA	WATER CONTROL PANEL 2	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP18A	18CAA	WATER SOLENOID; WATER CONTROL PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP18B	18CAB	WATER SOLENOID; WATER CONTROL PANEL 2	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP19	20DA	WATER CONTROL PANEL 3	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP19A	20DAA	WATER SOLENOID; WATER CONTROL PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP19B	20DAB	WATER SOLENOID; WATER CONTROL PANEL 3	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP20	18BA	WATER CONTROL PANEL 4	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP20A	18BAA	WATER SOLENOID; WATER CONTROL PANEL 4	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP20B	18BAB	WATER SOLENOID; WATER CONTROL PANEL 4	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP21	19C	WATER CONTROL PANEL 5	O	OC	OC	OC	-	-	UG	GC	No	SOUTHWIRE MCTC-18-5S-1	TERMINAL BLOCK	TC/ SOLENOIDS	GC	GC	GC	.5"		WALL	
SP21A	19CA	WATER SOLENOID; WATER CONTROL PANEL 5	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP21B	19CB	WATER SOLENOID; WATER CONTROL PANEL 5	-	-	-	-	120	0.25	-	-	Yes	-	-	-	-	-	-	-		-	
SP26	14AA	CHEMICAL SOLENOID; CTA 2	-	-	-	-	120	0.25	UG	GC		SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	.5"		-	
SP27	13AA	CHEMICAL SOLENOID; CTA 1	-	-	-	-	120	0.25	UG	GC		SOUTHWIRE MCTC-18-3S-1	TERMINAL BLOCK	TC/ JBOX	GC	-	-	-		-	

TE - TUNNEL EQUIPMENT

ITEM	AVW #	DESCRIPTION	RESPONSIBILITY			
			FURNISH	UNLOAD	SET IN PLACE	INSTALL
TE01	1	CORRELATOR PAIR	O	OC	OC	OC
TE02	4	WATERFALL ARCH	O	OC	OC	OC
TE04	5	PREP GUN PAIR	O	OC	OC	OC
TE05	7	OCTA APPLICATOR ARCH SYSTEM	O	OC	OC	OC
TE06	13	CTA 1	O	OC	OC	OC
TE07	8	TOP BRUSH FRAME	O	OC	OC	OC
TE08	9	ROCKER PANEL BRUSH PAIR 1	O	OC	OC	OC
TE09	10	PIVOTING WHEEL BLASTER	O	OC	OC	OC
TE10	11	PIVOTING WHEEL BLASTER	O	OC	OC	OC
TE13	14	CTA 2	O	OC	OC	OC
TE15	14	OCTA PIVOTING OSCILLATING HIGH PRESSURE ARCH	O	OC	OC	OC
TE16	15	CTA 3	O	OC	OC	OC
TE17	16	MITTER CURTAIN FRAME	O	OC	OC	OC
TE18	17	ROCKER PANEL BRUSH PAIR 2	O	OC	OC	OC
TE19	18	OCTA APPLICATOR ARCH FRAME	O	OC	OC	OC
TE20	19	GLASS BLOCK ARCH FRAME	O	OC	OC	OC
TE22	20	BLOWER ARCH FRAME	O	OC	OC	OC
TE23	21	BLOWER ARCH FRAME	O	OC	OC	OC
TE24	22	BLOWER ARCH FRAME	O	OC	OC	OC
TE25	23	FINISHING MODULE FRAME	O	OC	OC	OC
TE26	23A	MIRROR WIPER	O	OC	OC	OC
TE27	23B	TIRE SEAL	O	OC	OC	OC

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STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
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08/22/24 BID SET

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2	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

EQUIPMENT SCHEDULE CONTINUED

SHEET NUMBER:

A1.6b

BINDING

SCHEDULE KEY

B-	BOBRICK ACCESSORY CATOLOGUE NUMBERS
GC	GENERAL CONTRACTOR
O	OWNER
OC	OWNERS CONSTRUCTION FORCES
NA	NOT APPLICABLE
/ R	RECESSED APPLICATION
V	VARIES
	GREY COLOR INDICATES NOT APPLICABLE
XXXX	EQUIPMENT ITEM TAGS, SEE VENDOR'S DATA SHEET PROVIDED BY OTHERS FOR ADDITIONAL REQUIREMENTS

GENERAL NOTES

A. FOR EQUIPMENT AND ACCESSORY MOUNTING HEIGHTS, SEE SHEET **A2.3**.

B. WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR BLOCKING IN ACCORDANCE WITH THE EQUIPMENT SCHEDULE. WALL MOUNTED ITEMS AT CONCRETE WALLS DO NOT REQUIRE BACKING.

C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNER'S CONSTRUCTION FORCES.

D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE" .

E. UNLESS SCHEDULED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, UNLOADING AND PLACING ALL CAR WASH TUNNEL EQUIPMENT. OWNER SHALL BE RESPONSIBLE FOR SECURING AND MOUNTING THE EQUIPMENT.

F. GC IS RESPONSIBLE FOR UNLOADING AND MOVING ALL TUNNEL EQUIPMENT.

G. GENERAL CONTRACTOR IS RESPONSIBLE TO REQUEST & RECIEVE DRB, AVW EQUIPMENT COMPANY, INC & VACUTECH SYSTEMS EQUIPMENT DRAWINGS FROM OWNER PRIOR TO PROJECT BIDDING AND INCORPORATE AS CONTRACT DOCUMENTS FOR THIS PROJECT.

H. SHIELDED VFD CABLE MUST BE PROVIDED BETWEEN ALL VFD'S AND PANEL AND FROM VFD'S TO MOTORS.

DEFINITIONS

FURNISH PURCHASE AND DELIVER ITEM TO SITE. THIS DOES NOT INCLUDE UNLOADING FROM DELIVERY VEHICLE.

UNLOAD REMOVE ITEM FROM DELIVERY VEHICLE AND PLACE AT OWNER'S CHOSEN LOCATION.

SET IN PLACE MOVED FROM ANY LOCATION ON PROPERTY AND SET IN APPROPRIATE PLACE. THIS LOCATION SHALL BE CONFIRMED BY THE OWNER'S REPRESENTATIVE. GC SHALL PHOTOGRAPH EACH ITEM OR GROUP OF ITEMS FOR VERIFICATION.

INSTALL EQUIPMENT TO BE FASTENED, MOUNTED OR SECURED IN PLACE. DOES NOT INCLUDE PLUMBING OR ELECTRICAL CONNECTIONS.

HARDWIRE PROVIDE & CONNECT CONDUCTORS FROM SOURCE TO EQUIPMENT; THIS INCLUDES BOTH POWER AND CONTROLS CONDUCTORS. TEST EACH CONNECTION FOR EQUIPMENT START UP. PROVIDE A MOTOR BUMP TO TEST ALL MOTORS FOR CORRECT ROTATION. SHIELDED VFD CABLE MUST BE PROVIDED FOR ANY AND ALL MOTORS THAT CONNECT TO A VFD.

PROVIDE CONDUIT EXTEND APPROPRIATE POWER AND/ OR CONTROLS CONDUIT FROM SOURCE TO EQUIPMENT AND PROVIDE APPROPRIATELY SIZED JBOX AT TERMINATION. SEE SCHEDULE FOR ROUTING CONDUITS OVERHEAD OR UNDERGROUND. AT CAR WASH TUNNEL, ONLY LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (LFNC) WITH IP65 JBOXES WILL BE ACCEPTED.

PROVIDE VALVES THIS INCLUDES VALVES AND ALL NECESSARY PLUMBING FITTINGS FOR COMPLETE, CODE COMPLIANT INSTALLATION. ALL CODE REQUIRED VALVES MAY NOT BE SHOWN. IT IS THE PLUMBER'S RESPONSIBILITY TO PROVIDE ADDITIONAL VALVES AS NECESSARY.

PLUMBING CONNECTION PROVIDE PIPING AND FITTINGS REQUIRED AND MAKE FINAL CONNECTION TO EQUIPMENT FOR ALL WATER, SEWER, GAS, AND COMPRESSED AIR SYSTEMS. THIS INCLUDES CONNECTION OF ALL SOLENOIDS OR SOLENOID MANIFOLDS TO PIPING SYSTEM.

ELECTRICAL PANELS & CONTROLLERS

ITEM	AVW #	DESCRIPTION	RESPONSIBILITY				POWER			CONDUIT		CONTROLS			MOUNTING	COMMENTS
			FURNISH	UNLOAD	SET IN PLACE	INSTALL	VOLTAGE	POWER FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	WIRE SPEC	CONTROLLER TYPE	FEED FROM/ TO		
CT		CURRENT TRANSFORMER CABINET	GC	GC	GC	GC	480	SEE ONE-LINE	GC	UG	GC	-	-	-	SLAB/ WALL	SPECIFIED BY ENGINEER
EM		ELECTRIC METER	GC	GC	GC	GC	480	SEE ONE-LINE	GC	UG	GC	-	-	-	SLAB/ WALL	SPECIFIED BY ENGINEER
HA		SUB-PANEL (HA): 480Y/277V	GC	GC	GC	GC	480	SEE ONE-LINE	GC	UG	GC	-	-	-	WALL	SPECIFIED BY ENGINEER
IC		IRRIGATION CONTROL PANEL	GC	GC	GC	GC	120	LA/ IC		UG	GC	-	-	-	WALL	SPECIFIED BY ENGINEER
LA		SUB-PANEL (LA): 208Y/120V	GC	GC	GC	GC	120	SEE ONE-LINE	GC	UG	GC	-	-	-	WALL	SPECIFIED BY ENGINEER
LCP		LIGHTING CONTROL PANEL	GC	GC	GC	GC	120	LA/ LCP	GC	UG	GC	-	-	-	WALL	SPECIFIED BY ENGINEER
MCC1	47	MOTOR CONTROL CENTER 1	O	OC	GC	GC	480	MSB/ MCC	GC	OH/UG	GC	#12 AWG/ THHN/ THWN	UG STUBS TO BOTTOM RIGHT SIDE	NEAREST 120VAC PANEL/ MCC	SLAB/ WALL	DESIGNED BY VENDOR
MCC2	47	MOTOR CONTROL CENTER 1	O	OC	GC	GC	480	MSB/ MCC	GC	OH/UG	GC	#12 AWG/ THHN/ THWN	UG STUBS TO BOTTOM RIGHT SIDE	NEAREST 120VAC PANEL/ MCC	SLAB/ WALL	DESIGNED BY VENDOR
MSB		MAIN SWITCH BOARD (MSB); 1600AMP	GC	GC	GC	GC	480	SEE ONE-LINE	GC	UG	GC	-	-	-	SLAB/ WALL	SPECIFIED BY ENGINEER
TC	49	TUNNEL CONTROLLER (TC)	O	OC	GC	GC	480	MSB/ MCC	GC	OH/UG	GC	#12 AWG/ THHN/ THWN	UG STUBS TO BOTTOM RIGHT SIDE	NEAREST 120VAC PANEL/ MCC	SLAB/ WALL	OWNER FURNISHED
TXA		TRANSFORMER, 75KVA	GC	GC	GC	GC	480	SEE ON-LINE	GC	UG	GC	-	-	-	SLAB	SPECIFIED BY ENGINEER
VFD1		VFD, VACUUM PRODUCER 1	O	OC	OC	OC	480	MSB/ VFD	GC	UG	GC	-	-	-	WALL	USE SHIELDED VFD CABLE
VFD2		VFD, VACUUM PRODUCER 2	O	OC	OC	OC	480	MSB/ VFD	GC	UG	GC	-	-	-	WALL	USE SHIELDED VFD CABLE
X		SIGN, PYLON	O	GC	O	O		LA/ SIGN	GC	UG	GC	CAT6 OUTDOOR	IP65 RJ45	SERVER/ SIGN	PAD	

ES - ELECTRICAL SIGNAGE

ITEM	DESCRIPTION	RESPONSIBILITY				POWER		CONDUIT		CONTROLS					MOUNTING	COMMENTS
		FURNISH	UNLOAD	SET IN PLACE	INSTALL	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	TC FUNCTION	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO	HARDWIRE		
ES01	SIGN, "EXIT ONLY"	O	GC	O	O	LA/ SIGN	GC	UG	GC	No	-	-	-	-	PAD	
ES02	SIGN, "EXIT ONLY"	O	GC	O	O	LA/ SIGN	GC	UG	GC	No	-	-	-	-	PAD	
ES03	SIGN, INTERNALLY ILLUMINATED	O	GC	O	O	LA/ SIGN	GC	UG	GC	Yes	CAT6 OUTDOOR	IP65 RJ45	MCC TC/ SIGN	GC	PAD	
ES04	SIGN, DIGITAL RELAX/ GO	O	GC	O	O	LA/ SIGN	GC	UG	GC	Yes	CAT6 OUTDOOR	IP65 RJ45	MCC TC/ SIGN	GC	PAD	
ES05	SIGN, "EXIT ONLY"	O	GC	O	O	LA/ SIGN	GC	UG	GC	No	-	-	-	-	PAD	
ES06	SIGN, "EXIT ONLY"	O	GC	O	O	LA/ SIGN	GC	UG	GC	No	-	-	-	-	PAD	

SS - SENSORS & SWITCHES

ITEM	AVW #	DESCRIPTION	RESPONSIBILITY				POWER		CONDUIT		CONTROLS					MOUNTING	COMMENTS
			FURNISH	UNLOAD	SET IN PLACE	INSTALL	VOLTS	AMPS	ROUTING	PROVIDE	TC FUNCTION	HARDWIRE	WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO		
SS01	5AB	LOW LEVEL SWITCH	O	OC	OC	OC	120	0.28	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-3S-1	CONDULET	TC/ SWITCH	ON UNIT	
SS02	24C	LOW LEVEL SWITCH	O	OC	OC	OC	120	0.28	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-3S-1	CONDULET	TC/ SWITCH	ON UNIT	
SS03	25C	LOW LEVEL SWITCH	O	OC	OC	OC	120	0.28	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-3S-1	CONDULET	TC/ SWITCH	ON UNIT	
SS05		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	IP65 RATED START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO TC
SS06		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO WBC
SS07		TRUCK BED SONAR	O	OC	OC	OC	-	-	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-5S-1	IP65 CONDULET	TC/ SENSOR	FRAME	
SS08	6	DOUBLE PHOTO EYE, ENTER EYES & TIRE LOCATE EYES	O	OC	OC	OC	-	-	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-3S-1	REMOTE JBOX	2x TC/ EYES	PEDESTAL	EXTEND RECEIVER CONDUITS BELOW CONVEYOR TRENCH, WIRE PER MANUF INSTRUCTIONS
SS09		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	IP65 RATED START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO TC
SS10		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	IP65 RATED START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO TC
SS12		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	IP65 RATED START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO TC
SS13		PHOTO EYE, TIRE SHINE	O	OC	OC	OC	120	-	UG	GC	Yes	GC	MANUF. PREWIRED WHIP	TC TERMINAL BLOCK	TC/ EYES	PEDESTAL	EXTEND RECEIVER CONDUITS BELOW CONVEYOR TRENCH, WIRE PER MANUF INSTRUCTIONS
SS14		PHOTO EYE, ANTI-COLLISION	O	OC	OC	OC	120	-	UG	GC	Yes	GC	MANUF. PREWIRED WHIP	TC TERMINAL BLOCK	TC/ EYES	PEDESTAL	EXTEND RECEIVER CONDUITS BELOW CONVEYOR TRENCH, WIRE PER MANUF INSTRUCTIONS
SS15		EMERGENCY START/ STOP PUSH BUTTON, TWIST TO RESET	GC	GC	GC	GC	120	-	UG	GC	Yes	GC	#16 AWG/ THHN/ THWN	UNIT BOX	TC/ UNIT	WALL	IP65 RATED START & STOP WITH LED STATUS INDICATOR; ALL INDIVIDUALLY HOMERUN TO TC
SS16	2C	CONVEYOR REMOTE PULSAR SWITCH	O	OC	OC	OC	-	-	UG	GC	Yes	GC	SOUTHWIRE MCTC-18-5S-1	IP65 CONDULET	TC/ SENSOR	FRAME	
SS21		PRESSURE TRANSDUCER, VAC SEPARATOR 2	O	OC	OC	OC	0-10VDC	4-20Ma	UG	GC	No	GC	SOUTHWIRE MCTC-18-3S-1	IP65 CONDULET	VFD/ TRANSDUCER	ON UNIT	INSTALL PER VACUUM SYSTEM MANUFACTURERS PUBLISHED INSTRUCTIONS
SS31		PRESSURE TRANSDUCER, VAC SEPARATOR 1	O	OC	OC	OC	0-10VDC	4-20Ma	UG	GC	No	GC	SOUTHWIRE MCTC-18-3S-1	IP65 CONDULET	VFD/ TRANSDUCER	ON UNIT	INSTALL PER VACUUM SYSTEM MANUFACTURERS PUBLISHED INSTRUCTIONS

EE - OTHER ELECTRICAL EQUIPMENT

ITEM	DESCRIPTION	RESPONSIBILITY				CONDUIT		POWER FEED FROM/ TO	MOUNTING	COMMENTS
		FURNISH	UNLOAD	SET IN PLACE	INSTALL	ROUTING	PROVIDE			
EE01	CONTROL DESK PC	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE02	CONTROL DESK PRINTER	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE03	REFRIGERATOR, UNDER COUNTER	GC	GC	GC	GC	UG	GC	LA/ RECEPTACLE	CABINET	SUMMIT APPLIANCE AL54 OR APPROVED EQUAL, 4.8 CU FT, 22.63"D X 23.63W X 32"H, STAINLESS STEEL/BLACK
EE04	COFFEE MAKER	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE05	MICROWAVE	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE07	RACK FOR POINT OF SALE SERVER	O	GC	O	O	OH	GC	LA/ RECEPTACLE	WALL	LOCKABLE
EE08	MANAGER PRINTER	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE09	MANAGER PC	O	O	O	O	UG	GC	LA/ RECEPTACLE	COUNTER	
EE10	LED WALL	O	O	O	O	OH	GC	LA/ RECEPTACLE	SLAB	(4) DEDICATED QUAD OUTLETS FOR POWER (110V 20A) LOCATED NEAR CEILING IN CONTROL 102 & (8) CAT-8 DATA CONDUITS TO SERVER RACK IN MANAGER 104
EE11	PROJECTOR CONTROL PANEL	O	O	O	O	OH	GC	LA/ RECEPTACLE	WALL	MOUNT HIGH ON WALL (120V)
EE12	PROJECTOR	O	O	O	O	OH	GC	LA/ RECEPTACLE	CEILING	
EE13	RACK FOR VACUUM CONTROLLER	O	GC	O	O	OH	GC	LA/ RECEPTACLE	WALL	

WAP - WIRELESS ACCESS POINTS

ITEM	DESCRIPTION	RESPONSIBILITY				CONDUIT		POWER FEED FROM/ TO	MOUNTING	COMMENTS
		FURNISH	UNLOAD	SET IN PLACE	INSTALL	ROUTING	PROVIDE			
WAP1	WIRELESS ACCESS POINT	O	GC	GC	GC	OH	GC	LA/ UNIT	WALL	
WAP2	WIRELESS ACCESS POINT	O	GC	GC	GC	OH	GC	LA/ UNIT	WALL	
WAP3	WIRELESS ACCESS POINT	O	GC	GC	GC	OH	GC	LA/ UNIT	WALL	
WAP4	WIRELESS ACCESS POINT	O	GC	GC	GC	OH	GC	LA/ UNIT	WALL	
WAP5	WIRELESS ACCESS POINT	O	GC	GC	GC	OH	GC	LA/ UNIT	WALL	

HV - HVAC (SEE MECHANICAL PLANS FOR LOCATIONS)

ITEM	DESCRIPTION	COMMENTS
HV01	GAS METER	SEE PLANS

ME - MISC OWNER FURNISHED ITEMS

ITEM	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL
ME01	STORAGE RACKING	O	GC	GC	GC
ME02	WASHER/ DRYER COMBO	O	GC	GC	GC
ME03	STAFF ROOM TABLE	O	GC	GC	GC
ME04	CLEARANCE BAR	O	OC	OC	OC
ME05	CLEARANCE BAR	O	OC	OC	OC

S - SPEAKERS

ITEM	DESCRIPTION	RESPONSIBILITY				COMMENTS
		FURNISH	UNLOAD	SET IN PLACE	INSTALL	
S1	SPEAKER	O	GC	GC	GC	RECESSED IN SOFFIT
S2	SPEAKER	O	GC	GC	GC	RECESSED IN SOFFIT
S3	SPEAKER	O	GC	GC	GC	RECESSED IN SOFFIT
S4	SPEAKER	O	GC	GC	GC	RECESSED IN SOFFIT
S7	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S8	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S9	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S10	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S11	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S12	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER
S13	SPEAKER	O	GC	GC	GC	LANDSCAPE SPEAKER

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SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
2050 ASTE WAY
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

EQUIPMENT SCHEDULE CONTINUED

SHEET NUMBER:

A1.6c

BINDING

SCHEDULE KEY

B-	BOBRICK ACCESSORY CATOLOGUE NUMBERS
GC	GENERAL CONTRACTOR
O	OWNER
OC	OWNERS CONSTRUCTION FORCES
NA	NOT APPLICABLE
/ R	RECESSED APPLICATION
V	VARIES
	GREY COLOR INDICATES NOT APPLICABLE
XXXX	EQUIPMENT ITEM TAGS, SEE VENDOR'S DATA SHEET PROVIDED BY OTHERS FOR ADDITIONAL REQUIREMENTS

GENERAL NOTES

A. FOR EQUIPMENT AND ACCESSORY MOUNTING HEIGHTS, SEE SHEET **A2.3**.

B. WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR BLOCKING IN ACCORDANCE WITH THE EQUIPMENT SCHEDULE. WALL MOUNTED ITEMS AT CONCRETE WALLS DO NOT REQUIRE BACKING.

C. COORDINATE SEQUENCING AND INSTALLATION OF EQUIPMENT POWER AND PLUMBING SYSTEMS WITH OWNER'S CONSTRUCTION FORCES.

D. PROVIDE ALL INDICATED CONDUITS AND VALVES FOR ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE TO BE "FUTURE" .

E. UNLESS SCHEDULED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, UNLOADING AND PLACING ALL CAR WASH TUNNEL EQUIPMENT. OWNER SHALL BE RESPONSIBLE FOR SECURING AND MOUNTING THE EQUIPMENT.

F. GC IS RESPONSIBLE FOR UNLOADING AND MOVING ALL TUNNEL EQUIPMENT.

G. GENERAL CONTRACTOR IS RESPONSIBLE TO REQUEST & RECIEVE DRB, AVW EQUIPMENT COMPANY, INC & VACUTECH SYSTEMS EQUIPMENT DRAWINGS FROM OWNER PRIOR TO PROJECT BIDDING AND INCORPORATE AS CONTRACT DOCUMENTS FOR THIS PROJECT.

H. SHIELDED VFD CABLE MUST BE PROVIDED BETWEEN ALL VFD'S AND PANEL AND FROM VFD'S TO MOTORS.

DEFINITIONS

FURNISH PURCHASE AND DELIVER ITEM TO SITE. THIS DOES NOT INCLUDE UNLOADING FROM DELIVERY VEHICLE.

UNLOAD REMOVE ITEM FROM DELIVERY VEHICLE AND PLACE AT OWNER'S CHOSEN LOCATION.

SET IN PLACE MOVED FROM ANY LOCATION ON PROPERTY AND SET IN APPROPRIATE PLACE. THIS LOCATION SHALL BE CONFIRMED BY THE OWNER'S REPRESENTATIVE. GC SHALL PHOTOGRAPH EACH ITEM OR GROUP OF ITEMS FOR VERIFICATION.

INSTALL EQUIPMENT TO BE FASTENED, MOUNTED OR SECURED IN PLACE. DOES NOT INCLUDE PLUMBING OR ELECTRICAL CONNECTIONS.

HARDWIRE PROVIDE & CONNECT CONDUCTORS FROM SOURCE TO EQUIPMENT; THIS INCLUDES BOTH POWER AND CONTROLS CONDUCTORS. TEST EACH CONNECTION FOR EQUIPMENT START UP. PROVIDE A MOTOR BUMP TO TEST ALL MOTORS FOR CORRECT ROTATION. SHIELDED VFD CABLE MUST BE PROVIDED FOR ANY AND ALL MOTORS THAT CONNECT TO A VFD.

PROVIDE CONDUIT EXTEND APPROPRIATE POWER AND/ OR CONTROLS CONDUIT FROM SOURCE TO EQUIPMENT AND PROVIDE APPROPRIATELY SIZED JBOX AT TERMINATION. SEE SCHEDULE FOR ROUTING CONDUITS OVERHEAD OR UNDERGROUND. AT CAR WASH TUNNEL, ONLY LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (LFNC) WITH IP65 JBOXES WILL BE ACCEPTED.

PROVIDE VALVES THIS INCLUDES VALVES AND ALL NECESSARY PLUMBING FITTINGS FOR COMPLETE, CODE COMPLIANT INSTALLATION. ALL CODE REQUIRED VALVES MAY NOT BE SHOWN. IT IS THE PLUMBER'S RESPONSIBILITY TO PROVIDE ADDITIONAL VALVES AS NECESSARY.

PLUMBING CONNECTION PROVIDE PIPING AND FITTINGS REQUIRED AND MAKE FINAL CONNECTION TO EQUIPMENT FOR ALL WATER, SEWER, GAS, AND COMPRESSED AIR SYSTEMS. THIS INCLUDES CONNECTION OF ALL SOLENOIDS OR SOLENOID MANIFOLDS TO PIPING SYSTEM.

VE - VACUUM EQUIPMENT

		RESPONSIBILITY				POWER				CONDUIT		PLUMBING						
ITEM	DESCRIPTION	FURNISH	UNLOAD	SET IN PLACE	INSTALL	VOLTAGE	HP	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	VALVES	PLUMB IN	IN SIZE	PLUMB OUT	OUT SIZE	MOUNTING	COMMENTS
VE01	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE02	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE03	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE04	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE05	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE06	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE07	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE08	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE09	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE10	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE11	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE12	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE13	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE14	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE15	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE16	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE17	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE18	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE19	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE20	DUAL USER PALM ARCH	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	FOOTING	GC TO INSTALL OWNER FURNISHED EMBED PLATES WITH FOUNDATION
VE21	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE01>
VE22	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE02>
VE23	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE03>
VE24	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE04>
VE25	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE05>
VE26	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE06>
VE27	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE07>
VE28	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE08>
VE29	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE09>
VE30	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE10>
VE31	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE11>
VE32	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE12>
VE33	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE13>
VE34	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE14>
VE35	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE15>
VE36	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE16>
VE37	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE17>
VE38	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE18>
VE39	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE19>
VE40	VACUUM AIR TOOL RELEASE SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE20>
VE41	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE01>
VE42	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE03>
VE43	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE05>
VE44	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE07>
VE45	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE09>
VE46	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE11>
VE47	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE13>
VE48	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE15>
VE49	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE17>
VE50	VACUUM ARCH WASHER FLUID SOLENOID	O	OC	OC	OC	110	-	CNTRLR/ UNIT	GC	UG	GC	-	-	-	-	-	ARCH	VACUUM ARCH <VE19>
VE51	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE04>
VE52	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE06>
VE53	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE08>
VE54	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE10>
VE55	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE12>
VE56	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE17>
VE57	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE19>
VE58	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE21>
VE59	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE23>
VE60	VACUUM ARCH AIR MACHINE FOR TIRE AIR	O	OC	OC	OC	110	-	LA/ UNIT	GC	UG	GC	-	GC		-		ARCH	VACUUM ARCH <VE25>
VE61	VAC PRODUCER 1	O	OC	OC	OC	480	40	VFD/ MOTOR	GC	UG	GC	O	O	6"	-	-	PAD	
VE62	VAC PRODUCER 2	O	OC	OC	OC	480	40	VFD/ MOTOR	GC	UG	GC	O	O	6"	-	-	PAD	
VE63	45x96 FILTER SEPARATOR	O	OC	OC	OC	-	-	-	-	-	-	O	O	6"	O	6"	PAD	
VE64	45x96 FILTER SEPARATOR	O	OC	OC	OC	-	-	-	-	-	-	O	O	6"	O	6"	PAD	
VE65	MAT BEATER	O	OC	OC	OC	120	.33	LA/ UNIT	PLUG	UG	GC	-	-	-	-	-	-	PROVIDE DEDICATED EXTERIOR GFCI OUTLET
VE66	MAT BEATER	O	OC	OC	OC	120	.33	LA/ UNIT	PLUG	UG	GC	-	-	-	-	-	-	PROVIDE DEDICATED EXTERIOR GFCI OUTLET
VE67	TOWEL STATION	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	SLAB	
VE68	TOWEL STATION	O	OC	OC	OC	-	-	-	-	-	-	-	-	-	-	-	SLAB	
VE69	MAT WASHING SINK	O	GC	GC	GC	-	-	-	-	-	-	GC	GC	.75"	GC	2"	SLAB	
VE70	MAT WASHING SINK	O	GC	GC	GC	-	-	-	-	-	-	GC	GC	.75"	GC	2"	SLAB	
VE72	PULL BOX	GC	GC	GC	GC	-	-	-	-	UG	GC	-	-	-	-	-	GROUND/ R	
VE74	PULL BOX	GC	GC	GC	GC	-	-	-	-	UG	GC	-	-	-	-	-	GROUND/ R	

NEW SHEET

BINDING

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	4/8/24
2	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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2030 SAW MILL RD
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

EQUIPMENT SCHEDULE CONTINUED

SHEET NUMBER:

A1.6d

GENERAL NOTES

A. FOR EQUIPMENT AND ACCESSORY MOUNTING HEIGHTS, SEE SHEET **A2.3**.

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LEGEND

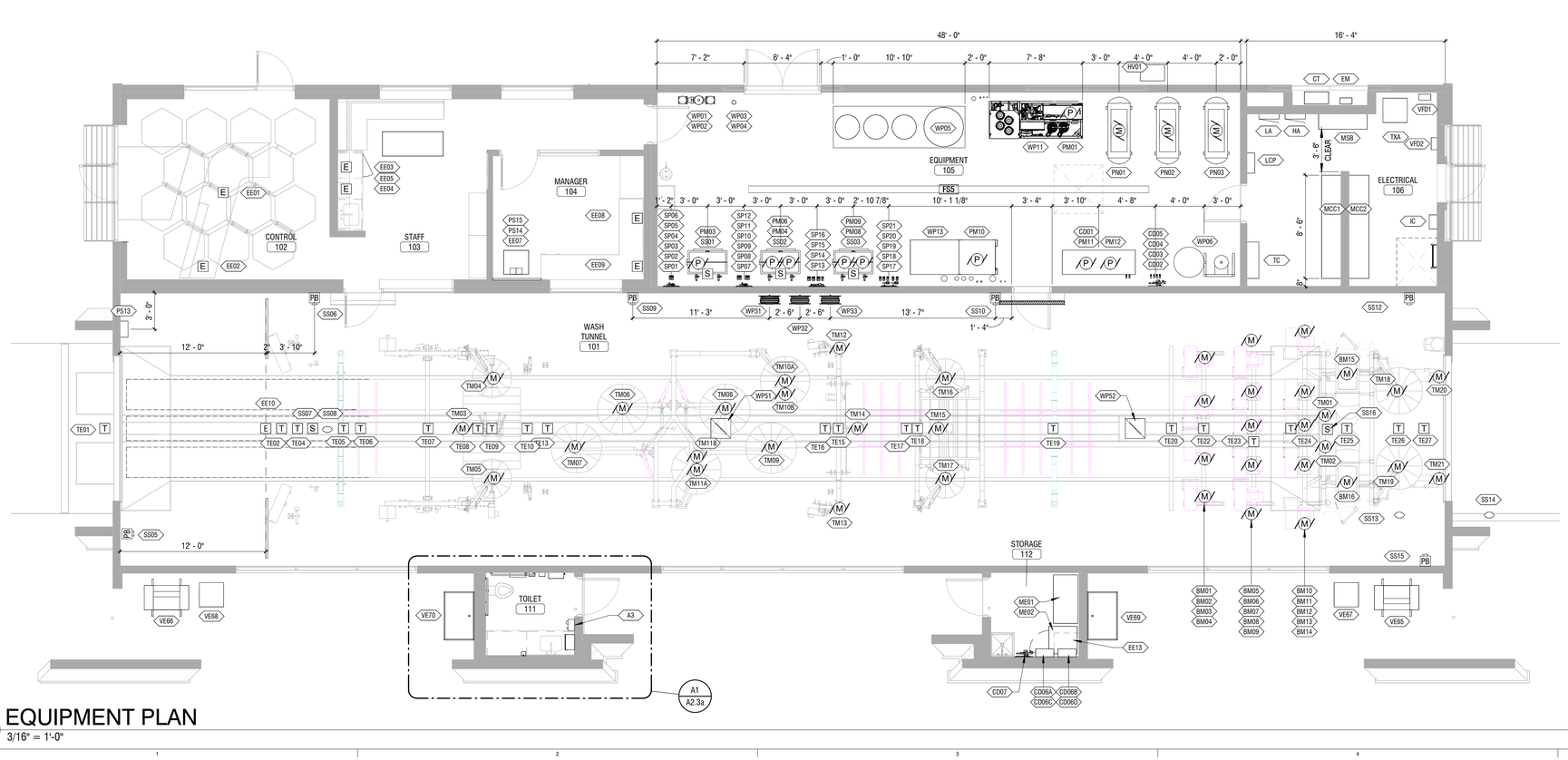
- LED LIGHT FIXTURE
- [E] TUNNEL EQUIPMENT/ SIGN WITH ELECTRICAL CONNECTION
- [S] SENSOR
- (M) MOTOR
- (P) PUMP
- [PB] EMERGENCY START/STOP PUSH BUTTON
- [T] TUNNEL EQUIPMENT

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

MOTOR LIST

	ITEM	AVW #	DESCRIPTION	POWER VOLTAGE	POWER HP	TC FUNCTION	POWER FEED FROM/ TO	MCC BREAKER	VFD IN MCC	VFD NOT IN MCC	VFD BY VENDOR	STARTER IN MCC	STARTER NOT IN MCC	COMMENTS
DELETE BM01 & BM02	BM01	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM02	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM03	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM04	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM05	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM06	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM07	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM08	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM09	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM10	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM11	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM12	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM13	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM14	25	MOTOR, BLOWER	460	10	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM15	26	MOTOR, BLOWER - SOLORANICS DS	460	2	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
	BM16	26	MOTOR, BLOWER - SOLORANICS PS	460	2	Yes	MCC/ MOTOR	No	Yes	No	No	No	No	
DELETE PM02	PM01	30CA	PUMP; RO FILTER	460	7.5	Yes	MCC/ UNIT VFD	No	Yes	No	No	No	No	
	PM03	4A	PUMP; HIGH PRESSURE, PREP GUN	460	10	No	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	PM04		PUMP; HIGH PRESSURE H-25, BUMPER BLASTER	460	15	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	PM06	27A	PUMP; PIVOTING WHEEL BLASTER	460	15	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
DELETE PM09	PM08	28A	PUMP; OCTA ARCH TOP	460	15	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	PM09	28B	PUMP; OCTA ARCH SIDES	460	15	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	PM10	31FA	PUMP; RECLAIM UNIT	460	5	Yes	MCC VFD/ MOTOR	No	No	No	No	No	Yes	
	PM11	46A	PUMP; CHEMICAL DISPENSING SYSTEM	480	7.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	PM12	46A	PUMP; CHEMICAL DISPENSING SYSTEM	480	7.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
DELETE PN03	PN01		AIR COMPRESSOR	460	10	No	HA/ UNIT	No	No	No	No	No	Yes	ROTATRY, 80GA
	PN02		AIR COMPRESSOR	460	10	No	HA/ UNIT	No	No	No	No	No	Yes	ROTATRY, 80GA
	PN03		AIR COMPRESSOR	460	10	No	HA/ UNIT	No	No	No	No	No	Yes	ROTATRY, 80GA
	TM01	2A	MOTOR, CONVEYOR 1	460	20	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM02	2B	MOTOR, CONVEYOR 2	460	20	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM03	8A	MOTOR, TOP BRUSH	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM04	9A	MOTOR, ROCKER BRUSH 1 DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM05	9B	MOTOR, ROCKER BRUSH 1 PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM06	12AA	MOTOR, ENTRY WRAPS DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM07	12AB	MOTOR, ENTRY WRAPS PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM08	12BA	MOTOR, EXIT WRAPS DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM09	12BB	MOTOR, EXIT WRAPS PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM10A	15A	MOTOR, CONTOUR DS TOP	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM10B	15A	MOTOR, CONTOUR DS BOTTOM	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM11A	15B	MOTOR, CONTOUR PS TOP	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM11B	15B	MOTOR, CONTOUR PS BOTTOM	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM12	16B	MOTOR, OSCILLATING HIGH PRESSURE DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM13	16C	MOTOR, OSCILLATING HIGH PRESSURE PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM14	16A	MOTOR, OSCILLATING HIGH PRESSURE TOP	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM15	18	MOTOR, MITTER CURTAIN	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM16	19	MOTOR, ROCKER BRUSH 2 DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM17	19	MOTOR, ROCKER BRUSH 2 PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM18	26	MOTOR, MIRROR WIPER DS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM19	26	MOTOR, MIRROR WIPER PS	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	
	TM20	26	MOTOR, TIRE SHINE, DRIVER SIDE	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	TM21	26	MOTOR, TIRE SHINE, PASSENGER SIDE	460	1.5	Yes	MCC VFD/ MOTOR	No	Yes	No	No	No	No	SEE A1.4 FOR CONDUIT SUB-UP PLACEMENT
	VE61		VAC PRODUCER 1	480	40	No	VFD/ MOTOR	No	No	Yes	No	No	No	
	VE62		VAC PRODUCER 2	480	40	No	VFD/ MOTOR	No	No	Yes	No	No	No	
	VE65		MAT BEATER	120	.33	No	LA/ UNIT	No	No	No	No	No	No	PROVIDE DEDICATED EXTERIOR GFCI OUTLET
	VE66		MAT BEATER	120	.33	No	LA/ UNIT	No	No	No	No	No	No	PROVIDE DEDICATED EXTERIOR GFCI OUTLET



A1 EQUIPMENT PLAN
3/16" = 1'-0"

0' 2' 4' 8'

NORTH

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STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

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#	DATE
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CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

EQUIPMENT PLAN / MOTOR LIST

SHEET NUMBER:

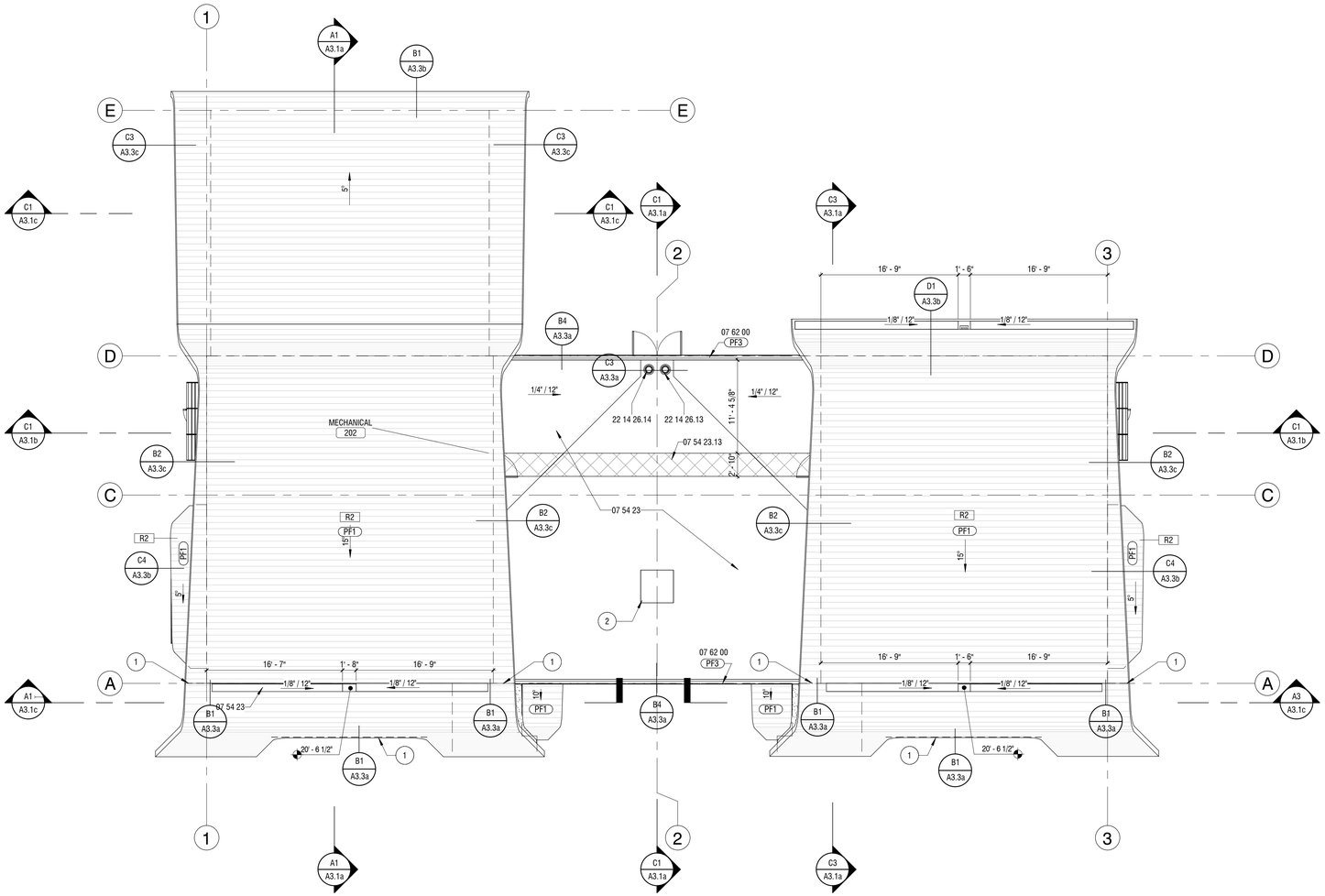
A1.6e

BINDING

BINDING

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
P12	HOLLOW METAL DOOR AND FRAME PAINT, GRAY	SHERWIN-WILLIAMS	SILVERPLATE #SW 7649	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP2 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE



A1 ROOF PLAN

1/8" = 1'-0"

0' 4' 8' 16'

NORTH

GENERAL NOTES

A. ALL PENETRATIONS THROUGH HOLLOW CORE ROOF PLANKS REQUIRE ARCHITECT APPROVAL UNLESS ILLUSTRATED AND REVIEWED ON SHOP DRAWINGS.
B. PROVIDE PENETRATION FLASHING AT ALL ROOF PENETRATIONS, SEE DETAIL ON **A3.3**.
C. ALL SHEET METAL ASSEMBLIES TO COMPLY WITH MOST RECENT SMACNA STANDARDS.
D. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ROOFTOP EQUIPMENT. NOT ALL ROOFTOP EQUIPMENT IS IDENTIFIED ON ROOF PLAN.
E. PROVIDE CURBS FOR MECHANICAL AND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THOSE DRAWINGS AND ALSO IN ACCORDANCE WITH DETAIL ON **A3.3**.
F. OTHER METAL FRAMED ROOF ASSEMBLIES ARE LOCATED ON SHEET **A3.3**.
G. OWNER'S CONSTRUCTION PERSONNEL WILL NEED TO ACCESS ROOF FOR INSTALLATION OF STEEL "I" SUPPORTS (NOT SHOWN) THAT WILL BE INSERTED BETWEEN HOLLOW CORE SLABS. THIS WILL NEED TO BE SCHEDULED PRIOR TO POURING TOPPING SLAB. THIS TASK SHOULD TAKE ONE DAY.
H. VERIFY EXISTING ROOF SLOPES FOR CONFORMANCE TO SLOPES INDICATED ON DRAWINGS. CERTIFY THAT ENTIRE ROOF IS MAINTAINING POSITIVE DRAINAGE
I. CERTIFY THAT ALL DRAINAGE FROM ROOF IS AND WILL CONTINUE FUNCTIONING AND DRAINING WITHOUT WATER INTRUSION.
J. PROVIDE DRAINAGE CRICKETS AT ALL MECHANICAL OR OTHER ROOF CURBS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE, EVEN IF NOT INDICATED ON DRAWINGS
K. PROVIDE GALVANIZED PRE-FINISHED (COLOR AS SELECTED BY OWNER) FLASHINGS, COUNTER-FLASHINGS, REGLETS, DRIP-EDGES, VENTS, AND COPINGS OF MINIMUM 22 GAUGE.
L. PROVIDE MINIMUM #60 ASPHALT INFUSED ROOFING FELT BENEATH ALL NON-METAL ROOFING SYSTEMS.
M. PROVIDE BITUMINOUS RUBBERIZED ASPHALT WATER-PROOF ICE/WATER SHIELD BENEATH ALL METAL ROOFING SYSTEMS.
N. BASIS-OF-DESIGN MATERIALS:
   a. TPO ROOF MEMBRANE SYSTEM: MULE-HIDE, 60 MIL, FULLY-ADHERED, WHITE
   b. STANDING SEAM METAL ROOF: MBCI, BATTENLOK HS, 12", OR EQUAL, COATED ALUMINUM, MUST MATCH MP1 COIL COLOR, KYNAR 500
O. ALL SINGLE-PLY ROOF MEMBRANE ASSEMBLIES SHALL COMPLY WITH ROOFING MANUFACTURER'S DETAILS FOR WARRANTY. ROOFING MANUFACTURER'S DETAILS SHALL OVERRIDE DRAWING DETAILS WHERE DISCREPANCIES EXIST. CONTRACTOR SHALL SUBMIT RFI TO DOCUMENT ANY OF THESE CONDITIONS.

SHEET NOTES

#:	DESCRIPTION:
1	RAINWATER DIVERTER AND CONVEYOR GRATING BY OTHERS.
2	ROOFTOP EXHAUST OPENING, SEE MECHANICAL

KEYNOTES

MARK:	DESCRIPTION:
07 54 23	THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING, 60 MIL, WHITE
07 54 23.13	THERMOPLASTIC-POLYOLEFIN (TPO) WALKWAY, MULE-HIDE OR APPROVED EQUAL, GRAY
07 62 00	SHEET METAL FLASHING AND TRIM
22 14 26.13	ROOF DRAIN TO STORM, SEE CIVIL
22 14 26.14	OVERFLOW DRAIN TO EXTERIOR

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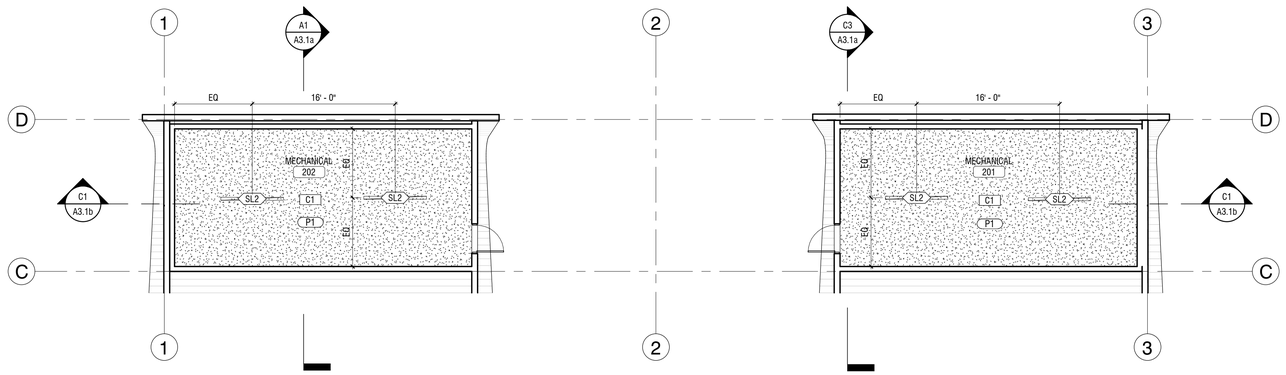
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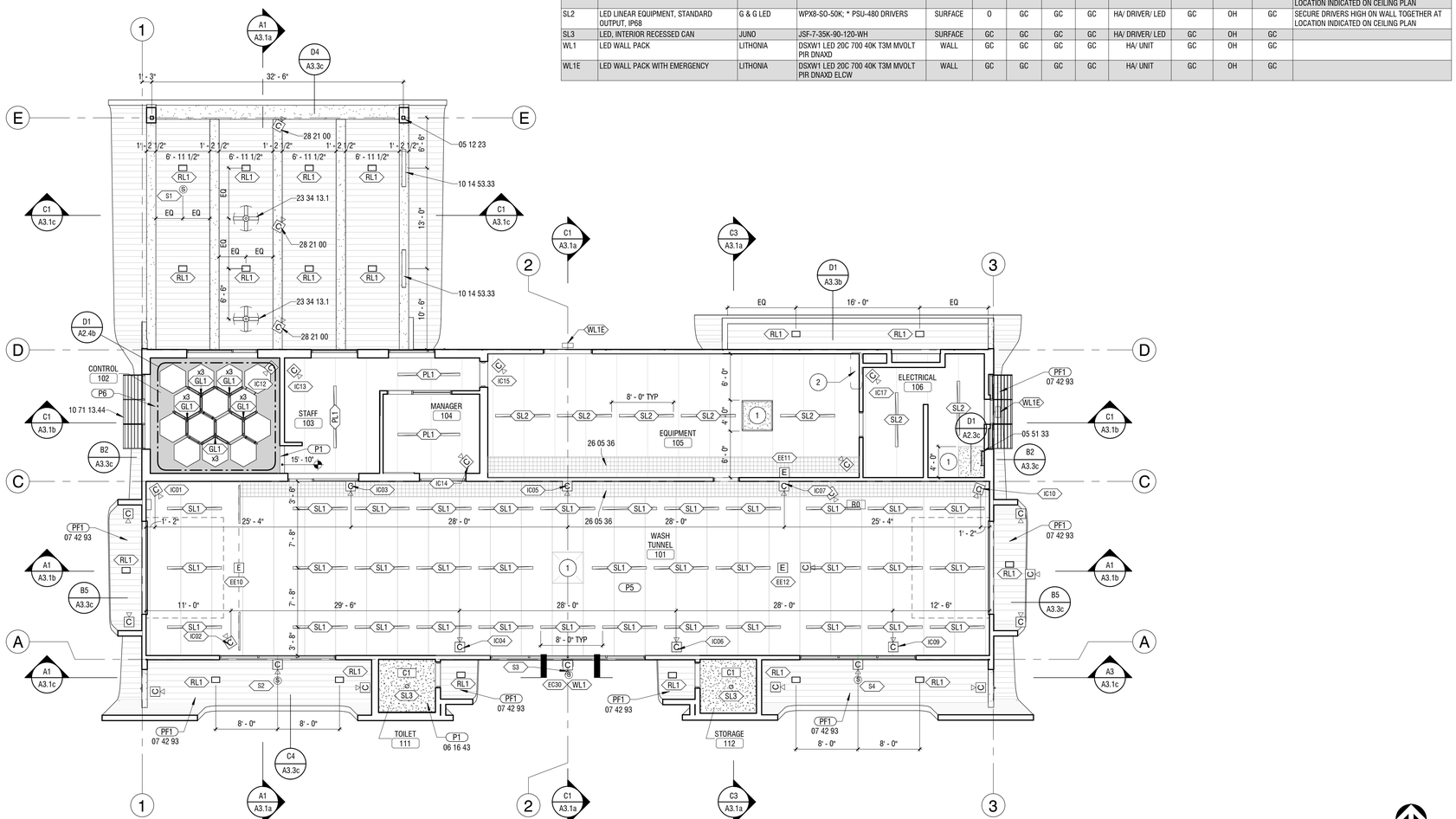
ROOF PLAN

SHEET NUMBER:

A1.7



D1 ROOFTOP MECHANICAL



A1 REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 2' 4' 8' NORTH

LEGEND

- 8' LONG LED - SURFACE MOUNTED AT UNDERSIDE OF DECK
- RECESSED CAN FIXTURE
- (S) RECESSED SPEAKER
- (C) CAMERA
- CEILING / WALL MOUNTED EXIT SIGN
- SUPPLY DIFFUSERS
- RETURN GRILLE
- EXHAUST FANS

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE ON SHEET A6.1 FOR CEILING DESIGNATIONS AND HEIGHTS.
B. HVAC DIFFUSERS SHOWN FOR COORDINATION ONLY - SEE MECHANICAL HVAC PLANS FOR SIZES OF GRILLES, ETC.
C. LIGHTING AND ELECTRICAL DEVICES SHOWN FOR SPECIFIC PLACEMENT - SEE ELECTRICAL PLANS FOR MORE INFORMATION ON LIGHTING.
D. NOT ALL EXPOSED STRUCTURE IS ILLUSTRATED.
E. ALL PENETRATIONS THROUGH HOLLOW CORE ROOF PLANKS REQUIRE WRITTEN ARCHITECT APPROVAL.
F. NOT ALL CEILING AND ROOF PENETRATIONS ARE IDENTIFIED ON THIS PLAN. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
G. PROVIDE SEALANT AT ENTIRE PERIMETER AT CAR WASH TUNNEL WHERE PRECAST ROOF PANELS MEET CONCRETE WALL PANELS, TYPICAL.
H. SEE ROOF PLAN FOR ROOF DRAIN LOCATIONS.
I. PROVIDE CORE HOLES FOR ALL MECHANICAL PENETRATIONS, ROOF DRAINS AND OTHER DECK PENETRATIONS NOT PROVIDED BY THE PRECASTER.
J. ALL CONDUITS FOR CEILING AND SOFFIT MOUNTED DEVICES SHALL BE CONCEALED ABOVE AND RECESSED INTO FINISHED CEILING AT ALL LOCATIONS WHERE FINISHED CEILING IS FURRED OR SUSPENDED.

SHEET NOTES

#:	DESCRIPTION:
1	OPENING IN HOLLOW CORE ROOF
2	SECURE SL1 & SL2 DRIVERS AT THIS LOCATION HIGH ON WALL

KEYNOTES

MARK:	DESCRIPTION:
05 12 23	STRUCTURAL STEEL FOR BUILDINGS
05 51 33	STEEL LADDER WITH 2 1/2" RAILS AND 1" DIA. RUNGS. PROVIDE 7" MINIMUM TOE CLEARANCE BETWEEN WALL AND LADDER RUNGS, AND STEEL WALL CONNECTION BRACKETS AT 60" OC MAX.
06 16 43	GYPSUM SHEATHING
07 42 93	METAL SOFFIT PANEL
10 14 53.33	CLEARANCE BAR, 10' LENGTH, 4" DIAMETER, MATCH BUILDING COLOR, DECAL TEXT STATING: "MAX CLEARANCE 84". ATTACH USING 1/8" STAINLESS STEEL CABLE. FILL WITH 15LBS OF SAND TO PREVENT SWINGING IN WINDY CONDITIONS.
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30" SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.
23 34 13.1	CEILING FAN, PROVIDE HUNTER DOWTOWN 60", 6-SPEED FAN IN MATTE SILVER WITH WALL CONTROLS TO BE LOCATED INSIDE OF OFFICE.
26 05 36	WIRE BASKET CABLE TRAY, BOD: 24" WIDE X 4" HIGH BASKET WITH 30" WALL BRACKET @ 60" OC MAX , ALUMINUM
28 21 00	SURVEILLANCE CAMERAS

LIGHTING FIXTURE SCHEDULE

NOTE: THIS SCHEDULE IS FOR QUICK REFERENCE. SEE ELECTRICAL ENGINEER'S LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS

					RESPONSIBILITY				POWER		CONDUIT		
ITEM	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	FURNISH	UNLOAD	SET IN PLACE	INSTALL	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE	COMMENTS
AL1, AL2	LED, POLE LIGHT, SINGLE & DOUBLE HEAD	LITHONIA	DSX2 LED P1 40K T3M MVOLT HS SPA	POLE	GC	GC	GC	GC	HA/ UNIT	GC	UG	GC	SEE ELECTRICAL SITE PLAN FOR LOCATIONS
GL1	LED, AXIS STENCIL LINEAR PENDANT	AXIS	STLDI-2-DSO-90-40-AP-UNV-DP	SUSPENDED	GC	GC	GC	GC	HA/ DRIVER/ LED	GC	OH	GC	
PL1	LED, BOLDPLAY 7806L-A, 8FT, WHITE	LEDALITE	7806-L-A-Q-G-08-D-T	PENDANT	GC	GC	GC	GC	HA/ DRIVER/ LED	GC	OH	GC	LOCATE DRIVER ON CEILING AT EQUIPMENT ROOM SIDE OF WALL
RL1	LED, EXTERIOR RECESSED CANOPY	CREE	CAN-228-RM-WH	RECESSED	GC	GC	GC	GC	HA/ UNIT	GC	OH	GC	
SL1	LED LINEAR TUNNEL, HIGH OUTPUT, IP68	G & G LED	WPX8-HO-50K; * PSU-480 DRIVERS	SURFACE	O	GC	GC	GC	HA/ DRIVER/ LED	GC	OH	GC	DO NOT INSTALL DRIVERS INSIDE TUNNEL. SECURE DRIVERS HIGH ON WALL TOGETHER AT LOCATION INDICATED ON CEILING PLAN
SL2	LED LINEAR EQUIPMENT, STANDARD OUTPUT, IP68	G & G LED	WPX8-SO-50K; * PSU-480 DRIVERS	SURFACE	O	GC	GC	GC	HA/ DRIVER/ LED	GC	OH	GC	SECURE DRIVERS HIGH ON WALL TOGETHER AT LOCATION INDICATED ON CEILING PLAN
SL3	LED, INTERIOR RECESSED CAN	JUNO	JSF-7-35K-90-120-WH	SURFACE	GC	GC	GC	GC	HA/ DRIVER/ LED	GC	OH	GC	
WL1	LED WALL PACK	LITHONIA	DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD	WALL	GC	GC	GC	GC	HA/ UNIT	GC	OH	GC	
WL1E	LED WALL PACK WITH EMERGENCY	LITHONIA	DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD ELCW	WALL	GC	GC	GC	GC	HA/ UNIT	GC	OH	GC	

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

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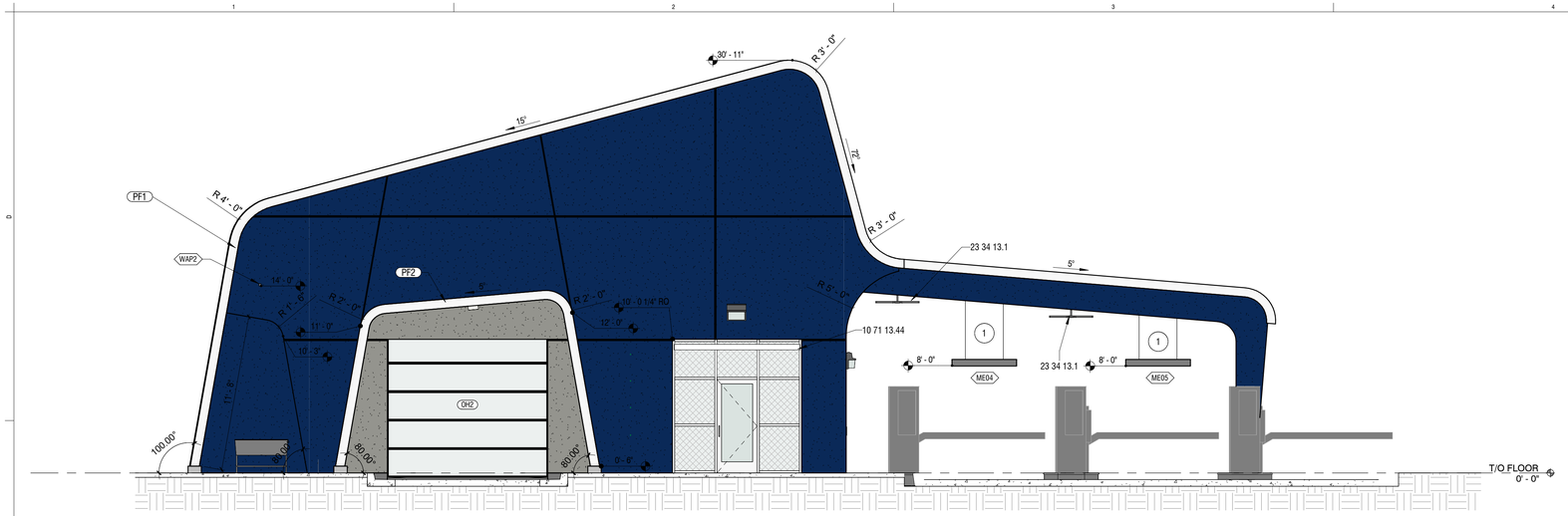
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DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

REFLECTED CEILING PLAN

SHEET NUMBER:

A1.8

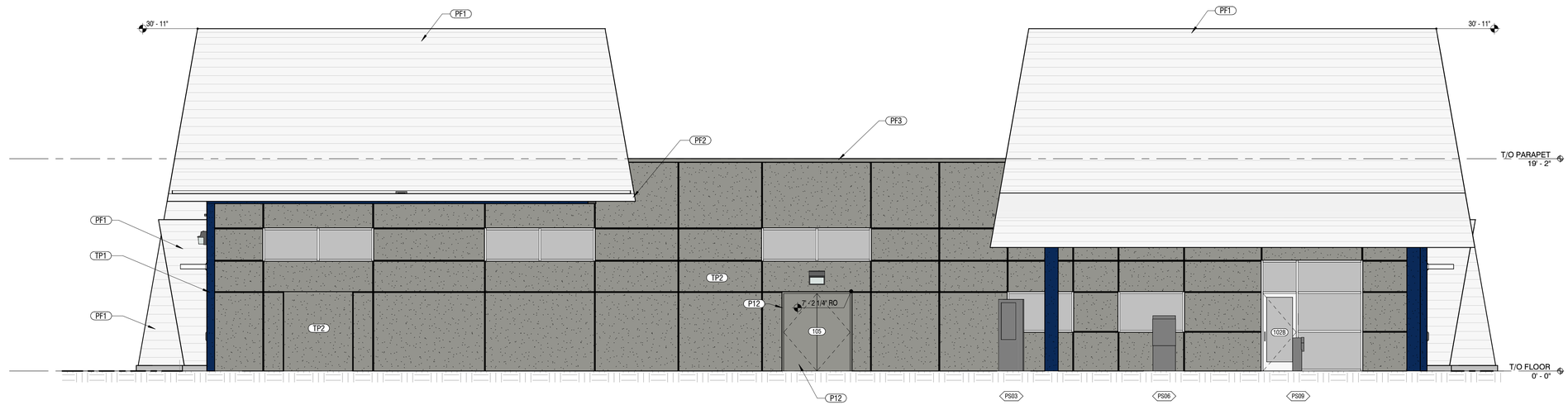
BINDING



C1 BUILDING ELEVATION - EAST

3/16" = 1'-0"

0' 2' 4' 8'



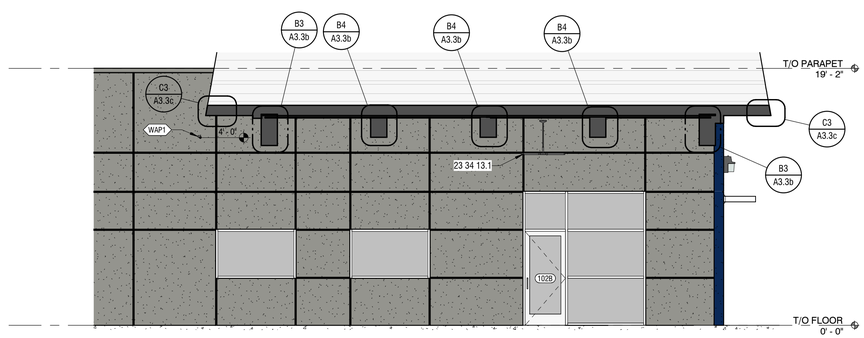
B1 BUILDING ELEVATION - NORTH

3/16" = 1'-0"

0' 2' 4' 8'

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
P12	HOLLOW METAL DOOR AND FRAME PAINT, GRAY	SHERWIN-WILLIAMS	SILVERPLATE #SW 7649	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP2 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE



A4 BUILDING ELEVATION - OFFICE NORTH

0' 2' 4' 8'

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C. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR TO FACE OF FRAMING, U.N.O. CLEAR DIMENSIONS INDICATE DIMENSION BETWEEN FINISHES.
D. ALL EXPOSED FOUNDATIONS AND FOOTINGS ARE TO BE PAINTED TO MATCH ADJACENT WALL FINISH OR COLOR AS SELECTED BY OWNER. PROVIDE NECESSARY SURFACE FILLER AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION.
E. PROVIDE 24 GUAGE PRE-FINISHED METAL FLASHING, DRIP EDGE, AND TRIM TO MATCH ROOFING COLOR, AS SELECTED BY OWNER.
F. PROVIDE TEXTURED PAINT FINISH AT ALL EXTERIOR CONCRETE SURFACES INCLUDING FACES ONLY VISIBLE FROM THE ROOF.
G. SIGNAGE WHEN ILLUSTRATED IS FOR REFERENCE ONLY. SIGNAGE WILL BE SUBMITTED FOR REVIEW UNDER SEPARATE PERMIT AND MAY VARY FROM PRELIMINARY INFORMATION PROVIDED ON THIS DRAWING.

KEYNOTES

MARK:	DESCRIPTION:
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30° SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.
23 34 13.1	CEILING FAN, PROVIDE HUNTER DOWTOWN 60", 6-SPEED FAN IN MATTE SILVER WITH WALL CONTROLS TO BE LOCATED INSIDE OF OFFICE.

SHEET NOTES

#:	DESCRIPTION:
1	CONTRACTOR PROVIDED CHAIN FOR OWNER FURNISHED CLEARANCE BAR

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	7/31/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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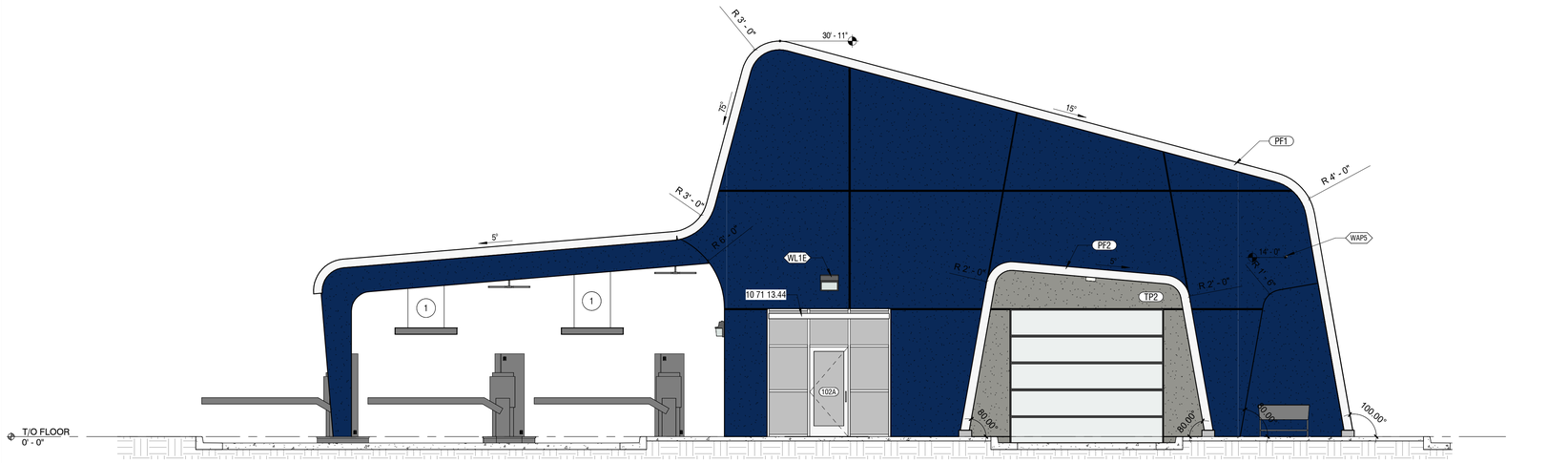
CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

BUILDING ELEVATIONS

SHEET NUMBER:

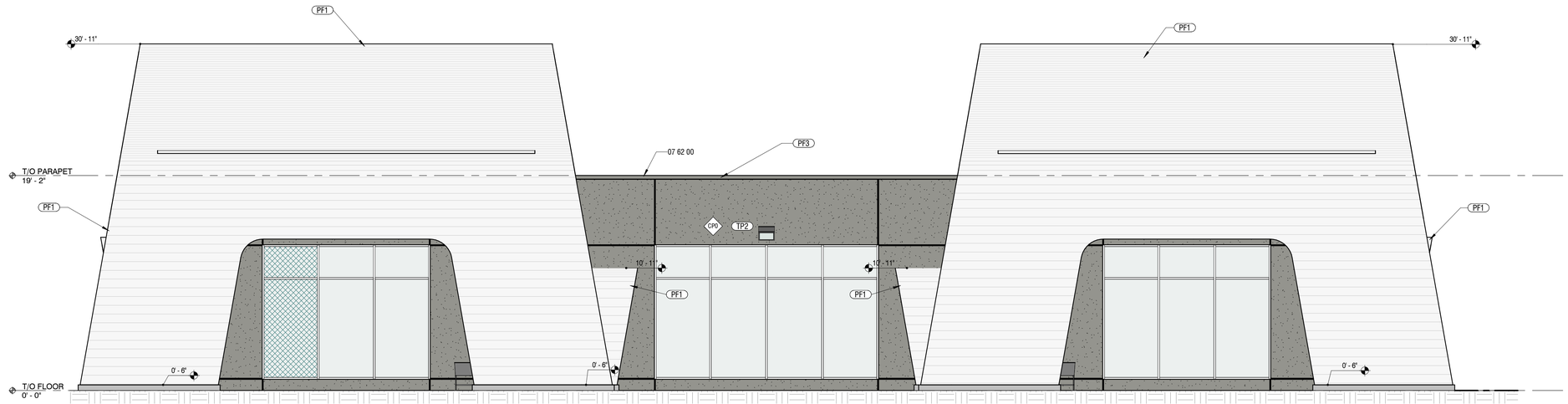
A2.1a

BINDING



C1 BUILDING ELEVATION - WEST
3/16" = 1'-0"

0' 2' 4' 8'



B1 BUILDING ELEVATION - SOUTH
3/16" = 1'-0"

0' 2' 4' 8'

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SHEET NOTES

#:	DESCRIPTION:
1	CONTRACTOR PROVIDED 316 STAINLESS STEEL, GRADE-30, 1/8" TRADE SIZE CHAIN FOR OWNER FURNISHED CLEARANCE BAR

KEYNOTES

MARK:	DESCRIPTION:
07 62 00	SHEET METAL FLASHING AND TRIM
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30" SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
P12	HOLLOW METAL DOOR AND FRAME PAINT, GRAY	SHERWIN-WILLIAMS	SILVERPLATE #SW 7649	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP2 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/22/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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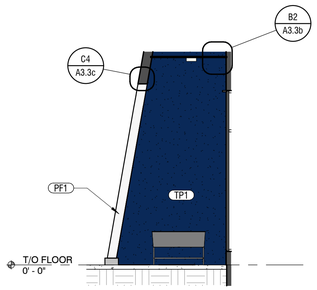
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DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

BUILDING ELEVATIONS

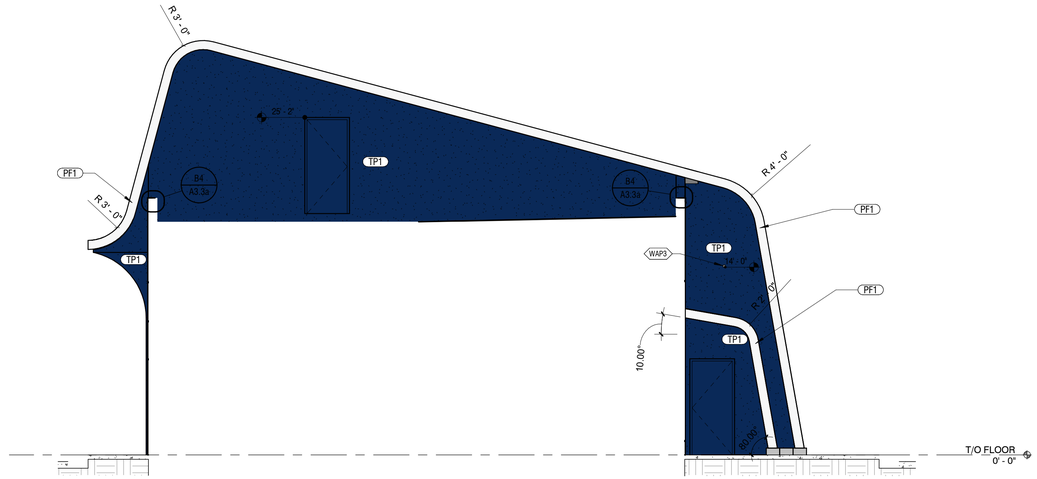
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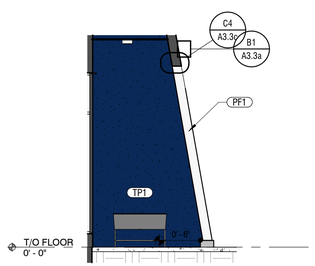


C1 LAUNDRY ROOM ELEVATION - BACK

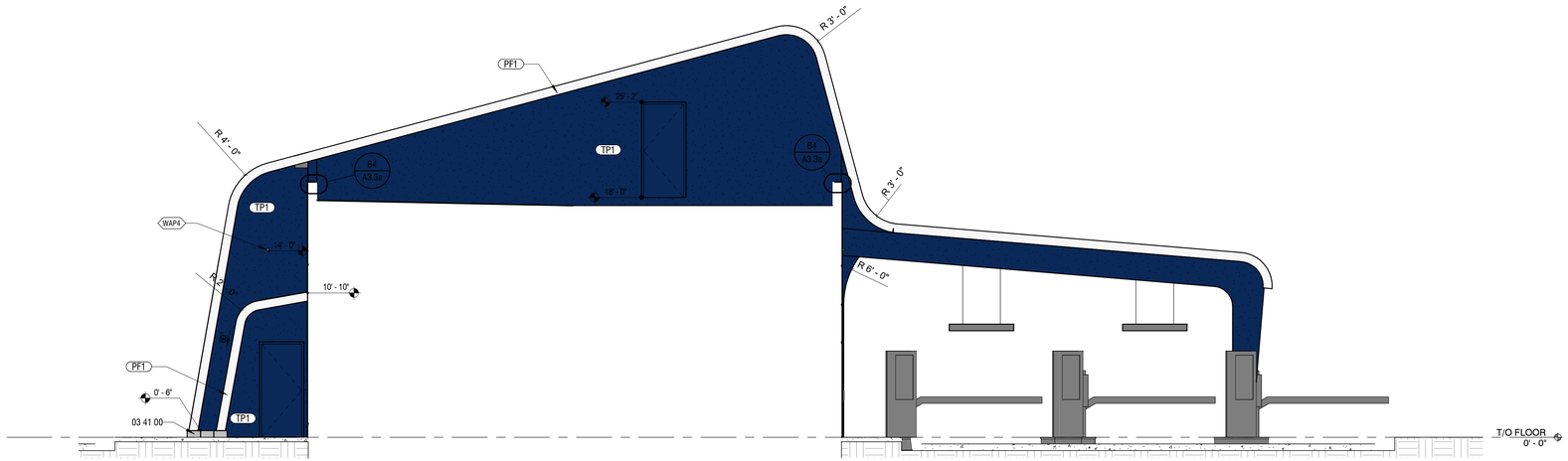


C2 LAUNDRY ROOM ELEVATION - FRONT
3/16" = 1'-0"

0' 2' 4' 8'



B1 TOILET ROOM ELEVATION - BACK



B2 TOILET ROOM ELEVATION - FRONT
3/16" = 1'-0"

0' 2' 4' 8'

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SHEET NOTES

#:	DESCRIPTION:

KEYNOTES

MARK:	DESCRIPTION:
03 41 00	PRECAST CONCRETE WALL PANELS, TYPICAL.

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

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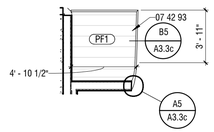
CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

BUILDING ELEVATIONS

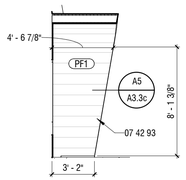
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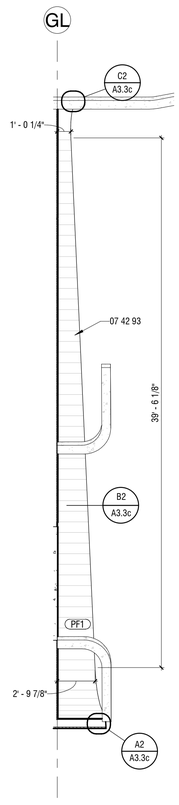
BINDING



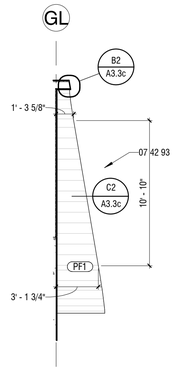
D1 UTILITY COWL TOP SOFFIT



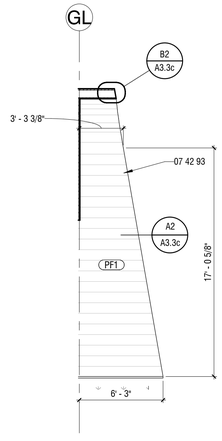
C1 UTILITY COWL SIDE SOFFIT



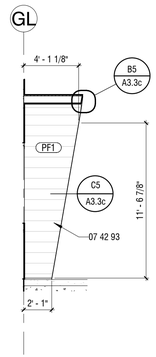
A1 ROOF EAVE TOP SOFFIT



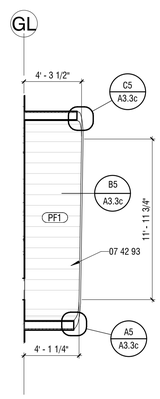
B2 ROOF EAVE HIGH SIDE SOFFIT



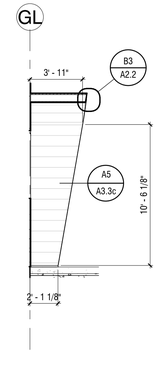
A2 ROOF EAVE LOW SIDE SOFFIT



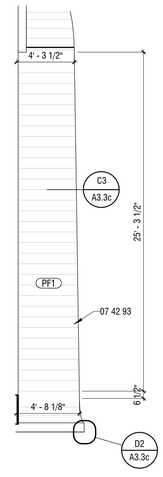
C3 COWL HIGH SOFFIT



B3 COWL TOP SOFFIT



A3 COWL LOW SOFFIT



B4 CANOPY TOP SOFFIT

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE

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E. PROVIDE 24 GUAGE PRE-FINISHED METAL FLASHING, DRIP EDGE, AND TRIM TO MATCH ROOFING COLOR, AS SELECTED BY OWNER.

F. PROVIDE TEXTURED PAINT FINISH AT ALL EXTERIOR CONCRETE SURFACES INCLUDING FACES ONLY VISIBLE FROM THE ROOF.

G. SIGNAGE WHEN ILLUSTRATED IS FOR REFERENCE ONLY. SIGNAGE WILL BE SUBMITTED FOR REVIEW UNDER SEPARATE PERMIT AND MAY VARY FROM PRELIMINARY INFORMATION PROVIDED ON THIS DRAWING.

SHEET NOTES

#:	DESCRIPTION:

KEYNOTES

MARK:	DESCRIPTION:
07 42 93	METAL SOFFIT PANEL

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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SPOTLESS wash solutions
SPOTLESS WASH SOLUTIONS
PO BOX 1495
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

SOFFIT ELEVATIONS

SHEET NUMBER:

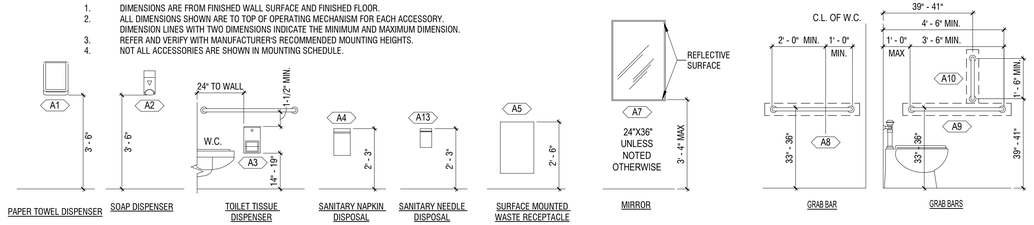
A2.2

0' 2' 4' 8'

BINDING

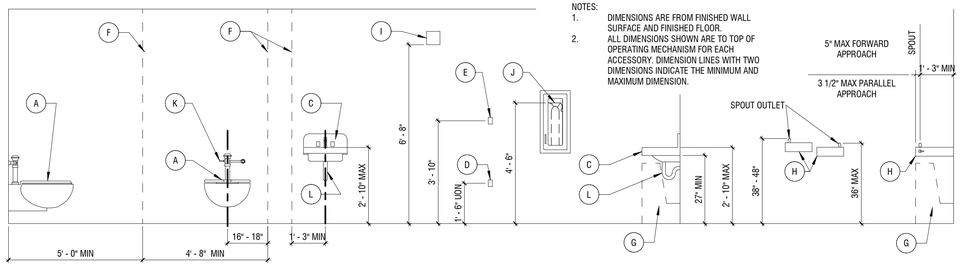
NOTES:

1. DIMENSIONS ARE FROM FINISHED WALL SURFACE AND FINISHED FLOOR.
2. ALL DIMENSIONS SHOWN ARE TO TOP OF OPERATING MECHANISM FOR EACH ACCESSORY. DIMENSION LINES WITH TWO DIMENSIONS INDICATE THE MINIMUM AND MAXIMUM DIMENSION.
3. REFER AND VERIFY WITH MANUFACTURER'S RECOMMENDED MOUNTING HEIGHTS.
4. NOT ALL ACCESSORIES ARE SHOWN IN MOUNTING SCHEDULE.



PAPER TOWEL DISPENSER | SOAP DISPENSER | TOILET TISSUE DISPENSER | SANITARY NAPKIN DISPOSAL | SANITARY NEEDLE DISPOSAL | SURFACE MOUNTED WASTE RECEPTACLE | MIRROR | GRAB BAR | GRAB BARS

ACCESSORY MOUNTING SCHEDULE

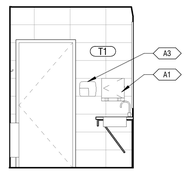


NOTES:
1. DIMENSIONS ARE FROM FINISHED WALL SURFACE AND FINISHED FLOOR.
2. ALL DIMENSIONS SHOWN ARE TO TOP OF OPERATING MECHANISM FOR EACH ACCESSORY. DIMENSION LINES WITH TWO DIMENSIONS INDICATE THE MINIMUM AND MAXIMUM DIMENSION.

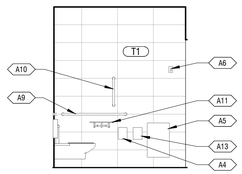
KEYNOTES:

A. WATER CLOSET (W.C.)
B. ADJACENT WALL
C. SINK
D. ELECTRICAL RECEPTACLE
E. ELECTRICAL SWITCHES, THERMOSTATS, F.A. PULLS
F. MINIMUM CLEARANCE
G. KNEE / TOE SPACE
H. DRINKING FOUNTAIN, DUAL
I. FIRE ALARM
J. FIRE EXTINGUISHER
K. FLUSH CONTROL AT OPEN SIDE OF TOILET (NOT ADJACENT TO WALL)
L. ADA LAVATORY PIPE BOOT.

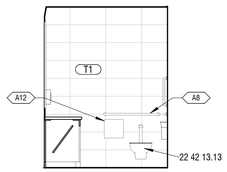
FIXTURE / DEVICE MOUNTING SCHEDULE



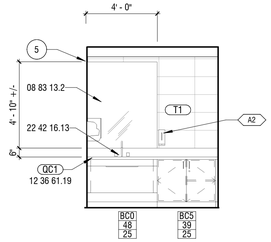
B1 111 - EAST
1/4" = 1'-0"



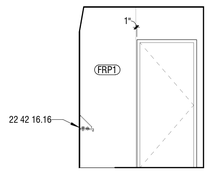
B2 111 - NORTH
1/4" = 1'-0"



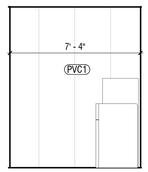
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1/4" = 1'-0"



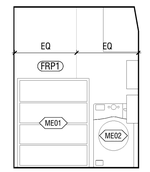
B4 111 - SOUTH
1/4" = 1'-0"



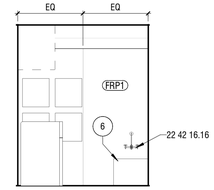
B5 112 - WEST
1/4" = 1'-0"



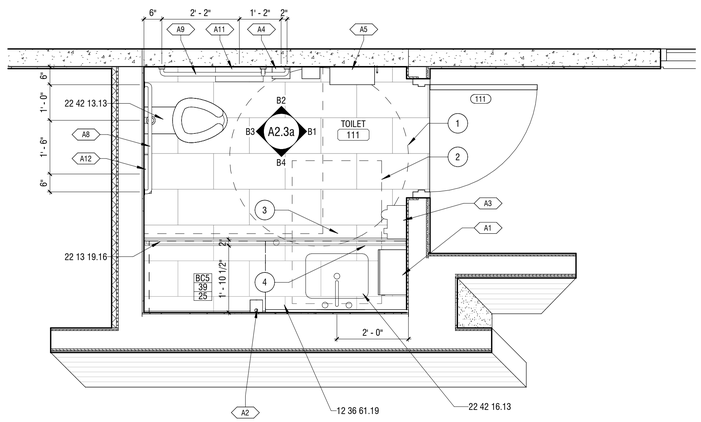
B6 112- NORTH
1/4" = 1'-0"



B7 112 - EAST
1/4" = 1'-0"



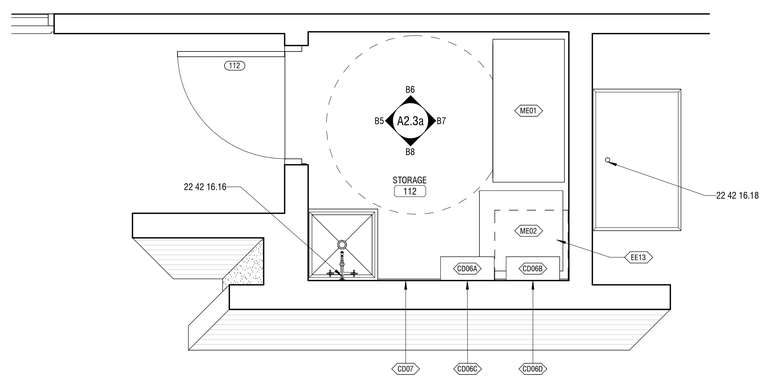
B8 112 - SOUTH
1/4" = 1'-0"



A1 ACCESSIBLE TOILET
1/2" = 1'-0"

0' 2' 4' 8'

NORTH



A4 STORAGE
1/2" = 1'-0"

0' 2' 4' 8'

NORTH

SHEET NOTES

#:	DESCRIPTION:
1	60" DIAMETER TURNING CLEARANCE
2	30" X 48" LAVATORY CLEARANCE
3	60" X 56" TOILET CLEARANCE
4	ALIGN EDGE OF DRAIN W/ CABINET TOE KICK
5	EXTEND MIRROR UP TO DIAGONAL PORTION OF WALL
6	HOUSEKEEPING SINK UNIT WITH STAINLESS STEEL SURROUND. EXTEND FRP TO EDGES OF STAINLESS STEEEL WITH J-TRIM TERMINATION

KEYNOTES

MARK:	DESCRIPTION:
08 83 13.2	MIRRORED GLASS GLAZING, 48"X48"
12 36 61.19	QUARTZ AGGLOMERATE COUNTERTOP
22 13 19.16	LINEAR FLOOR DRAIN, INFINITY DRAIN S-TIF 65 TILE INSERT FRAME
22 42 13.13	COMMERCIAL WATER CLOSET
22 42 16.13	UNDERCOUNTER MOUNTED SINK
22 42 16.16	MOP SINK, FLUSH-MOUNT, STAINLESS STEEL WITH STAINLESS STEEL GRATES, DRAIN-TECH 9-OP-24FM-SSR OR APPROVED EQUIVALENT
22 42 16.18	MAT WASHING SINK, CONTRACTOR TO CONTACT OWNER REGARDING SPECIFICATION FOR FINAL FAUCET SELECTION

ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER / #
A1	PAPER TOWEL DISPENSER	BOBRICK B-72974
A2	SOAP DISPENSER	BOBRICK B-2013
A3	HAND DRYER	DYSON; V-POWER; 240VAC
A4	SANITARY NAPKIN DISPOSAL	BOBRICK B-270
A5	SURFACE MOUNTED WASTE RECEPTACLE	BOBRICK B-277
A6	COAT HOOK	BOBRICK B-6827
A8	HORIZONTAL GRAB BAR - 36"	BOBRICK B-9806 x 36
A9	HORIZONTAL GRAB BAR - 42"	BOBRICK B-9806 x 42
A10	VERTICAL GRAB BAR - 18"	BOBRICK B-9806 x 18
A11	TOILET TISSUE DISPENSER W/ SHELF	BOBRICK B-2840
A12	TOILET SEAT COVER DISPENSER	BOBRICK B-4221
A13	SANITARY NAPKIN DISPOSAL	BOBRICK

GENERAL NOTES

A. ALL GYPSUM WALLS / SURFACES TO BE A LEVEL 4 GRADE FINISH.
B. GYPSUM BOARD CONTROL JOINTS, ARE NOT SHOWN FOR CLARITY, ALL CONTROL JOINTS ARE TO BE EQUALLY SPACED WITHIN A ROOM/WALL/SPACE, CONFIRM ACCEPTABILITY OF LOCATION WITH ARCHITECT.
C. ALL WALL-MOUNTED ELEMENTS ARE TO RECEIVE WALL BACKING, SEE WALL-BACKING DETAILS AND REQUIREMENTS.
D. PROVIDE WALL BASE AT ALL GYPSUM BOARD CLAD WALLS AND AT ALL CABINET TOE KICKS. THIS INCLUDES ALL WALLS EVEN IF NOT INDICATED ON ROOM FINISH SCHEDULE.
E. PROVIDE 3" DEEP TOE KICK AT FRONT AND EXPOSED SIDES OF ALL CABINETS.
F. FOR TYPICAL BARRIER FREE TOILET ROOM CLEARANCES SEE **A2.3**.
G. FOR PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS SEE **A2.3**.
H. FIELD VERIFY ALL DIMENSIONS BETWEEN WALLS FOR CABINETS. CABINET DIMENSIONS INDICATED DO NOT ACCOUNT FOR GYPSUM BOARD AND OTHER FINISHES. WHERE CABINET DIMENSION INCLUDE " ± " USE THAT CABINET TO ACCOMMODATE NECESSARY ADJUSTMENTS IN OVERALL WIDTH.
I. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED FLOORING. ADJUST DIMENSIONS IF CABINETS ARE INSTALLED PRIOR TO FLOORING UNDERLAYMENT.
J. PROVIDE ADJUSTABLE MELAMINE SHELVES ONLY WHERE SHELVING IS CONCEALED BEHIND CABINET DOORS, QUANTITY AS SHOWN ON ELEVATIONS.
K. REFER TO EQUIPMENT SCHEDULE FOR WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR FRT BLOCKING.
L, OUTLETS WHEN SHOWN ARE FOR COORDINATION ONLY, SEE ELECTRICAL
M. COORDINATE LOCATIONS FOR GROMMETS AT WORK SURFACES WITH OWNER SUPPLIED COMPUTERS, EQUIPMENT, ETC. FOR BIDDING PURPOSES ASSUME AND PROVIDE **4** GROMMETS
N. SCRIBE ALL CABINETS AND COUNTERTOPS TO WALL. PROVIDE CABINET FILLERS AT ALL LOCATIONS WHERE GAP EXISTS BETWEEN CABINET AND ADJACENT FINISH. MAXIMUM CABINET FILLER TO BE NO MORE THAN 2".
O. PROVIDE SEALANT AT ALL LOCATIONS WHERE CABINETS MEET ADJACENT SURFACES.
P. FOR EQUIPMENT AND ACCESSORY TAG DESIGNATIONS SEE SCHEDULES ON **A1.3** SERIES SHEETS.
Q. PROVIDE SOLID SURFACE SILLS AT ALL EXTERIOR WINDOWS EXCEPT AT TUNNEL.
R. PROVIDE WINDOW SHADES AT ALL WINDOWS TO EXTERIOR. DO NOT PROVIDE WINDOW SHADES AT ENTRANCE DOORS.

CASEWORK LEGEND

SYMBOL (2x SCALE)	DESCRIPTION
A1	MILLWORK DETAIL REFERENCE - SEE **A2.5**
*17	WIDTH OF CABINET OR DRAWER FACE IF NOT DIMENSIONED
24	OVERALL DEPTH OF CABINET, COUNTERTOPS EXTEND PAST 25mm (1")

* EQ = EQUALLY SIZED CABINET FACE PANELS WHERE INDICATED

FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	SPECIFICATION	NOTES
CC1	CONCRETE WALL SEALER	V-SEAL	101 MULTI-SURFACE, APPLIED AFTER POUR WITH SECONDARY PHASE II LITHIUM SILICATE WATER REPELLANT ENHANCER	PENETRATING SEALER AT INTERIOR OF CONCRETE WALLS AS INDICATED
CC2	CAST-IN-PLACE CONCRETE	CRETO	DPS - DEEP PENETRATING SEALER	PENETRATING SEALER AT ALL EXPOSED SLABS
FRP1	FIBERGLASS REINFORCED PANEL (FRP)	MARLITE	S 100 G WHITE	USE ANODIZED ALUMINUM TRIMS AT ALL PANEL EDGES
P1	INTERIOR WALL FIELD PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: SW6203 SPARE WHITE	ALL FRAMED WALLS, UNLESS NOTED OTHERWISE
PC1	POLISHED CONCRETE	SCOFIELD	GRADE 1 - LIGHT SAND, CLASS 2 MEDIUM - 800 GRIT, APPLY FORMULA ONE LITHIUM DENS. MP & GUARD-W, STAIN: AMERIPOLISH, PATRIOT BLUE	PROTECT CONCRETE SURFACE DURING CONSTRUCTION
PVC1	PVC WALL PANEL	MFR OF WALL FORMS	WHITE	ALL TUNNEL WALLS AT INTERIOR FROM FLOOR TO CEILING
QC1	QUARTZ COUNTERTOP	CAESARSTONE	OCEAN FOAM	ALL COUNTERTOPS AND ALL WINDOW SILLS
T1	PORCELAIN WALL TILE	AMERICAN OLEAN	DALTILE, FABRIC ART, ML60 MODERN LINEAR WHITE, WITH 1/8" NONPOROUS EPOXY GROUT	AT TOILET ROOM WALL
T2	PORCELAIN FLOOR TILE	DAL TILE	DALTILE, FABRIC ART, ML65 MIDNIGHT BLUE, WITH 1/16" MAPEI EPOXY GROUT #106 TIMBERWOLD GREY	AT TOILET ROOM FLOOR

STAMP:

STATE OF FLORIDA
JOSHUA HOWARD
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

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AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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SPOTLESS WASH SOLUTIONS
PO BOX 1454
TWIN FALLS, IDAHO 83303
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CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

INTERIOR ELEVATIONS, TOILET & STORAGE

SHEET NUMBER:

A2.3a

BINDING

FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	SPECIFICATION	NOTES
ACT1	FIBERGLASS- ACOUSTICAL CEILING TILE	ARMSTRONG	SOUNDSCAPE, FIBERGLASS, LA, LAGOON	
CC1	CONCRETE WALL SEALER	V-SEAL	101 MULTI-SURFACE, APPLIED AFTER POUR WITH SECONDARY PHASE II LITHIUM SILICATE WATER REPELLANT ENHANCER	PENETRATING SEALER AT INTERIOR OF CONCRETE WALLS AS INDICATED
CC2	CAST-IN-PLACE CONCRETE	CRETO	DPS - DEEP PENETRATING SEALER	PENETRATING SEALER AT ALL EXPOSED SLABS
GL-3	CLEAR INSULATED GLASS	PILKINGTON	STOREFRONT	
GL-4	SURVEILLANCE INSULATING GLASS		STOREFRONT	MIRROR ON TUNNEL SIDE
P1	INTERIOR WALL FIELD PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: SW6203 SPARE WHITE	ALL FRAMED WALLS, UNLESS NOTED OTHERWISE
P2	INTERIOR CONCRETE WALL FIELD PAINT	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR: SW6203 SPARE WHITE	INTERIOR CONCRETE WALLS AT EQUIPMENT & ELECTRICAL ROOMS
P3	INTERIOR WALL ACCENT PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: BLUE	FRAMED WALL BETWEEN OFFICE AND TUNNEL
PC1	POLISHED CONCRETE	SCOFIELD	GRADE 1 - LIGHT SAND, CLASS 2 MEDIUM - 800 GRIT, APPLY FORMULA ONE LITHIUM DENS. MP & GUARD-W, STAIN: AMERIPOLISH, PATRIOT BLUE	PROTECT CONCRETE SURFACE DURING CONSTRUCTION
PL1	PLASTIC LAMINATE	WILSONART	V0782-38, RIBBON MAPLE, FINE VELVET FINISH	ALL VERTICAL MILLWORK DOOR AND DRAWER FACE
PVC1	PVC WALL PANEL	MFR OF WALL FORMS	WHITE	ALL TUNNEL WALLS AT INTERIOR FROM FLOOR TO CEILING
QC1	QUARTZ COUNTERTOP	CAESARSTONE	OCEAN FOAM	ALL COUNTERTOPS AND ALL WINDOW SILLS
RB1	RUBBER WALL BASE	JOHNSONITE	DURACOVE. 6", 1/8" TOE, BLACK PEARL	AT OFFICES, WORK ROOM AND BREAK AREAS
T3	PORCELAIN WALL TILE	AMERICAN OLEAN	TBD SUBWAY TILE, 3x6,WITH 1/8" NONPOROUS EPOXY GROUT	W/ CLEAR METAL TRIM & CONTRASTING GROUT, AT BREAK ROOM CASEWORK

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

SHEET NOTES

#:	DESCRIPTION:
2	10" x 3.5" ELECTRICAL WALL DUCT TO SPAN ENTIRE WALL SEGMENT. PROVIDE SQUARE-D OR APPROVED EQUAL.
3	PROVIDE 5/8" SANDED PLYWOOD AT THIS SECTION OF WALL IN LIEU OF GYPSUM BOARD. PAINT TO MATCH ROOM PAINT.
4	PROVIDE AND ATTACH HORIZONTAL P3300-HG UNISTRUT TO PLYWOOD SURFACE AS DIMENSIONED FOR A TOTAL OF (6) SEGMENTS.
5	PROVIDE 1/2" ANODIZED ALUMINUM REVEAL TRANSITION BETWEEN GYPSUM WALL BOARD AND PLYWOOD.
6	SOLID BLOCKING FOR WALL MOUNTED MONITORS
7	1/2" FRY REGLET ANODIZED ALUMINUM "MILLWORK CHANNEL WITH RETURN KEYS" BETWEEN PANELS AND "MILLWORK CHANNEL OUTSIDE CORNER WITH RETURN KEYS" AT OUTSIDE CORNERS AND AT STEPPED BASE. USE "MILLWORK CHANNEL F WITH RETURN KEY" AT UNDERSIDE OF COUNTERTOPS, CONTINUE AROUND END PANELS AND ADJACENT SIDES OF MILLWORK
8	ELECTRICAL OUTLET FOR GREEN WALL POWER CONNECTION
9	GREEN WALL FINISH BY OWNER'S SPECIALTY CONTRACTOR. GC TO COORDINATE SCHEDULING WITH OWNER'S CONTRACTOR.

KEYNOTES

MARK:	DESCRIPTION:
06 41 16.1	PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS
06 41 16.2	ADJUSTABLE ARCHITECTURAL SHELVING
06 41 18	METAL KNEE BRACE, PREFINISHED BLACK
06 41 19	FABRIC CLAD BANQUETTE SEATING
08 43 13	ALUMINUM-FRAMED WINDOWS, FINISH AS SCHEDULED
08 83 13.3	MIRRORED GLASS GLAZING, 36"X60"
11 31 13.01	UNDERCOUNTER REFRIGERATOR, SUMMIT APPLIANCE AL54 OR APPROVED EQUAL, 4.8 CU FT, 22.63"D X 23.63W X 32"H, STAINLESS STEEL/BLACK
12 32 16.13	1" CASEWORK SUPPORT SIDE PANEL, MATCH ADJACENT CASEWORK
12 36 61.19	QUARTZ AGGLOMERATE COUNTERTOP
12 48 43	RECESSED ENTRANCE MAT, BOD: CONSTRUCTION SPECIALTIES PEDIMAT
22 42 16.13	UNDERCOUNTER MOUNTED SINK
22 42 16.17	HOUSEKEEPING SINK
22 45 16.2	EMERGENCY EYE WASH
40 62 43.1	DISPLAY SCREENS, BY OWNER.

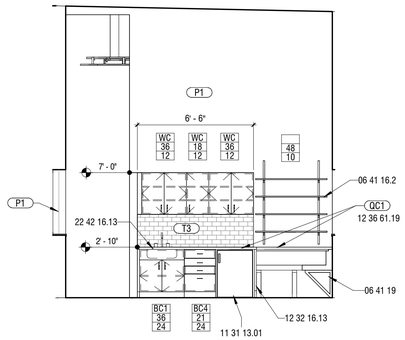
GENERAL NOTES

A. ALL GYPSUM WALLS / SURFACES TO BE A LEVEL 4 GRADE FINISH.
B. GYPSUM BOARD CONTROL JOINTS, ARE NOT SHOWN FOR CLARITY, ALL CONTROL JOINTS ARE TO BE EQUALLY SPACED WITHIN A ROOM/WALL/SPACE, CONFIRM ACCEPTABILITY OF LOCATION WITH ARCHITECT.
C. ALL WALL-MOUNTED ELEMENTS ARE TO RECEIVE WALL BACKING, SEE WALL-BACKING DETAILS AND REQUIREMENTS.
D. PROVIDE WALL BASE AT ALL GYPSUM BOARD CLAD WALLS AND AT ALL CABINET TOE KICKS. THIS INCLUDES ALL WALLS EVEN IF NOT INDICATED ON ROOM FINISH SCHEDULE.
E. PROVIDE 3" DEEP TOE KICK AT FRONT AND EXPOSED SIDES OF ALL CABINETS.
F. FOR TYPICAL BARRIER FREE TOILET ROOM CLEARANCES SEE **A2.3**.
G. FOR PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS SEE **A2.3**.
H. FIELD VERIFY ALL DIMENSIONS BETWEEN WALLS FOR CABINETS. CABINET DIMENSIONS INDICATED DO NOT ACCOUNT FOR GYPSUM BOARD AND OTHER FINISHES. WHERE CABINET DIMENSION INCLUDE " ± " USE THAT CABINET TO ACCOMMODATE NECESSARY ADJUSTMENTS IN OVERALL WIDTH.
I. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED FLOORING. ADJUST DIMENSIONS IF CABINETS ARE INSTALLED PRIOR TO FLOORING UNDERLAYMENT.
J. PROVIDE ADJUSTABLE MELAMINE SHELVES ONLY WHERE SHELVING IS CONCEALED BEHIND CABINET DOORS, QUANTITY AS SHOWN ON ELEVATIONS.
K. REFER TO EQUIPMENT SCHEDULE FOR WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR FRT BLOCKING.
L. OUTLETS WHEN SHOWN ARE FOR COORDINATION ONLY, SEE ELECTRICAL
M. COORDINATE LOCATIONS FOR GROMMETS AT WORK SURFACES WITH OWNER SUPPLIED COMPUTERS, EQUIPMENT, ETC. FOR BIDDING PURPOSES ASSUME AND PROVIDE **4** GROMMETS
N. SCRIBE ALL CABINETS AND COUNTERTOPS TO WALL. PROVIDE CABINET FILLERS AT ALL LOCATIONS WHERE GAP EXISTS BETWEEN CABINET AND ADJACENT FINISH. MAXIMUM CABINET FILLER TO BE NO MORE THAN 2".
O. PROVIDE SEALANT AT ALL LOCATIONS WHERE CABINETS MEET ADJACENT SURFACES.
P. FOR EQUIPMENT AND ACCESSORY TAG DESIGNATIONS SEE SCHEDULES ON **A1.3** SERIES SHEETS.
Q. PROVIDE SOLID SURFACE SILLS AT ALL EXTERIOR WINDOWS EXCEPT AT TUNNEL.
R. PROVIDE WINDOW SHADES AT ALL WINDOWS TO EXTERIOR. DO NOT PROVIDE WINDOW SHADES AT ENTRANCE DOORS.

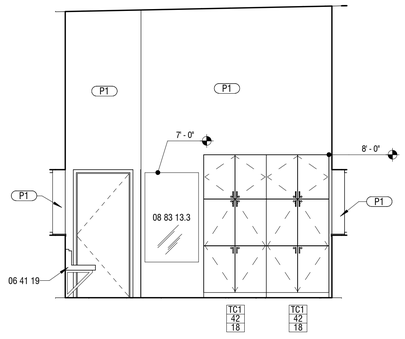
CASEWORK LEGEND

SYMBOL (2x SCALE)	DESCRIPTION
A1	MILLWORK DETAIL REFERENCE - SEE **A2.5**
*17	WIDTH OF CABINET OR DRAWER FACE IF NOT DIMENSIONED
24	OVERALL DEPTH OF CABINET, COUNTERTOPS EXTEND PAST 25mm (1")

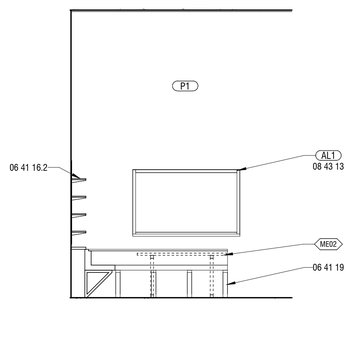
* EQ = EQUALLY SIZED CABINET FACE PANELS WHERE INDICATED



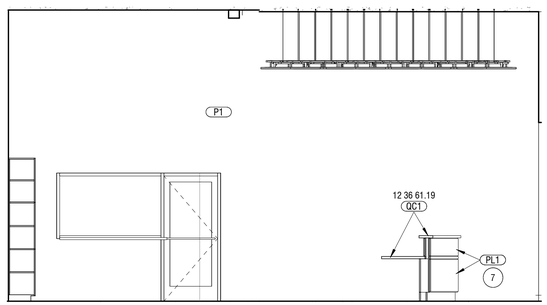
C1 STAFF WEST
1/4" = 1'-0"



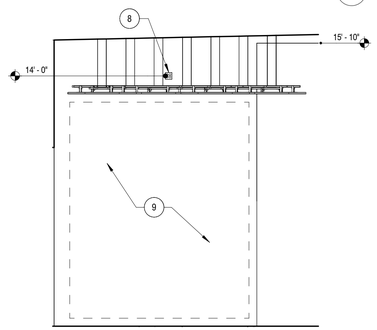
C2 STAFF EAST
1/4" = 1'-0"



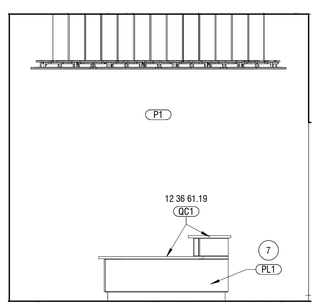
C3 STAFF NORTH



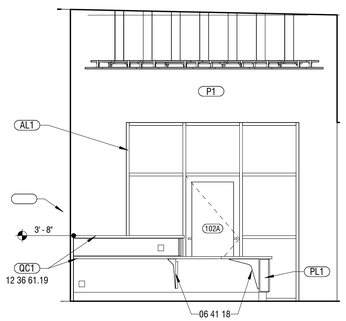
B1 CONTROL SOUTH
1/4" = 1'-0"



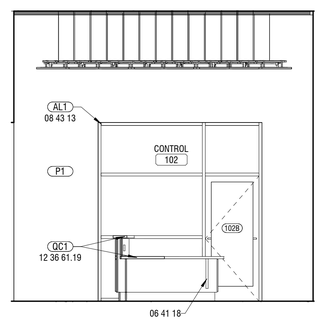
B2 GREEN WALL



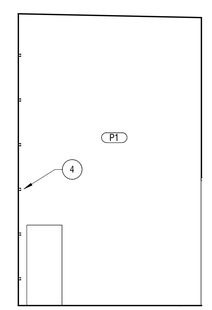
B3 CONTROL DESK SIDE
1/4" = 1'-0"



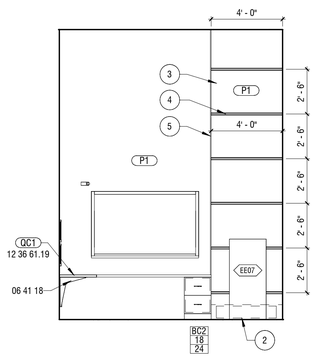
B4 CONTROL DESK BACK
1/4" = 1'-0"



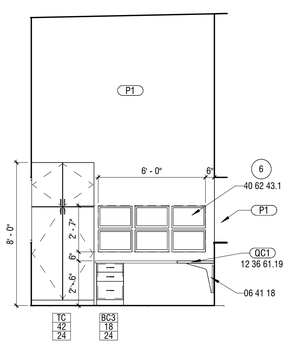
B5 CONTROL NORTH
1/4" = 1'-0"



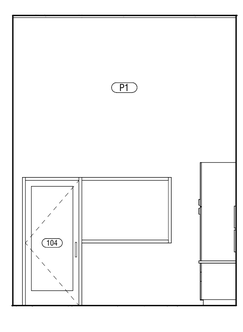
A1 MANAGER WEST
1/4" = 1'-0"



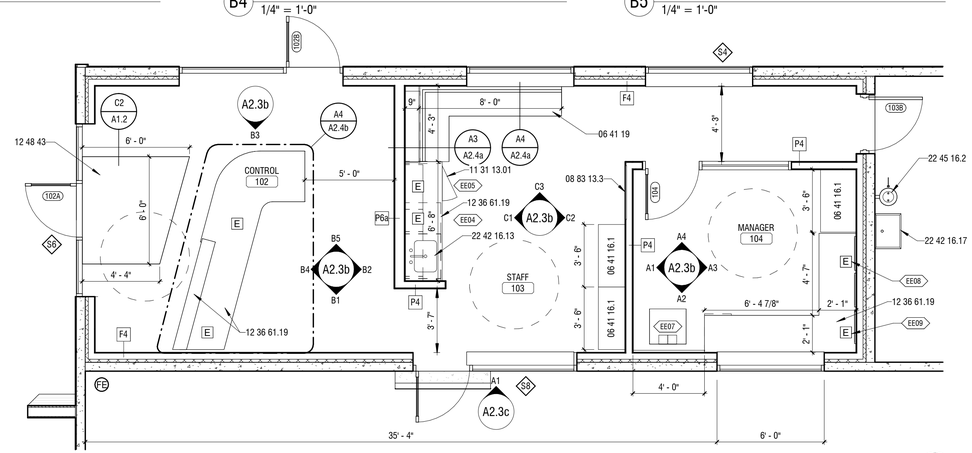
A2 MANAGER SOUTH
1/4" = 1'-0"



A3 MANAGER EAST
1/4" = 1'-0"



A4 MANAGER NORTH



A5 ENLARGED OFFICE INTERIOR PLAN
1/4" = 1'-0"

0' 2' 4' 8'
NORTH

STAMP:
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JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024
08/22/24 BID SET

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AQUASONIC CAR WASH
9701 W COLONIAL DRIVE, OCOEE FL 34761

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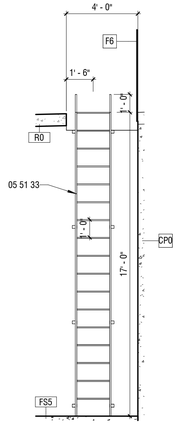
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TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

INTERIOR ELEVATIONS, OFFICE

SHEET NUMBER:
A2.3b

BINDING



D1 LADDER DETAIL

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE

SHEET NOTES

#:	DESCRIPTION:
1	PIPING TO TUNNEL HOSE BIBBS SHALL SLOPE DOWN TO VALVE, SO TUNNEL PIPING CAN BE DRAINED EASILY, TYPICAL. INSTALL VALVES AT +48".
4	BLOCKOUT OPENING IN PRECAST PANEL @ 60" OC, 6" HIGH X 12" WIDE

KEYNOTES

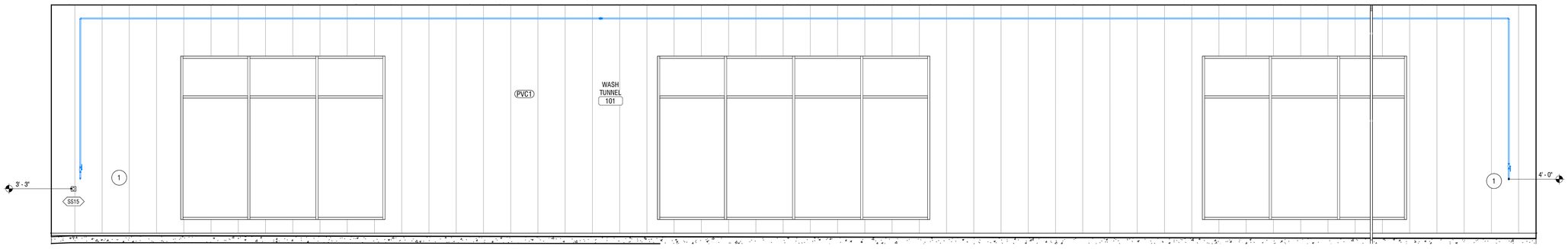
MARK:	DESCRIPTION:
05 51 33	STEEL LADDER WITH 2 1/2" RAILS AND 1" DIA. RUNGS. PROVIDE 7" MINIMUM TOE CLEARANCE BETWEEN WALL AND LADDER RUNGS, AND STEEL WALL CONNECTION BRACKETS AT 60" OC MAX.
10 44 16	FIRE EXTINGUISHER, 10 LB. TYPE 3A-40B:CM, WITH WALL BRACKET. PROVIDE STAINLESS STEEL CONTAINER AND HARDWARE AT UNITS LOCATED IN CAR WASH TUNNEL
26 05 36	WIRE BASKET CABLE TRAY, BOD: 24" WIDE X 4" HIGH BASKET WITH 30" WALL BRACKET @ 60" OC MAX , ALUMINUM

PIPE SCHEDULE

#:	DESCRIPTION:
CA	COMPRESSED AIR
CD1	WALL CLEANER
CD2	PREP GUN
CSW	SOFT COLD WATER
HSW	SOFT HOT WATER
ICW	INDUSTRIAL COLD WATER
RO	REVERSE OSMOSIS WATER - SPOT-FREE RINSE
RR	RO REJECT RECOVERY

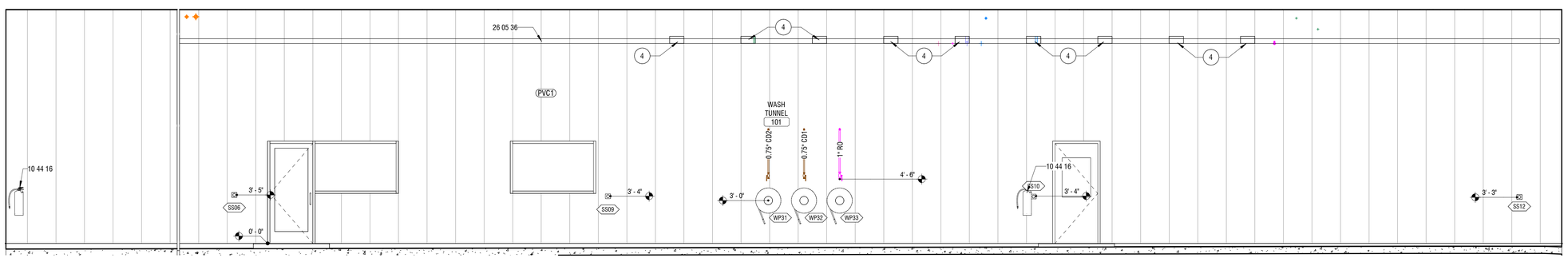
GENERAL NOTES

A. ALL GYPSUM WALLS / SURFACES TO BE A LEVEL 4 GRADE FINISH.
B. GYPSUM BOARD CONTROL JOINTS, ARE NOT SHOWN FOR CLARITY, ALL CONTROL JOINTS ARE TO BE EQUALLY SPACED WITHIN A ROOM/WALL/SPACE, CONFIRM ACCEPTABILITY OF LOCATION WITH ARCHITECT.
C. ALL WALL-MOUNTED ELEMENTS ARE TO RECEIVE WALL BACKING, SEE WALL-BACKING DETAILS AND REQUIREMENTS.
D. PROVIDE WALL BASE AT ALL GYPSUM BOARD CLAD WALLS AND AT ALL CABINET TOE KICKS. THIS INCLUDES ALL WALLS EVEN IF NOT INDICATED ON ROOM FINISH SCHEDULE.
E. PROVIDE 3" DEEP TOE KICK AT FRONT AND EXPOSED SIDES OF ALL CABINETS.
F. FOR TYPICAL BARRIER FREE TOILET ROOM CLEARANCES SEE **A2.3**.
G. FOR PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS SEE **A2.3**.
H. FIELD VERIFY ALL DIMENSIONS BETWEEN WALLS FOR CABINETS. CABINET DIMENSIONS INDICATED DO NOT ACCOUNT FOR GYPSUM BOARD AND OTHER FINISHES. WHERE CABINET DIMENSION INCLUDE " ± " USE THAT CABINET TO ACCOMMODATE NECESSARY ADJUSTMENTS IN OVERALL WIDTH.
I. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED FLOORING. ADJUST DIMENSIONS IF CABINETS ARE INSTALLED PRIOR TO FLOORING UNDERLAYMENT.
J. PROVIDE ADJUSTABLE MELAMINE SHELVES ONLY WHERE SHELVING IS CONCEALED BEHIND CABINET DOORS, QUANTITY AS SHOWN ON ELEVATIONS.
K. REFER TO EQUIPMENT SCHEDULE FOR WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR FRT BLOCKING.
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M. COORDINATE LOCATIONS FOR GROMMETS AT WORK SURFACES WITH OWNER SUPPLIED COMPUTERS, EQUIPMENT, ETC. FOR BIDDING PURPOSES ASSUME AND PROVIDE 4 GROMMETS
N. SCRIBE ALL CABINETS AND COUNTERTOPS TO WALL. PROVIDE CABINET FILLERS AT ALL LOCATIONS WHERE GAP EXISTS BETWEEN CABINET AND ADJACENT FINISH. MAXIMUM CABINET FILLER TO BE NO MORE THAN 2".
O. PROVIDE SEALANT AT ALL LOCATIONS WHERE CABINETS MEET ADJACENT SURFACES.
P. FOR EQUIPMENT AND ACCESSORY TAG DESIGNATIONS SEE SCHEDULES ON **A1.3** SERIES SHEETS.
Q. PROVIDE SOLID SURFACE SILLS AT ALL EXTERIOR WINDOWS EXCEPT AT TUNNEL.
R. PROVIDE WINDOW SHADES AT ALL WINDOWS TO EXTERIOR. DO NOT PROVIDE WINDOW SHADES AT ENTRANCE DOORS.



B1 TUNNEL PASSENGER SIDE - ENTRANCE END

0' 2' 4' 8'



A1 TUNNEL DRIVER SIDE

0' 2' 4' 8'

BINDING

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STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

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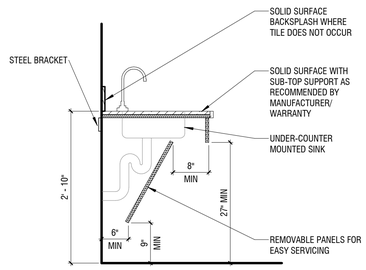
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PO BOX 1466
TWIN FALLS, IDAHO 83303
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JOB NUMBER:	22001-01
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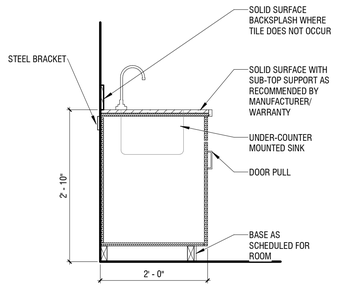
INTERIOR ELEVATIONS, TUNNEL

SHEET NUMBER:

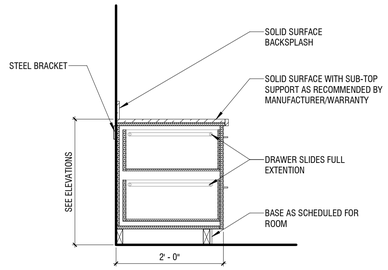
A2.3c



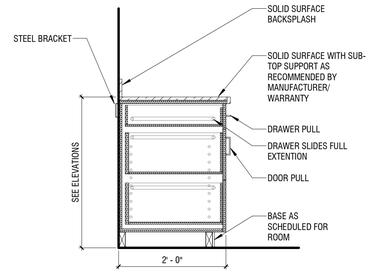
D1 BC0 - ACCESSIBLE LAVATORY
3/4" = 1'-0"



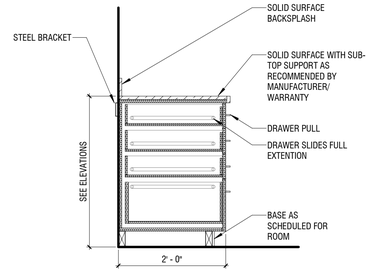
C1 BC1 - SINK CABINET
3/4" = 1'-0"



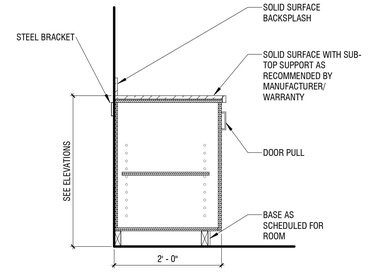
C2 BC2 - 2 DEEP DRAWERS
3/4" = 1'-0"



C3 BC3 - 3 DRAWERS
3/4" = 1'-0"

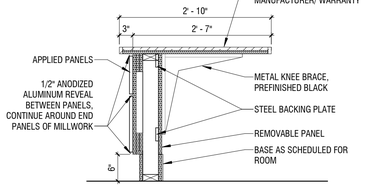


C4 BC4 - 4 DRAWERS
3/4" = 1'-0"

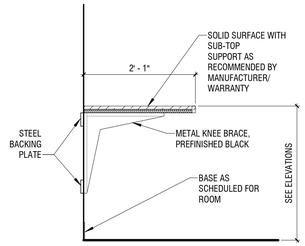


C5 BC5 - CABINET
3/4" = 1'-0"

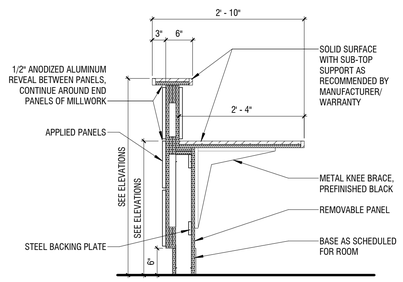
NOTE:
USE FRY REGLET DRYWALL REGLETS OR EQUAL AT REVEALS. USE REVEAL CHANNEL SCREED BETWEEN PANELS, F-REVEAL BETWEEN PANELS AND COUNTERTOPS AND X-MOLDING AT OUTSIDE CORNERS AND BOTTOM EDGE



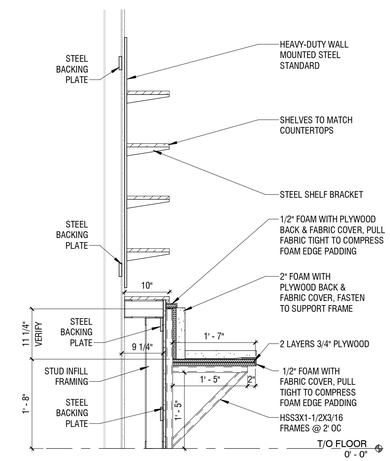
B1 CT2 - MILLWORK COUNTERTOP
3/4" = 1'-0"



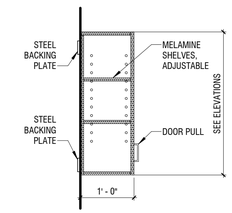
B2 CT1 - OPEN COUNTERTOP
3/4" = 1'-0"



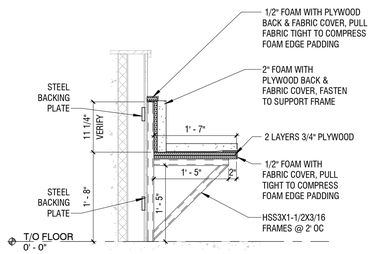
A1 CT3 - TWO TIER COUNTERTOP
3/4" = 1'-0"



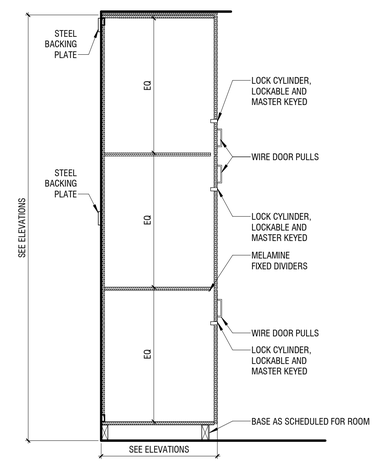
A3 WALL SHELVING & BANQUETTE



B4 WC - WALL CABINET
3/4" = 1'-0"



A4 BANQUETTE



A5 TC1 - TALL CABINET
3/4" = 1'-0"

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08/22/2024

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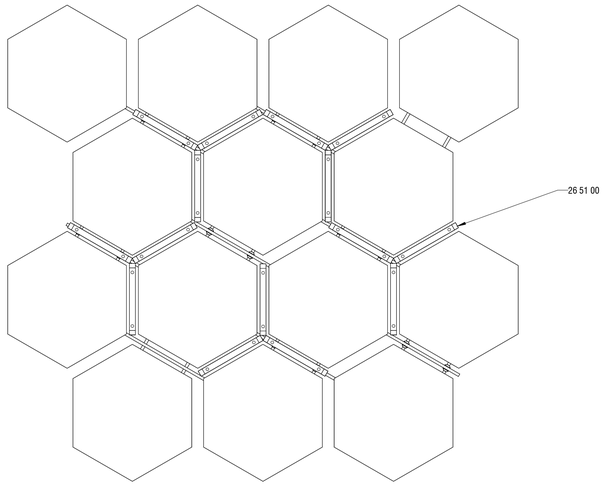
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DATE:	08/19/2024
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INTERIOR DETAILS, CASEWORK

SHEET NUMBER:

A2.4a

BINDING



D1 ACOUSTIC CLOUD DETAIL
1/2" = 1'-0"

0' 1' 2' 4'

SHEET NOTES

#:	DESCRIPTION:
1	POWER & DATA RECEPTACLE, VERIFY OWNER REQUIREMENTS

KEYNOTES

MARK:	DESCRIPTION:
06 41 18	METAL KNEE BRACE, PREFINISHED BLACK
12 36 61.19	QUARTZ AGGLOMERATE COUNTERTOP
26 51 00	INTERIOR LIGHTING

GENERAL NOTES

A. ALL GYPSUM WALLS / SURFACES TO BE A LEVEL 4 GRADE FINISH.
B. GYPSUM BOARD CONTROL JOINTS, ARE NOT SHOWN FOR CLARITY, ALL CONTROL JOINTS ARE TO BE EQUALLY SPACED WITHIN A ROOM/WALL/SPACE, CONFIRM ACCEPTABILITY OF LOCATION WITH ARCHITECT.
C. ALL WALL-MOUNTED ELEMENTS ARE TO RECEIVE WALL BACKING, SEE WALL-BACKING DETAILS AND REQUIREMENTS.
D. PROVIDE WALL BASE AT ALL GYPSUM BOARD CLAD WALLS AND AT ALL CABINET TOE KICKS. THIS INCLUDES ALL WALLS EVEN IF NOT INDICATED ON ROOM FINISH SCHEDULE.
E. PROVIDE 3" DEEP TOE KICK AT FRONT AND EXPOSED SIDES OF ALL CABINETS.
F. FOR TYPICAL BARRIER FREE TOILET ROOM CLEARANCES SEE **A2.3**.
G. FOR PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS SEE **A2.3**.
H. FIELD VERIFY ALL DIMENSIONS BETWEEN WALLS FOR CABINETS. CABINET DIMENSIONS INDICATED DO NOT ACCOUNT FOR GYPSUM BOARD AND OTHER FINISHES. WHERE CABINET DIMENSION INCLUDE " ± " USE THAT CABINET TO ACCOMMODATE NECESSARY ADJUSTMENTS IN OVERALL WIDTH.
I. ALL VERTICAL DIMENSIONS ARE FROM TOP OF FINISHED FLOORING. ADJUST DIMENSIONS IF CABINETS ARE INSTALLED PRIOR TO FLOORING UNDERLAYMENT.
J. PROVIDE ADJUSTABLE MELAMINE SHELVES ONLY WHERE SHELVING IS CONCEALED BEHIND CABINET DOORS, QUANTITY AS SHOWN ON ELEVATIONS.
K. REFER TO EQUIPMENT SCHEDULE FOR WALL-MOUNTED ACCESSORIES AND EQUIPMENT TO BE ATTACHED TO STUD FRAMING, BACKING AND / OR FRT BLOCKING.
L. OUTLETS WHEN SHOWN ARE FOR COORDINATION ONLY, SEE ELECTRICAL
M. COORDINATE LOCATIONS FOR GROMMETS AT WORK SURFACES WITH OWNER SUPPLIED COMPUTERS, EQUIPMENT, ETC. FOR BIDDING PURPOSES ASSUME AND PROVIDE 4 GROMMETS
N. SCRIBE ALL CABINETS AND COUNTERTOPS TO WALL. PROVIDE CABINET FILLERS AT ALL LOCATIONS WHERE GAP EXISTS BETWEEN CABINET AND ADJACENT FINISH. MAXIMUM CABINET FILLER TO BE NO MORE THAN 2".
O. PROVIDE SEALANT AT ALL LOCATIONS WHERE CABINETS MEET ADJACENT SURFACES.
P. FOR EQUIPMENT AND ACCESSORY TAG DESIGNATIONS SEE SCHEDULES ON **A1.3** SERIES SHEETS.
Q. PROVIDE SOLID SURFACE SILLS AT ALL EXTERIOR WINDOWS EXCEPT AT TUNNEL.
R. PROVIDE WINDOW SHADES AT ALL WINDOWS TO EXTERIOR. DO NOT PROVIDE WINDOW SHADES AT ENTRANCE DOORS.

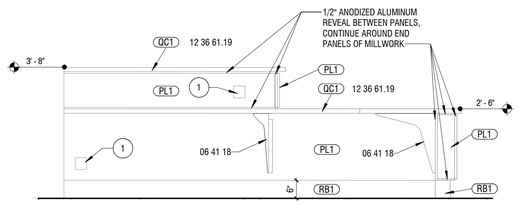
FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	SPECIFICATION	NOTES
ACT1	FIBERGLASS- ACOUSTICAL CEILING TILE	ARMSTRONG	SOUNDSCAPE, FIBERGLASS, LA, LAGOON	
CC2	CAST-IN-PLACE CONCRETE	CRETO	DPS - DEEP PENETRATING SEALER	PENETRATING SEALER AT ALL EXPOSED SLABS
P1	INTERIOR WALL FIELD PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: SW6203 SPARE WHITE	ALL FRAMED WALLS, UNLESS NOTED OTHERWISE
PC1	POLISHED CONCRETE	SCOFIELD	GRADE 1 - LIGHT SAND, CLASS 2 MEDIUM - 800 GRIT, APPLY FORMULA ONE LITHIUM DENS. MP & GUARD-W, STAIN: AMERIPOLISH, PATRIOT BLUE	PROTECT CONCRETE SURFACE DURING CONSTRUCTION
PL1	PLASTIC LAMINATE	WILSONART	Y0782-38, RIBBON MAPLE, FINE VELVET FINISH	ALL VERTICAL MILLWORK DOOR AND DRAWER FACE
QC1	QUARTZ COUNTERTOP	CAESARSTONE	OCEAN FOAM	ALL COUNTERTOPS AND ALL WINDOW SILLS
RB1	RUBBER WALL BASE	JOHNSONITE	DURACOVE. 6", 1/8" TOE, BLACK PEARL	AT OFFICES, WORK ROOM AND BREAK AREAS

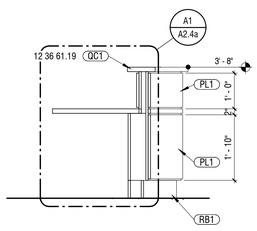
CASEWORK LEGEND

SYMBOL (2x SCALE)	DESCRIPTION
A1	← MILLWORK DETAIL REFERENCE - SEE **A2.5**
*17	← WIDTH OF CABINET OR DRAWER FACE IF NOT DIMENSIONED
24	← OVERALL DEPTH OF CABINET, COUNTERTOPS EXTEND PAST 25mm (1")

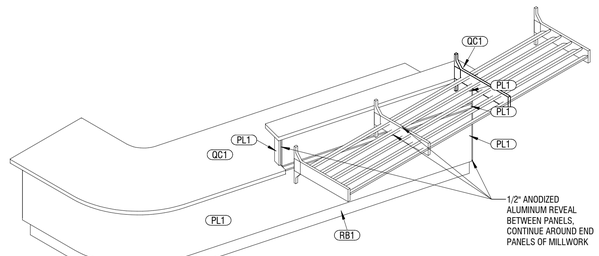
* EQ = EQUALLY SIZED CABINET FACE PANELS WHERE INDICATED



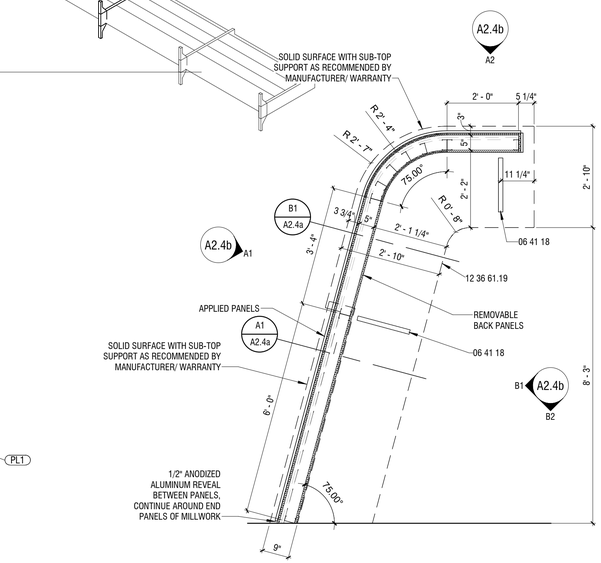
B1 CONTROL DESK BACK
1/2" = 1'-0"



B2 CONTROL SOUTH DETAIL
1/2" = 1'-0"

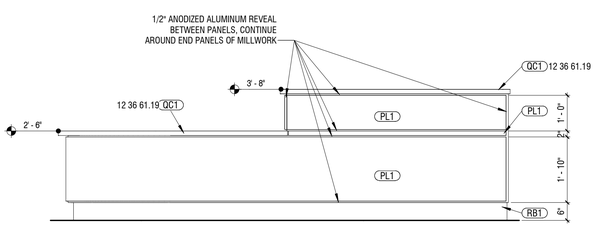


B3 CONTROL DESK 3D FRONT
1/2" = 1'-0"

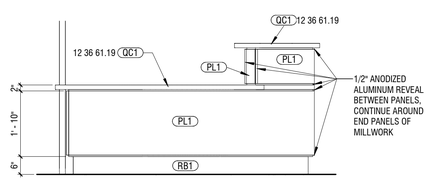


A4 DESK FRAMING PLAN
1/2" = 1'-0"

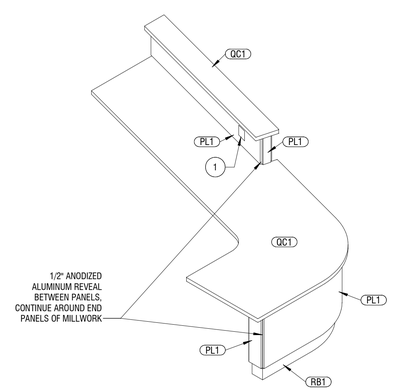
0' 1' 2' 4'



A1 CONTROL DESK FRONT DETAIL
1/2" = 1'-0"



A2 CONTROL DESK SIDE DETAIL
1/2" = 1'-0"



A3 CONTROL DESK 3D SIDE
1/2" = 1'-0"

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AQUASONIC CAR WASH

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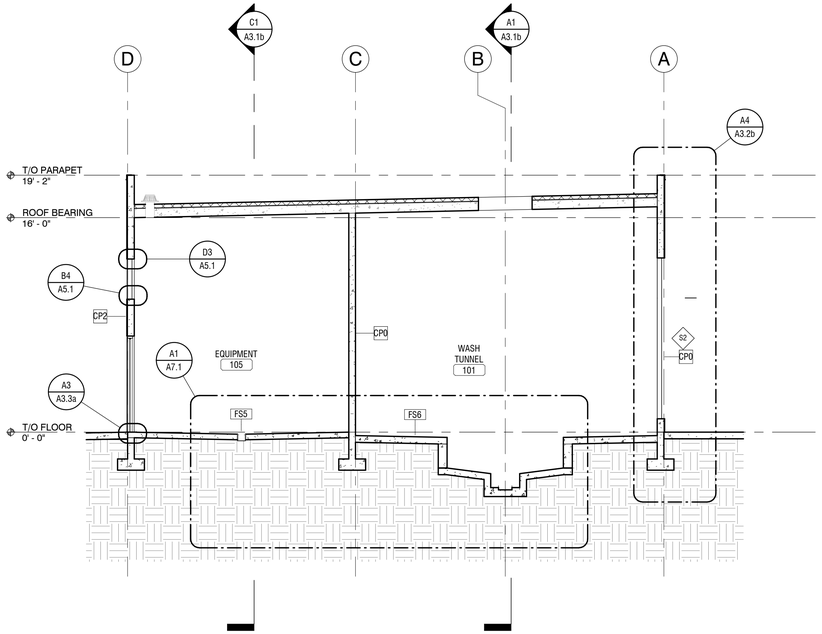
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INTERIOR DETAILS, FRONT DESK & CEILING CLOUD

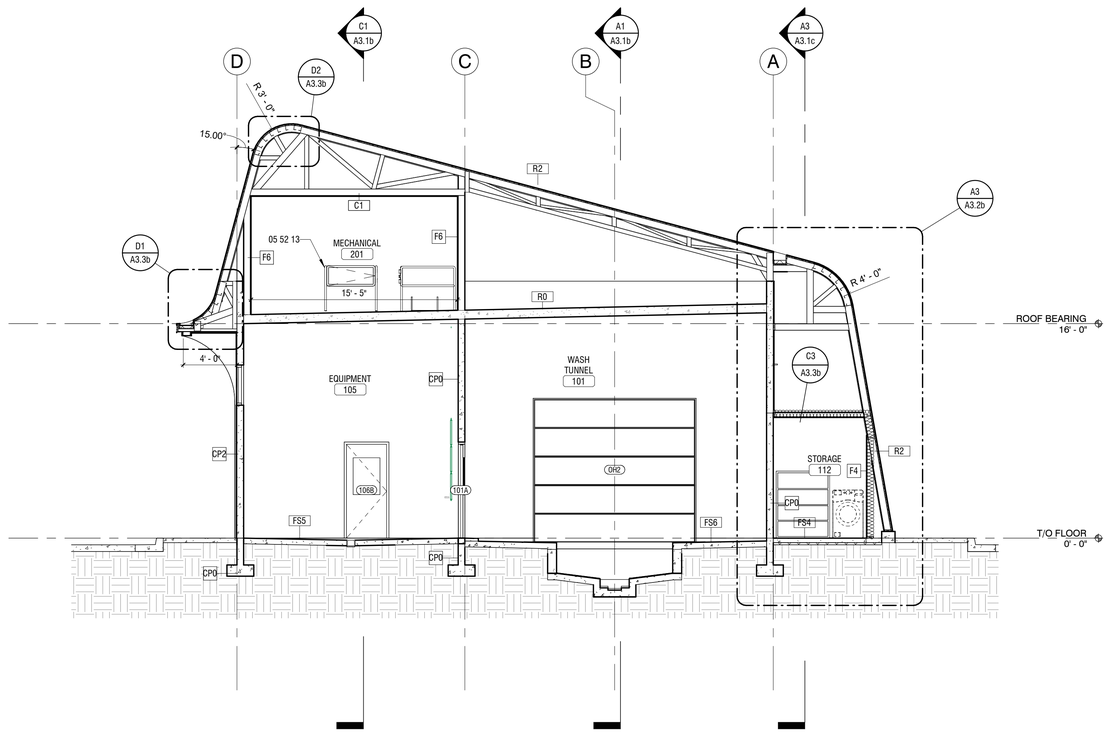
SHEET NUMBER:
A2.4b

BINDING



C1 EQUIPMENT / TUNNEL SECTION

3/16" = 1'-0"

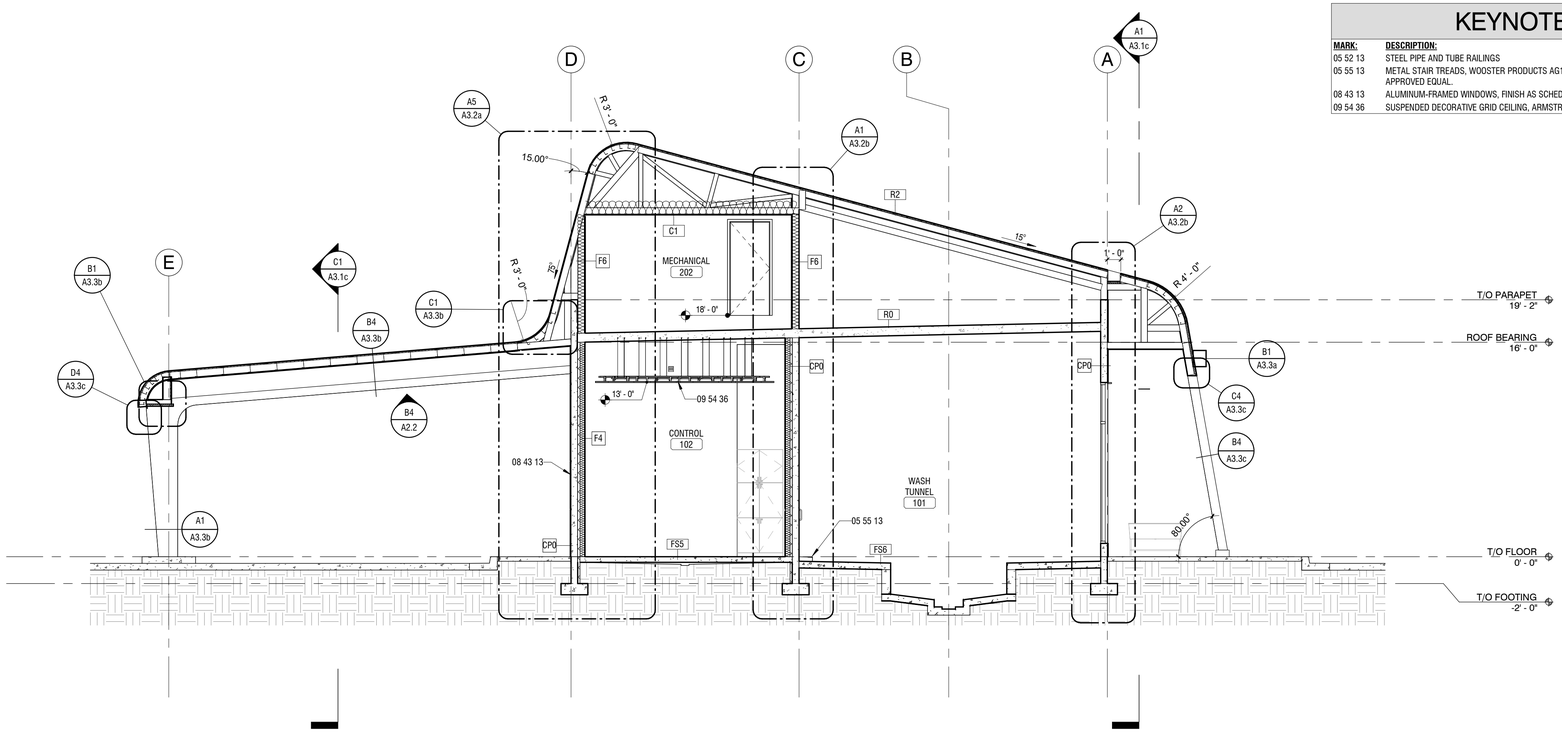


C3 BLOWER ROOM SECTION

3/16" = 1'-0"

KEYNOTES

MARK:	DESCRIPTION:
05 52 13	STEEL PIPE AND TUBE RAILINGS
05 55 13	METAL STAIR TREADS, WOOSTER PRODUCTS AG101.4 ALUMOGRIT TYPE 101 OR APPROVED EQUAL.
08 43 13	ALUMINUM-FRAMED WINDOWS, FINISH AS SCHEDULED
09 54 36	SUSPENDED DECORATIVE GRID CEILING, ARMSTRONG SOUNDSCAPES SHAPES



A1 STAFF / TUNNEL SECTION

3/16" = 1'-0"

0' 4' 8' 16'

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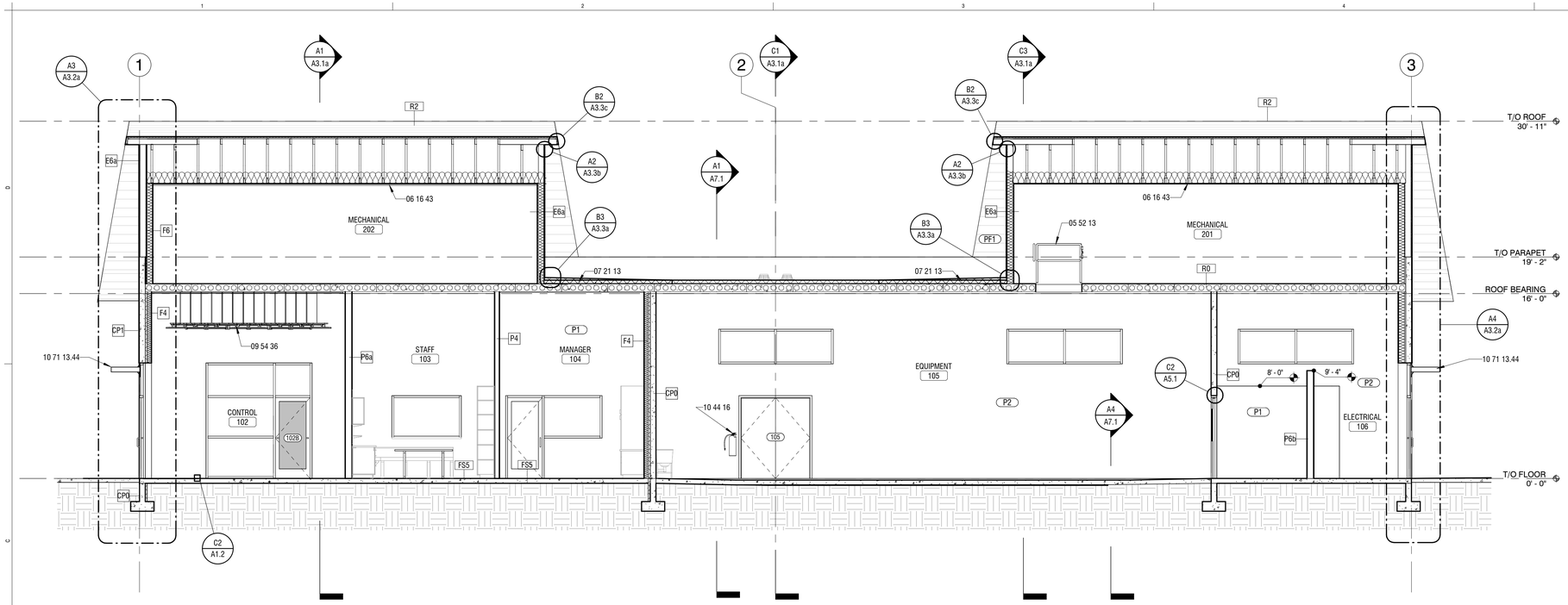
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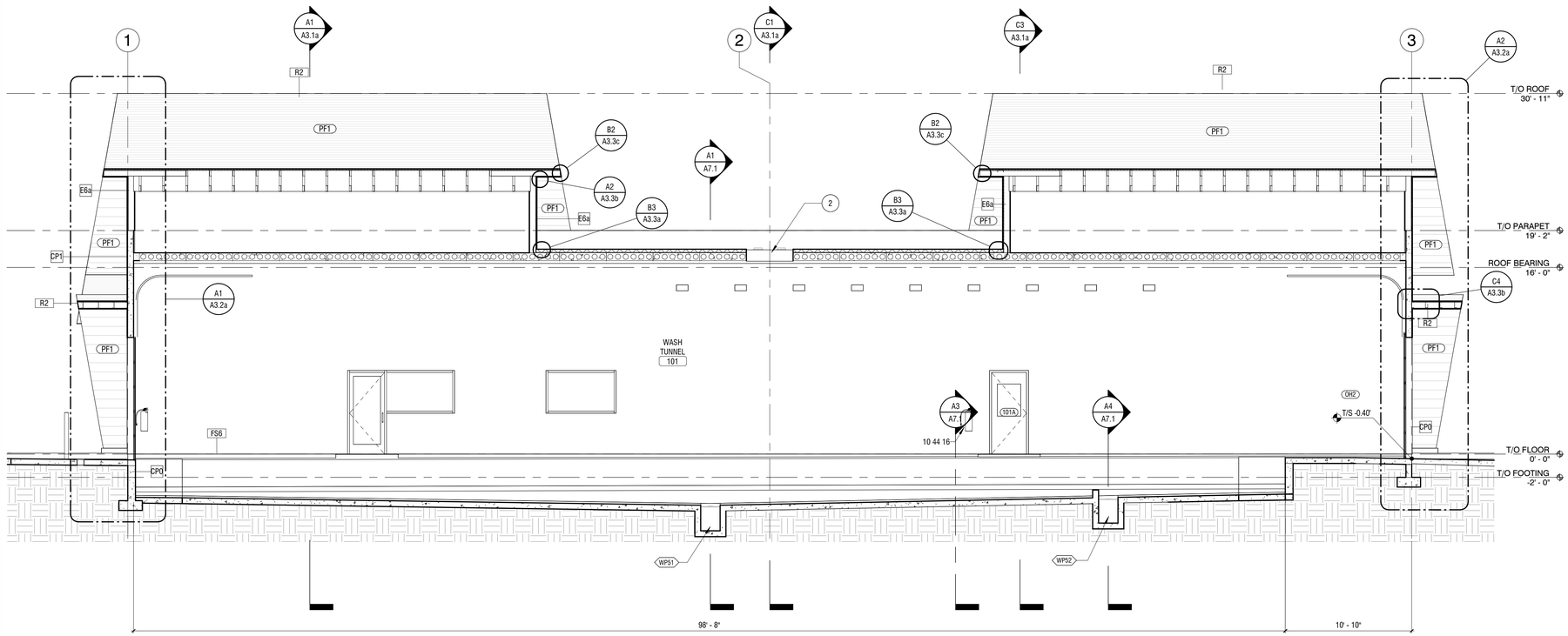
SHEET NUMBER:

A3.1a

BINDING



C1 CONTROL / EQUIPMENT ROOM SECTION



A1 WASH TUNNEL SECTION

KEYNOTES

MARK:	DESCRIPTION:
05 52 13	STEEL PIPE AND TUBE RAILINGS
06 16 43	GYPSUM SHEATHING
07 21 13	BOARD INSULATION
09 54 36	SUSPENDED DECORATIVE GRID CEILING, ARMSTRONG SOUNDSCAPES SHAPES
10 44 16	FIRE EXTINGUISHER, 10 LB. TYPE 3A-40B:CM, WITH WALL BRACKET. PROVIDE STAINLESS STEEL CONTAINER AND HARDWARE AT UNITS LOCATED IN CAR WASH TUNNEL
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30" SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.

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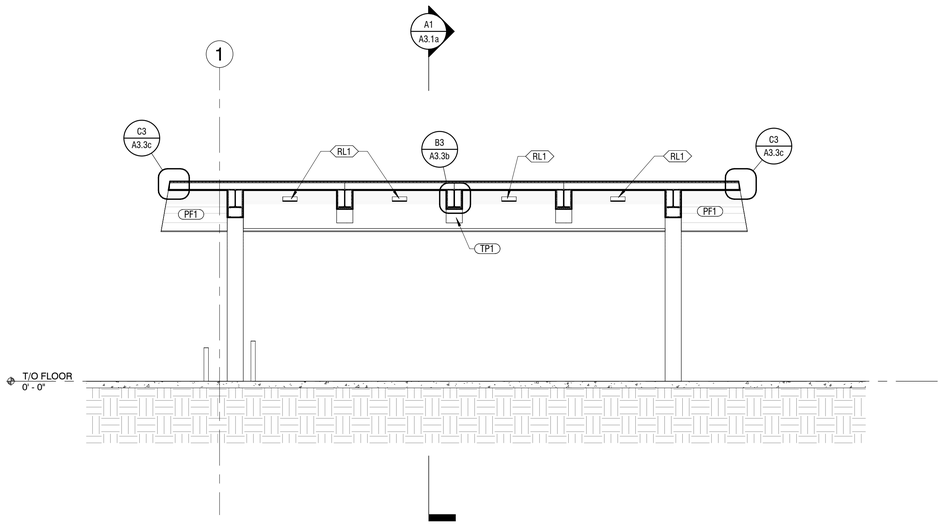
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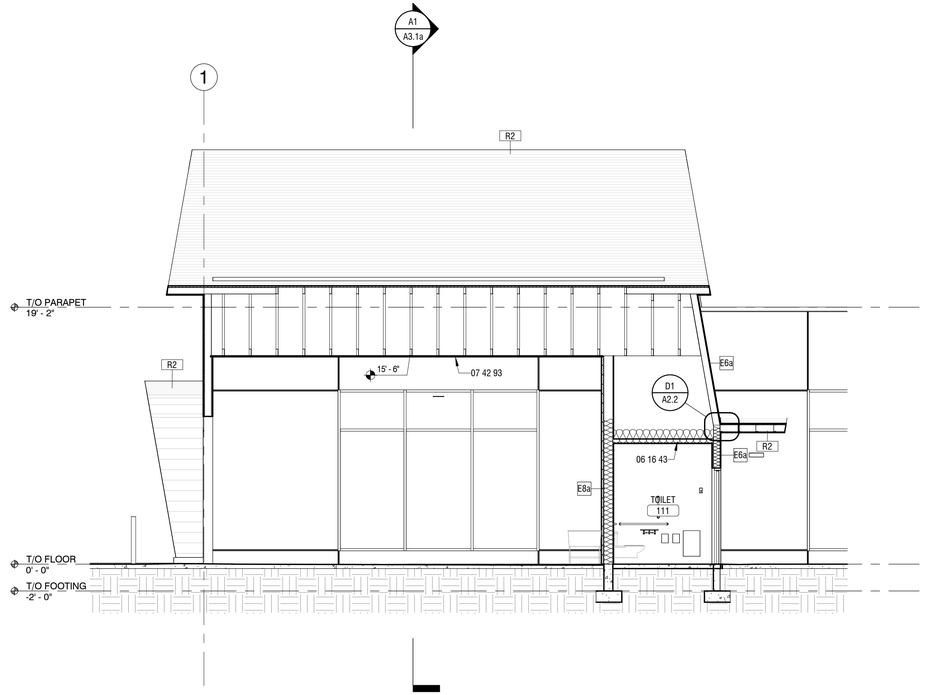
A3.1b

BINDING



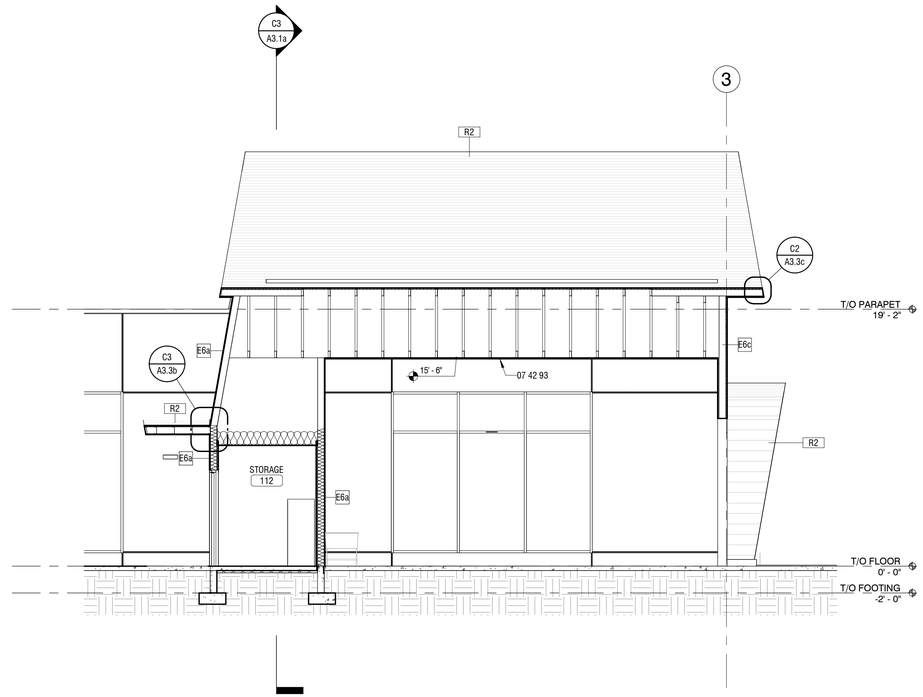
C1 PAY STATION CANOPY SECTION

3/16" = 1'-0"



A1 TOILET ROOM SECTION

3/16" = 1'-0"



A3 STORAGE ROOM SECTION

3/16" = 1'-0"

0' 4' 8' 16'

KEYNOTES

MARK:	DESCRIPTION:
06 16 43	GYPSUM SHEATHING
07 42 93	METAL SOFFIT PANEL

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BUILDING SECTIONS

SHEET NUMBER:

A3.1c

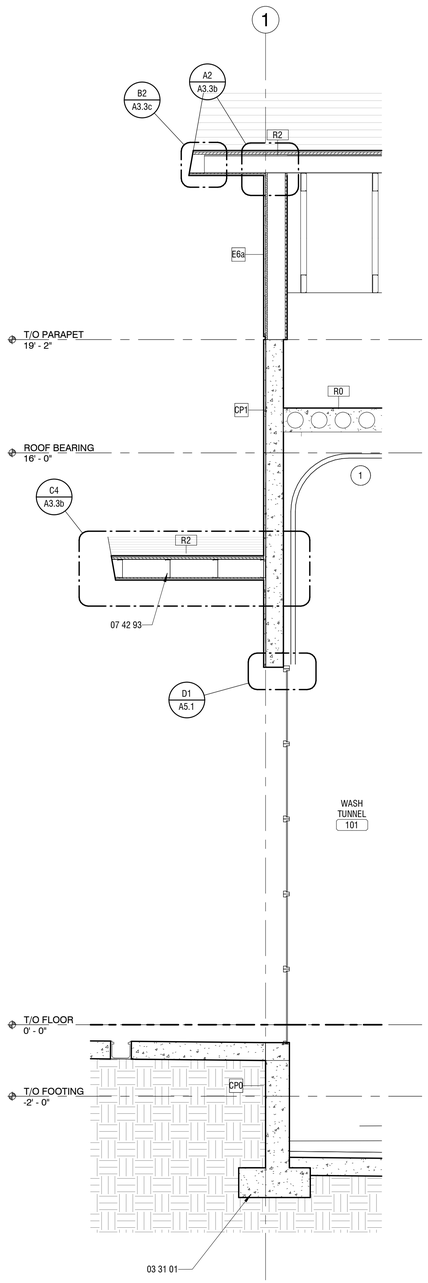
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KEYNOTES

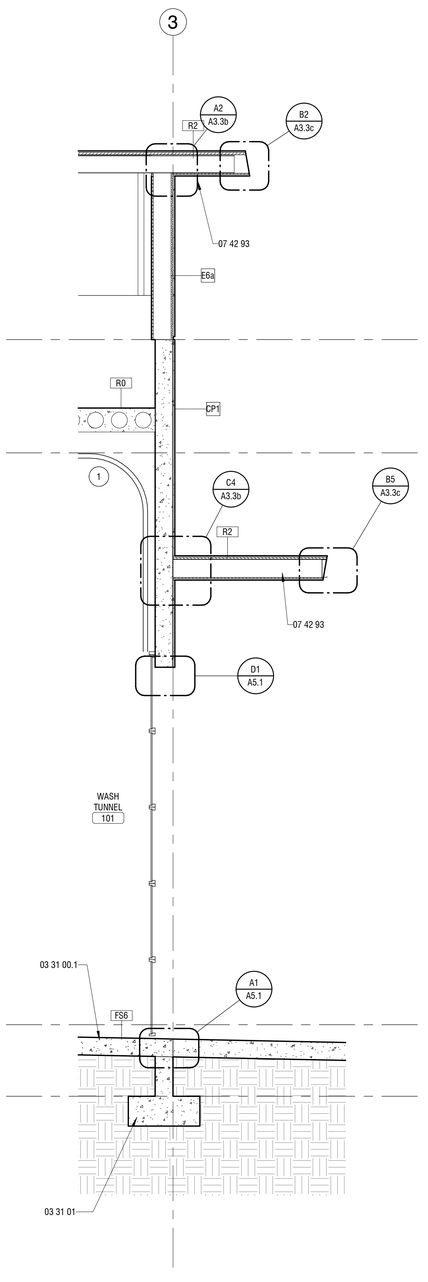
MARK:	DESCRIPTION:
03 31 00.1	6" CONCRETE SLAB AT ENTIRE TUNNEL WITH 6x6, W2.9xW2.9 WWF. PROVIDE MEDIUM BROOMFINISH
03 31 01	BUILDING FOUNDATION, SEE STRUCTURAL
07 42 93	METAL SOFFIT PANEL
08 42 13	ALUMINUM-FRAMED ENTRANCES, FINISH AS SCHEDULED
08 43 13	ALUMINUM-FRAMED WINDOWS, FINISH AS SCHEDULED
09 54 36	SUSPENDED DECORATIVE GRID CEILING, ARMSTRONG SOUNDSCAPES SHAPES
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30" SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.

SHEET NOTES

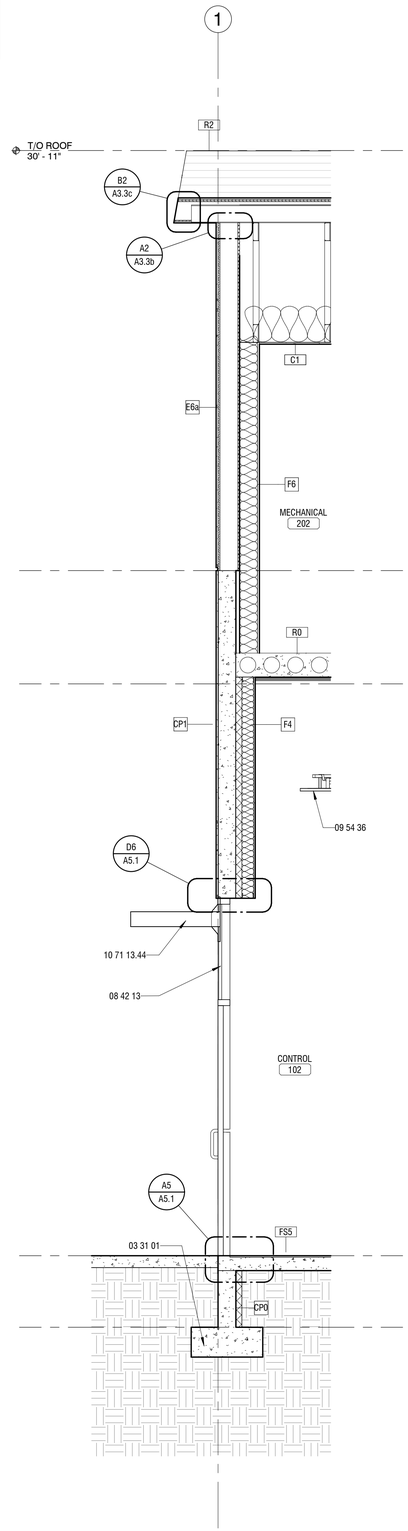
#:	DESCRIPTION:
1	EXTEND TRACK AS HIGH AS POSSIBLE TO CEILING



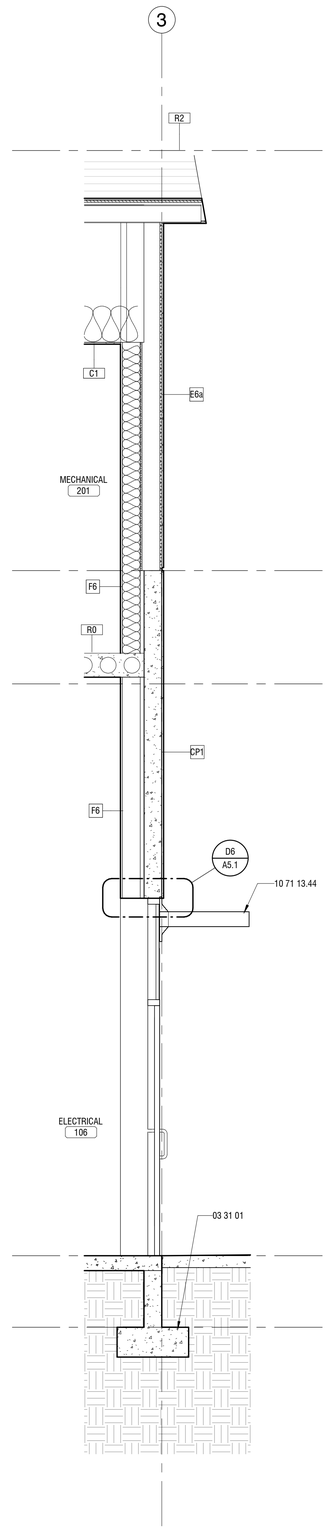
A1 TUNNEL ENTRANCE
1/2" = 1'-0"



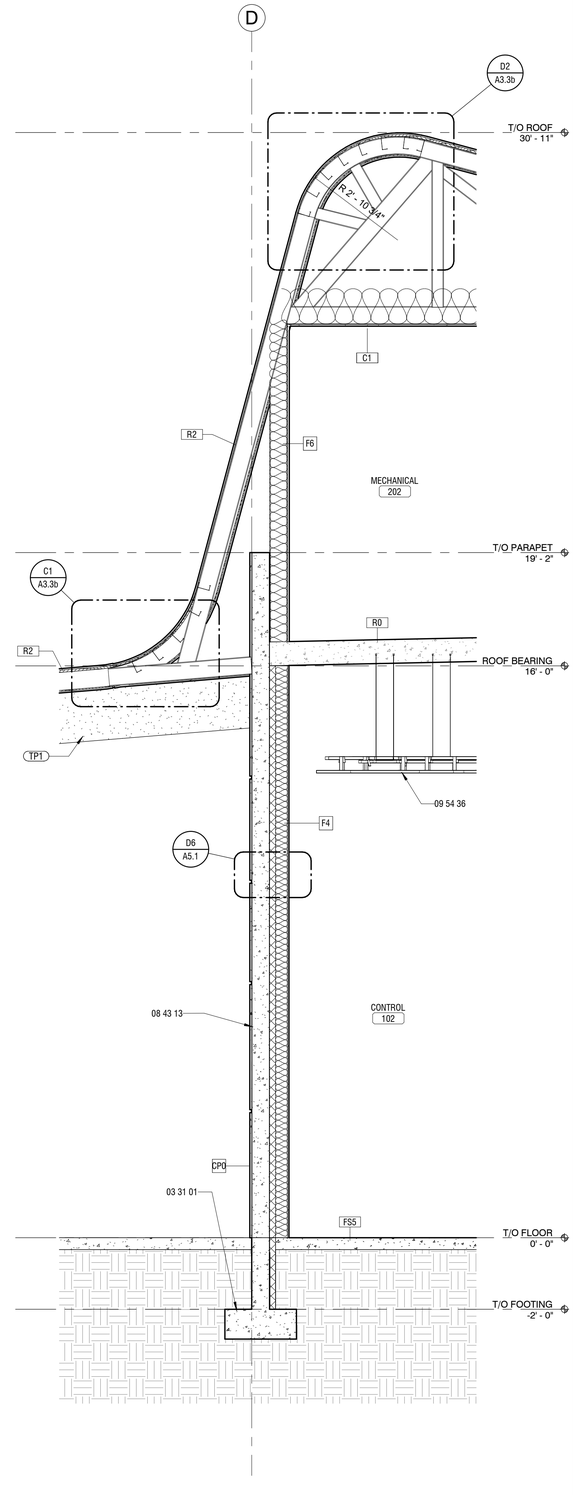
A2 TUNNEL EXIT
1/2" = 1'-0"



A3 CONTROL END
1/2" = 1'-0"



A4 EQUIPMENT END
1/2" = 1'-0"



A5 CONTROL @ SHELL SOFFIT
1/2" = 1'-0"

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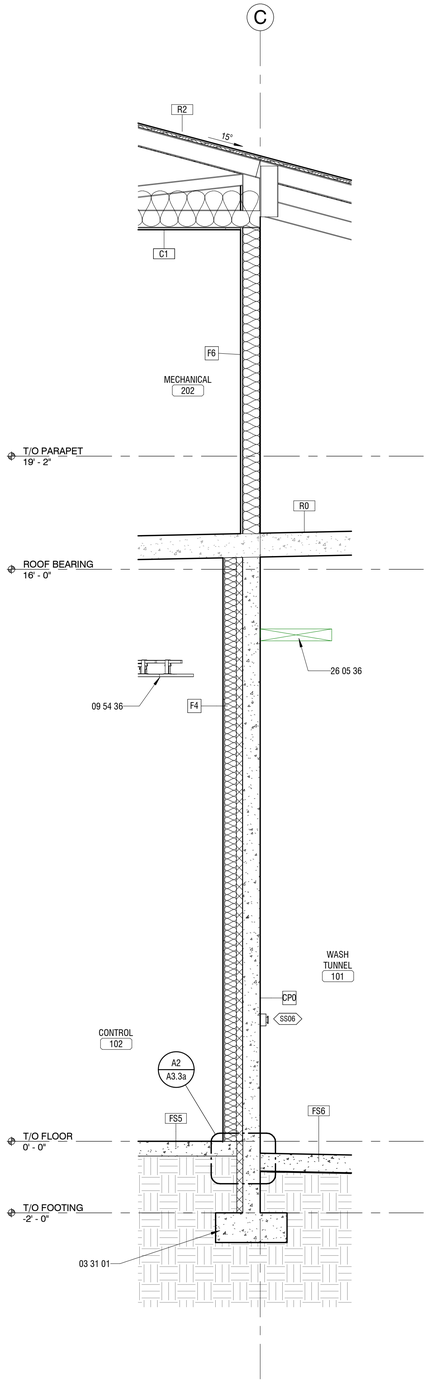
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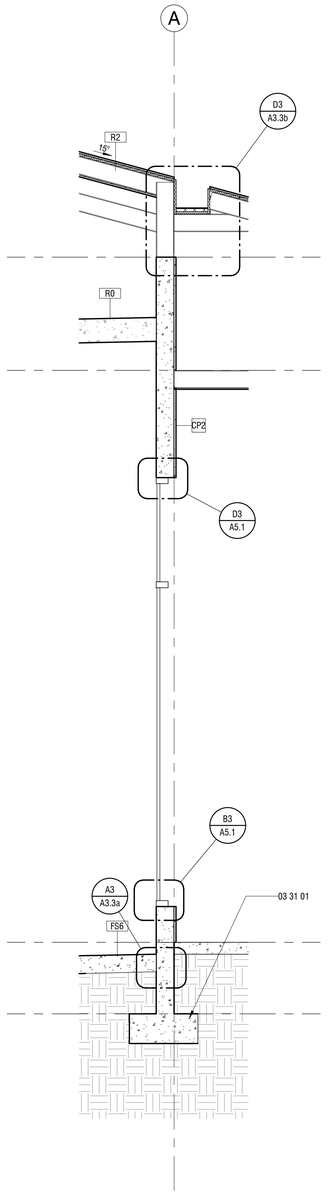
WALL SECTIONS

SHEET NUMBER:

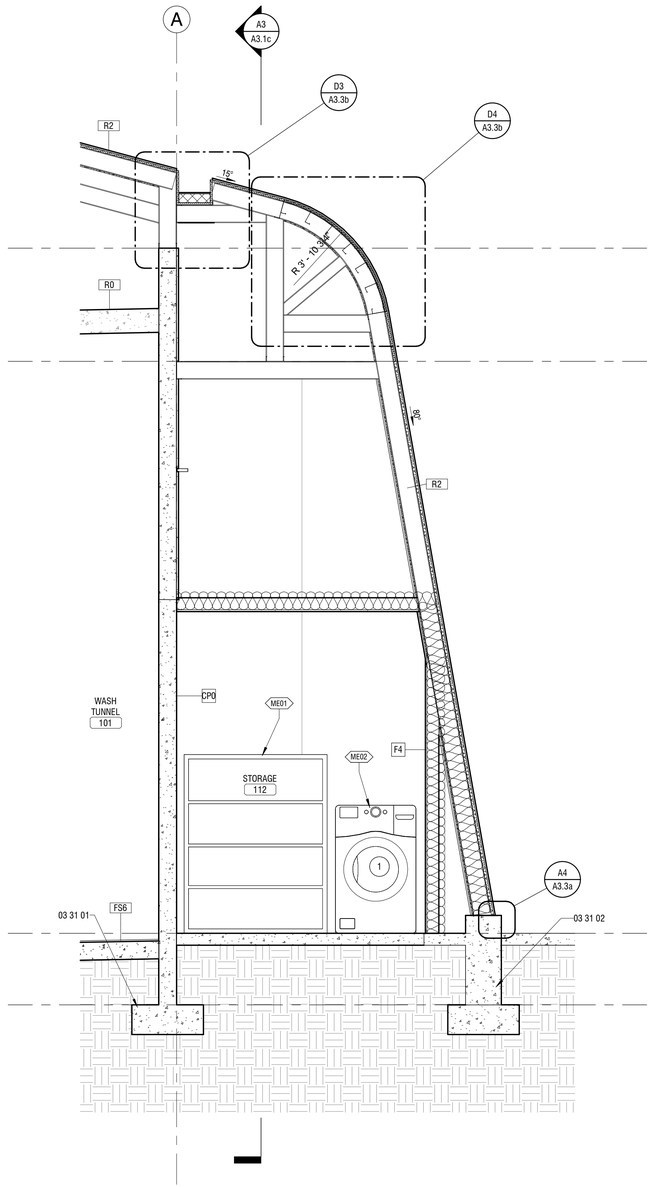
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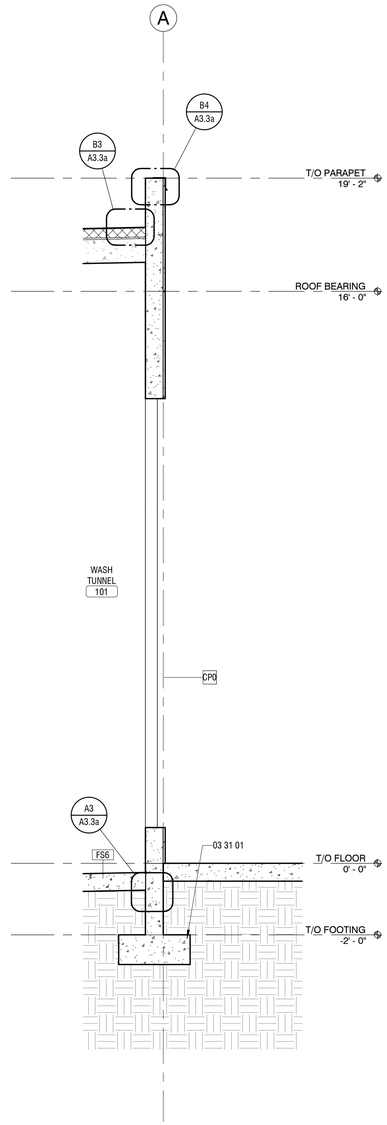
A1 CONTROL / TUNNEL
1/2" = 1'-0"



A2 TUNNEL @ SHELL SOFFIT
1/2" = 1'-0"



A3 TUNNEL @ LAUNDRY
1/2" = 1'-0"



A4 TUNNEL SIDE
1/2" = 1'-0"

KEYNOTES

MARK:	DESCRIPTION:
03 31 01	BUILDING FOUNDATION, SEE STRUCTURAL
03 31 02	CONCRETE FOOTING, SEE STRUCTURAL, TYP.
09 54 36	SUSPENDED DECORATIVE GRID CEILING, ARMSTRONG SOUNDSCAPES SHAPES
26 05 36	WIRE BASKET CABLE TRAY, BOD: 24" WIDE X 4" HIGH BASKET WITH 30" WALL BRACKET @ 60" OC MAX , ALUMINUM

SHEET NOTES

#:	DESCRIPTION:
1	FUTURE WASHER/EXTRACTOR EQUIPMENT BY OWNER

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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TWIN FALLS, IDAHO 83303
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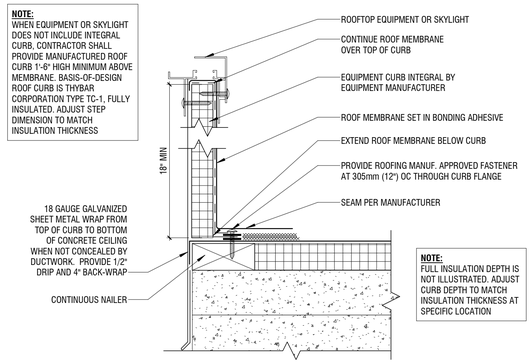
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DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

WALL SECTIONS

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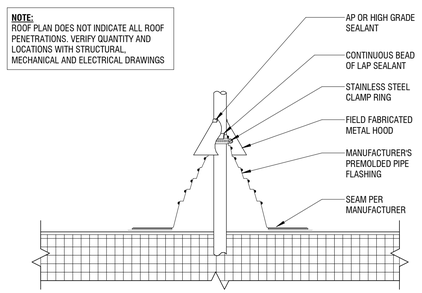
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BINDING



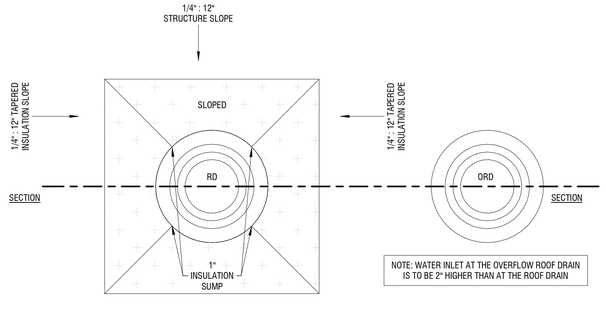
D2 ROOF CURB & FLASHING

3" = 1'-0"

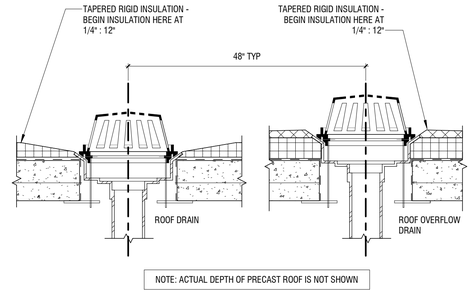


C2 ROUND PENETRATION FLASHING

3" = 1'-0"



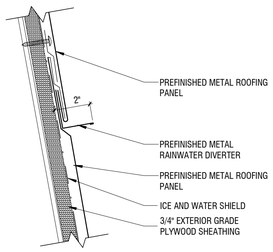
PLAN



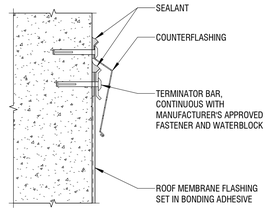
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C3 ROOF DRAIN AND OVERFLOW DRAIN

1 1/2" = 1'-0"

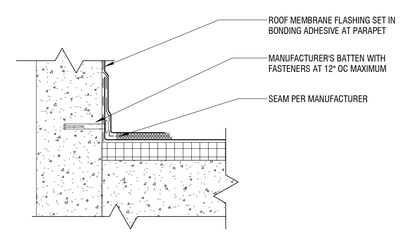


B1 RAINWATER DIVERTER



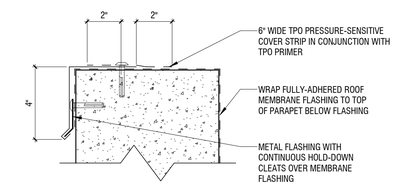
B2 TERMINATION FLASHING

3" = 1'-0"



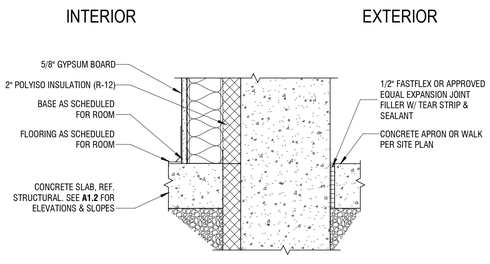
B3 MEMBRANE BASE TIE-IN

3" = 1'-0"

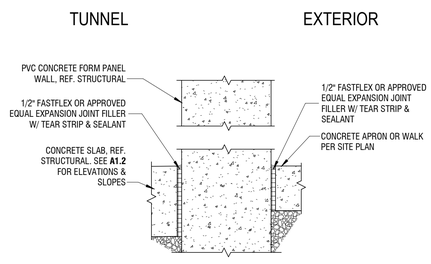


B4 PARAPET COPING

3" = 1'-0"

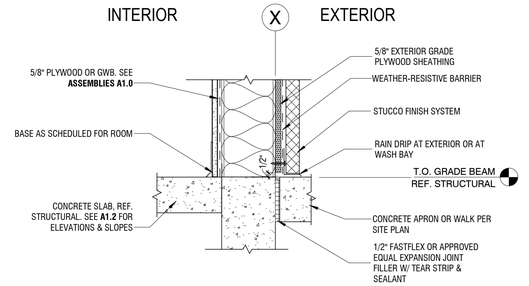


A2 WALL BASE - OFFICE



A3 WALL BASE - TUNNEL / EQUIPMENT

1 1/2" = 1'-0"



A4 WALL BASE - EXTERIOR STUD EIFS

1 1/2" = 1'-0"

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

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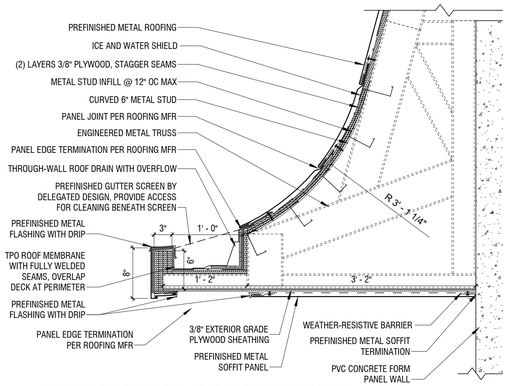
CHECKED:	JDH
DATE:	08/19/2024
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ISSUED FOR:	08/22/24 BID SET

EXTERIOR DETAILS

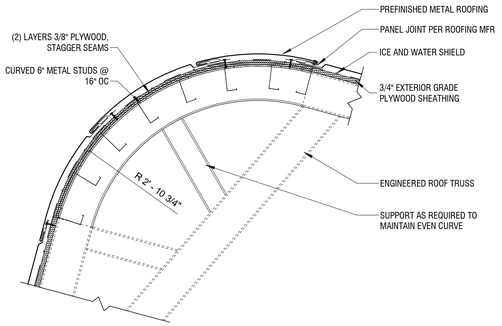
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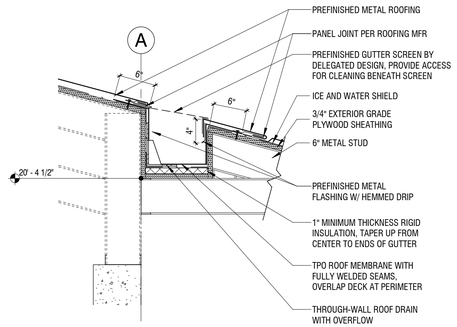


D1 ROOF EAVE EDGE SOFFIT

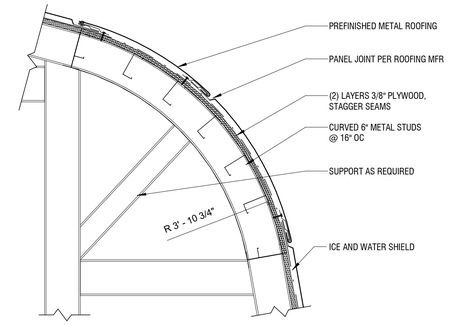


D2 ROOF RIDGE

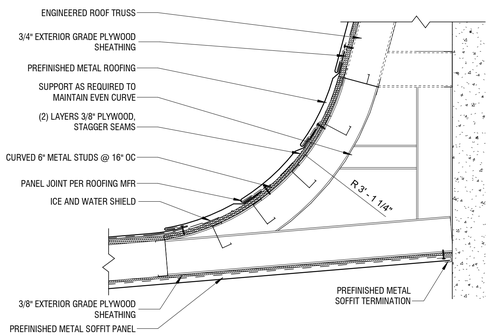
1" = 1'-0"



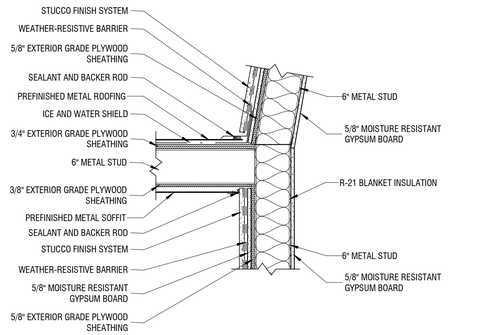
D3 CONCEALED GUTTER



D4 ROOF LOW SHOULDER

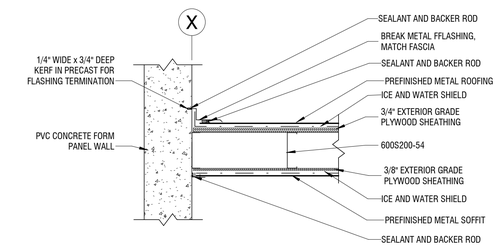


C1 CANOPY ROOF HIGH END



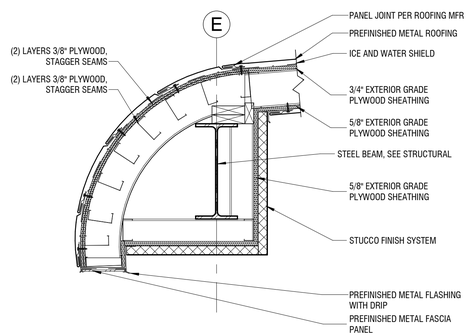
C3 UTILITY DOOR COWL

1" = 1'-0"

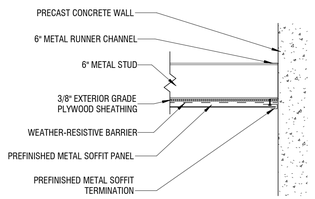


C4 TUNNEL DOOR COWL

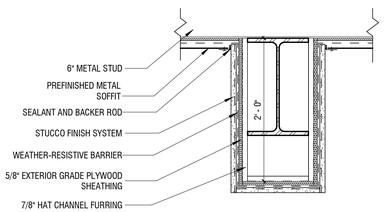
1" = 1'-0"



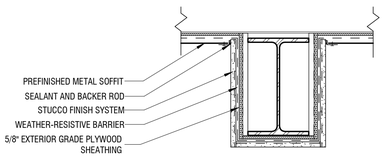
B1 CANOPY ROOF LOW END



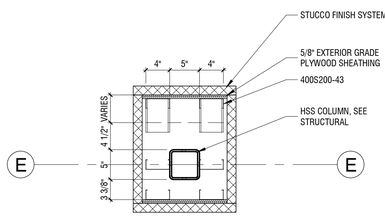
B2 SOFFIT AT PRECAST WALL



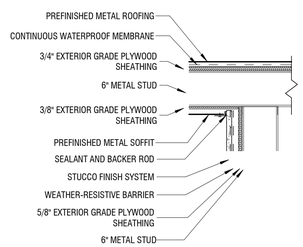
B3 CANOPY END BEAM WRAP



B4 CANOPY INTERIOR BEAM WRAP

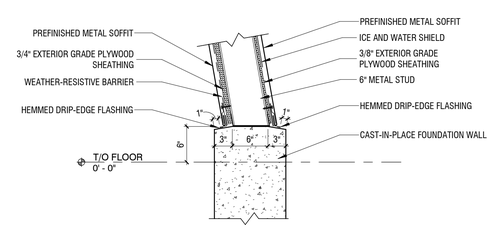


A1 CANOPY COLUMN PLAN DETAIL

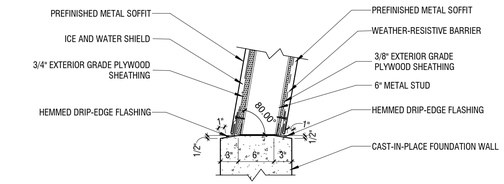


A2 ROOF SOFFIT FRAMED WALL

1" = 1'-0"



A3 CANOPY BASE PEDESTAL



A4 ROOF BASE PEDESTAL

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STATE OF FLORIDA
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AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

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AQUASONIC CAR WASH

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2020 E 4640
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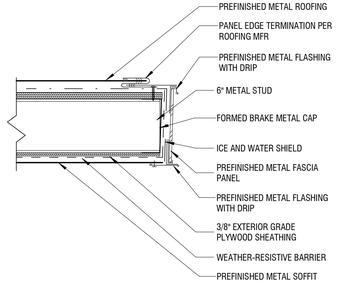
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DATE:	08/19/2024
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ISSUED FOR:	08/22/24 BID SET

EXTERIOR DETAILS

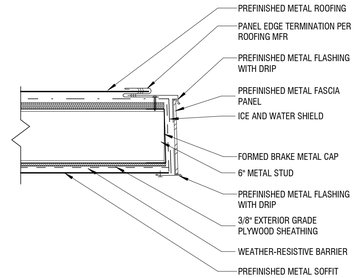
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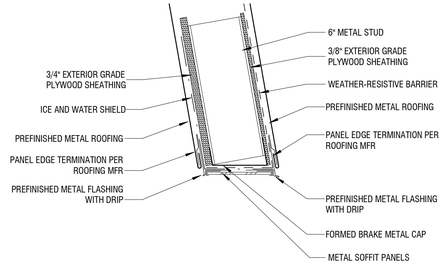
BINDING



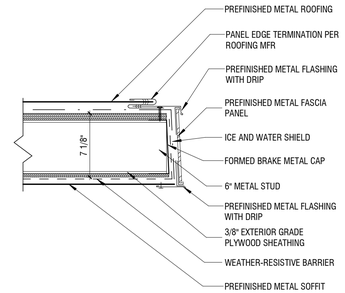
D2 CANOPY WALL FASCIA
1 1/2" = 1'-0"



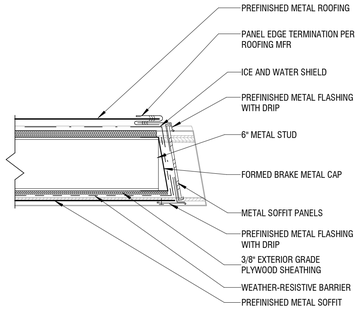
D3 CANOPY WALL CUTOUT FASCIA
1 1/2" = 1'-0"



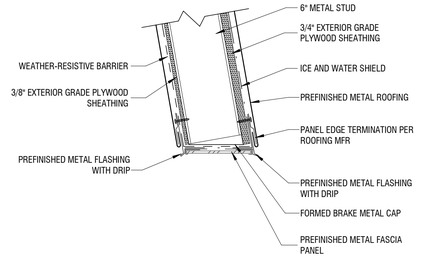
D4 CANOPY CUTOUT HEAD FASCIA
1 1/2" = 1'-0"



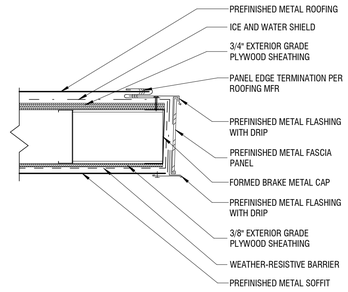
C2 ROOF EAVE HIGH SIDE FASCIA
1 1/2" = 1'-0"



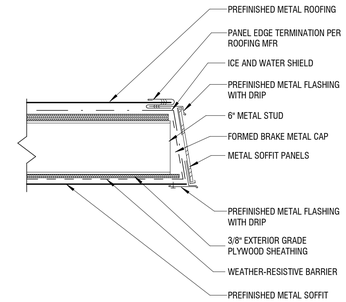
C3 CANOPY ROOF FASCIA
1 1/2" = 1'-0"



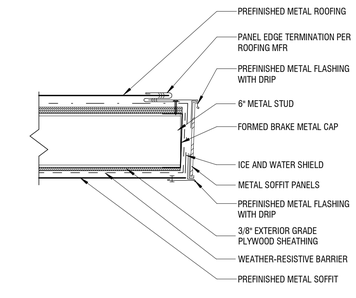
C4 ROOF CUTOUT HEAD FASCIA
1 1/2" = 1'-0"



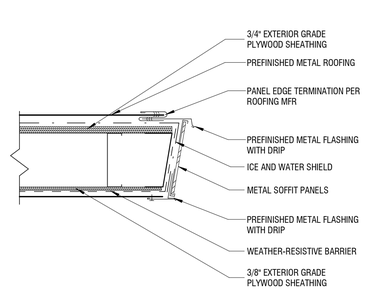
C5 TUNNEL COWL HIGH SIDE FASCIA
1 1/2" = 1'-0"



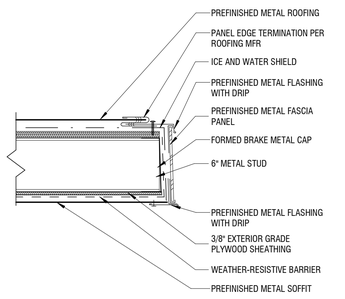
B2 ROOF EAVE TOP FASCIA
1 1/2" = 1'-0"



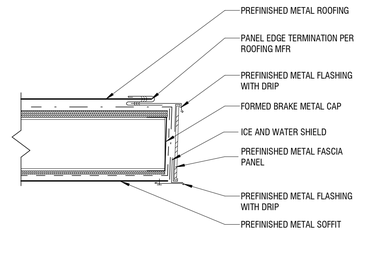
B4 ROOF CUTOUT JAMB FASCIA
1 1/2" = 1'-0"



B5 TUNNEL COWL TOP FASCIA
1 1/2" = 1'-0"



A2 ROOF EAVE LOW SIDE FASCIA
1 1/2" = 1'-0"



A5 TUNNEL COWL LOW SIDE FASCIA
1 1/2" = 1'-0"

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SPOTLESS WASH SOLUTIONS
PO BOX 4546
TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

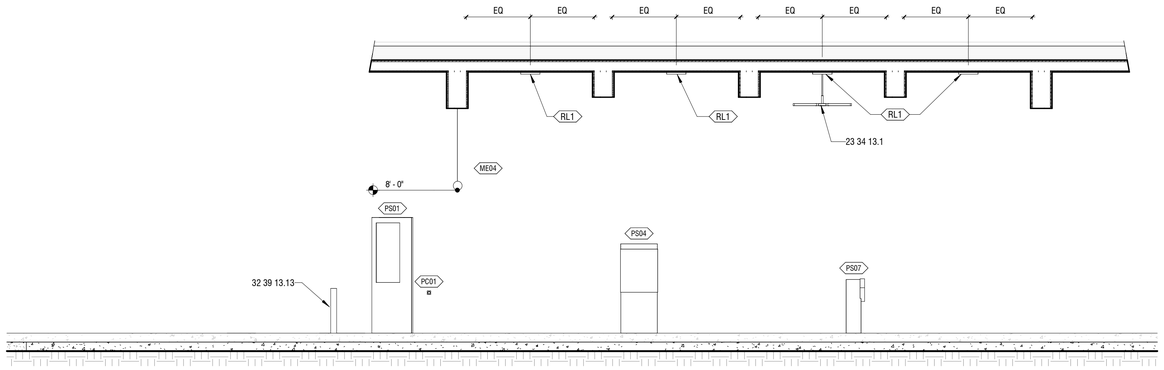
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EXTERIOR DETAILS

SHEET NUMBER:

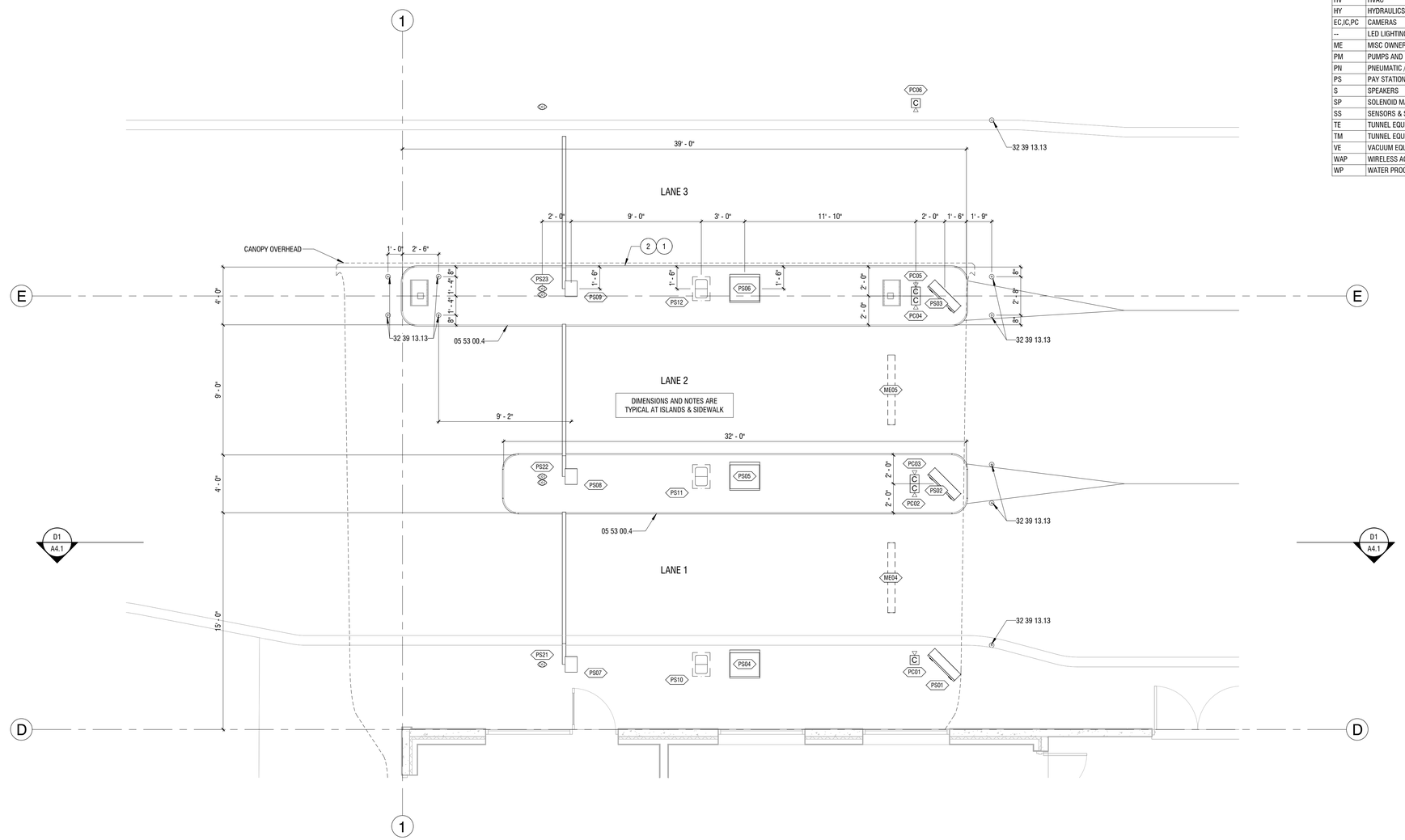
A3.3c

BINDING



D1 PAY STATION SECTION

1/4" = 1'-0"



A1 PAY STATION EQUIPMENT LOCATION PLAN

1/4" = 1'-0"

0' 2' 4' 8'

NORTH

KEYNOTES

MARK:	DESCRIPTION:
05 53 00.4	10" HIGH x 1" CHAMFER EDGE STAINLESS STEEL ISLAND FORM AT PERIMETER OF PAY ISLAND. LEAVE 6" OF ISLAND FORM EXPOSED ABOVE ADJACENT PAVEMENT MINIMUM
23 34 13.1	CEILING FAN, PROVIDE HUNTER DOWTOWN 60", 6-SPEED FAN IN MATTE SILVER WITH WALL CONTROLS TO BE LOCATED INSIDE OF OFFICE.
32 39 13.13	STAINLESS STEEL BOLT DOWN THREADED BOLLARDS, 4" OD X 36" H, CREATIVE SAFETY SUPPLY OR APPROVED EQUAL, SEE TYPICAL BOLLARD DETAIL

GENERAL NOTES

A. IN ADDITION TO THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, INSTALL PAY STATION SYSTEM INFRASTRUCTURE IN ACCORDANCE WITH PAY STATION MANUFACTURER'S INSTALLATION LITERATURE.

B. GENERAL CONTRACTOR RESPONSIBLE TO REQUEST & RECIEVE POINT OF SALE SYSTEM DRAWINGS FROM OWNER, AND INCORPORATE AS CONTRACT DOCUMENTS FOR THIS PROJECT.

C. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIAN AND INSTALLED IN ACCORDANCE WITH LOCALLY ADOPTED CODES.

D. IN ADDITION TO ROUTING OF ALL POWER AND CONTROLS CONDUCTORS THROUGH THE PULL BOX, ALSO ROUTE CONDUCTORS BETWEEN EQUIPMENT THROUGH THE PULL BOX.

SHEET NOTES

#:	DESCRIPTION:
1	FILL ISLAND FORM WITH CONCRETE TO AN OVERALL DEPTH OF 12" MINIMUM. PROVIDE #3 BARS @ 12" O.C. EACH WAY AT TOP AND PROVIDE #3 CONTINUOUS AROUND THE BOTTOM PERIMETER. PROVIDE 3" MINIMUM COVERAGE. PROVIDE BROOM FINISH.
2	PREFORMED JOINT MATERIAL AND POLYEURETHANE SEALANT FS-TT-S-00227, TYPE II, NON SAG AND I-SELF LEVELING, CLASS A, AT ISLAND PERIMETER, TYPICAL.

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
--	ELECTRICAL PANELS & CONTROLLERS	A1.6c	EQUIPMENT SCHEDULE
BM	BLOWER MOTORS	A1.6a	EQUIPMENT SCHEDULE
CD	CHEMICAL DISPENSING	A1.6b	EQUIPMENT SCHEDULE
EE	OTHER ELECTRICAL EQUIPMENT	A1.6c	EQUIPMENT SCHEDULE
ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
HV	HVAC	A1.6b	EQUIPMENT SCHEDULE
HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
PS	PAY STATION SYSTEMS	A4.2	EQUIPMENT SCHEDULE
S	SPEAKERS	A1.6b	EQUIPMENT SCHEDULE
SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
SS	SENSORS & SWITCHES	A1.6c	EQUIPMENT SCHEDULE
TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
TM	TUNNEL EQUIPMENT MOTORS	A1.6a	EQUIPMENT SCHEDULE
VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

STAMP:

STATE OF FLORIDA
JOSHUA HOWARD
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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ISSUED FOR:	08/22/24 BID SET

PAY STATION
ISLAND DETAILS

SHEET NUMBER:

A4.1

BINDING

PS - PAY STATION SYSTEMS

ITEM	DESCRIPTION	RESPONSIBILITY				POWER			CONDUIT		TC FUNCTION	CONTROL			MOUNTING	COMMENTS
		FURNISH	UNLOAD	SET IN PLACE	INSTALL	VOLTAGE	FEED FROM/ TO	HARDWIRE	ROUTING	PROVIDE		WIRE SPEC	CONNECTION TYPE	FEED FROM/ TO		
PS01	SIGN, MENU SCREEN, LANE 1	O	OC	OC	OC	100-240	MCC TC/ FIXTURE	GC	UG	GC	No	#12 AWG/ THHN/ THWN	SO CORD/ J BOX	MCC TC/ FIXTURE	PAD	-
PS02	SIGN, MENU SCREEN, LANE 2	O	OC	OC	OC	100-240	MCC TC/ FIXTURE	GC	UG	GC	No	#12 AWG/ THHN/ THWN	SO CORD/ J BOX	MCC TC/ FIXTURE	PAD	-
PS03	SIGN, MENU SCREEN, LANE 3	O	OC	OC	OC	100-240	MCC TC/ FIXTURE	GC	UG	GC	No	#12 AWG/ THHN/ THWN	SO CORD/ J BOX	MCC TC/ FIXTURE	PAD	-
PS04	PAY STATION (XPT), LANE 1	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	2x CAT8, XLPE BELDEN #35616	RJ45 SOCKET,	DRB SERVER, PROX LOOP	PAD	STANDARD BASE FRAME, INSTALL PER PRODUCT LITERATURE
PS05	PAY STATION (XPT), LANE 2	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	2x CAT8, XLPE BELDEN #35616	RJ45 SOCKET,	DRB SERVER, PROX LOOP	PAD	STANDARD BASE FRAME, INSTALL PER PRODUCT LITERATURE
PS06	PAY STATION (XPT), LANE 3	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	2x CAT8, XLPE BELDEN #35616	RJ45 SOCKET,	DRB SERVER, PROX LOOP	PAD	STANDARD BASE FRAME, INSTALL PER PRODUCT LITERATURE
PS07	MAGNETIC GATE; LANE 1	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	CAT8	RJ45 SOCKET	GATE/ XPT	PAD	GATE HEIGHT TO BE RAISED 1'
PS08	MAGNETIC GATE; LANE 2	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	CAT8	RJ45 SOCKET	GATE/ XPT	PAD	GATE HEIGHT TO BE RAISED 1'
PS09	MAGNETIC GATE; LANE 3	O	OC	OC	OC	120	HOUSE PANEL/ UNIT	GC	UG	GC	No	CAT8	RJ45 SOCKET	GATE/ XPT	PAD	GATE HEIGHT TO BE RAISED 1'
PS10	PULL BOX, LANE 1	GC	GC	GC	GC	-	-	-	UG	GC	No	-	-	-	SLAB	ALL POWER AND CONTROL CONDUITS EXTEND THROUGH BOX
PS11	PULL BOX, LANE 2	GC	GC	GC	GC	-	-	-	UG	GC	No	-	-	-	SLAB	ALL POWER AND CONTROL CONDUITS EXTEND THROUGH BOX
PS12	PULL BOX, LANE 3	GC	GC	GC	GC	-	-	-	UG	GC	No	-	-	-	SLAB	ALL POWER AND CONTROL CONDUITS EXTEND THROUGH BOX
PS13	LOADING TUNNEL CONTROL STATION	O	OC	OC	OC	-	HOUSE PANEL/ UNIT	GC	UG	GC	No	CAT5E/ (2) RS422	WALL PLATE/ PATCH CABLE	SITEWATCH SERVER/ STATION	SLAB	ON WALL
PS14	DRB SITEWATCH SRMB	O	OC	OC	OC	120	LA/ RECEPTACLE	GC	UG	GC	Yes	CAT8 / SERIAL / 25-CONDUCTOR CABLE	RJ45/ SERIAL PORT/ TERMINAL STRIP	CAT8 TO SERVER RACK / SERIAL TO DRB SERVER / 25-CONDUCTOR TO TC	RACK	GC TO PROVIDE 25-CONDUCTOR SRMB CABLE AND CONDUIT. SEE DRB LITERATURE FOR ORDERING INFORMATION
PS15	DRB SITEWATCH SERVER	O	OC	OC	OC	120	LA/ RECEPTACLE	GC	UG	GC	Yes	CAT8	RJ45 SOCKET		RACK	
PS21	PHOTO EYE SET, PAY STATION GATE	O	OC	OC	OC	120	-	GC	UG	GC	No	MANUF. PREWIRED WHIP	TERMINAL BLOCK	EYES/ XPT	PEDESTAL	
PS22	PHOTO EYE SET, PAY STATION GATE	O	OC	OC	OC	120	-	GC	UG	GC	No	MANUF. PREWIRED WHIP	TERMINAL BLOCK	EYES/ XPT	PEDESTAL	
PS23	PHOTO EYE SET, PAY STATION GATE	O	OC	OC	OC	120	-	GC	UG	GC	No	MANUF. PREWIRED WHIP	TERMINAL BLOCK	EYES/ XPT	PEDESTAL	

EQUIPMENT TAG KEY

MARK:	SCHEDULE TITLE:	SHEET #:	SHEET NAME:
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ES	ELECTRICAL SIGNAGE	A1.6c	EQUIPMENT SCHEDULE
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HY	HYDRAULICS	A1.6a	EQUIPMENT SCHEDULE
EC,IC,PC	CAMERAS	A0.3	EQUIPMENT SCHEDULE
--	LED LIGHTING	A1.8	REFLECTED CEILING PLAN
ME	MISC OWNER FURNISHED ITEMS	A1.6c	EQUIPMENT SCHEDULE
PM	PUMPS AND MOTORS	A1.6a	EQUIPMENT SCHEDULE
PN	PNEUMATIC / COMPRESSED AIR	A1.6a	EQUIPMENT SCHEDULE
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SP	SOLENOID MANIFOLDS & PANELS	A1.6b	EQUIPMENT SCHEDULE
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TE	TUNNEL EQUIPMENT	A1.6b	EQUIPMENT SCHEDULE
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VE	VACUUM EQUIPMENT	A1.6d	EQUIPMENT SCHEDULE
WAP	WIRELESS ACCESS POINTS	A1.6b	EQUIPMENT SCHEDULE
WP	WATER PROCESSING / BOILER SYSTEMS	A1.6a	EQUIPMENT SCHEDULE

SHEET NOTES

#:	DESCRIPTION:
1	PULL-BOX, SEE DETAIL C5/A4.2. ROUTE ALL ISLAND POWER AND CONTROLS CONDUCTORS FROM BUILDING AND BETWEEN TERMINAL AND OTHER PAY STATION ISLAND EQUIPMENT THROUGH BOX. DO NOT TERMINATE OR SPLICE AT BOX. DIVISION 16 CONTRACTOR TO EXTEND (3) 1" METAL POWER CONDUIT WITH DEDICATED 20AMP CIRCUITS TO SOUTH DIVIDED HALF OF PULL BOX AND (2) 1" METAL CONTROLS CONDUITS AT NORTH SIDE OF PULL BOX.
2	PROVIDE CONDUIT AND CONDUCTORS BETWEEN ISLAND EQUIPMENT AND PULL-BOX. DIVISION 16 TO TERMINATE POWER AND CONTROLS CONDUCTORS TO THE EQUIPMENT.
3	POWER CONNECTION FROM PANEL TO DRB XPT (POS UNIT) BY DIVISION 16 CONTRACTOR. PROVIDE 120VAC, 20 AMP "COMPUTER GRADE POWER" WITH DEDICATED CIRCUIT AND EARTH GROUND. USE 1" METAL CONDUIT AT CIRCUIT.
4	POWER CONNECTION FROM PANEL TO DRB MAGNETIC GATE BY DIVISION 16 CONTRACTOR. PROVIDE 120VAC, 20 AMP DEDICATED CIRCUIT. USE 1" METAL CONDUIT AT CIRCUIT.
5	POWER CONNECTION FROM PANEL TO DIGITAL SCREEN MENU BY DIVISION 16 CONTRACTOR. 100-240VAC, PROVIDE 20AMP DEDICATED CIRCUIT. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL. USE 1" METAL CONDUIT AT CIRCUIT.
6	CONTROL CONDUIT, CONDUCTORS AND CONNECTION FROM XPT TO SERVER RACK AT MANAGERS OFFICE BY DIVISION 16 CONTRACTOR. USE 1" METAL CONDUIT.
7	CONTROL CONDUIT, CONDUCTORS AND CONNECTION FROM MAGNETIC GATE TO XPT BY DIVISION 16 CONTRACTOR. USE 1" METAL CONDUIT.
8	CONTROL CONDUIT, CONDUCTORS, AND CONNECTION FROM DIGITAL MENU SIGN TO SERVER RACK AT MANAGERS OFFICE BY DIVISION 16 CONTRACTOR.
9	CONTROL CONDUIT, CONDUCTORS AND CONNECTION FROM PAY STATION GATE EYES TO XPT BY DIVISION 16 CONTRACTOR. USE 1" METAL CONDUIT.
10	CONTROL CONDUIT, CONDUCTORS AND CONNECTION FROM CAMERA TO XPT BY DIVISION 16 CONTRACTOR. USE 1" METAL CONDUIT.
13	(3) 1" POWER CONDUITS TO 120VAC PANEL. PROVIDE DEDICATED 20AMP BREAKER FOR EACH.
14	(2) 1" CONTROL CONDUITS TO SERVER RACK HEAD END EQUIPMENT LOCATED IN MANAGER'S OFFICE. (1) IS SPARE.

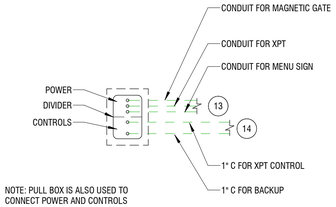
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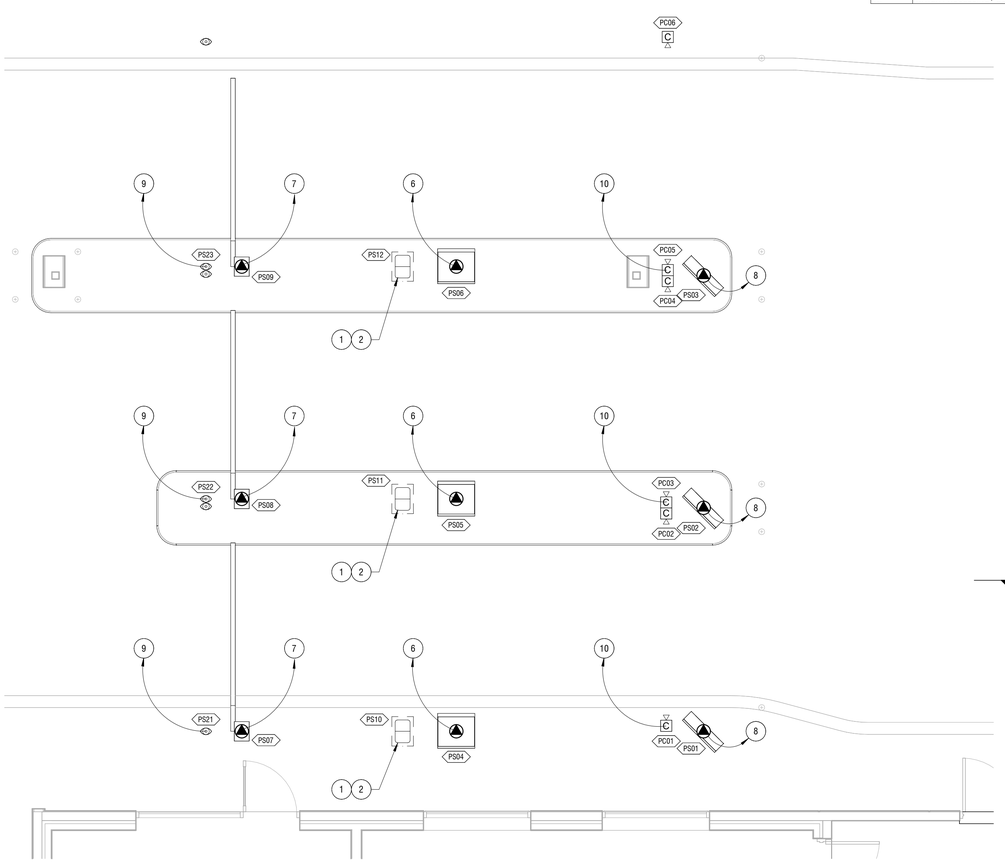
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NOTE: PULL BOX IS ALSO USED TO CONNECT POWER AND CONTROLS CONDUITS AND CONDUCTORS BETWEEN POS ISLAND EQUIPMENT (NOT SHOWN)

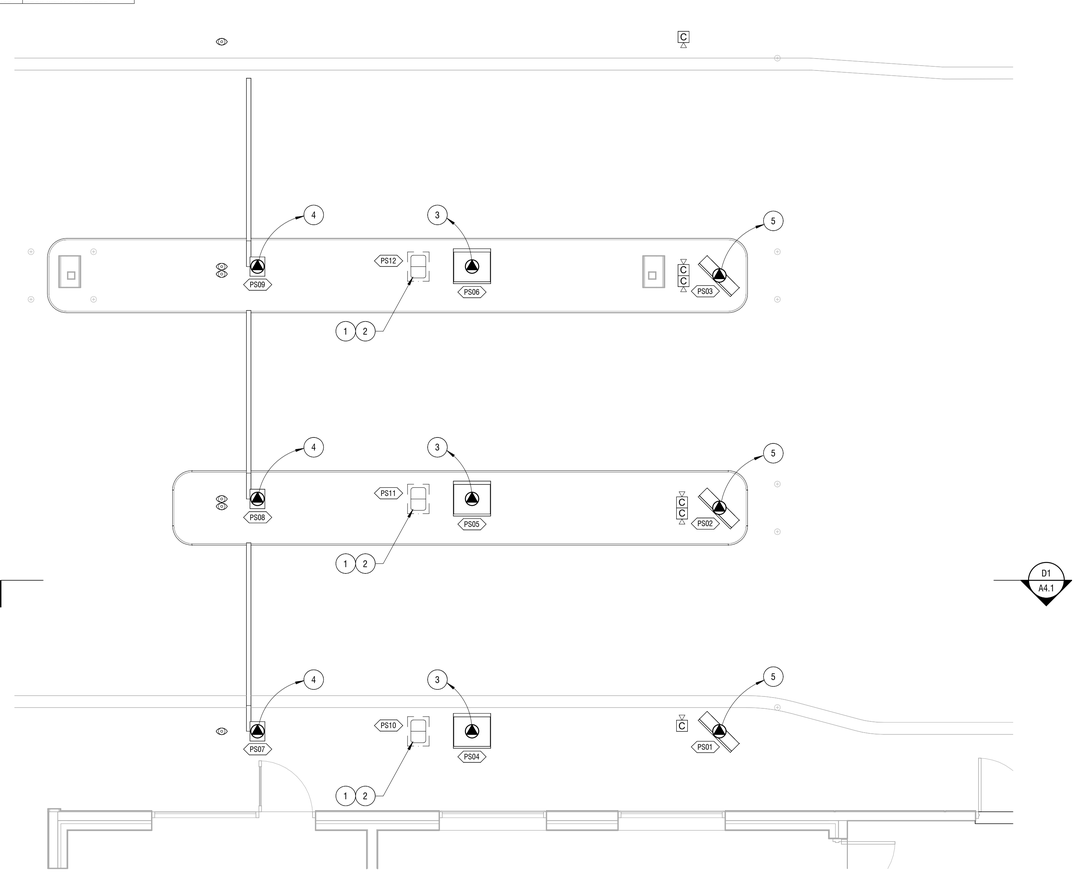
C5 PULL BOX CONDUIT
1 : 25



A1 PAY STATION SPECIAL SYSTEMS PLAN
1/4" = 1'-0"

0' 2' 4' 8'

NORTH



A3 PAY STATION POWER PLAN
1/4" = 1'-0"

0' 2' 4' 8'

NORTH

BINDING

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH
9701 W COLONIAL DRIVE, OCOEE FL 34761

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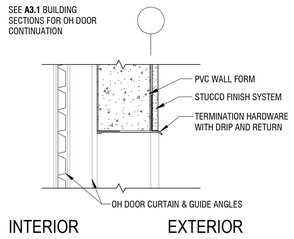
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TWIN FALLS, IDAHO 83303
PH. (208) 841-4524

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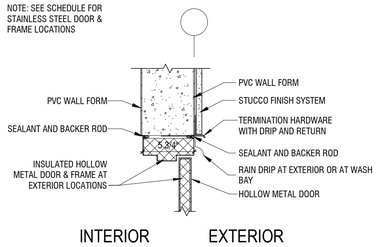
PAY STATION ISLAND POWER & SPECIAL SYSTEMS PLANS

SHEET NUMBER:

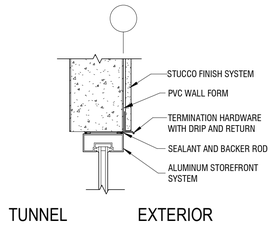
A4.2



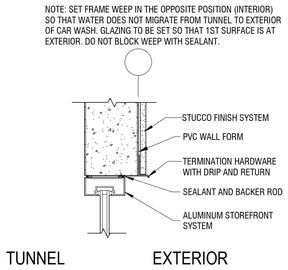
D1 OH HEAD ENTRY
1 1/2" = 1'-0"



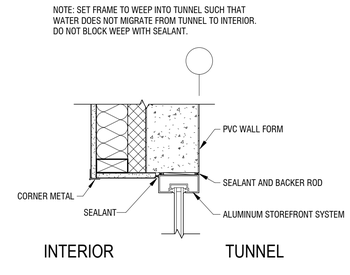
D2 HM HEAD EQUIP / EXTERIOR
1 1/2" = 1'-0"



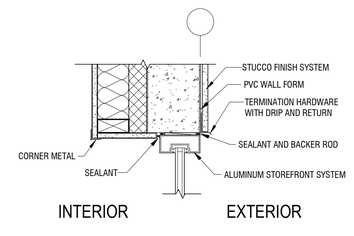
D3 AL HEAD EQUIP / EXT
1 1/2" = 1'-0"



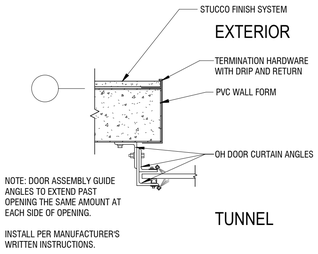
D4 AL HEAD TUNNEL / EXT
1 1/2" = 1'-0"



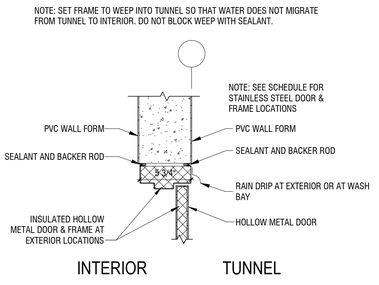
D5 AL HEAD OFFICE / TUNNEL



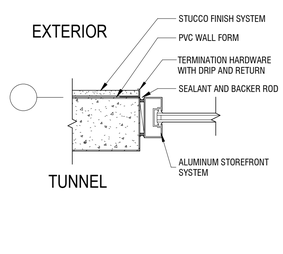
D6 AL HEAD OFFICE / EXTERIOR
1 1/2" = 1'-0"



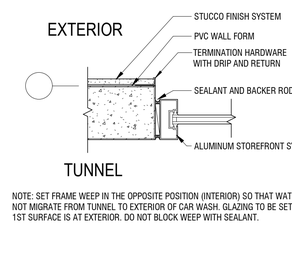
C1 OH JAMB ENTRY
1 1/2" = 1'-0"



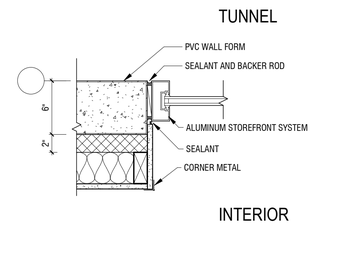
C2 HM HEAD EQUIP / TUNNEL
1 1/2" = 1'-0"



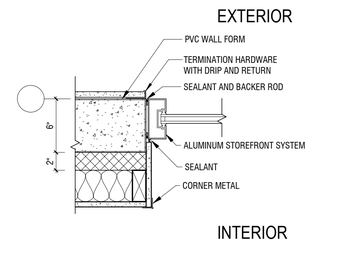
C3 AL JAMB EQUIP / EXT
1 1/2" = 1'-0"



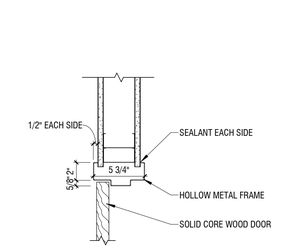
C4 AL JAMB TUNNEL / EXT
1 1/2" = 1'-0"



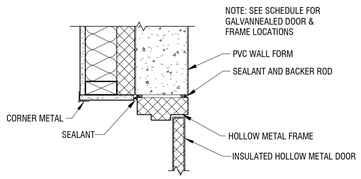
C5 AL JAMB OFFICE / TUNNEL



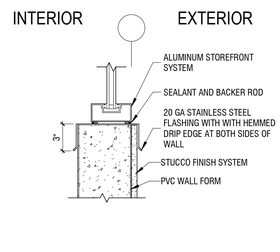
C6 AL JAMB OFFICE / EXTERIOR
1 1/2" = 1'-0"



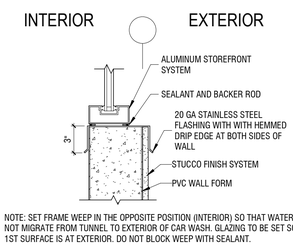
B1 HM HEAD INTERIOR



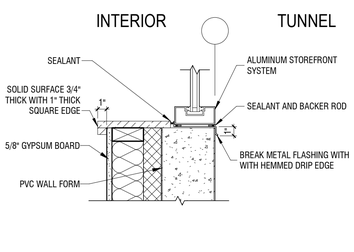
B2 HM HEAD OFFICE / EQUIP



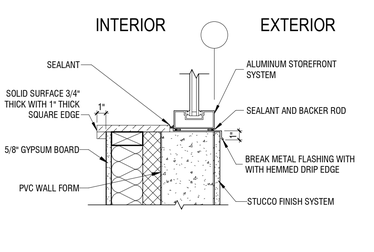
B3 AL SILL EQUIP / EXT
1 1/2" = 1'-0"



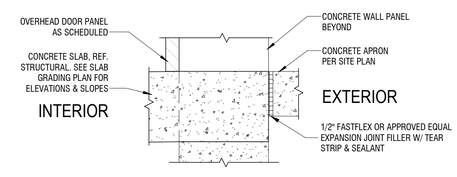
B4 AL SILL TUNNEL / EXT
1 1/2" = 1'-0"



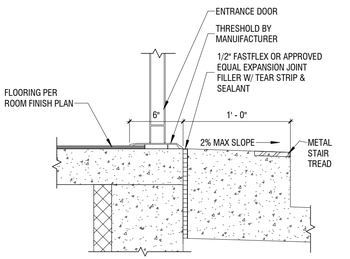
B5 AL SILL OFFICE / TUNNEL



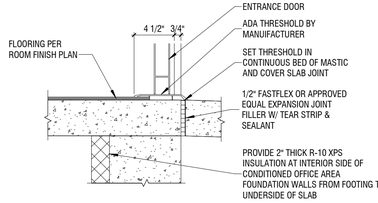
B6 AL SILL OFFICE / EXTERIOR
1 1/2" = 1'-0"



A1 TYPICAL OH THRESHOLD
1 1/2" = 1'-0"



A4 TUNNEL DOOR THRESHOLD
1 1/2" = 1'-0"



A5 TYPICAL DOOR THRESHOLD
1 1/2" = 1'-0"

STAMP:

STATE OF FLORIDA
JOSHUA HOWE
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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SPOTLESS wash solutions
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PH. (208) 841-4524

CHECKED:	JDH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

DOOR AND WINDOW DETAILS

SHEET NUMBER:

A5.1

BINDING

DOOR HARDWARE SCHEDULE

GROUP #	ITEM	MANUFACTURER	PART #	FINISH	QUANITY
- GROUP 1 - EQUIPMENT ROOM TO EXTERIOR	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	6
	CLASSROOM LOCK	SARGENT	28-7G37-LL	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	2
	THRESHOLD	PEMKO	272A	A	1
	WEATHER SEAL	PEMKO	PK55	D	1
	DOOR SWEEP	PEMKO	345ANB	A	2
- GROUP 2 - ELECTRICAL ROOM TO EXTERIOR	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	CLASSROOM LOCK	SARGENT	28-7G37-LL	26D	1
	EXIT DEVICE	SARGENT	88 SERIES RIM - CLASSROOM	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	THRESHOLD	PEMKO	272A	A	1
	WEATHER SEAL	PEMKO	PK55	D	1
	DOOR SWEEP	PEMKO	345ANB	A	1
- GROUP 3 - EQUIPMENT ROOM TO ELECTRICAL ROOM	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP...	32D	3
	EXIT DEVICE	SARGENT	88 SERIES RIM - PASSAGE	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	PERIMETER SEAL	PEMKO	PK55	D	1
	DOOR SWEEP	PEMKO	345ANB	A	1
	BRUSH WEATHERSTRIP	PEMKO	45061CNB	A	1
- GROUP 4 - EQUIPMENT ROOM TO TUNNEL	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	PASSAGE LATCH	SARGENT	28-7U15-LL	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	WEATHER SEAL	PEMKO	PK55	D	1
	DOOR SWEEP	PEMKO	345ANB	A	1
	KICK PLATE	INPRO	2" LDW x 12" TALL x 16GA	304SS#4	1
- GROUP 5 - ALUMINUM STOREFRONT ENTRANCE	ALL HARDWARE INCLUDING HINGES, CLASSROOM FUNCTION LEVER STYLE LATCH, EXIT DEVICE, DEADBOLT, CLOSER, THRESHOLD, WEATHER SEAL, DOOR SWEEP AND BRUSH WEATHERSWEEP TO BE SUPPLIED BY DOOR MANUFACTURER. NON-LATCHING PULL HANDLES ARE NOT ACCEPTABLE.				
- GROUP 6 - EXTERIOR TO TOILET ROOM / LAUNDRY	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	MECHANICAL KEYPAD	SIMPLEX	5067RWL26D	26D	1
	OVERHEAD STOP	SARGENT	7 line 1540S	26D	1
	DOOR SWEEP	find BOD PEMKO	345ANB...	A	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	WEATHER SEAL	PEMKO	PK55	D	1
	THRESHOLD	PEMKO	2009APK	A	1
- GROUP 7 - HALL TO OFFICE	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	ENTRANCE LOCK	SARGENT	28-7G05-LL	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	WALL STOP	ROCKWOOD	409	32D	1
	AUTOMATIC DOOR BOTTOM	PEMKO	411APKL	A	1
	PERIMETER SEAL	PEMKO	PK55	D	1
- GROUP 8 - HALL TO EQUIPMENT ROOM	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	PASSAGE LATCH	SARGENT	28-7U15-LL	26D	1
	CLOSER	SARGENT	SR-351-CPSH-TB, WITH HO	EN	1
	PERIMETER SEAL	PEMKO	PK55	D	1
	DOOR SWEEP	PEMKO	345ANB	A	1
	AUTOMATIC DOOR BOTTOM	PEMKO	420APKL	A	1
- GROUP 9 - MECHANICAL TO ROOF	HW HINGES	MCKINNEY	T4A3386 - 4.5 X 4.5 X NRP	32D	3
	STOREROOM LOCK	SARGENT	28-10G04-LL	26D	1
	OVERHEAD STOP	PEMKO	1540S	26D	1
	DOOR SWEEP	SARGENT	345ANB...	A	1
	CLOSER	PEMKO	SR-351-CPSH-TB, WITH HO	EN	1
	WEATHER SEAL	PEMKO	PK55	D	1
	THRESHOLD	PEMKO	2006AT	A	1

DOOR SCHEDULE

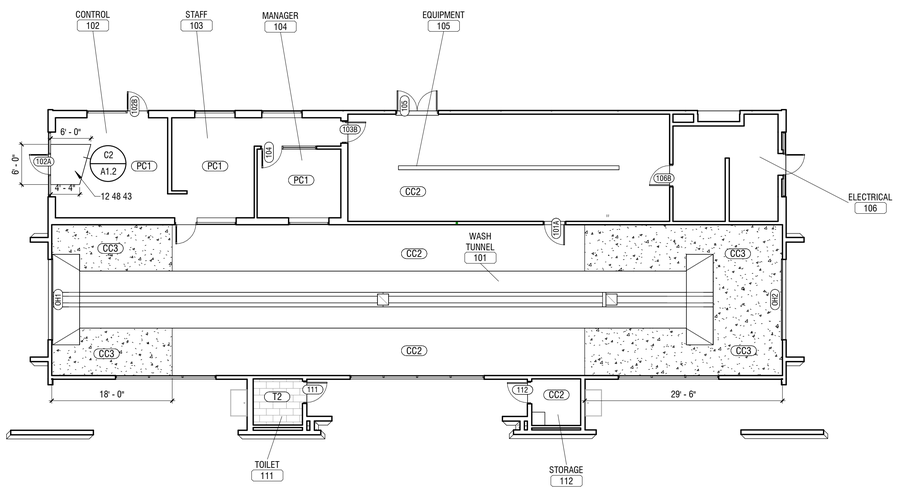
DOOR #	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS THRESHOLD: HEAD	DETAILS THRESHOLD: JAMB	FIRE RATING	HARDWARE GROUP	SIGNAGE	REMARKS
101A	3' - 0"	7' - 0"	G	1 3/4"	ISS	FF	GL-3	H1	SS	FF	C2/A5.1	C2/A5.1	-	4		
102A	3' - 0"	7' - 0"	FG	1 3/4"	AL	FF	GL-1	S7	AL	FF	D6/A5.1	C6/A5.1	-	5		NARROW STILE ENTRANCE
102B	3' - 0"	7' - 0"	FG	1 3/4"	AL	FF	GL-1	S6	AL	FF	D6/A5.1	C6/A5.1	-	5		NARROW STILE ENTRANCE
102C	3' - 0"	7' - 0"	FG	1 3/4"	AL	FF	GL-4	S7	AL	FF	D5/A5.1	C5/A5.1	-	5		
103B	3' - 0"	7' - 0"	G	1 3/4"	IGM	P11	GL-3	H1	IGM	P13	B2/A5.1	B2/A5.1	-	8		
104	3' - 0"	7' - 0"	FG	1 3/4"	WD	P1	GL-3	H2	HM	P1	B1/A5.1	B1/A5.1	-	7		PAINT GRADE SOLID CORE WOOD DOOR
105	6' - 0"	7' - 0"	F	1 3/4"	IHM	P12	-	H1	HM	P12	C2/A5.1	C2/A5.1	-	1		PROVIDE 12"x12" LOUVER IN ONE DOOR LEAF AT BOTTOM OF AND CENTERED ON DOOR PANEL
106A	3' - 0"	7' - 0"	FG	1 3/4"	AL	FF	GL-5	S9	AL	FF	D5/A5.1	C5/A5.1	-	5		NARROW STILE ENTRANCE
106B	3' - 0"	7' - 0"	G	1 3/4"	IHM	P11	GL-3	H1	HM	P11	C2/A5.1	C2/A5.1	-	3		
111	3' - 0"	7' - 0"	F	1 3/4"	IGM	P11	-	H1	HM	P11	D2/A5.1	D2/A5.1	-	6		KEYPAD ACCESS
112	3' - 0"	7' - 0"	F	1 3/4"	IGM	P11	-	H1	HM	P11	D2/A5.1	D2/A5.1	-	6		KEYPAD ACCESS
201	3' - 0"	7' - 0"	F	1 3/4"	IHM	P11	-	H1	HM	P11	D2/A5.1	D2/A5.1	-	9		
202	3' - 0"	7' - 0"	F	1 3/4"	IHM	P11	-	H1	HM	P11	D2/A5.1	D2/A5.1	-	9		
OH1	12' - 0"	10' - 8"	OH	2"	-	-	POLY	-	AL	FF	D1/A5.1	C1/A5.1	-	-		
OH2	12' - 0"	10' - 10"	OH	2"	-	-	POLY	-	AL	FF	D1/A5.1	C1/A5.1	-	-		

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOORS MATERIAL	FLOORS FINISH	BASE	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS NORTH WAINSCOT	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS EAST WAINSCOT	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS SOUTH WAINSCOT	WALLS WEST MATERIAL	WALLS WEST FINISH	WALLS WEST WAINSCOT	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	WINDOW COVERING	REMARKS
101	WASH TUNNEL	CS	CC2/CC3	-	CW	CC1/PVC1	-	CW	CC1/PVC1	-	CW	CC1/PVC1	-	CW	CC1/PVC1	-	CHC	P3	16' - 0"	-	
102	CONTROL	CS	PC1	RB1	GB	P1	-	GB	P1	-	GB	P3	-	GB	P1	-	CHC	-	16' - 0"	-	
103	STAFF	CS	PC1	RB1	GB	P1	-	GB	P1	-	GB	P3	-	GB	P1	-	CHC	-	16' - 0"	-	
104	MANAGER	CS	PC1	RB1	GB	P1	-	GB	P1	-	GB/PLY	P3	-	GB	P1	-	CHC	-	16' - 0"	-	
105	EQUIPMENT	CS	CC2	-	CW	P2	-	CW	P2	-	CW	P2	-	CW	P2	-	CHC	-	16' - 0"	-	
106	ELECTRICAL	CS	CC2	-	PLY/CW	P1/P2	-	CW	P2	-	CW	P2	-	CW	P2	-	CHC	-	16' - 0"	-	
111	TOILET	CS	T2	-	GB	T1	-	GB	T1	-	GB	T1	-	GB	T1	-	GSB	P1	9' - 0"	-	
112	STORAGE	CS	CC2	RB1	CW	FRP1	-	GB	FRP1	-	GB	FRP1	-	GB	FRP1	-	GSB	P1	9' - 0"	-	
201	MECHANICAL	CHC	-	-	PLY	P1	-	PLY	P1	-	PLY	P1	-	PLY	P1	-	PLY	P1	9' - 0"	-	
202	MECHANICAL	CHC	-	-	PLY	P1	-	PLY	P1	-	PLY	P1	-	PLY	P1	-	PLY	P1	9' - 0"	-	

FINISH SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	DESCRIPTION	NOTES
ACT1	FIBERGLASS- ACOUSTICAL CEILING TILE	ARMSTRONG	SOUNDSCAPE, FIBERGLASS, LA, LAGOON	
AL1	ALUMINUM, CLEAR ANODIZED	KAWNEER	TRIFAB VERSAGLAZE 451T	NARROW STILE
CC1	CONCRETE WALL SEALER	V-SEAL	101 MULTI-SURFACE, APPLIED AFTER POUR WITH SECONDARY PHASE II LITHIUM SILICATE WATER REPELLANT ENHANCER	PENETRATING SEALER AT INTERIOR OF CONCRETE WALLS AS INDICATED
CC2	CAST-IN-PLACE CONCRETE	CRETO	DPS - DEEP PENETRATING SEALER	PENETRATING SEALER AT ALL EXPOSED SLABS
CC3	CAST-IN-PLACE CONCRETE	TUFCO	TUFCRETE EURETHANE COATING, COLOR TBD	SPECIALTY COATING, INSTALL PER MANUF. PUBLISHED INSTRUCTIONS
FRP1	FIBERGLASS REINFORCED PANEL (FRP)	MARLITE	S 100 G WHITE	USE ANODIZED ALUMINUM TRIMS AT ALL PANEL EDGES
GL-1	LOW-E GRAY INSULATING GLASS		STOREFRONT	
GL-2	CLEAR LOW REFLECTANCE LAMINATED GLASS		STOREFRONT	
GL-3	CLEAR INSULATED GLASS	PILKINGTON	STOREFRONT	
GL-4	SURVEILLANCE INSULATING GLASS		STOREFRONT	MIRROR ON TUNNEL SIDE
GL-5	SPANDREL LOW-E GRAY INSULATING GLASS		STOREFRONT	
GL-6	CLEAR SPANDREL LOW REFLECTANCE LAMINATED GLASS		STOREFRONT	
P1	INTERIOR WALL FIELD PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: SW6203 SPARE WHITE	ALL FRAMED WALLS, UNLESS NOTED OTHERWISE
P2	INTERIOR CONCRETE WALL FIELD PAINT	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR: SW6203 SPARE WHITE	INTERIOR CONCRETE WALLS AT EQUIPMENT & ELECTRICAL ROOMS
P3	INTERIOR WALL ACCENT PAINT	SHERWIN-WILLIAMS	SATIN W/ DURABLE FINISH, COLOR: BLUE	FRAMED WALL BETWEEN OFFICE AND TUNNEL
P5	PAINT AT TUNNEL CEILING	SHERWIN-WILLIAMS	LOXON XP WATERPROOFING MASONRY COATING, COLOR TO MATCH DARK GRAY PVC WALL PANELS	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO PVC WALL PANELS
P6	CEILING PAINT, BLACK	SHERWINN-WILLIAMS	BLACK OF NIGHT, #SW 6993	PAINT AT UNDERSIDE OF DECK INCLUDING ALL HVAC, ELECTICAL ITEMS, ETC.
P11	HOLLOW METAL DOOR AND FRAME PAINT, BLUE	BENJAMIN MOORE	BOLD BLUE #2064-10	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP1 SAMPLE
P12	HOLLOW METAL DOOR AND FRAME PAINT, GRAY	SHERWIN-WILLIAMS	SILVERPLATE #SW 7649	PROVIDE FULL SAMPLE FOR APPROVAL NEXT TO TP2 SAMPLE
PC1	POLISHED CONCRETE	SCOFIELD	GRADE 1 - LIGHT SAND, CLASS 2 MEDIUM - 800 GRIT, APPLY FORMULA ONE LITHIUM DENS. MP & GUARD-W, STAIN: AMERIPOLISH, PATRIOT BLUE	PROTECT CONCRETE SURFACE DURING CONSTRUCTION
PF1	PREFINISHED HORIZONTAL METAL ROOFING & SIDING	MBCI	FLEXLOC, 22-GAUGE, BONE WHITE	
PF2	PREFINISHED METAL FACIA AND TRIM	MBCI	22-GAUGE, MATCH PF1	
PF3	PREFINISHED METAL WALL COPING	MBCI	22-GAUGE, SLATE GRAY	
PL1	PLASTIC LAMINATE	WILSONART	Y0782-38, RIBBON MAPLE, FINE VELVET FINISH	ALL VERTICAL MILLWORK DOOR AND DRAWER FACE
PVC1	PVC WALL PANEL	MFR OF WALL FORMS	WHITE	ALL TUNNEL WALLS AT INTERIOR FROM FLOOR TO CEILING
QC1	QUARTZ COUNTERTOP	CAESARSTONE	OCEAN FOAM	ALL COUNTERTOPS AND ALL WINDOW SILLS
RB1	RUBBER WALL BASE	JOHNSONITE	DURACOVE, 6", 1/8" TOE, BLACK PEARL	AT OFFICES, WORK ROOM AND BREAK AREAS
T1	PORCELAIN WALL TILE	AMERICAN OLEAN	DALTILE, FABRIC ART, ML60 MODERN LINEAR WHITE, WITH 1/8" NONPOROUS EPOXY GROUT	AT TOILET ROOM WALL
T2	PORCELAIN FLOOR TILE	DAL TILE	DALTILE, FABRIC ART, ML65 MIDNIGHT BLUE, WITH 1/16" MAPEI EPOXY GROUT #106 TIMBERWOLD GREY	AT TOILET ROOM FLOOR
T3	PORCELAIN WALL TILE	AMERICAN OLEAN	TBD SUBWAY TILE, 3x6,WITH 1/8" NONPOROUS EPOXY GROUT	W/ CLEAR METAL TRIM & CONTRASTING GROUT, AT BREAK ROOM CASEWORK
TP1	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, COSMIC BLUE LRV: 12	STOCOLOR METALLIC TOP COAT OVER STOCOLOR METALLIC BASE WITH MEDIUM-FINE TEXTURE, PROVIDE MOCKUP FOR APPROVAL
TP2	EXTERIOR TEXTURED COATING	STOCORP	STOCOLOR METALLIC TOPCOAT, LANCASTER NICKEL LRV: 61	SAME AS ABOVE



A1 FLOOR FINISH PLAN

0' 4' 8' 16'

NORTH

KEYNOTES

MARK:	DESCRIPTION:
12 48 43	RECESSED ENTRANCE MAT, BOD: CONSTRUCTION SPECIALTIES PEDIMAT

GENERAL NOTES

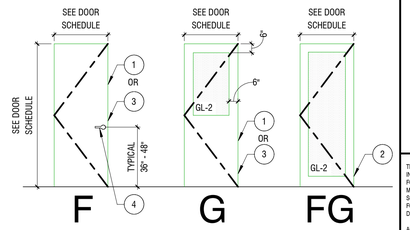
A. PROVIDE FRT SOLID WOOD BACKING IN FRAMED WALLS AT ALL WALL MOUNTED DOOR STOPS.
B. ALL GLAZING IN DOORS AND ADJACENT LITES SHALL BE TEMPERED SAFETY GLAZING.
C. PROVIDE NRFC RATED EXTERIOR STOREFRONT WINDOW AND ENTRANCE ASSEMBLIES FOR PERFORMANCE VALUES INDICATED IN SPECIFICATIONS.
D. SEE **A0.2** ENERGY CODE NOTES FOR DOOR, FRAME AND GLAZING ASSEMBLY U-VALUES.
E. DOOR HARDWARE SHALL MEET THE REQUIREMENTS OF LOCAL CODES AND JURIDICTIONAL REQUIREMNETS. HARDWARE SHALL NOT REQUIRE PINCHING, TIGHT GRASPING, OR TWISTING OF THE WRIST TO OPERATE.
F. VERIFY ALL DOOR HARDWARE KEYING & KEY GROUPINGS WITH OWNER PRIOR TO PROCUREMENT.
   a. GRAND MASTER KEY BETWEEN SITES FOR ALL LOCKS INCLUDING MECHANICAL LOCK CORES
   b. MASTER KEY: ALL DOORS INCLUDING MECHANICAL LOCK CORES
   c. KEY GROUP 1: ALL DOORS EXCEPT MANAGER'S OFFICE
   d. KEY GROUP 2: MANAGER'S OFFICE ONLY

ABBREVIATIONS

A	ANNEALED GLASS
AL	ALUMINUM
CC1, CC2...	CONCRETE SURFACE FINISH AND / OR CURING COMPOUND
CHC	CONCRETE PRECAST HOLLOWCORE
CS	CONCRETE SLAB
CW	CONCRETE WALL
EP1, EP2...	EPOXY PAINT
FF	FACTORY FINISHED
FG	FROSTED GLASS
GB	5/8" TYPE 'X' GYPSUM BOARD
GSB	1/2" EXTERIOR GYPSUM SOFFIT BOARD
GHM	GALVANNEALED HOLLOW METAL FRAME
HM	HOLLOW METAL (WELDED FRAME)
IGM	INSULATED GALVANNEALED METAL DOOR / FRAME WITH TOP CAP SEAL
IHM	INSULATED HOLLOW METAL DOOR / FRAME
ISS	INSULATED HOLLOW STAINLESS STEEL DOOR / FRAME WITH TOP CAP SEAL
IT	1" INSULATED TEMPERED SAFETY GLAZING
OH	OVERHEAD DOOR
P1, P2...	PAINT
PLY	7/16" PLYWOOD SANDED SMOOTH FOR PAINT FINISH
POLY	POLYCARBONATE GLAZING PANEL
S1, S2...	SIGNAGE TYPE, SEE DETAIL THIS SHEET
SAP1	SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
SS	STAINLESS STEEL FRAME (SEAMLESS)
VWP	VINYL WALL PANELING
VT1	LUXURY VINYL TILE FLOORING
T	TEMPERED SAFETY GLAZING
T1, T2...	TILE
TC	TILT CONCRETE WALLS OR HOLLOW CORE ROOF PANELS
WD	WOOD PANEL WITH LAMINATE FACE & EDGE, BOD LYNDEN LD3500-4-SCL-HDPL
WS1	WINDOW SHADE

SHEET NOTES

#:	DESCRIPTION:
1	INSULATED HOLLOW METAL DOOR. SEE SCHEDULE FOR HOLLOW METAL AND GAVANNEALED "A" OR "ZF" COATED UNITS. WHERE GAVANNEALED UNITS ARE SPECIFIED, PROVIDE 0.6 OUNCES OF ZINC PER SQUARE FOOT (60 WEIGHT).
2	STOREFRONT ENTRANCE DOOR. PROVIDE NARROW STILE UNITS TO ACCOMMODATE MORTISE LOCK SYSTEMS.
3	WOOD SOLID CORE DOOR.
4	DOOR LEVER OR EXIT DEVICE MOUNTING HEIGHT, TYPICAL AT ALL DOORS.

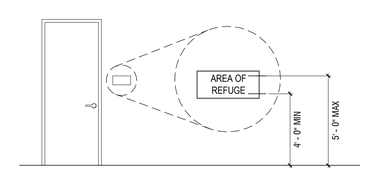


DOOR PANEL TYPES

CODE SIGNAGE

PROVIDE BASIS-OF-DESIGN CODE COMPLIANT SIGNAGE WITH BRAILLE LETTERING FOR THE FOLLOWING ROOMS AS MANUFACTURED BY INPRO CORPORATION OR ARCHITECT APPROVED EQUAL:

S1: TACTILE EXIT SIGNS:
BLACK FACE, WHITE TEXT4"H X 8"W (S320QS-EX-0152)
MOUNT ON WALL AT HINGE SIDE OF DOOR #107b.
S2: UNISEX TOILET ROOM:
BLACK FACE, WHITE TEXT 8" X 6" (S320QS-UH-0152)
MOUNT ON WALL AT STRIKE SIDE OF DOORS #106, #112.
S3: MECHANICAL ROOM:
BLACK FACE, WHITE TEXT 4"H X 8"W (S320QS-MR-0152)
MOUNT ON WALL AT STRIKE SIDE OF DOOR #110B.
S4: ELECTRICAL ROOM:
BLACK FACE, WHITE TEXT 4"H X 8"W (S320QS-ELE-0152)
MOUNT ON WALL AT STRIKE SIDE OF DOOR #111.



CODE SIGNAGE

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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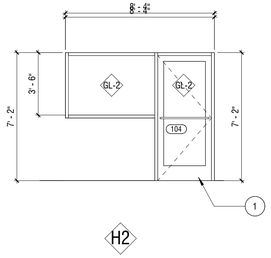
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DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

DOOR AND FINISH SCHEDULES

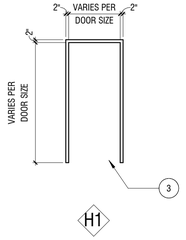
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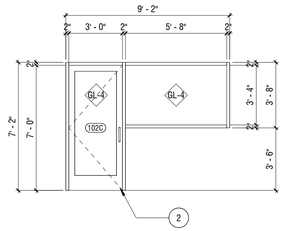
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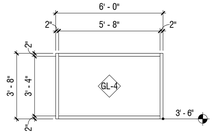
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HOLLOW METAL FRAMES

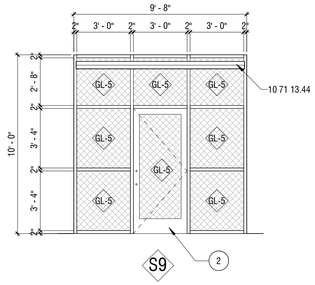
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S7



S8

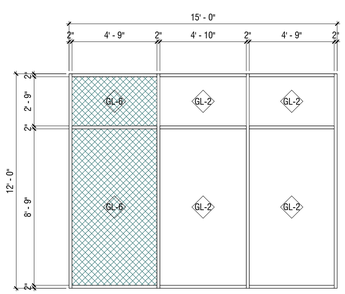


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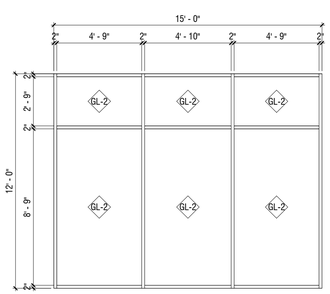
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S5

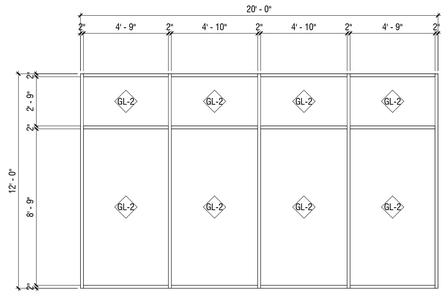
S6



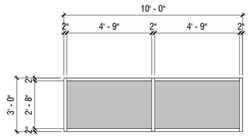
S1a



S1b



S2



S3

FRAME EXISTS AT (3) LOCATIONS
SEE BUILDING ELEVATIONS SHEET A2.1a

STOREFRONT FRAMES

0' 2' 4' 8'

GENERAL NOTES

A. ALL GLAZING IN DOORS AND ADJACENT LITES AND WHERE OTHERWISE NOTED SHALL BE TEMPERED SAFETY GLAZING.
B. PROVIDE NRFC RATED EXTERIOR STOREFRONT WINDOW AND ENTRANCE ASSEMBLIES FOR PERFORMANCE VALUES INDICATED.
C. BASIS OF DESIGN STOREFRONT SYSTEM IS KAWNEER TRIFAB 451T.
D. BASIS OF DESIGN ENTRANCE DOOR SYSTEM IS KAWNEER 350T.
E. BASIS OF DESIGN SUNSHADE IS MAPES CANTILEVER SUPERSHADE WITH 12" SMOOTH FACE FASCIA & .110" DIAGONAL LOUVER.
F. ALL STOREFRONT FRAMES, ENTRANCE DOORS AND SUNSHADES ARE **CLEAR ANODIZED**.
G. PROVIDE STOREFRONT OR CURTAINWALL ASSEMBLIES EXCEEDING THE FOLLOWING ENERGY PERFORMANCE CHARACTERISTICS PER IECC:
   a. FIXED WINDOWS:
      - OVERALL U-FACTOR - 0.40 OR BETTER
      - OVERALL SHGC - 0.25 OR BETTER
   b. OPERABLE WINDOWS: (NOT USED)
      - OVERALL U-FACTOR - 0.65 OR BETTER
      - OVERALL SHGC - 0.25 OR BETTER
   c. STOREFRONT ENTRANCE DOORS:
      - OVERALL U-FACTOR - 0.83 OR BETTER
      - OVERALL SHGC - 0.25 OR BETTER
   d. INSULATED METAL DOORS:
      - OVERALL U-FACTOR - 0.83 OR BETTER
   e. OVERHEAD SECTIONAL DOORS:
      - OVERALL U-FACTOR - 0.83 OR BETTER
   f. OVERHEAD COILING DOORS:
      - OVERALL U-FACTOR - 0.83 OR BETTER
H. AS-BUILT FRAME OPENINGS SHALL BE VERIFIED PRIOR TO SHOP DRAWINGS AND FRAME FABRICATION. SUBMIT RFI FOR DISCREPANCIES.
I. ALL HOLLOW METAL FRAMES ARE FULLY WELDED PROFILE.
J. FIRE-RATED GLAZING TO BE FIRELITE OR APPROVED EQUAL SET IN 60-MIN RATED HOLLOW METAL FRAME. (NOT USED)
K. LOW REFLECTANCE GLASS TO BE PILKINGTON OPTIVIEW SYSTEM OR ARCHITECT APPROVED EQUAL.
L. SPANDREL PANEL UNITS TO TO INCLUDE OPACIFIER AT 3RD GLAZING SURFACE.
M. GLAZING TYPES: ALL GLASS IS HEAT STRENGTHENED TEMPERED SAFETY.
   a. GL-1: LOW-E, GRAY 1" INSULATING GLASS UNIT
   b. GL-2: CLEAR, LOW REFLECTANCE LAMINATED GLASS UNIT
   c. GL-3: CLEAR 1" INSULATING GLASS UNIT
   d. GL-4: SURVEILLANCE MIRROR 1" INSULATING GLASS UNIT
   e. GL-5: LOW-E GRAY AND SPANDREL PANEL 1" INSULATING GLASS UNIT
   f. GL-6: CLEAR, LOW REFLECTANCE LAMINATED SPANDREL GLASS UNIT

KEYNOTES

MARK:	DESCRIPTION:
10 71 13.44	FIXED SUN SCREENS, BOD: KAWNEER VERSOLEIL SUNSHADE, 30° SQUARE OUTRIGGER, RECTANGULAR FASCIA, WAVE BLADE. FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM.

SHEET NOTES

#:	DESCRIPTION:
1	WOOD SOLID CORE DOOR
2	ALUMINUM ENTRANCE DOOR, MEDIUM STILE
3	DOOR AS SCHEDULED

STAMP:

STATE OF FLORIDA
JOSHUA HOWARD
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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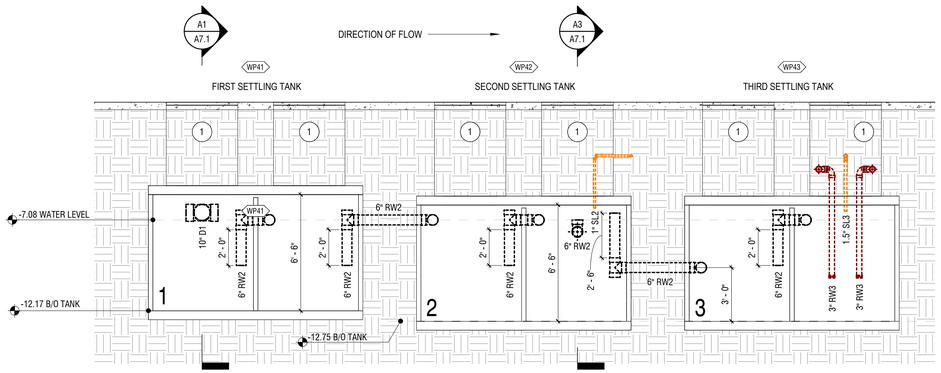
CHECKED:	JEH
DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

FRAME TYPES

SHEET NUMBER:

A6.2

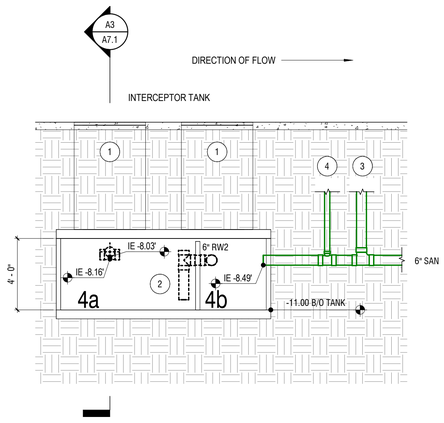
BINDING



D1 RECLAIM SYSTEM SECTION

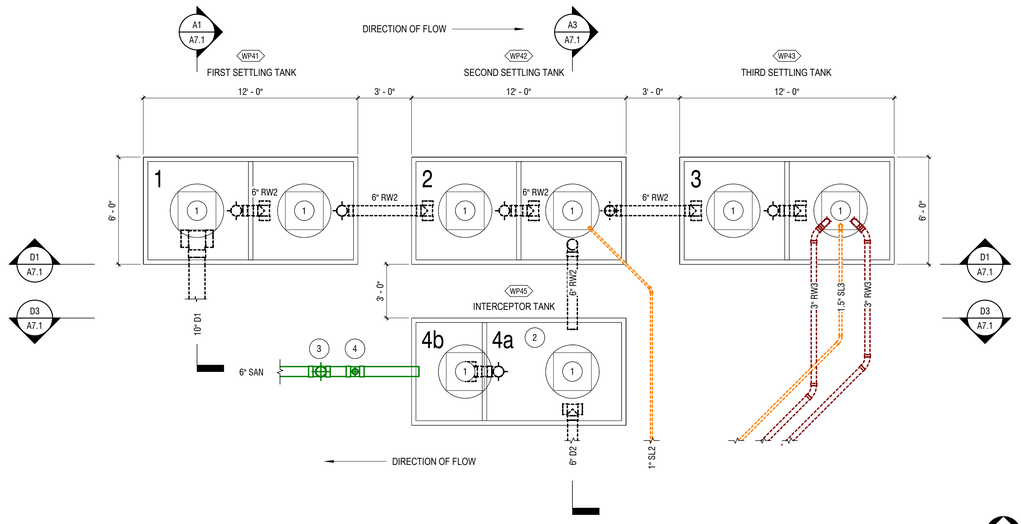
1/4" = 1'-0"

0' 2' 4' 8'



D3 RECLAIM SYSTEM SECTION

0' 2' 4' 8'

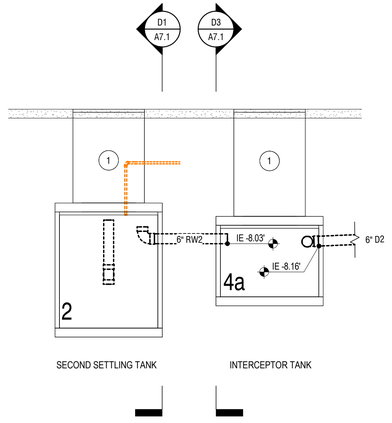


C1 RECLAIM SYSTEM PLAN VIEW

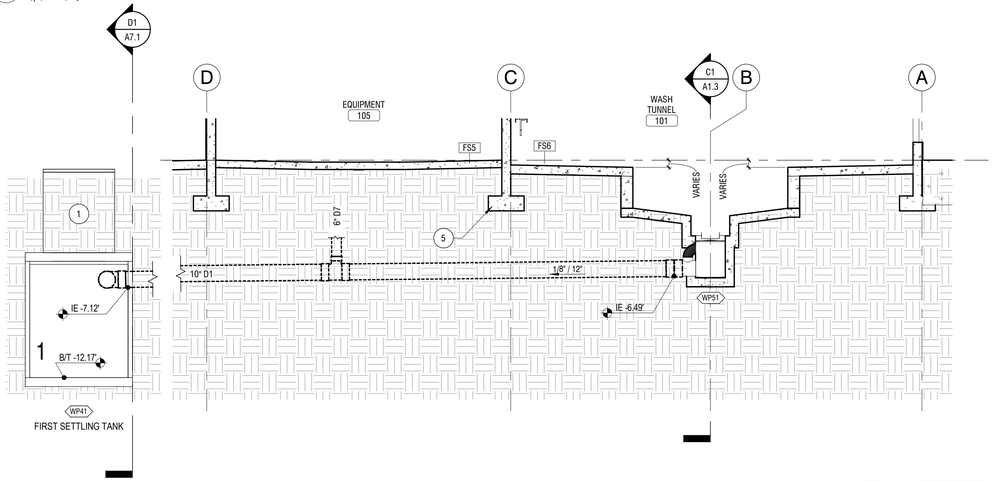
1/4" = 1'-0"

0' 2' 4' 8'

NORTH



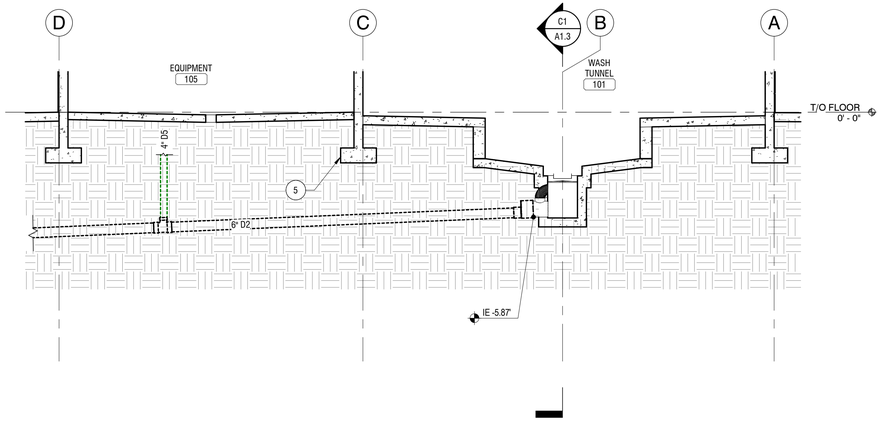
A3 INTERCEPTOR SECTION



A1 TRENCH MAIN DRAIN SECTION

1/4" = 1'-0"

0' 2' 4' 8'



A4 TRENCH OVERFLOW DRAIN SECTION

0' 2' 4' 8'

GENERAL NOTES

A. TANKS: STRUCTURAL ENGINEERING DESIGN OF TANKS IS RESPONSIBILITY OF THE CONTRACTOR. PROVIDE STAMPED AND SEALED SHOP DRAWING SUBMITTAL FOR ARCHITECT'S REVIEW. DESIGN SHALL ASSUME VEHICLE LIVE LOAD FOR (HL-93 DESIGN TRUCK) = 32 KIP (SINGLE AXLE).

B. THE CIVIL ENGINEER WILL PROVIDE MANHOLE RIM ELEVATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO REQUEST / VERIFY RIM ELEVATIONS WITH CIVIL ENGINEER.

C. TANKS: IF TANKS ARE MANUFACTURED WITH MULTIPLE SECTIONS, PROVIDE (2) CONTINUOUS VOLCLAY WATER STOP STRIPS OR WATERPROOFING MEASURE RECOMMENDED BY TANK MANUFACTURER AT EACH JOINT.

D. TANKS: MODIFY MANUFACTURER'S STANDARD PRECAST TANK SPECIFICATIONS TO MATCH REQUIREMENTS INDICATED.

E. TANKS: ALL HOLES FOR INLET / OUTLET PIPES SHALL BE CORE DRILLED. PROVIDE A WATER TIGHT SEAL (KOR-N-SEAL I OR LINK-SEAL CONNECTORS). GROUTED CONNECTIONS ARE NOT PERMITTED.

F. TANKS: TANK WATERTIGHTNESS IS RESPONSIBILITY OF THE CONTRACTOR. FILL TANKS AND TEST WATERTIGHTNESS FOR 48 HOURS PRIOR TO BACKFILLING.

G. MANHOLE COVERS AND FRAMES: PROVIDE RECESSED FLUSH HEAVY DUTY TRAFFIC RATED ASTM A48 FIBERGLASS BOLT DOWN MANHOLE COVER. PROVIDE 1-1/4" MINIMUM LETTERS INDICATING "RECLAIM". LABELING AT MANHOLE COVERS WITH LADDERS TO READ "LADDER".

H. MANHOLE: PRECAST MANHOLE TO EXTEND FROM TOP OF TANK TO UNDERSIDE OF MANHOLE LID. SET LID PER MANUFACTURER'S INSTRUCTIONS.

I. TANKS: SEE EQUIPMENT SCHEDULE FOR TANK RESPONSIBILITY MATRIX.

J. PIPING: ALL PIPING TO TANKS, BETWEEN TANKS, INSIDE OF TANKS AND BACK TO BUILDING IS RESPONSIBILITY OF THE CONTRACTOR.

K. A SINGLE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING INCLUDING WHERE THE PIPES STUB UP INSIDE THE BUILDING AT THE EQUIPMENT ROOM.

L. PIPING: ALL GRAVITY FLOW PIPES TO, BETWEEN AND INSIDE OF TANKS ARE SCH40 PVC UNLESS INDICATED OTHERWISE.

M. PIPING: TERMINATE PVC PIPING A MINIMUM OF 8" PAST INSIDE FACE OF TANK WALL.

N. PROTECT TANKS AND PIPING DURING ONGOING CONSTRUCTION ACTIVITIES. IT IS RESPONSIBILITY OF CONTRACTOR FOR CONSTRUCTION RELATED DAMAGE.

O. LADDERS: EXTEND FROM BOTTOM OF TANK TO TOP OF MANHOLE LID. MAXIMUM RISER FROM TANK BOTTOM TO GRADE AT LID TO BE 12". USE BASIS-OF-DESIGN LADDER OR MANUFACTURED STEP PER LANE POLYPROPYLENE P-10938 OR EQUAL.

P. INSTALL XYPEX WATERPROOFING AT CONCRETE TANK WALLS, TRASH PIT WALLS, PUMP PIT WALLS, CONVEYOR TRENCH WALLS.

Q. ABBREVIATIONS.
   a. B/G = BOTTOM OF TRENCH GUTTER
   b. B/P = BOTTOM OF PIT
   c. B/T = BOTTOM OF TRENCH OR TANK
   d. SP = SIDEWALK SPOT ELEVATION
   e. CP = CENTER OF PIPE
   f. CIP = CAST IN PLACE
   g. IE = INVERT ELEVATION - FLOW LEVEL AT PIPE
   h. T/S = TOP OF SLAB
   i. T/C = TOP OF CURB
   j. B/C = BOTTOM OF CURB

R. ASSUMED ELEVATION **100.00** IS EQUAL TO ELEVATION **TBD**.

SHEET NOTES

#:	DESCRIPTION:
1	36" CONTINUOUS PRECAST MANHOLE; LID AND FRAME, TYPICAL.
2	PROVIDE PIPING AT INTERIOR AND EXTERIOR OF INTERCEPTOR TO MEET LOCALLY ADOPTED CODES AND STANDARDS. SUBMIT RFI IF DESIGN DOES NOT CONFORM TO LOCAL JURISTICTIONAL REQUIREMENTS. CONTRACTOR SHALL REVIEW REQUIREMENTS WITH PLUMBING INSPECTOR PRIOR TO FA.
3	SCH40 PVC WITH CAST IRON GCO - GRADE CLEAN-OUT. COVER TO BE INSCRIBED "SANITARY SEWER CLEANOUT".
4	3" SCH-40 PVC VENT TO EXTEND TO INSIDE STUD WALL CAVITY AND VTR WITH TERMINATION. ROUTING PER GC.
5	GC TO COORDINATE BLOCKOUT IN FOUNDATION FOR PIPE (WHERE NECESSARY). SEE STRUCTURAL DETAIL FOR PIPE PENETRATION AT FOUNDATION

RECLAIM PIPE SCHEDULE

#:	DESCRIPTION:
RW1	SCH40 PVC RECLAIM WATER FROM FILTER TO RECLAIM PUMP HEADER
RW2	SCH40 PVC RECLAIM WATER SANITARY TEE BETWEEN TANKS.
RW3	SCH80 PVC SUCTION LINE FROM TANK TO RECLAIM UNIT
RW4	SCH80 PVC RECLAIM WATER FROM NIGHT TIME SUMP PUMP

STAMP:

STATE OF FLORIDA
JOSHUA HOWA
AR98189
REGISTERED ARCHITECT
08/22/2024

08/22/24 BID SET

REVISIONS

#	DATE
1	8/6/24

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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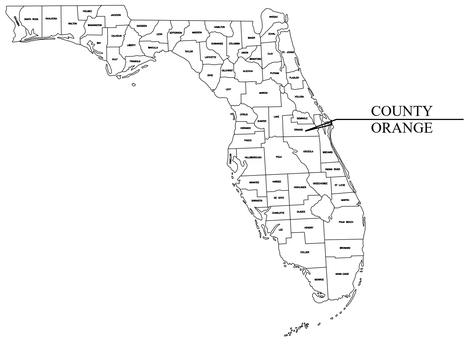
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DATE:	08/19/2024
DRAWN:	AS
JOB NUMBER:	22001-01
ISSUED FOR:	08/22/24 BID SET

RECLAIM SYSTEM DETAILS

SHEET NUMBER:

A7.1

BINDING

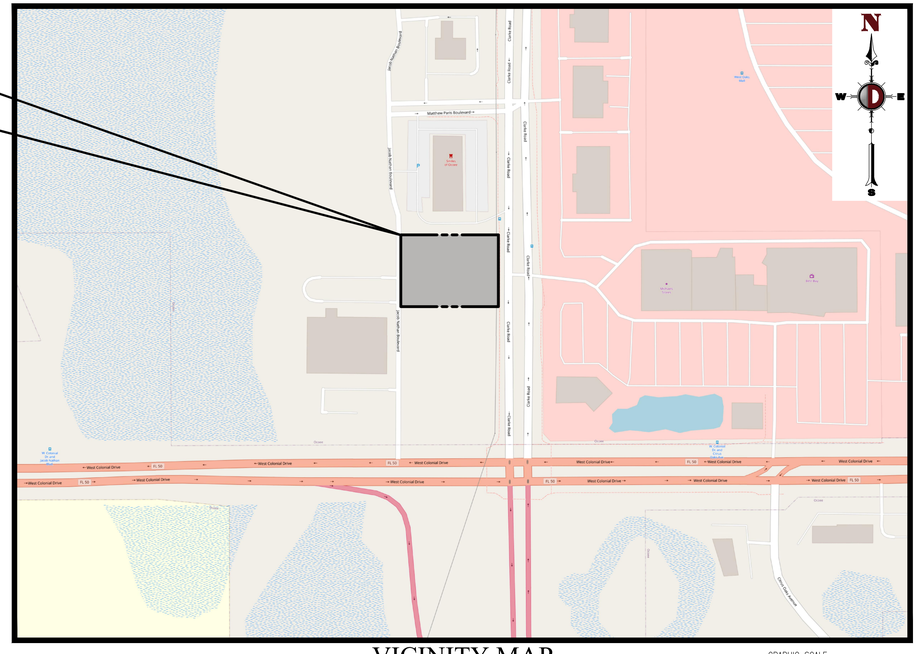


ENTITLEMENT PLANS
FOR
PROPOSED AQUASONIC CAR WASH

9701 WEST COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

PREPARED FOR:
SPOTLESS WASH SOLUTIONS
MARCH 2024

PROJECT LOCATION



VICINITY MAP
SCALE: 1"=200'
SECTION 21, TOWNSHIP 22S, RANGE 28E

GRAPHIC SCALE
0 100 200 400
(IN FEET)

PROJECT CONTACTS:

ENGINEER OF RECORD:
DYNAMIC ENGINEERING CONSULTANTS, P.C.
100 NE 5TH AVE, SUITE B2
DELRAY BEACH, FL 33483
(561) 921-8570
CONTACT: ANGEL PIÑERO, P.E.

ARCHITECT:
SPOTLESS WASH SOLUTION
PO BOX 5456
TWIN FALLS, ID 83303
(208) 841-5424
CONTACT: AARON SANDERS

LANDSCAPE ARCHITECT:
SCOTT BARBER DESIGNS, P.A.
1551 WYNDCLIFF DRIVE
WELLINGTON, FL 33414
(561) 309-7263
CONTACT: SCOTT BARBER

SURVEYOR:
MILLMAN SURVEYING, INC.
D.B.A. CBRE LAND SURVEYING
4111 BRADLEY CIRCLE NW
CANTON, OH, 44718
CONTACT: ERINA FORD

OWNER:
HCW MCO NCO, LP
700 S. ROSEMARY AVE., SUITE 204-112
WEST PALM BEACH, FL 33401
CONTACT: GARRETT SOLOMON

AGENCY CONTACTS:

PLANNING AND ZONING:
CITY OF OCOEE PLANNING & ZONING
1 NORTH BLUFORD AVE.
OCOEE, FL 34761
CONTACT: MICHAEL RUMER, MPA

FIRE RESCUE:
CITY OF OCOEE FIRE DEPARTMENT
563 S. BLUFORD AVE.
OCOEE, FL 34761
CONTACT: TOM SMOTHERS

UTILITIES:
CITY OF OCOEE UTILITIES DEPARTMENT
1800 A.D. MIMS ROAD
OCOEE, FL 34761
CONTACT: JAMIE CROTEAU

DRAWING INDEX

C0.00	COVER SHEET
C0.01	GENERAL NOTES
C0.02	GENERAL NOTES
C1.00	SITE PLAN
C1.01	SITE PLAN DETAILS
C1.02	TRUCK CIRCULATION PLAN (REFUSE)
C1.03	TRUCK CIRCULATION PLAN (F-150)
C1.04	TRUCK CIRCULATION PLAN (WB-50)
C2.00	DEMOLITION & EROSION CONTROL PLAN – PHASE 1
C2.01	SEDIMENT & EROSION CONTROL PLAN – PHASE 2
C2.02	EROSION CONTROL DETAILS
C3.00	PAVING, GRADING & DRAINAGE PLAN
C3.01	PAVING GRADING & DRAINAGE DETAILS
C3.02	PAVING GRADING & DRAINAGE DETAILS
C4.00	UTILITY PLAN
C4.01	UTILITY DETAILS
C4.02	UTILITY DETAILS
C4.03	UTILITY DETAILS

PREPARED BY
DYNAMIC ENGINEERING CONSULTANTS, P.C.
100 N.E. 5th AVENUE - SUITE B2
DELRAY BEACH, FLORIDA 33483
WWW.DYNAMICEC.COM

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Plotted: 08/05/24 – 3:59 PM By: jbaptan
File: P:_DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086230395SKO.dwg ----> C0.00 COVER SHEET

DYNAMIC ENGINEERING CONSULTANTS • SURVEY • TRAFFIC

REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY: EC
DRAWN BY: KK
CHECKED BY: AP
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PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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ANGEL PIÑERO
No. 88047
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Digitally signed by Angel Pinero Lugo
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STANDARD ABBREVIATION FOR ENTIRE PLAN SET

AC	ACRES
ADA	AMERICANS WITH DISABILITY ACT
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECTURAL
BC	BOTTOM OF CURB
BLDG	BUILDING
BM	BENCHMARK
CF	CUBIC FEET
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
C/O	CLEANOUT
CONC	CONCRETE
CY	CUBIC YARDS
DEP	DEPRESSED
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	END WALL
EX	EXISTING
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GRADE
GR	GRATE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
HOR	HORIZONTAL
HW	HEADWALL
INT	INTERSECTION
INV	INVERT
LF	LINEAR FOOT
LOC	LIMITS OF CLEARING
LOD	LIMITS OF DISTURBANCE
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
OC	ON CENTER
PC	POINT OF CURVATURE
PCCR	POINT OF COMPOUND CURVATURE, CURB RETURN
PI	POINT OF INTERSECTION
PROP	PROPOSED
PT	POINT OF TANGENCY
PTCR	POINT OF TANGENCY, CURB RETURN
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INSERTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
S	SLOPE
SAN	SANITARY SEWER
SF	SQUARE FEET
STA	STATION
STM	STORM
SW	SIDEWALK
TC	TOP OF CURB
TPF	TREE PROTECTION FENCE
TYP	TYPICAL
UG	UNDERGROUND
VIF	VERIFY IN FIELD
W/L	WATER LINE
±	PLUS OR MINUS
°	DEGREE
ø	DIAMETER
#	NUMBER

GRAPHIC LEGEND

- PROPERTY LINE (PARCEL IN QUESTION)
- OFF-SITE PROPERTY LINES
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- PROPOSED CURB
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SAWCUT LINE
- EXIST. CABLE LINE
- PROP. CABLE LINE
- EXIST. ELECTRIC LINE
- PROP. ELECTRIC LINE
- EXIST. FIBER OPTIC LINE
- PROP. FIBER OPTIC LINE
- EXIST. GAS LINE
- PROP. GAS LINE
- EXIST. OVERHEAD WIRES
- PROP. OVERHEAD WIRES
- EXIST. TELEPHONE LINE
- PROP. TELEPHONE LINE
- EXIST. WATER LINE
- PROP. WATER LINE
- EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
- EXIST. SANITARY SEWER LINE
- PROP. SANITARY SEWER LINE
- EXIST. STORM DRAIN LINE
- PROP. STORM DRAIN LINE
- EXIST. MINOR CONTOUR & ELEVATION
- EXIST. MAJOR CONTOUR & ELEVATION
- PROP. FINISH GRADE CONTOUR & ELEVATION
- SOIL DELINEATION LINE
- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- EXIST. SPOT ELEVATIONS
- PROP. GRADE SPOT ELEV.
- PROP. GRADE SPOT ELEV. (HIGH POINT)
- PROP. GRADE SPOT ELEV. (MEET EXISTING)
- PROP. TOP OF CURB & BOTTOM OF CURB ELEV.
- PROP. FINISHED FLOOR ELEV.
- PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
- EXIST. CONCRETE UTILITY POLE
- EXIST. WOOD UTILITY POLE
- EXIST. GUY WIRE
- EXIST. LIGHT POLE
- EXIST. BUILDING LIGHT
- EXIST. SHOE BOX LIGHT
- EXIST. COBRA LIGHT POLE
- EXIST. TRAFFIC SIGNAL POLE
- EXIST. SANITARY MANHOLE
- EXIST. STORM MANHOLE
- EXIST. "B" INLET
- EXIST. YARD INLET
- EXIST. FLARED END SECTION
- EXIST. HEADWALL
- EXIST. MONITORING WELL
- APPROX. TEST PIT LOCATION
- EXIST. FIRE HYDRANT
- EXIST. WATER VALVE
- EXIST. WATER METER
- EXIST. GAS VALVE
- EXIST. GAS METER
- EXIST. ELECTRIC PULLBOX
- EXIST. ELECTRIC METER
- EXIST. ELECTRIC BOX
- EXIST. CLEAN OUT
- EXIST. SEWER VALVE
- EXIST. WELL
- EXIST. WATER SHUT OFF VALVE
- EXIST. TELEPHONE BOX
- EXIST. CABLE TV BOX
- PROP. WATER VALVE
- PROP. GAS VALVE
- PROP. STORM CLEANOUT
- PROP. SANITARY CLEANOUT
- PROP. AREA LIGHT
- PROP. OUTLET CONTROL STRUCTURE
- PROP. DRAINAGE MANHOLE
- PROP. SANITARY SEWER MANHOLE
- PROP. 'C' INLET
- PROP. 'E' INLET
- PROP. YARD INLET
- PROP. FLARED END SECTION
- PROP. MITERED END SECTION
- PROP. HEADWALL

CITY OF OCOEE NOTES

1. THE MOST STRINGENT STANDARDS BETWEEN THE CITY STANDARDS AND THE STANDARDS SET FORTH IN THE GENERAL NOTES (AS DETERMINED BY THE ENGINEER OF RECORD OR THE CITY ENGINEER) SHALL BE FOLLOWED.
2. AS-BUILTS NEED TO BE SUBMITTED TO THE CITY SIGNED AND SEALED IN ACCORDANCE WITH SECTION 3.01.05 OF THE ENGINEERING STANDARDS MANUAL IN THE FOLLOWING FORMATS:
   A. 1 PDF COPY
   B. CAD COPY DRAWN IN STATE PLANE COORDINATES
3. ALL FINISHED FLOOR ELEVATIONS WILL EXCEED THE 100-YEAR FLOOD PLAIN BY A MINIMUM OF TWO FEET (2').
4. IN THE EVENT OF EXCESSIVE OFF-SITE TRACKING, THE CONTRACTOR WILL BE OBLIGATED TO INSTALL ADDITIONAL MEASURES.

WATER & SEWER UTILITY NOTES

1. ALL CONSTRUCTION SHALL MEET OR EXCEED THE AHJ REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
2. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING DELIVERED TO THE SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
11. ALL LINES LABELLED "FIRE" SHALL BE INSTALLED BY A CERTIFIED FIRE SPRINKLER INSTALLER.
12. ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
13. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(B)3, USING BLUE AS THE PREDOMINANT COLOR. UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24"OR GREATER. TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
14. ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, HAVE COMPRESSION TYPE BELL JOINTS AND BE EITHER ANSI/AWWA C-151/A21.51-02 DUCTILE IRON PIPE (D.I.P.), CLASS 50 FOR 6"DIAMETER PIPE AND LARGER AND CLASS 51 IF PIPE DIAMETER IS SMALLER THAN 6"OR ANSI/AWWA C-900-97, PVC PIPE WITH A MAXIMUM SDR OF 18. ALL D.I.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARDS. ALL D.I.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY ONE MIL THICK IN ACCORDANCE WITH ANSI 21.51-8, CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.I.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND VIRGIN POLYETHYLENE OR PROTECTOR 401 CERAMIC EPOXY COMPLYING WITH A.S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM 'K'VALUE OF 0.012. SEE PROJECT SPECIFICATIONS MANUAL FOR MORE DETAILS. ALL D.I.P. PIPE SHALL BE LAID WITH A MINIMUM OF 30"CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36"CLEAR COVER.
15. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER(OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
16. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER,WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
17. THE WATER SYSTEM SHALL BE CLEANED OF DEBRIS, FLUSHED AND TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT A MINIMUM STARTING PRESSURE OF 150 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE ALLOWABLE GAL/HR IN ACCORDANCE WITH THE ANSI/AWWA C-600-05 STANDARD SECTION 4.2.2.

$$\text{(EQUATION Q} = \frac{\text{LD}\sqrt{\text{P}}}{148{,}000}$$

   Q = ALLOWABLE LEAKAGE, GALLONS/HOUR
   L = LENGTH OF PIPE TESTED, FEET
   D = NOMINAL DIAMETER, INCHES
   P = AVERAGE TEST PRESSURE, LB/IN GAUGE

18. AFTER THE PRESSURE TEST, THE SYSTEM SHALL BE DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C651-05 STD. BACTERIOLOGICAL TESTS SHALL BE TAKEN TWO (2) CONSECUTIVE DAYS, AT LEAST 24 HOURS APART AND SHALL BE AT LEAST ONE SAMPLE PER 1,200 FEET OF MAIN IN THE SYSTEM. THE SAMPLE SHALL HAVE A HETEROTROPHIC PLATE COUNT (HPC) LESS THAN 500 CFU/ML AND SHALL BE FREE OF COLIFORM BACTERIA.
19. FOR 2 HOURS AT LINE PRESSURE AFTER THE 150 PSI TEST & DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C651-05 STD.
20. AT THE TIME OF BACTERIOLOGICAL SAMPLING, CHLORINE RESIDUAL DETERMINATION SHALL BE MADE TO INSURE THAT CHLORINE CONCENTRATION IN THE MAIN IS NO HIGHER THAN THAT GENERALLY IN THE SYSTEM (3.0 MG/L FREE OR 4.0 MG/L COMBINED MAXIMUM); OR LESS THAN 0.2 MG/L FREE OR 0.6 MG/L COMBINED. THE RESULT SHALL BE REPORTED ALONG WITH THE BACTERIOLOGICAL TEST RESULTS. ALL TESTING SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR.
21. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY & ROOF DRAIN CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
22. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF ANY EXISTING UTILITY MAIN, STRUCTURES AND/OR APPURTENANCES DURING CONNECTION.
23. LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
24. ALL BUILDING FEATURES AND DIMENSIONS TO BE COORDINATED WITH ARCHITECTURAL PLANS ON THE APPROVED BUILDING PERMIT PLAN SET. ANY DISCREPANCIES WITH THE CIVIL CONSTRUCTION DOCUMENTS PLANS TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
25. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
26. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
27. PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE TWO CONNECTED STRUCTURES.

EXISTING UTILITIES

EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

INTERRUPTION OF EXISTING UTILITIES

ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

SURVEY DATA

1. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MAKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
2. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.
3. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 1988).

MINIMUM REQUIRED "AS-BUILT" INFORMATION

1. ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
2. STORM DRAINAGE:
   A. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
   B. INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
   C. INVERTS OF ALL MITERED END SECTIONS
   D. ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
   E. INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
   F. CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS SECTIONS ON ALL SIDES OF THE WATER MANAGEMENT AREAS AT 100-FOOT INTERVALS. THE CROSS SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS-BUILTS MAY BE REQUIRED.
3. UTILITY CROSSING SEPARATION INFORMATION FOR THAT PROVIDED ON THE PLANS VERIFYING:
   A. FINISHED GRADE AT THE LOCATION OF THE CROSSING WITH SIZE AND MATERIAL OF EACH PIPE
   B. BOTTOM ELEVATION OF TOP PIPE
   C. TOP ELEVATION OF BOTTOM PIPE
   D. CLEARANCE BETWEEN EACH PIPE
4. ALL OTHER REQUIREMENTS LISTED SHALL CONFORM TO THE AHJ DOCUMENTATION.
   A. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
   B. REVISIONS TO ROUTING OF PIPING AND CONDUITS.
   C. REVISIONS TO ELECTRICAL CIRCUITRY.
   D. ACTUAL EQUIPMENT LOCATIONS.
   E. CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
   F. CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
   G. DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
   H. FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
   I. ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY STATION/OFFSET (OR METHOD APPROVED BY ENGINEER) AND ELEVATION OF TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING. AS-BUILTS FOR ALL SLEEVING DEPICTING TOP OF PIPE AT 100-FOOT INTERVALS MUST BE PROVIDED.
   J. RECORD DRAWINGS SHALL INDICATE AS-BUILT DATA FOR EVERY ELEVATION SHOWN ON THE PLANS.
   K. IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
   L. IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
   M. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS-BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS-BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.
   N. PRESSURE SYSTEMS (WATER, FORCE MAIN AND RECLAIMED):
      i. ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
      ii. TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
      iii. LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
      iv. AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
      v. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF AS-BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
      vi. ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS-BUILT REQUIREMENTS OF AHJ.

PHASING NOTES

1. CONTRACTOR MAY PHASE EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH SITE CONSTRUCTION PHASING.
2. CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION AREA IS SEPARATED FROM THE AREA NOT UNDER CONSTRUCTION WITH A TEMPORARY CHAIN LINK FENCE AND ENSURE THE SAFETY OF THE PUBLIC.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL SILT FENCE, TURBIDITY BARRIER AND INLET PROTECTION.
2. PERFORM CLEARING AND GRUBBING AND DEMOLITION.

PHASE 2:
1. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
2. CONSTRUCT PROPOSED DRAINAGE INFRASTRUCTURE.
3. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
4. CONSTRUCT PROPOSED IMPROVEMENTS.
5. COMPLETE FINAL GRADING AND FINAL STABILIZATION.
6. REMOVE TEMPORARY EROSION CONTROL MEASURES.

NOTES

1. CONTRACTOR TO CONSIDER POTENTIAL DEWATERING ACTIVITIES WHEN PREPARING BID DOCUMENTS FOR THIS PROJECT.
2. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEWATERING PERMITS AS SITE CONDITIONS AND CONSTRUCTION ACTIVITIES REQUIRE.
3. CONTRACTOR TO USE B.M.P.'S TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

DYNAMIC ENGINEERING CONSULTANTS, PC
• ENGINEER

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES HAVING JURISDICTION (AHJ), SPECIFICATIONS AND REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST MAKE CONTACT WITH THE UTILITY COMPANIES PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR AT ALL TIMES SHALL HAVE ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS AVAILABLE AT THE JOB SITE.
6. ANY DISCREPANCIES ON THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER OF RECORD SHALL BE MADE.
7. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS TO THE ENGINEER OF RECORD. ALL SURVEY COSTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS. WHEN DISCREPANCIES OCCUR, THE PHYSICAL SIGNED & SEALED PLAN TAKES PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES TO THE SPECIFICATIONS OR PLANS. ANY QUANTITIES PROVIDED ARE FOR REFERENCE ONLY.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION.
12. CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN. CONTRACTOR SHALL SEND A COPY TO THE ENGINEER OF RECORD AND THE OWNER.
13. FLORIDA LAW (F.S.553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT " NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATION EXCLUDING HOLIDAYS, SATURDAYS OR SUNDAYS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
15. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE POWER LINES.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, LANDSCAPE, IRRIGATION, SITE LIGHTING, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION.
17. CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID.
18. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC (MOT) WITH ENGINEER, AHJ AND FDOT. CONTRACTOR SHALL SUBMIT MOT PLANS AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
19. ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE.
20. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MULCH, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
21. UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER PAVED FOOTINGS OR PAVED AREAS.
22. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE SPECIFICATIONS (IF PROVIDED), THE PLANS SHALL GOVERN.
23. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
24. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL AGENCY HAVING JURISDICTION OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
25. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
26. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE APPLICANT SHALL PROVIDE ALL NECESSARY CONSTRUCTION ZONE SIGNAGE AND FENCING AS REQUIRED BY THE AGENCY HAVING JURISDICTION.
27. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
28. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
29. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT & PLANS.
30. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.
31. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
32. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
33. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.
34. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
35. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C., ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS, P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
36. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

GENERAL CONSTRUCTION NOTES, CONT'D

37. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS, P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
38. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.
39. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.
40. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE WHATSOEVER.
41. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
42. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND THAT THE CONTRACTORS RESPONSIBILITIES INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD.
43. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF CONSTRUCTION DOCUMENT CREATION AND CIVIL PERMIT APPROVALS. AS A RESULT, ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE PERMITTED ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

PRE-CONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND ITSELF.
2. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING AND EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

CONSTRUCTION SAFETY

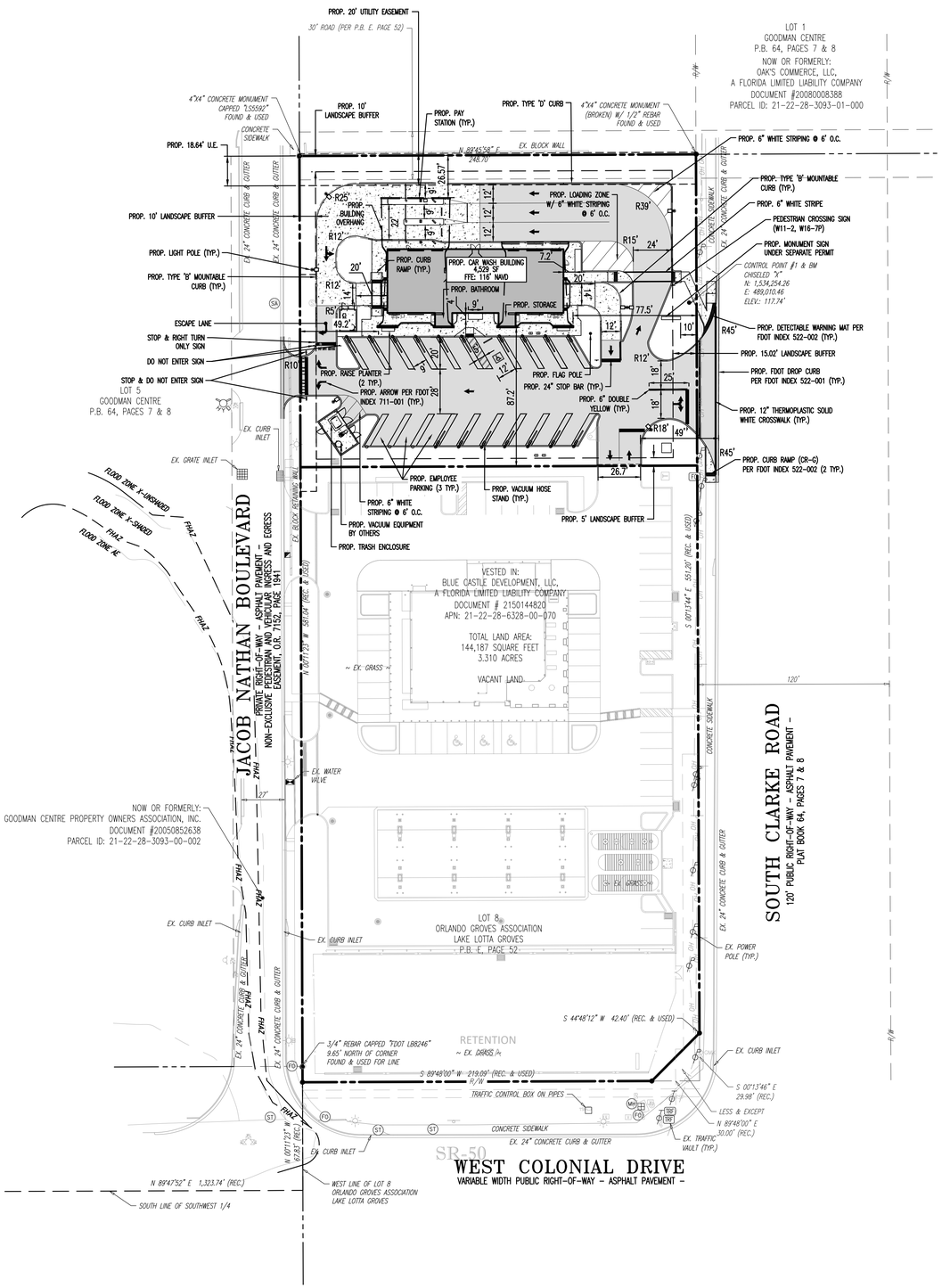
ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

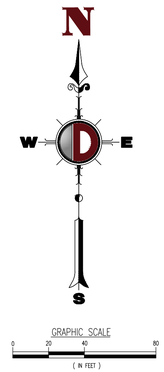
TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED. THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   - A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   - B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXACTION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   - C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN ANY DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORMWATER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
22. EROSION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORMWATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION. REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE OF AWARD AND PRIOR TO NOTICE TO PROCEED. AFTER REVIEW BY OWNER THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATORY AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS.
23. SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AT THE CONTRACTOR'S DISCRETION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE PLAN TO ENGINEER FOR SHOP DRAWING REVIEW.
24. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
25. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
26. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DOCUMENTATION FOR NPDES MONITORING IN ACCORDANCE WITH FDEP REQUIREMENTS.
27. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5 " RAINFALL EVENT, THEN CLEANED AND REPAIRED.
28. CONTRACTOR TO CONSIDER POTENTIAL DEWATERING ACTIVIT





SITE DATA TABLE

PARCEL NO.:	21-22-28-6328-00-070
ADDRESS:	9701 WEST COLONIAL DRIVE, CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761
OWNER:	BLUE CASTLE DEVELOPMENT LLC
EXISTING ZONING:	PUD-COMM
ADJACENT ZONING:	
NORTH:	C2-COMMUNITY COMMERCIAL
EAST:	PUBLIC R/W (CLARKE ROAD)
SOUTH:	PUD-COMM
WEST:	PRIVATE R/W (JACOB NETHAN BLVD.)
CURRENT USE:	VACANT/UNDEVELOPED
FUTURE LAND USE:	COMMERCIAL
PROPOSED USE:	COMMERCIAL (AUTOMATED CAR WASH)
FLOOD ZONE:	ZONE X (PER FEMA FIRM 12095C0220H EFF. 09/24/2021)
GROSS FLOOR AREA (GFA):	4,529 (AUTOMATED CAR WASH)
FLOOR AREA RATIO (FAR):	0.09
IMPERMEABLE SURFACE RATIO (ISR):	0.72
BUILDING HEIGHT:	1 STORY (30.92')
PAVED VEHICULAR AREA:	27,254 SF. (56%)
PARKING LOT INTERIOR LANDSCAPING:	1,559 SF. (5.7% OF PAVED VEHICULAR AREA)
HOURS OF OPERATION:	SUN-SAT (7:00 AM - 9:00 PM)
SHIFTS PER DAY:	3
EMPLOYEES PER SHIFT:	3

DEVELOPMENT DATA

LOT COVERAGE	PROPOSED (SF)	PROPOSED (AC)	PERCENTAGE
NET PROJECT SITE AREA:	48,567	1.11	100%
BUILDING AREA:	4,529	0.10	9.3%
IMPERVIOUS:	30,591	0.70	63%
PERVIOUS (GREEN AREA):	13,447	0.30	27.7%

BUILDING SETBACKS

	REQUIRED	PROPOSED
FRONT (E)	25'	77.5'
SIDE (N)	10'	21.2'
SIDE (S)	10'	92.1'
REAR (W)	10'	49.2'

BUFFER STRIPS

	REQUIRED	PROPOSED
FRONT (E)	15'	15'
SIDE (N)	10'	10'
SIDE (S)	5'	5'
REAR (W)	10'	10'

PARKING

PARKING RATIO:	REQUIRED	TYPE	PROPOSED
LDR §6-4(G)(6)(F)	3 SPACES X 1 SERVICE BAY = 3 SPACES	STANDARD	3
		ADA	1
		VACUUM STALLS	15
TOTAL			18

HORIZONTAL CONTROL & STRIPING NOTES

1. ALL CURBING IS TYPE 'D' UNLESS OTHERWISE STATED.
2. TYPE 'D' CURB SHALL BE CONSTRUCTED PER FDOT INDEX 300.
3. ALL DIMENSIONS SHOWN, OTHER THAN LANDSCAPE DIMENSIONS, ARE TO FACE OF CURB FOR TYPE 'D' CURB OR EDGE OF PAVEMENT FOR NO CURB, UNLESS OTHERWISE NOTED. LANDSCAPE DIMENSIONS ARE SHOWN TO BACK OF CURB.
4. ALL CURB RAMPS AND SIDEWALKS ENTERING PARKING OR TRAVEL WAYS SHALL HAVE DETECTABLE WARNING SURFACES 2' DEEP AND THE WIDTH OF THE SIDEWALK. REFER TO THE LATEST FDOT DESIGN STANDARD PLANS INDEX 304.
5. ALL STOP BARS, DIRECTIONAL ARROWS AND CROSSWALKS SHALL BE THERMOPLASTIC WITHIN THE SITE AND IN THE R.O.W.. ALL OTHER PAVEMENT MARKINGS ARE PAINT, UNLESS OTHERWISE NOTED. ALL PAVEMENT STRIPING IN THE R.O.W. TO BE THERMOPLASTIC.
6. REFER TO LANDSCAPE PLANS FOR PLANTING AND DETAILS.
7. ALL RADII ARE 3' UNLESS OTHERWISE NOTED ON PLANS.

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REV.	DATE	COMMENTS	BY

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DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: –

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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PROFESSIONAL ENGINEER
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TITLE: SITE PLAN

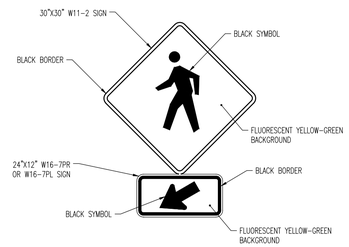
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SCALE: (H) AS (V) NOTED
DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C1.00
Rev. #:

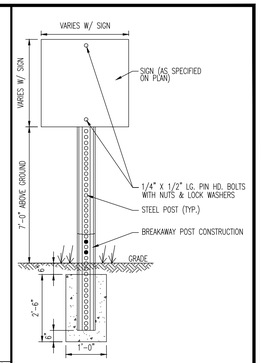
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Plotted: 08/05/24 – 3:59 PM By: jlaplan
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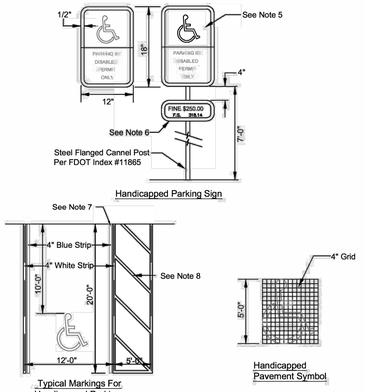
PEDESTRIAN CROSSING SIGN AT CROSSWALK DETAIL

NOT TO SCALE



SIGN POST & FOOTING DETAIL

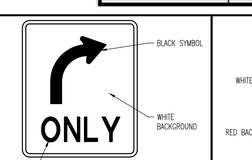
NOT TO SCALE



NOTES:

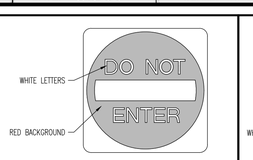
1. Top portion of sign to have a reflective blue background with white reflective symbol and border.
2. Bottom portion shall have a reflective white background with black opaque legend and border.
3. Sign may be fabricated on one panel or two.
4. Signs are to be mounted at standard height. (7' from pavement to bottom of sign.)
5. FTP-25 or FTP-26 sign in accordance with FDOT Standard Index #15355.
6. Supplemental plate must be 12" wide by 6" high with 1-1/2" corner radii. Provide a 1" Series C blue legend and a 1/2" blue border on a white background.
7. Blue strip is to be tinted to match shade 15180 of Federal Standards 595
8. 5 ft wide access aisles are diagonally striped at 45 degrees with 4" wide solid white striping at 4 ft. on centers and outlined on three sides with 4" wide solid white striping.
9. Use of pavement symbol in handicapped parking spaces is required. When used, the symbol shall be 5 ft. high and white in color. To be installed in accordance with FDOT Standard Index #17346

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
PW006	Handicapped Parking Markings and Sign Detail
DATE: June 2020	SCALE: N/A



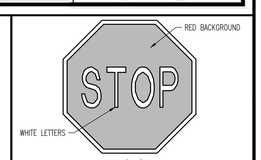
R3-5R SIGN DETAIL

NOT TO SCALE



R5-1 SIGN DETAIL

NOT TO SCALE



R1-1 SIGN DETAIL

NOT TO SCALE

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DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: –

PROJECT: **AQUASONIC CAR WASH**

9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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TITLE: **SITE PLAN DETAILS**

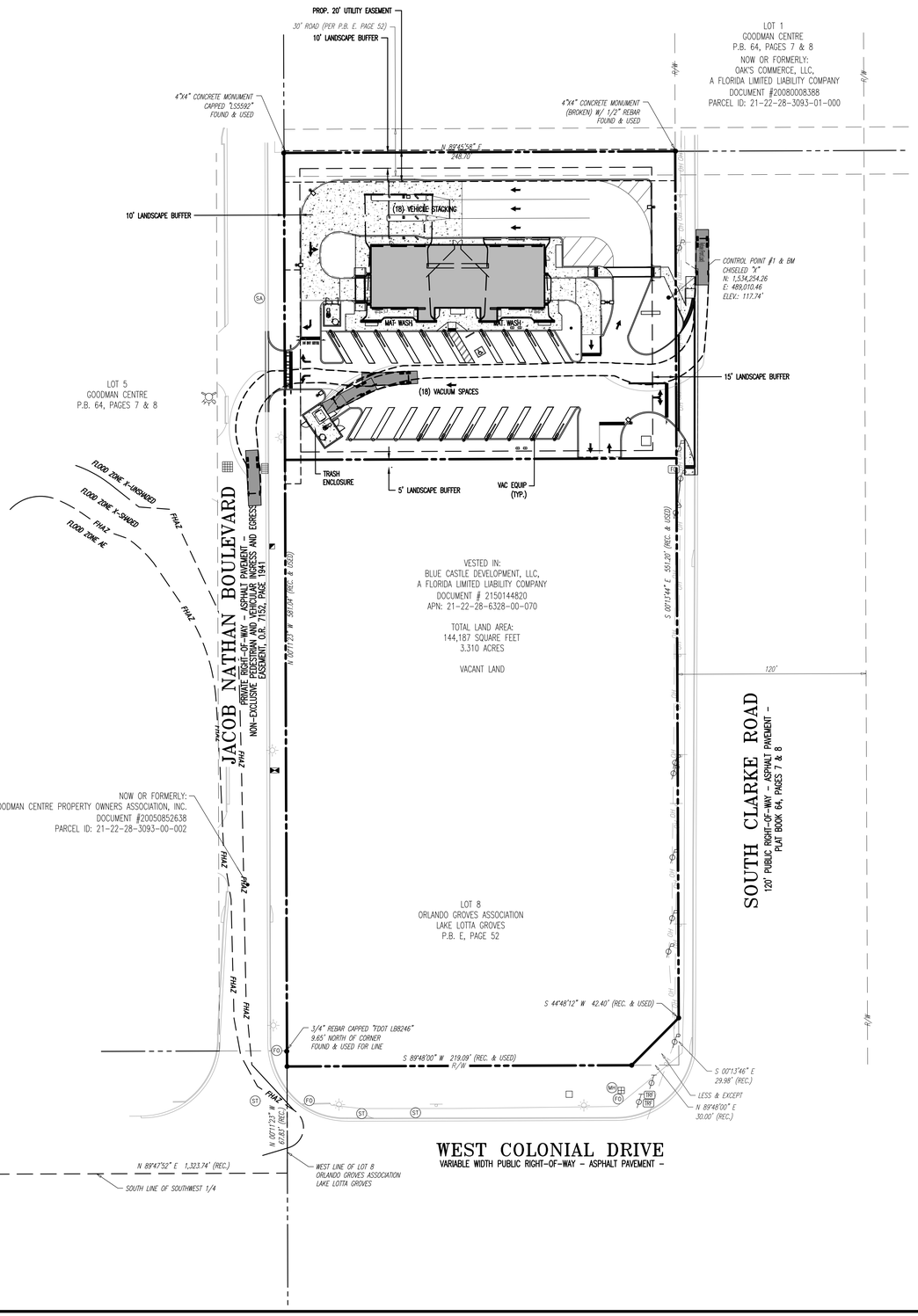
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PROJECT No: 5086-23-03959

SHEET No: **C1.01**
Rev. #:

Plotted: 08/05/24 – 3:59 PM By: jkaplan
File: P:\DEC'PC' PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086230395950.dwg, ---> C1.01 SITE PLAN DETAILS

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VEHICLE LEGEND:

CHASSIS ENVELOPE

VEHICLE BODY ENVELOPE

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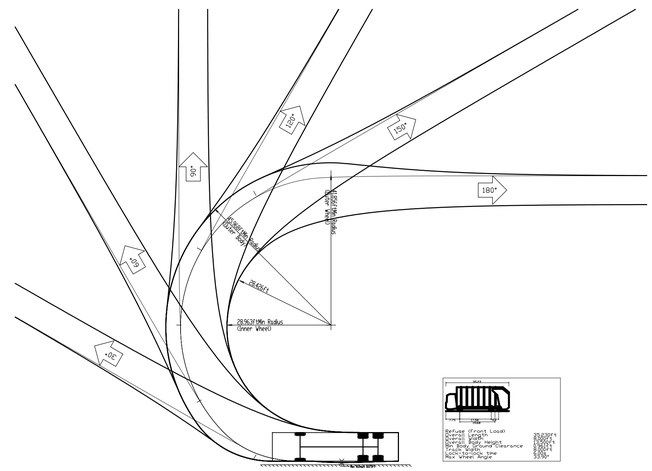
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PROJECT: **AQUASONIC CAR WASH**

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TITLE: **TRUCK CIRCULATION PLAN (REFUSE)**

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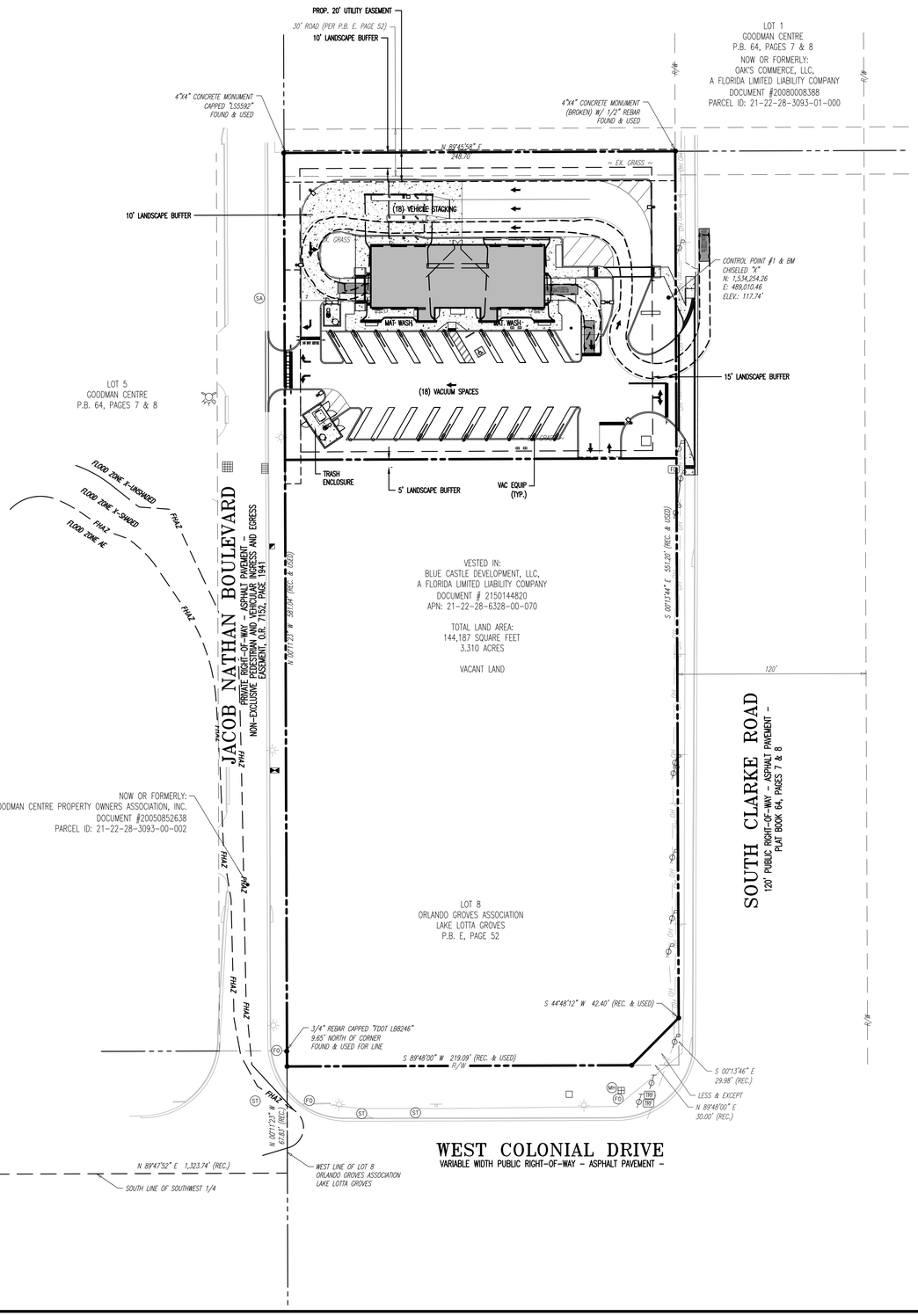
SCALE: (H) AS (V) NOTED | DATE: 07/31/2024

PROJECT No: 5086-23-03959

SHEET No: **C1.02** | Rev. #:

Plotted: 08/05/24 – 3:59 PM, By: jlaplon
File: P:\DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086203959SVO.dwg, ----> C1.02 TRUCK CIRCULATION PLAN (REFUSE)

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CHASSIS ENVELOPE

VEHICLE BODY ENVELOPE

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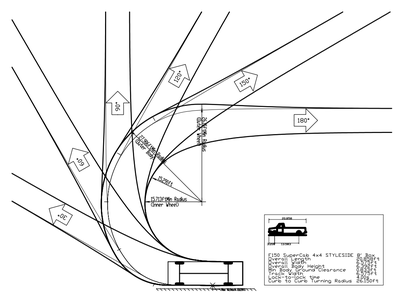
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PROJECT: **AQUASONIC CAR WASH**
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CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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FLORIDA LICENSE No. 88047
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TITLE: **TRUCK CIRCULATION PLAN (F-150)**

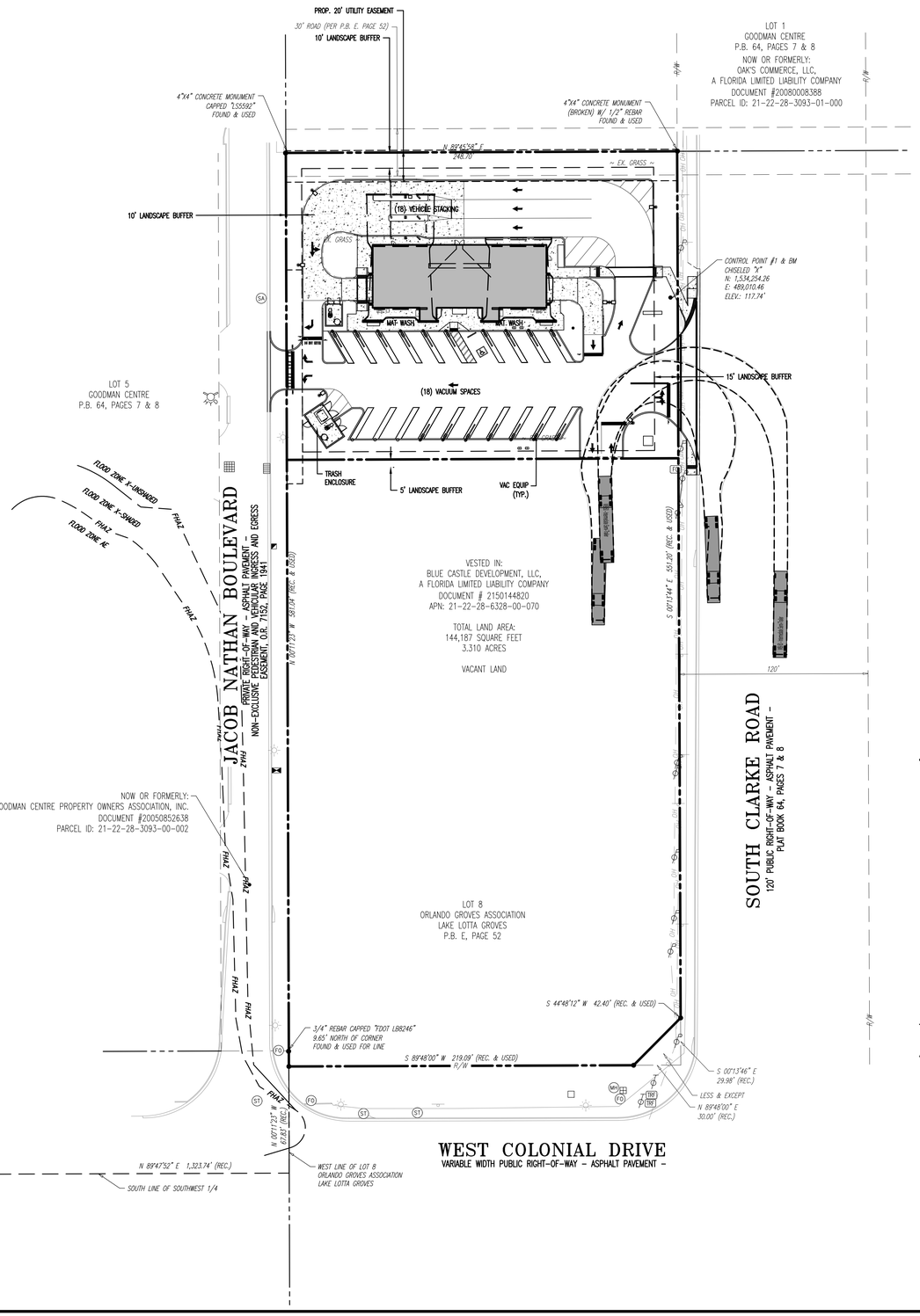
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PROJECT No: 5086-23-03959

SHEET No: **C1.03** | Rev. #:

Plotted: 08/05/24 – 4:00 PM, By: jlopion
File: P:\DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086230395SV0.dwg, ----> C1.03 TRUCK CIRCULATION PLAN (F-150)

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VEHICLE LEGEND:

CHASSIS ENVELOPE

VEHICLE BODY ENVELOPE

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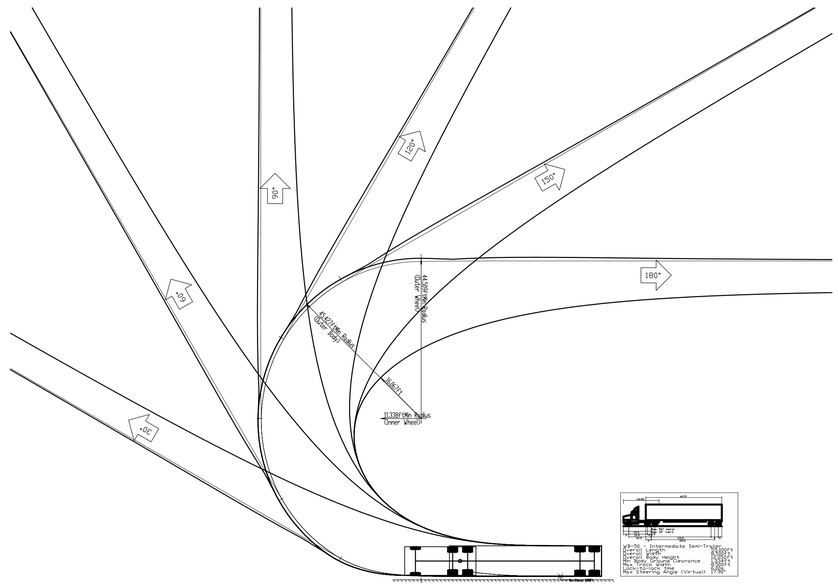
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BY	COMMENTS	DATE	REV.

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PROJECT: **AQUASONIC CAR WASH**

9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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ÁNGEL PIÑERO

PROFESSIONAL ENGINEER
FLORIDA LICENSE No. 88047
DATE:

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TITLE: **TRUCK CIRCULATION PLAN (WB-50)**

ANGEL PINERO LUGO, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 88047, THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGEL PINERO LUGO, P.E. ON 08/05/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

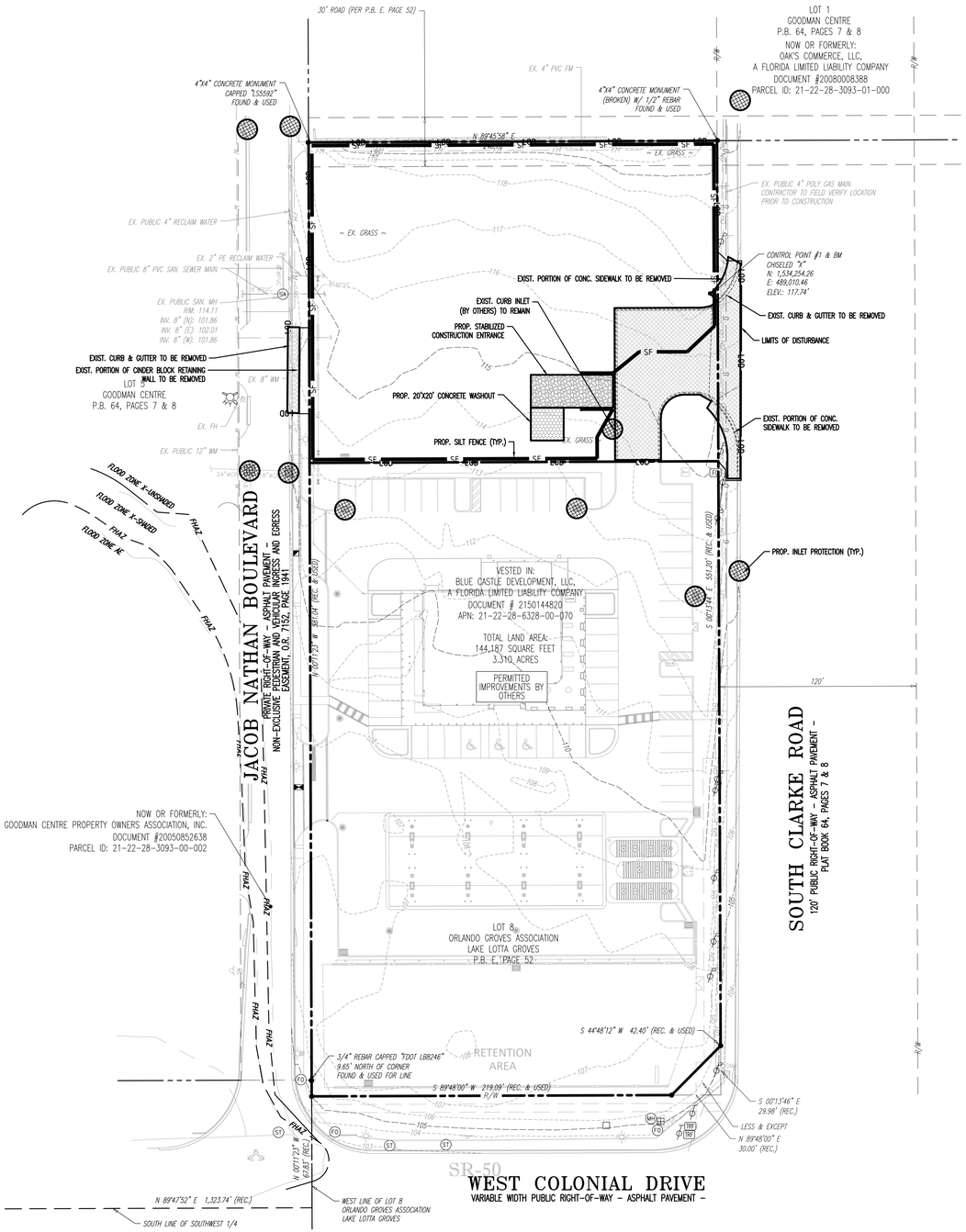
SCALE: (H) AS (V) NOTED | DATE: 07/31/2024

PROJECT No: 5086-23-03959

SHEET No: **C1.04** | Rev. #:

Plotted: 08/05/24 – 4:00 PM, By: jlaplan
File: P:\DEDPC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086203959SV0.dwg, ----> C1.04 TRUCK CIRCULATION PLAN (WB-50)

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EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
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11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND COUNTY PERMITS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.
16. CONTRACTOR MUST INCORPORATE MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
17. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.
18. NOI SHALL BE POSTED ON SITE.
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    a. DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
    b. CONTRACTOR MUST HAVE A TRANSFERABLE SFWMD DEWATERING PERMIT.
    c. NO HYDRAULIC PUMPS MAY BE USED FOR DEWATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA.

PHASING NOTES
1. CONTRACTOR MAY PHASE EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH SITE CONSTRUCTION PHASING.
2. CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION AREA IS SEPARATED FROM THE AREA NOT UNDER CONSTRUCTION WITH A TEMPORARY CHAIN LINK FENCE AND ENSURE THE SAFETY OF THE PUBLIC.
3. CONTRACTOR SHALL PROVIDE SWPPP AS REQUIRED FOR THE PROPOSED PAVING, GRADING AND DRAINAGE PLAN. SEE ATTACHED DETAILS AS NECESSARY.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH SPECIFIC PROJECT SHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION ENTRANCE																								
TEMPORARY CONTROL MEASURES																								
STRIP & STOCKPILE TOPSOIL																								
ROUGH GRADE																								
STORM FACILITIES																								

DEMOLITION LEGEND

- LOD – PROP. LIMIT OF DISTURBANCE
- SF – PROP. SILT FENCE
- PROP. STABILIZED CONSTRUCTION ENTRANCE
- PROP. CONCRETE WASHOUT
- EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED
- PROP. INLET PROTECTION FILTER

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. CONTRACTOR TO SEE LANDSCAPE PLAN FOR TREE PROTECTION REQUIREMENTS. ALL TREES TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO NOTE EXISTING TREES TO REMAIN. SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND.
4. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
5. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
6. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THE PLANS.
7. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
8. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
9. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE.
10. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
12. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
13. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
14. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
15. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE AGENCY HAVING JURISDICTION AND THE CONSTRUCTION MANAGER.
16. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
17. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
18. CONTRACTOR MUST COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

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PROJECT: AQUASONIC CAR WASH
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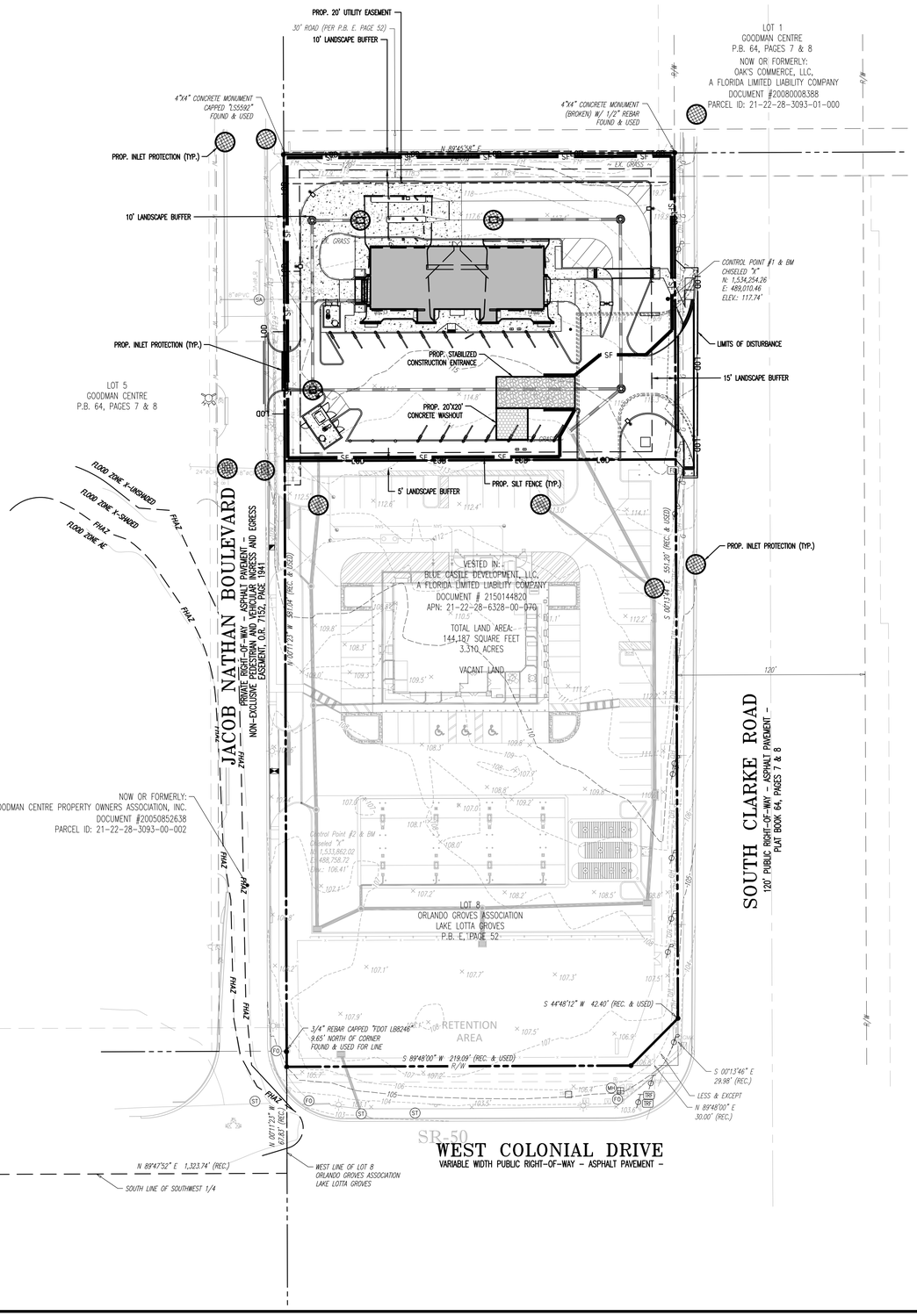
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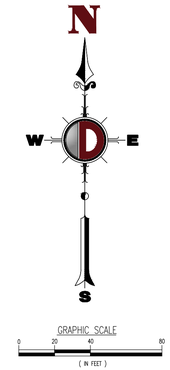
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PROJECT No: 5086-23-03959

SHEET No: C2.00 | Rev. #:

Plotted: 08/05/24 – 4:00 PM By: jlopton
File: P:\JEDPC PROJECTS\5086 Sqaidess Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\05086230395SR0.dwg, ---> C2.00 DEMOLITION & EROSION CONTROL PLAN – PHASE 1

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EROSION CONTROL LEGEND

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NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH SPECIFIC PROJECT SHEDULE

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CHECKED BY: AP
CHECKED BY: –

PROJECT: AQUASONIC CAR WASH
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TITLE: SEDIMENT & EROSION CONTROL PLAN – PHASE 2

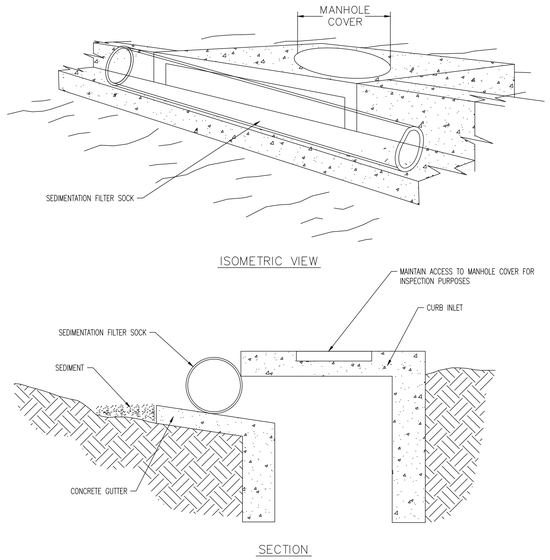
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DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C2.01
Rev. #:

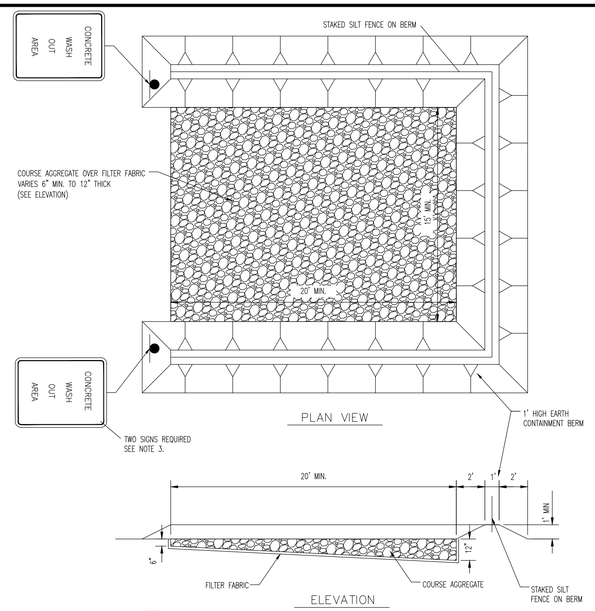
Plotted: 08/05/24 – 4:00 PM, By: jkaplan
File: P:\DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086203959SOO.dwg, ----> C2.01 SEDIMENT & EROSION CONTROL PLAN – PHASE 2

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CURB INLET SEDIMENT FILTER DETAIL

NOT TO SCALE



NOTES:

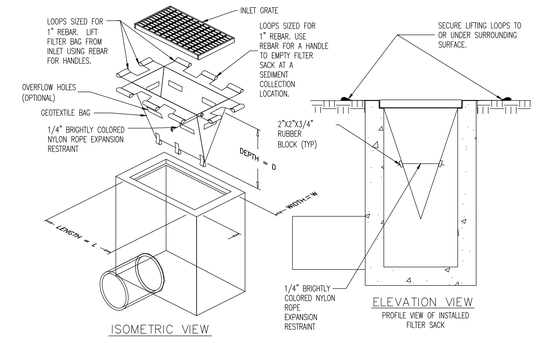
ALL MATERIAL SHALL BE REMOVED FROM THE SITE AT THE END OF THE PROJECT.

AGGREGATE SHALL BE REPLACED AS DIRECTED BY THE ENGINEER OF RECORD AND/OR THE CITY WHEN EXCESSIVE MATERIALS BUILDUP RENDERS THE WASH OUT AREA NO LONGER FUNCTIONAL.

SIGNS SHALL BE 18" X 12" MIN. SIZE WITH 2" BLACK LETTERING ON A WHITE BACKGROUND AND MOUNTED A MINIMUM OF 7 FEET ABOVE GRADE FROM THE LOWEST EDGE OF THE SIGN FACE.

CONCRETE TRUCK WASH OUT AREA

NOT TO SCALE

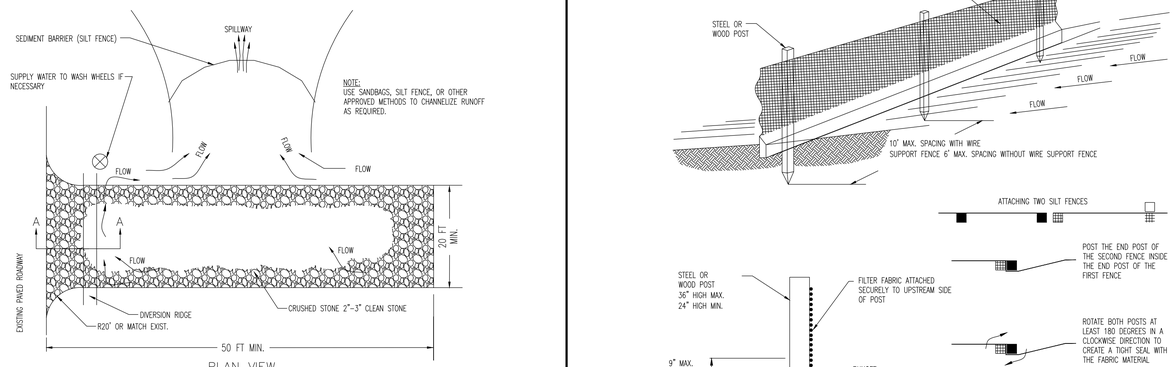


1. EMPTY FILTER SACK WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. AN OIL ABSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK WILL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK WILL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK WILL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC $^{-1}$
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC $^{-1}$

FILTER SACK INLET PROTECTION

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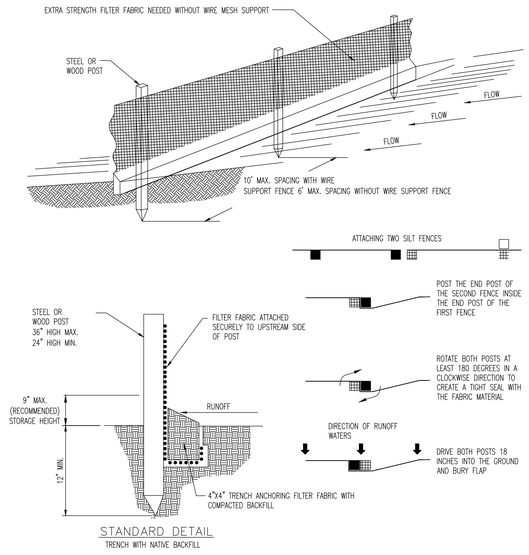


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTE:

1. INSPECT AND REPAIR FENCE EVERY 7 DAYS AND AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. DOUBLE ROW SILT FENCE SHALL BE INSTALLED WITH 3' HORIZONTAL SPACING.

STAKED SILT FENCE

NOT TO SCALE

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File: P:\[EC/PC PROJECTS]\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\05086230395SSD.dwg, ---> C2.02 EROSION CONTROL DETAILS

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REV.	DATE	COMMENTS	BY

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DRAWN BY: KK
DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: –

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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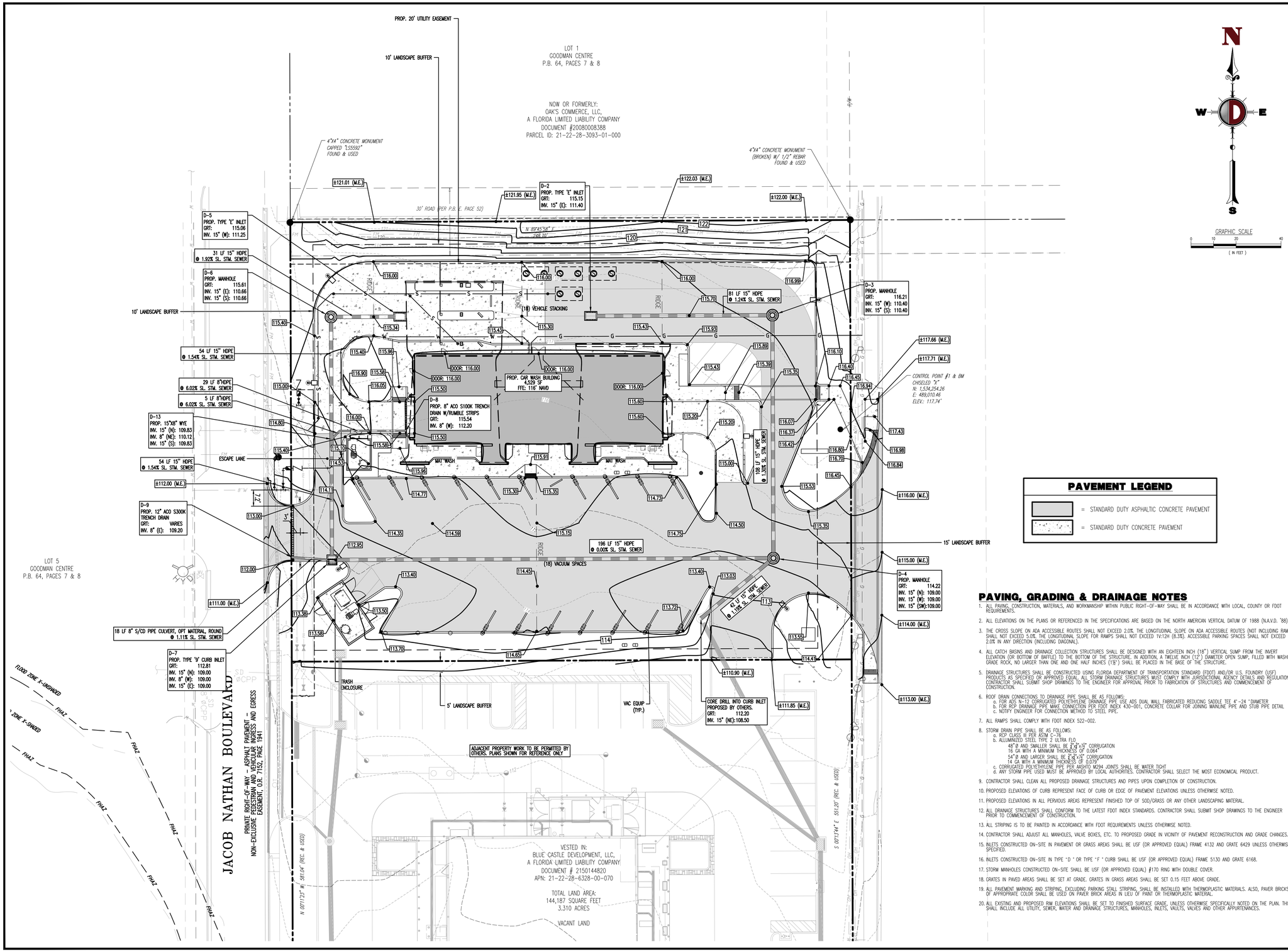
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TITLE: EROSION CONTROL DETAILS

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PROJECT No: 5086-23-03959

SHEET No: C2.02
Rev. #:



PAVEMENT LEGEND

= STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT

= STANDARD DUTY CONCRETE PAVEMENT

PAVING, GRADING & DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL, COUNTY OR FDOT REQUIREMENTS.
2. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. '88).
3. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
4. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE. IN ADDITION, A TWELVE INCH (12") DIAMETER OPEN SUMP, FILLED WITH WASHED GRADE ROCK, NO LARGER THAN ONE AND ONE HALF INCHES (1½") SHALL BE PLACED IN THE BASE OF THE STRUCTURE.
5. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) AND/OR U.S. FOUNDRY (USF) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH JURISDICTIONAL AGENCY DETAILS AND REGULATIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND COMMENCEMENT OF CONSTRUCTION.
6. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   a. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4" -24 " DIAMETER
   b. FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 430-001, CONCRETE COLLAR FOR JOINING MANLINE PIPE AND STUB PIPE DETAIL
   c. NOTIFY ENGINEER FOR CONNECTION METHOD TO STEEL PIPE.
7. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522-002.
8. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   a. RCP CLASS III PER ASTM C-76
   b. ALUMINIZED STEEL TYPE 2 ULTRA FLO
      48" Ø AND SMALLER SHALL BE 2-2/3"x1/2" CORRUGATION
      16 GA WITH A MINIMUM THICKNESS OF 0.064"
      54" Ø AND LARGER SHALL BE 3"x1" CORRUGATION
      14 GA WITH A MINIMUM THICKNESS OF 0.079"
   c. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   d. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES. CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.
9. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
10. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
11. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
12. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. ALL STRIPING IS TO BE PAINTED IN ACCORDANCE WITH FDOT REQUIREMENTS UNLESS OTHERWISE NOTED.
14. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, ETC. TO PROPOSED GRADE IN VICINITY OF PAVEMENT RECONSTRUCTION AND GRADE CHANGES.
15. INLETS CONSTRUCTED ON-SITE IN PAVEMENT OR GRASS AREAS SHALL BE USF (OR APPROVED EQUAL) FRAME 4132 AND GRATE 6429 UNLESS OTHERWISE SPECIFIED.
16. INLETS CONSTRUCTED ON-SITE IN TYPE "D " OR TYPE "F " CURB SHALL BE USF (OR APPROVED EQUAL) FRAME 5130 AND GRATE 6168.
17. STORM MANHOLES CONSTRUCTED ON-SITE SHALL BE USF (OR APPROVED EQUAL) #170 RING WITH DOUBLE COVER.
18. GRATES IN PAVED AREAS SHALL BE SET AT GRADE. GRATES IN GRASS AREAS SHALL BE SET 0.15 FEET ABOVE GRADE.
19. ALL PAVEMENT MARKING AND STRIPING, EXCLUDING PARKING STALL STRIPING, SHALL BE INSTALLED WITH THERMOPLASTIC MATERIALS. ALSO, PAVER BRICKS OF APPROPRIATE COLOR SHALL BE USED ON PAVER BRICK AREAS IN LIEU OF PAINT OR THERMOPLASTIC MATERIAL.
20. ALL EXISTING AND PROPOSED RIM ELEVATIONS SHALL BE SET TO FINISHED SURFACE GRADE, UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLAN. THIS SHALL INCLUDE ALL UTILITY, SEWER, WATER AND DRAINAGE STRUCTURES, MANHOLES, INLETS, VAULTS, VALVES AND OTHER APPURTENANCES.

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PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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TITLE: PAVING, GRADING & DRAINAGE PLAN

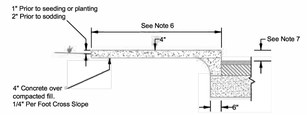
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PROJECT No: 5086-23-03959

SHEET No: C3.00
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File: P:\[ECPC PROJECTS]\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\PD5086230395SGD.dwg, ---> C3.00 PAVING GRADING & DRAINAGE PLAN

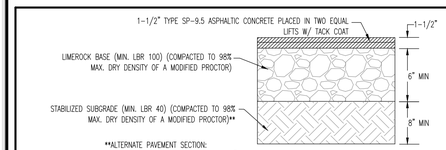
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NOTES:

1. Tooled Control Joints at 5' O.C. max.
2. Expansion Joints at 25' O.C. max.
3. Joints shall be constructed within 24 hours of pouring concrete
4. Sidewalks shall be Class I, 3000psi
5. Sub-grade or base shall be compacted to a minimum density of 98% of the maximum density as determined by AASHTO T-180 for sidewalks/bike paths and curbs.
6. Refer to plans for sidewalk width. Sidewalk shall be a minimum of 5' if a width is not specified on the plans.
7. Refer to the plans for the curb height. If no curb height is specified, use 6"

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
PW005	Sidewalk, Curb, and Pavement Detail
DATE: JUNE 2020	SCALE: N/A

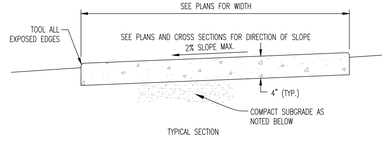


**ALTERNATE PAVEMENT SECTION:
IN LIEU OF 12" STABILIZED SUBGRADE, 5" ADDITIONAL LIMEROCK BASE IS REQUIRED

NOTE: THIS PAVEMENT SECTION SPECIFICATION IS BASED UPON THE GEOTECHNICAL REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES, INC., DATED JANUARY 31, 2024

STANDARD DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE



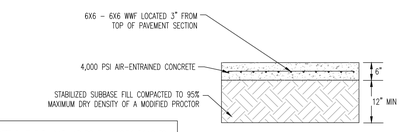
TYPICAL SECTION

NOTES:

1. PROVIDE EXPANSION JOINTS BETWEEN SIDEWALK AND CURB OR AT ANY OTHER RIGID STRUCTURE.
2. EXPANSION JOINTS SHALL BE PROVIDED AT 120 FT. MAXIMUM SPACING.
3. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 P.S.I. @ 28 DAYS FOR SIDEWALKS.
4. MINIMUM THICKNESS OF SIDEWALK SHALL BE 4" THICK CONCRETE. 6" THICK WHEN SUBJECT TO VEHICULAR TRAFFIC.
5. FOR SIDEWALKS OR DRIVEWAYS WITHIN R.O.W., COMPACT SUBGRADE TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM1557. COMPACTION OUTSIDE R.O.W. MAY BE 95% OF MAXIMUM DENSITY.

CONCRETE SIDEWALK DETAIL

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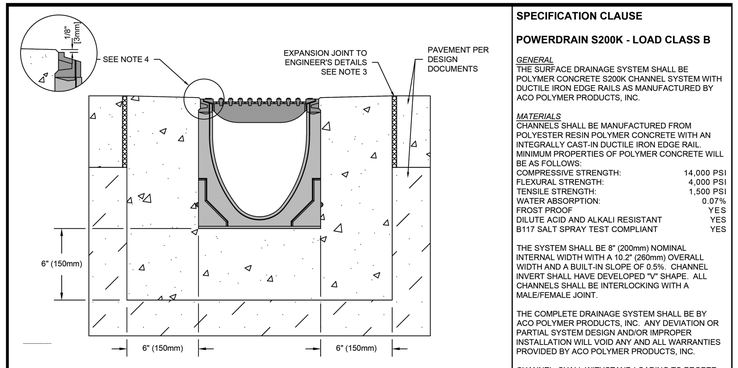
NOTES:

1. CONCRETE PAVEMENT JOINT AND DOWEL SPECIFICATIONS TO FOLLOW FDOT INDEX 350-001 SHEETS 1 AND 2.
2. CONTRACTOR SHALL ADD 3 POUNDS PER CUBIC YARD OF MACRO-SYNTHETIC FIBER TO THE CONCRETE MIX.

NOTE: THIS PAVEMENT SECTION SPECIFICATION IS BASED UPON THE GEOTECHNICAL REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES, INC., DATED JANUARY 31, 2024

TYPICAL PORTLAND CEMENT CONCRETE PAVEMENT SECTION

NOT TO SCALE



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

POWERDRAIN S200K - LOAD CLASS B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S200K CHANNEL SYSTEM WITH DUCTILE IRON EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN DUCTILE IRON EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

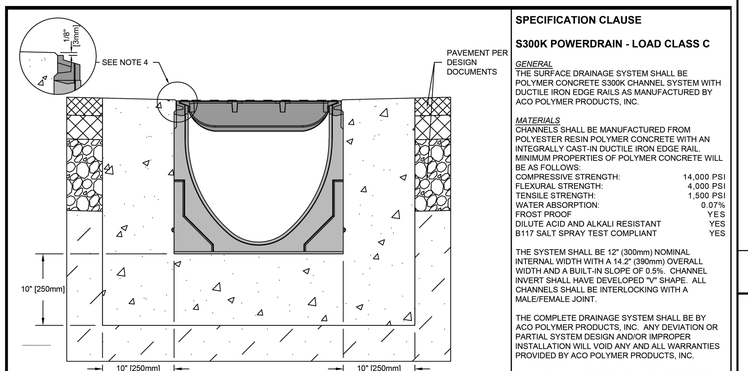
THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING EITHER THE 'POWERLOK' BOLTLESS LOCKING SYSTEM OR THE 4 BOLT LOCKING OPTION. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

SK2-B-ECP	POWERDRAIN - S200K -LOAD CLASS: B Exposed Concrete Pavement	ACO Polymer Products, Inc.		
DATE: 12/12/16	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

S300K POWERDRAIN - LOAD CLASS C

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S300K CHANNEL SYSTEM WITH DUCTILE IRON EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN DUCTILE IRON EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (390mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING EITHER THE 'POWERLOK' BOLTLESS LOCKING SYSTEM OR THE 4 BOLT LOCKING OPTION. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

SK3-C-EAP	POWERDRAIN - S300K - LOAD CLASS: C Exposed Asphalt Pavement	ACO Polymer Products, Inc.		
DATE: 12/12/16	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

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Plotted: 08/05/24 – 4:01 PM, By: jkaplan
File: P:\[ECPC PROJECTS]\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086230395SD0.dwg, ---> C3.01 PAVING GRADING & DRAINAGE DETAILS

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REV.	DATE	COMMENTS	BY

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DRAWN BY: KK
DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: —

PROJECT: **AQUASONIC CAR WASH**
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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Hartford, New Jersey • T: 856.334.2000
Newark, New Jersey • T: 973.753.7200
Toms River, New Jersey • T: 732.974.0198
Newtown, Pennsylvania • T: 267.685.0276
Philadelphia, Pennsylvania • T: 215.225.4886
Bethlehem, Pennsylvania • T: 610.286.4400
Allen, Texas • T: 972.534.2100
Houston, Texas • T: 281.799.6400
Austin, Texas • T: 512.646.2446
Delray Beach, Florida • T: 561.921.8570
Annapolis, Maryland • T: 410.972.7000
Florida Certificate of Authorization No. 32335
www.dynamicec.com

ÁNGEL PIÑERO
PROFESSIONAL ENGINEER
FLORIDA LICENSE No. 88047
DATE:

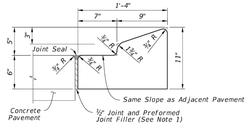
811 Know what's below. Call before you dig.
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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

TITLE: **PAVING GRADING & DRAINAGE DETAILS**

SCALE: (H)NOT TO (V)SCALE
DATE: 07/31/2024
PROJECT No: 5086-23-03959

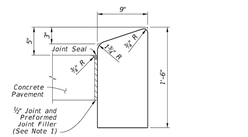
SHEET No: **C3.01**
Rev. #:

ANGEL PIÑERO LUGO, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 88047, THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGEL PIÑERO LUGO, P.E. ON 08/05/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



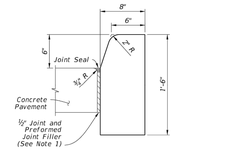
NOTE: For use adjacent to concrete or flexible pavement, concrete shown (See Note 4).

TYPE A



NOTE: For use adjacent to concrete or flexible pavement, concrete shown.

TYPE B

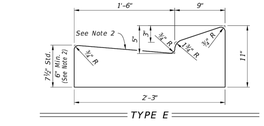


NOTE: For use adjacent to concrete or flexible pavement, concrete shown.

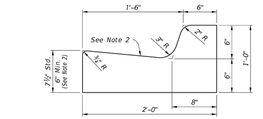
TYPE D

NOTES:

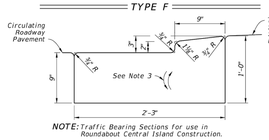
1. For Type A, Type B, and Type D Curb: Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 3.
2. For Type E, Type F, Drop Curb, and Valley Gutter: When used on high side of roadways, match the cross slope of the gutter to the cross slope of the adjacent pavement. The thickness of the lip is 6", unless otherwise shown on Plans.
3. For Type RA, rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.
4. For details depicting usage of Type A Curb adjacent to flexible pavement see Sheet 3.



TYPE E

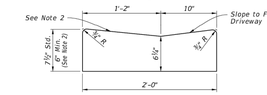


TYPE F

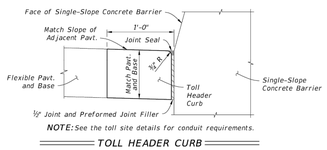


NOTE: Traffic Bearing Sections for use in Roundabout Central Island Construction.

TYPE RA

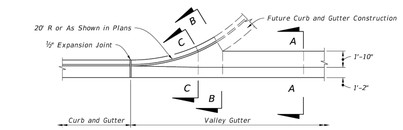


DROP CURB

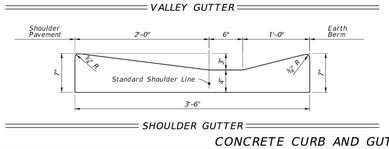


NOTE: See the toll site details for conduit requirements.

TOLL HEADER CURB



VALLEY GUTTER



SHOULDER GUTTER

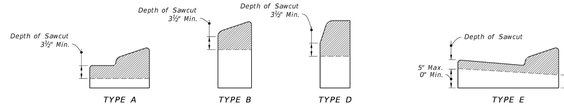
CONCRETE CURB AND GUTTER

LAST REVISION	DESCRIPTION:
11/01/21	

FDOT FY 2023-24 STANDARD PLANS

CURB AND GUTTER

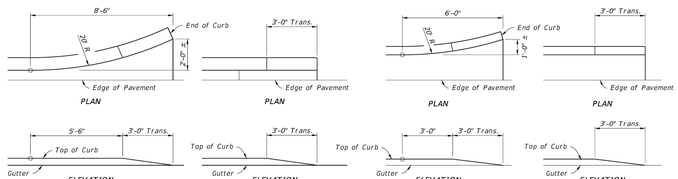
INDEX	SHEET
520-001	2 of 3



CONTRACTION JOINTS IN CURB

NOTE: Sawcuts should be avoided within valley gutter and within curb and gutter endings.

CONTRACTION JOINTS IN CURB & GUTTER

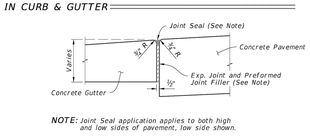


CURB TYPE A

CURB AND GUTTER TYPE E AND TYPE F

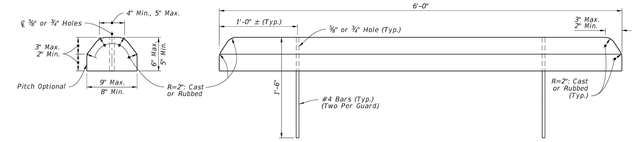
NOTE: Ends of Type B and D Curb transition from full to zero heights in 3 ft.

CURB AND CURB & GUTTER ENDINGS

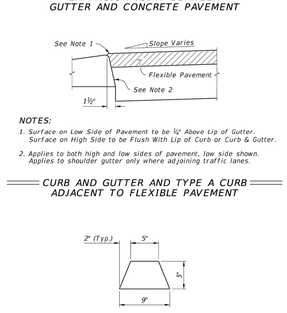


NOTE: Joint Seal application applies to both high and low sides of pavement, low side shown.

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT



CONCRETE BUMPER GUARD



NOTES:

1. Surface on Low Side of Pavement to be ¼" Above Lip of Gutter. Surface on High Side to be Flush With Lip of Curb or Curb & Gutter.
2. Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT

ASPHALTIC CONCRETE CURB

CURB AND GUTTER JOINTS AND ENDINGS, CONCRETE BUMPER GUARD, AND ASPHALTIC CONCRETE CURB

LAST REVISION	DESCRIPTION:
11/01/21	

FDOT FY 2023-24 STANDARD PLANS

CURB AND GUTTER

INDEX	SHEET
520-001	3 of 3

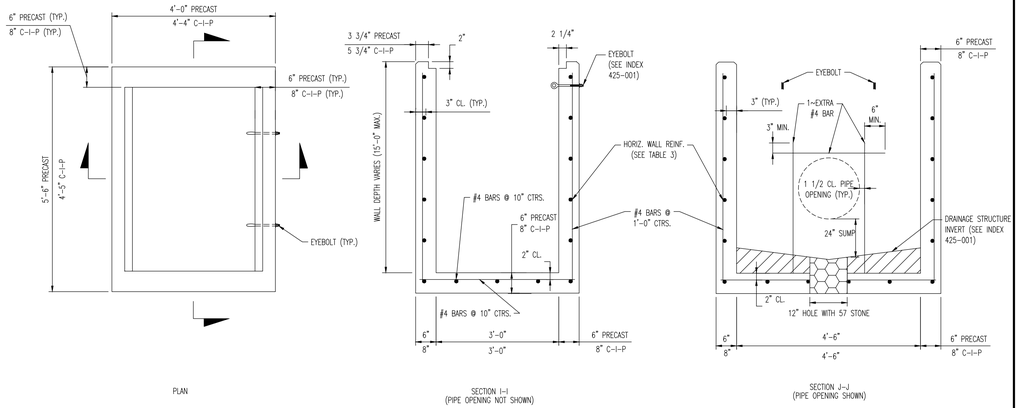


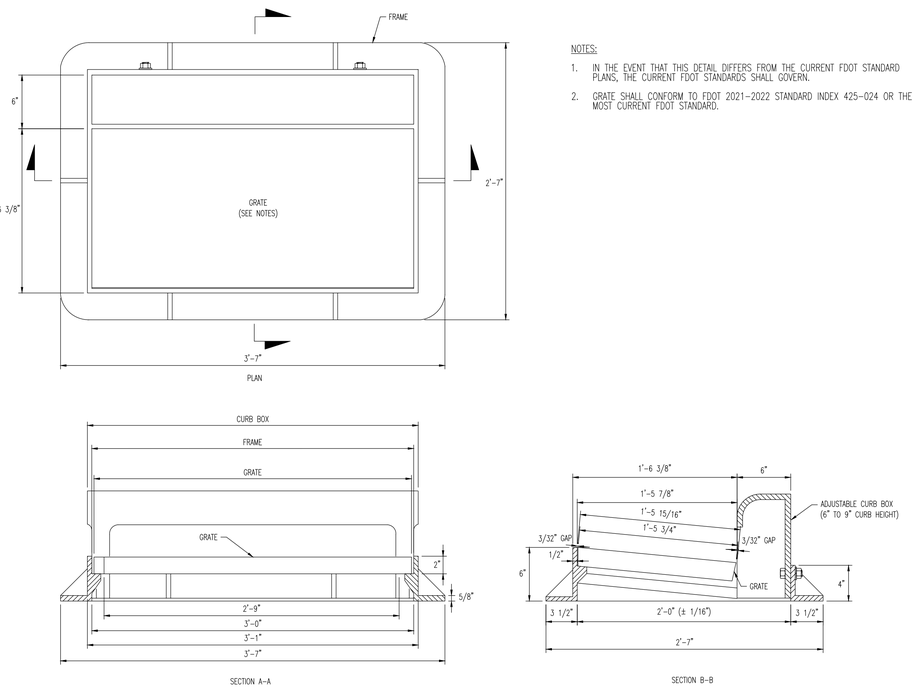
TABLE 3 HORIZONTAL WALL REINFORCING SCHEDULE				
WALL DEPTH	SCHEDULE	AREA (IN^2/FT.)	MAX. SPACING	
			BARS	WWR
0' – 5'	A12	0.20	12"	8"
0' – 7.5'	A6	0.20	6"	5"
7.5' – 10'	B5.5	0.24	5½"	5"
10' – 15'	C6.5	0.37	6½"	6"

NOTES:

1. EYEBOLTS AND CHAINS ARE OPTIONAL. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO PROCUREMENT AND INSTALLATION.
2. IN THE EVENT THAT THIS DETAIL DIFFERS FROM THE CURRENT FDOT STANDARD PLANS, THE CURRENT FDOT STANDARDS SHALL GOVERN.
3. IN AREAS WITH HIGH WATER TABLES THE 12" HOLE WITH #57 STONE SHALL NOT BE USED.
4. REINFORCEMENT STEEL SHALL CONFORM TO CURRENT FDOT STANDARD INDEX.

TYPE 'E' INLET DETAIL

NOT TO SCALE



NOTES:

1. IN THE EVENT THAT THIS DETAIL DIFFERS FROM THE CURRENT FDOT STANDARD PLANS, THE CURRENT FDOT STANDARDS SHALL GOVERN.
2. GRATE SHALL CONFORM TO FDOT 2021–2022 STANDARD INDEX 425–024 OR THE MOST CURRENT FDOT STANDARD.

TYPE '9' CURB INLET TOP DETAIL

NOT TO SCALE

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THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: KK
DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: –

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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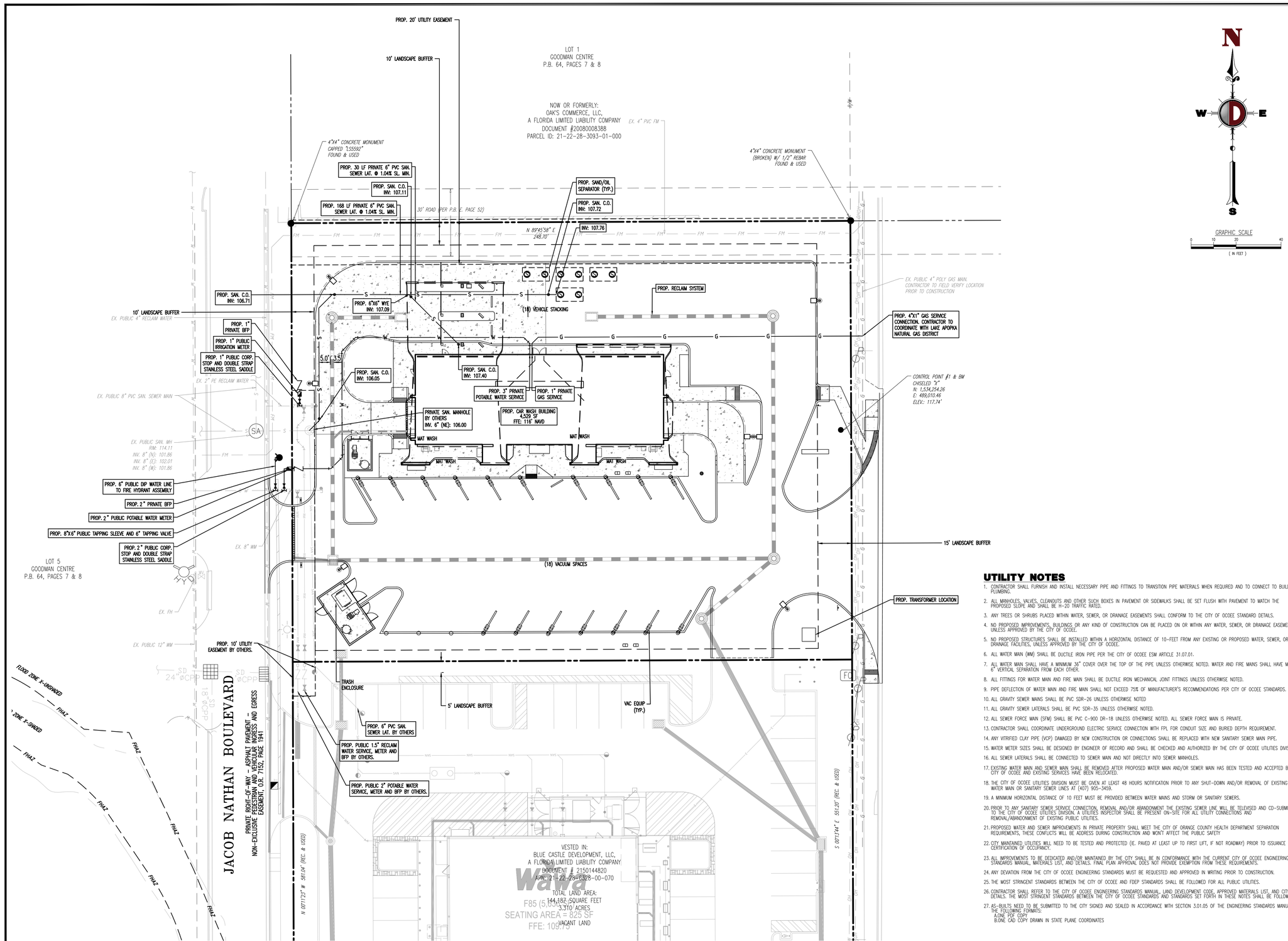
TITLE: PAVING GRADING & DRAINAGE DETAILS

ANGEL PIÑERO LUGO, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 88047, THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGEL PIÑERO LUGO, P.E. ON 08/06/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCALE: (H)NOT TO (V)SCALE
DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C3.02
Rev. #:

Plotted: 08/05/24 – 4:01 PM, By: jkaplan
File: P:\[EC]PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\05086230395SD0.dwg, ---> C3.02 PAVING GRADING & DRAINAGE DETAILS



UTILITY NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
2. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.
3. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF OCOEE STANDARD DETAILS.
4. NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER, OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF OCOEE.
5. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER, OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF OCOEE.
6. ALL WATER MAIN (WM) SHALL BE DUCTILE IRON PIPE PER THE CITY OF OCOEE ESM ARTICLE 31.07.01.
7. ALL WATER MAIN SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
8. ALL FITTINGS FOR WATER MAIN AND FIRE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
9. PIPE DEFLECTION OF WATER MAIN AND FIRE MAIN SHALL NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDATIONS PER CITY OF OCOEE STANDARDS.
10. ALL GRAVITY SEWER MAINS SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED
11. ALL GRAVITY SEWER LATERALS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
12. ALL SEWER FORCE MAIN (SFM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED. ALL SEWER FORCE MAIN IS PRIVATE.
13. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRIC SERVICE CONNECTION WITH FPL FOR CONDUIT SIZE AND BURIED DEPTH REQUIREMENT.
14. ANY VITRIFIED CLAY PIPE (VCP) DAMAGED BY NEW CONSTRUCTION OR CONNECTIONS SHALL BE REPLACED WITH NEW SANITARY SEWER MAIN PIPE.
15. WATER METER SIZES SHALL BE DESIGNED BY ENGINEER OF RECORD AND SHALL BE CHECKED AND AUTHORIZED BY THE CITY OF OCOEE UTILITIES DIVISION.
16. ALL SEWER LATERALS SHALL BE CONNECTED TO SEWER MAIN AND NOT DIRECTLY INTO SEWER MANHOLES.
17. EXISTING WATER MAIN AND SEWER MAIN SHALL BE REMOVED AFTER PROPOSED WATER MAIN AND/OR SEWER MAIN HAS BEEN TESTED AND ACCEPTED BY CITY OF OCOEE AND EXISTING SERVICES HAVE BEEN RELOCATED.
18. THE CITY OF OCOEE UTILITIES DIVISION MUST BE GIVEN AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUT-DOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES AT (407) 905-3459.
19. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET MUST BE PROVIDED BETWEEN WATER MAINS AND STORM OR SANITARY SEWERS.
20. PRIOR TO ANY SANITARY SEWER SERVICE CONNECTION, REMOVAL AND/OR ABANDONMENT THE EXISTING SEWER LINE WILL BE TELEVISED AND CD-SUBMITTED TO THE CITY OF OCOEE UTILITIES DIVISION. A UTILITIES INSPECTOR SHALL BE PRESENT ON-SITE FOR ALL UTILITY CONNECTIONS AND REMOVAL/ABANDONMENT OF EXISTING PUBLIC UTILITIES.
21. PROPOSED WATER AND SEWER IMPROVEMENTS IN PRIVATE PROPERTY SHALL MEET THE CITY OF ORANGE COUNTY HEALTH DEPARTMENT SEPARATION REQUIREMENTS, THESE CONFLICTS WILL BE ADDRESS DURING CONSTRUCTION AND WON'T AFFECT THE PUBLIC SAFETY
22. CITY MAINTAINED UTILITIES WILL NEED TO BE TESTED AND PROTECTED (E. PAVED AT LEAST UP TO FIRST LIFT, IF NOT ROADWAY) PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY.
23. ALL IMPROVEMENTS TO BE DEDICATED AND/OR MAINTAINED BY THE CITY SHALL BE IN CONFORMANCE WITH THE CURRENT CITY OF OCOEE ENGINEERING STANDARDS MANUAL, MATERIALS LIST, AND DETAILS. FINAL PLAN APPROVAL DOES NOT PROVIDE EXEMPTION FROM THESE REQUIREMENTS.
24. ANY DEVIATION FROM THE CITY OF OCOEE ENGINEERING STANDARDS MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO CONSTRUCTION.
25. THE MOST STRINGENT STANDARDS BETWEEN THE CITY OF OCOEE AND FDEP STANDARDS SHALL BE FOLLOWED FOR ALL PUBLIC UTILITIES.
26. CONTRACTOR SHALL REFER TO THE CITY OF OCOEE ENGINEERING STANDARDS MANUAL, LAND DEVELOPMENT CODE, APPROVED MATERIALS LIST, AND CITY DETAILS. THE MOST STRINGENT STANDARDS BETWEEN THE CITY OF OCOEE STANDARDS AND STANDARDS SET FORTH IN THESE NOTES SHALL BE FOLLOWED.
27. AS-BUILTS NEED TO BE SUBMITTED TO THE CITY SIGNED AND SEALED IN ACCORDANCE WITH SECTION 3.01.05 OF THE ENGINEERING STANDARDS MANUAL IN THE FOLLOWING FORMATS:
    A.ONE PDF COPY.
    B.ONE CAD COPY DRAWN IN STATE PLANE COORDINATES

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REV.	DATE	COMMENTS	BY

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DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: –

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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ÁNGEL PIÑERO
PROFESSIONAL ENGINEER
FLORIDA LICENSE No. 88047
DATE:

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TITLE: UTILITY PLAN

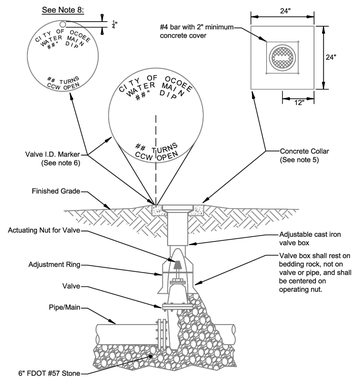
SCALE: (H) AS (V) NOTED
DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C4.00
Rev. #:

ANGEL PINERO LICO, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 88047. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGEL PINERO LUGO, P.E. ON 08/06/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Plotted: 08/05/24 – 4:01 PM, By: jkaplan
File: P:\DEPC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086230395950.dwg, ----> C4.00 UTILITY PLAN

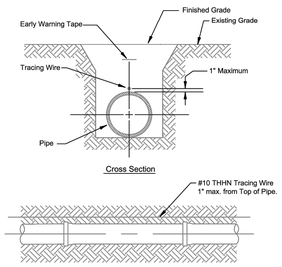
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NOTES:

1. PVC extensions shall not be used on valve box.
2. The actuating nut for valves shall be no deeper than 24" from ultimate finished grade.
3. Valve assembly shall include center spacing guide from the City's Approved Materials List.
4. Where valve nut is more than 36" below grade, valve assembly shall include an extension from the City's Approved Materials List.
5. Valve collar shall be 24" x 24" x 6" square pad and concrete for collar shall be fc' of 3,000 psi minimum @ 28 days for non-pavement areas.
6. Valve Marker shall be from the City's Approved Materials List and shall include "City of Ocoee", main type, size, material, turns to open or close valve, and direction of rotation.
7. Valve Box shall not be located in pavement, sidewalk, or driveway unless approved by the City. If approved, Contractor/Developer shall reach out to the Utilities Department on the location of the Valve Tags.
8. For Valve Box approved in pavement, a disk valve marker shall hang in the valve box anchored to the locating wire.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT009	Valve Box and Cover
DATE: June 2021	SCALE: N/A



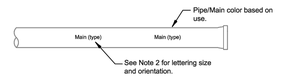
Cross Section

Transverse Section

NOTES:

1. All pipe shall include the installation of #10 THHN copper tracing wire capable of detection by cable locating equipment.
2. Tracing wire shall be buried directly above the transverse centerline of the pipe.
3. End(s) of the locating wire shall be such that wire can be accessed by locating equipment assessing the wire in a valve vault or blow-off box. Wire is required to extend 12" minimum above finished grade.
4. Unless approved by the City, early warning tape indicating the type of pipe shall be required.
5. All directional drill pipe shall have locating wire attached to the top of pipe and shall remain on the top of the pipe during installation.
6. All service lines shall have locating wire placed on the pipe as described in City of Ocoee detail UT206 "Utility Service Connection"
7. All wire splices shall be completed with twist-on type wire nuts with gel or grease filled moisture seal.
8. All tracing wire installation shall be tested and verified for continuity by the contractor prior to final acceptance

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT010	Pipe Locating Wire
DATE: April 2019	SCALE: N/A



PIPE LETTERING NOTES:

1. Lettering shall be per the American Water Works Association.
2. Lettering shall be a minimum of 3/4" in height and shall be be facing up when the pipe is installed.
3. Lettering must be permanently imbedded into the pipe/main, not painted or stenciled.
4. Lettering shall be of contrasting color to pipe/main color.

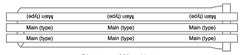
Pipe Marking (Lettering)
N.T.S.



Diameter = 2.5" to 4"
3" Tape centered along the top half of pipe.



Diameter = 6" to 16"
Two (2) 6" Tapes along both sides of top half of pipe.



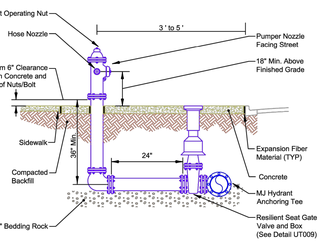
Diameter = 20" and larger
Three (3) 6" Tapes along top and both sides of top half of pipe.

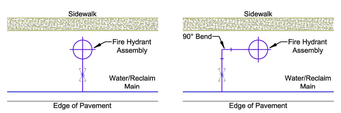
Warning Tape
N.T.S.

WARNING TAPE NOTES:

1. Tape color shall be in accordance with (same) as main/pipe color.
2. Tape lettering shall be at least 1" in height with no greater than 12" in spacing.
3. Warning tape shall extend total length of pipe.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT011	Pipe Identification & Warning Tape
DATE: April 2019	SCALE: N/A





Note:
1. Hydrants shall be painted with double coat enamel paint per the following:
   - Public Potable Water - Safety Yellow Pantone 13-0630TN
   - Reclaimed Water - Purple Pantone 522 C
   - Private Fire - Cherry Red HDC-MD-16
2. Concrete shear pad shall abut between sidewalk and curb. Where sidewalk is not present, concrete shear pad shall be approx. 7.5' x 3.5' min.
3. Concrete shall be 6" thick with fibermesh and shall be fc' of 3,000 psi minimum at 28 days.
4. Any deviation from this detail shall be made known to the City for approval.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT201	Fire Hydrant Assembly
DATE: June 2021	SCALE: n/a

PVC/HDPE Restraint Table							
Minimum Length (FT) to be Restrained on each side of Fitting(s)							
Fittings	Pipe Size						
	4"	6"	8"	10"	12"	16"	20"
90° Bend	18	24	32	38	44	55	74
45° Bend	10	10	13	16	18	23	31
22 1/2° Bend	10	10	10	10	10	11	15
11 1/4° Bend	10	10	10	10	10	10	10
Plug or Branch of Tee	30	47	64	81	98	133	167

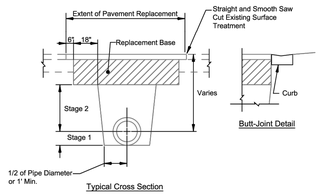
NOTES:

1. The restraint values as indicated by the "Restraint Table" are minimum values. Design engineer shall be responsible for confirming field conditions, and make adjustments accordingly.
2. All fittings shall have restrained joints unless otherwise indicated.
3. No restraints required if continuous pipe length to fitting is greater than value provided in "Restraint Table" above.
4. Where two or more fittings are laid in-line, use greatest restraint length for coverage.
5. For in-line valves and through run of tees: outside limits of restrained joints from other fittings need not be restrained unless otherwise indicated.
6. Lengths shown in the table have been calculated in accordance with the procedures outlined in "Thrust Restraint Design for Ductile Iron Pipe" as published by DIPRA, with the following assumptions:

   Working Pressure: 150 PSI
   Soil Designation: SM (Silty Sand, Sand-Silt Mix.)
   Laying Conditions: 5

7. For pipe sizes not included in the Restraint Table or pipe material not adhering to given conditions, design engineer shall determine and specify pipe lengths which shall be approved by the City.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT004	PVC/HDPE Pipe Restraint Table
DATE: April 2019	SCALE: N/A



Typical Cross Section

Butt-Joint Detail

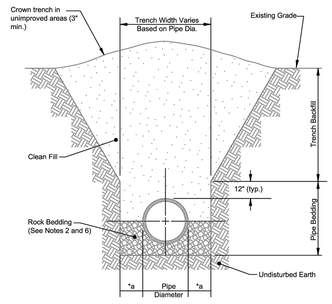
Stage Compactions:

1. Backfilling of trench shall be in six inch (6") maximum lifts.
2. Stage 1: Backfilling trench in Stage 1 shall use proper mechanical equipment to insure proper compaction throughout, including pipe haunches.
3. Stage 2: Backfilling trench in Stage 2 shall be to bottom of sub-grade.

NOTES:

1. All work and material for the Flexible Pavement Reconstruction shall be in accordance with the most current City of Ocoee - Engineering Standards Manual (available at OCOEE.ORG).
2. Any conflict between ESM specification and this sheet's specifications shall be resolved by the more stringent requirement.
3. Replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with requirements as set forth by the ESM.
4. Replacement asphalt shall be installed the to the full width of the travel lane.
5. Backfill and base material shall be clean and homogenous compacted to 98% of the maximum density per AASHTO T-180. Tack shall be added to the new base material prior to installing the replacement asphalt.
6. Base course shall be prepared in 6" lifts maximum, and thoroughly compacted.
7. Where trench line abuts existing curb(s), construct clean butt joint with curb. In the event curb is undermined and/or compromised, curb shall be replaced.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
PW002	Open Cut Flexible Pavement Replacement
DATE: July 2022	SCALE: N/A



*a See Note 3

NOTES:

1. Pipe bedding material and trench backfill shall be select common (clean) fill compacted to 95% (98% in roadway) of the maximum density as per AASHTO T-180.
2. Contractor shall install crushed rock (or equivalent bedding material) where pipe bedding does not provide solid support (yielding or plastic). Depth of material shall be a minimum of 6", or as needed, to provide non-yielding support for the pipe. All unsuitable material shall be removed from pipe bedding unless special provisions are approved by the City.
3. Excavated trench width at pipe haunch shall be sufficient in size for haunch compaction, but shall be no greater than 15" on each side of pipe for pipes less than 24" in diameter (24" for pipes 24" in diameter or greater.)
4. Water shall not be permitted in trench line during construction.
5. Pipe line shall be installed with bell fitting facing upgrade.
6. Gravity sewer shall have a 6" minimum rock bed.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT001	Pipe Bedding and Trench
DATE: September 2019	SCALE: N/A

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BY	COMMENTS	DATE	REV.

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CHECKED BY: —

PROJECT: AQUASONIC CAR WASH
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CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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TITLE: UTILITY DETAILS

SCALE: (H)NOT TO (V)SCALE
DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C4.01
Rev. #:

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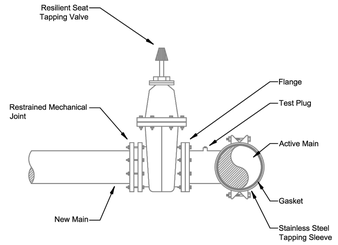
Pipes/Mains Separation Requirement Table (See Note 11 for Structural)									
	Potable		Reclaimed		Sanitary Sewer		Storm Sewer		Structural
	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.
Potable			3'	12"	10'	18"	3'	18"	10'
Reclaimed	3'	12"			3'	12"	3'	12"	10'
Sanitary Sewer	10'	18"	3'	12"			3'	12"	10'
Storm Sewer	3'	18"	3'	12"	3'	12"			10'

Joint Spacing Requirement Table (See Note 2)					
	Potable	Reclaimed	Sanitary Sewer	Storm Sewer	
Potable		3'	6'	3'	

NOTES:

1. The table above represents the minimum separation requirements as described in the City's Engineering Standards Manual. The most stringent requirements between the City's Standards and the guidelines set forth in the Florida Administrative Code 62-555.314 (F.A.C). shall apply between newly proposed utility lines and existing or proposed utility lines.
2. Joint spacing shall be based on one full length water main pipe centered above or below other pipes. The joint shall be no less than the required distance from the center of the crossing of the two pipes. (The water pipe shall be above the other pipe unless otherwise approved by the City.)
3. Where the City's minimum vertical and horizontal separation from potable water cannot be achieved from the outside of the potable water pipe and the outside of the other pipe/main, preferred separation in accordance with F.D.E.P. rules of the Florida Administrative Code 62-555.314 (F.A.C.) and 62-604.400 (F.A.C.) may be allowed upon approval by the City's Utilities Department.
   a. If it is not technically feasible or economically sensible to comply with the requirements set forth in 62-555.314 (F.A.C.), technical or economic justification for each exception must be submitted to F.D.E.P. with alternative construction features. Proof of F.D.E.P.'s approval for exceptions shall be submitted to the City.
4. For the purpose of this table, reclaimed water shall mean unrestricted public access reuse water as defined by F.A.C. 62-610. Other types of reclaimed water, not treated to public contact levels, shall be considered raw sewage, and the separation list for sanitary sewer shall apply.
5. Alternative water, such as storm water used for irrigation, shall be considered reclaimed water for separation requirements.
6. Pipe separation distance provided above shall mean the horizontal and/or vertical distance measured for the outside dimension of each pipe/main.
7. All Sanitary and Storm Structures shall follow separation requirements above.
8. Potable water pipes shall be laid above all pipes conveying raw sewage whenever they cross.
9. All utilities shall be installed with 36" of cover over the top of pipe. Cover shall be measured with current or future grading to ensure the 36" coverage.
10. No potable water pipe may pass through a sanitary sewer structure. Penetration through storm sewer must be approved by the City and is subject to special conditions and materials.
11. Structural shall refer to foundations, walls, etc. Additional separation shall be required by the City for construction of, including, but not limited to: live loads, multi-story commercial buildings, superstructures, embankments, retaining walls, bridges, railroads, high voltage transmission mains, gas mains, etc.

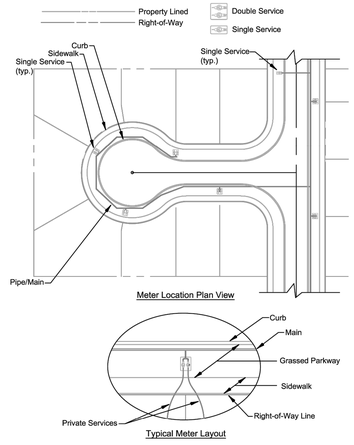
DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT013	Pipe Separation Requirement Table
DATE: November 2022	SCALE: N/A



NOTES:

1. All Sleeves and Valves shall be water tested before tap.
2. No Wet Tap on Asbestos Cement water mains.
3. For Valve Box and Cover, see Ocoee UT009 Valve Box and Cover Detail.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT205	Stainless Steel Tapping Saddle and Gate Valve Assembly Water and Reclaim
DATE: Feb. 2020	SCALE: N/A



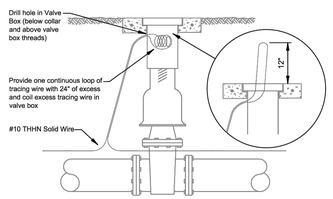
Meter Location Plan View

Typical Meter Layout

NOTES:

1. Pipes/mains in this detail are for representation purposes only. Refer to plan or utility sheets for pipes/main material, size, and configuration.
2. For meter configuration, including fittings and box, see City of Ocoee Meter and Meter Box Details UT207 for Single Family and UT208 for Commercial/Multi-Family.
3. Unless directed by City, reclaimed and potable meter boxes shall be separated by placing the boxes at opposite property lines.
4. Meters should be centered in grassed parkway, if possible, offset from front of sidewalk 2', and such that private service will not cross adjacent lot.

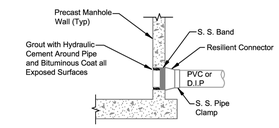
DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT207	Meter & Service Locations
DATE: April 2019	SCALE: N/A



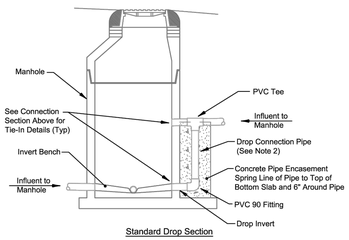
NOTES:

1. All pipe shall be installed with # 10 THHN solid copper tracing wire. Tracing wire must be installed directly above the pipe in a continuous circuit.
2. Tracing wire shall cover all main, pipe, branches (including fire hydrants) and service connections.
3. Tracing wire shall extend a minimum of 12" above grade at required intervals and/or valve lids.
4. Tracing wire shall be coiled and placed in a valve box and shall be easily accessible.
5. At dead ends of mains, pipe, and/or service, the tracing wire shall be placed in a properly identified cast iron valve box (Valve Box and Cover Detail UT009).

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT012	Tracing Wire Location
DATE: April 2019	SCALE: N/A



Pipe Connection for Pipes Less Than 24" Section

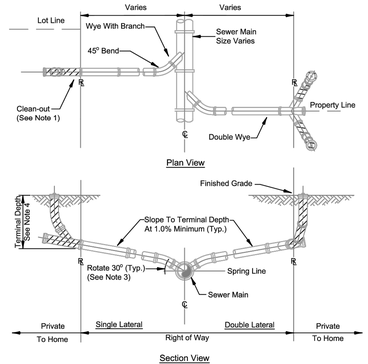


Standard Drop Section

NOTES:

1. For manhole covers, see UT103 Standard Manhole Ring and Cover Detail and UT104 Large & Receiving Manhole Ring and Double Cover Detail.
2. Drop pipe and fittings shall be of equal size and material to the influent sewer line.
3. The drop connection provided above is limited to pipe size less than 24". Alternative design must be approved by City for pipe sizes equal or greater than 24" in diameter.
4. An outside drop connection is required for all influent lines 18" or more above the manhole inverts.
5. Bottom elevation of drop shall be 0.1' above effluent invert.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT102	Sanitary Sewer Connection
DATE: July 2019	SCALE: N/A



Plan View

Section View

NOTES:

1. Clean-out (shown hatched) shall be installed by the builder in accordance with standard plumbing code.
2. Locate clean-outs as close to the property line as possible.
3. Invert of service lateral shall not enter sewer main below spring line.
4. The minimum terminal depth as required for house service is 3'.
5. Service Laterals shall be a minimum of 6" for non-residential scenarios. In residential areas, service laterals shall be a minimum of 4" to the right-of-way and then 6" to the sewer main.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT105	Service Lateral
DATE: April 2019	SCALE: N/A

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PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
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ÁNGEL PIÑERO
PROFESSIONAL ENGINEER
FLORIDA LICENSE No. 88047
DATE:

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TITLE: UTILITY DETAILS

ANGEL PIÑERO LUGO, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 88047, THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGEL PIÑERO LUGO, P.E. ON 08/05/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCALE: (H)NOT TO (V)SCALE | DATE: 07/31/2024
PROJECT No: 5086-23-03959
SHEET No: C4.02 | Rev. #:

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Plotted: 08/05/24 – 4:01 PM, By: jkaplan
File: P:\DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086203959SD0.dwg, ---> C4.02 UTILITY DETAILS

D.I.P. Restraint Table						
Minimum Length (FT) to be Restrained on Each Side of Fitting(s)						
Fittings	Pipe Size					
	4"	6"	8"	10"	12"	16"
90° Bend	15	21	27	32	37	47
45° Bend	7	5	11	13	16	20
22 1/2° Bend	5	5	6	7	8	10
11 1/4° Bend	5	5	5	5	5	6
Plug or Branch of Tee	30	47	64	81	98	133

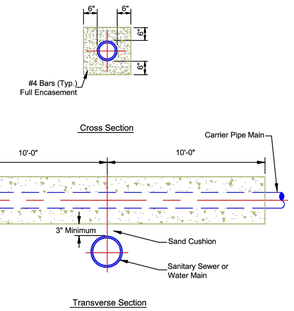
NOTES:

1. The restraint values as indicated by the "Restraint Table" are minimum values.Design engineer shall be responsible for confirming field conditions, and make adjustments accordingly.
2. All fittings shall have restrained joints unless otherwise indicated.
3. No restraints required if continuous pipe length is greater than value provided in "Restraint Table" above.
4. Where two or more fittings are laid in-line, use greatest restraint length for coverage.
5. For in-line valves and through run of tees: outside limits of restrained joints from other fittings need not be restrained unless otherwise indicated.
6. Lengths shown in the table have been calculated in accordance with the procedures outlined in "Thrust Restraint Design for Ductile Iron Pipe" as published by DIPRA, with the following assumptions:

   Working Pressure: 150 PSI
   Soil Designation: SM (Silty Sand, Sand-Silt Mix.)
   Laying Conditions: 5

7. For pipe encased in polyethylene, use values given in parentheses or increase the given value by 150%.
8. For pipe sizes not included in the Restraint Table or pipe material not adhering to given conditions, design engineer shall determine and specify pipe lengths which shall be approved by the City.

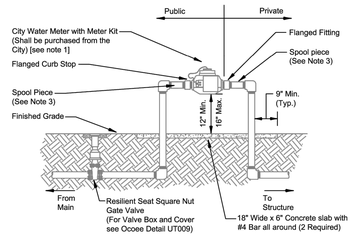
DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT005	Ductile Iron Pipe Restraint Table
DATE: April 2019	SCALE: N/A



NOTES:

1. Use encasement where vertical clearance between water main and sewer is less than 12". Ductile iron pipe may be used in lieu of concrete encasement at sewer line crossing with a length of pipe centered at the point of crossings, so as to locate joints at a maximum distance from the sewer line
2. Encasement placement to be used where minimum separation as indicated in Detail UT013 cannot be met and must be reviewed and approved by City prior to placement

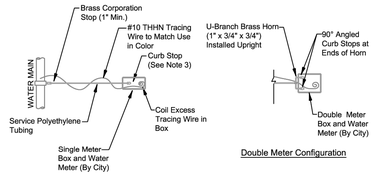
DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT003	Utility Crossing Concrete Encasement
DATE: April 2019	SCALE: N/A

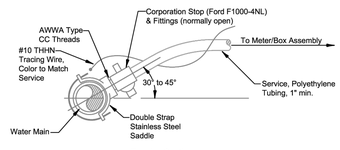


NOTES:

1. Contractor shall be responsible for installing City water meter matching pipe size with meter kit and shall supply and install all materials.
2. All pipes, fittings, and end valves as indicated as private shall be the responsibility of the owner. All pipes and fittings indicated as public with material not indicated shall be brass or schedule 80 PVC.
3. Spool piece length shall be a minimum of five times the diameter of the pipe.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT209c	1 1/2" and Larger Commercial/Multi-Family Meter Configuration (Reclaimed Water)
DATE: June 2021	SCALE: N/A

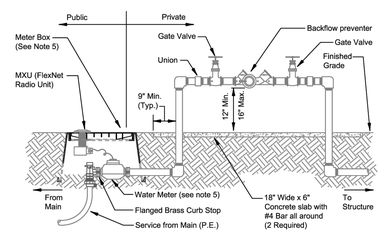




NOTES:

1. All fittings shall be brass with compression-pack joint type connections.
2. No service line shall extend or terminate under a driveway.
3. Meter end of service shall terminate with curb stop (90°) for single service and dual horn and curb stops (90°)for dual services.
4. Meter end of service shall terminate 3' past meter location where service shall, unless directed otherwise, extend 3' above finished grade tied to a 2" x 4" x 4' stake. If directed, service connection shall be buried and located with an 2" x 4" x 4' painted marker. Stake or marker shall indicate lot(s) to be served.
5. Concrete curb shall be marked (stamped or saw-cut) with "W" locating service.
6. Service connection to the main shall use approved saddle, and tapping of main shall be by a method where a solid coupon is removed.
7. Services installed under finished or existing pavement shall be directionally drilled.
8. Upon approval, direct tap (no saddle) may be used on Ductile Iron Pipe.
9. Service color shall be blue for potable water and purple (magenta) for reclaimed water.

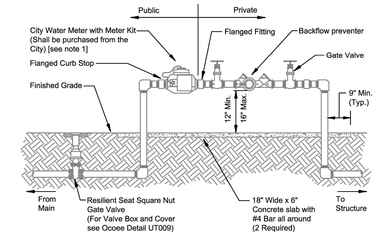
DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT206	Water and Reclaim Service Connection
DATE: Sep. 2019	SCALE: N/A



NOTES:

1. Contractor shall be responsible for supplying and installing all materials and backflow prevention device except City's water meter and box.
2. Backflow device shall only be required for potable water services and be per the City's Cross Connection Control Manual.
3. All pipes, fittings, and end valves as indicated as private shall be the responsibility of the owner. All fittings indicated as public with material not indicated shall be brass.
4. Contractor shall tape service (P.E.) on a stake as shown in UT208a Single Family Residential Service with an approved 90 degree curb stop and meter nut connection
5. The City shall install the water meter and box and make required connections.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT209a	3/4" and 1" Commercial/Multi-Family Meter Configuration
DATE: June 2021	SCALE: N/A



NOTES:

1. Contractor shall be responsible for installing City water meter matching pipe size with meter kit and shall supply and install all materials and backflow prevention device.
2. Backflow device shall be per the City's Cross Connection Control Manual.
3. All pipes, fittings, and end valves as indicated as private shall be the responsibility of the owner. All pipes and fittings indicated as public with material not indicated shall be brass or schedule 80 PVC.

DETAIL NO.	CITY OF OCOEE CONSTRUCTION DETAILS
UT209b	1 1/2" and Larger Commercial/Multi-Family Meter Configuration
DATE: June 2021	SCALE: N/A

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REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: KK
DESIGNED BY: EC
CHECKED BY: AP
CHECKED BY: —

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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SCALE: (H)NOT TO (V)SCALE
DATE: 07/31/2024
PROJECT No: 5086-23-03959

SHEET No: C4.03
Rev. #:

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File: P:\DEC\PC PROJECTS\5086 Spotless Wash Solutions\23-03959 Ocoee FL\Dwg\Entitlements\D5086203959SD0.dwg, ---> C4.03 UTILITY DETAILS

PLANTING BED NOTES:

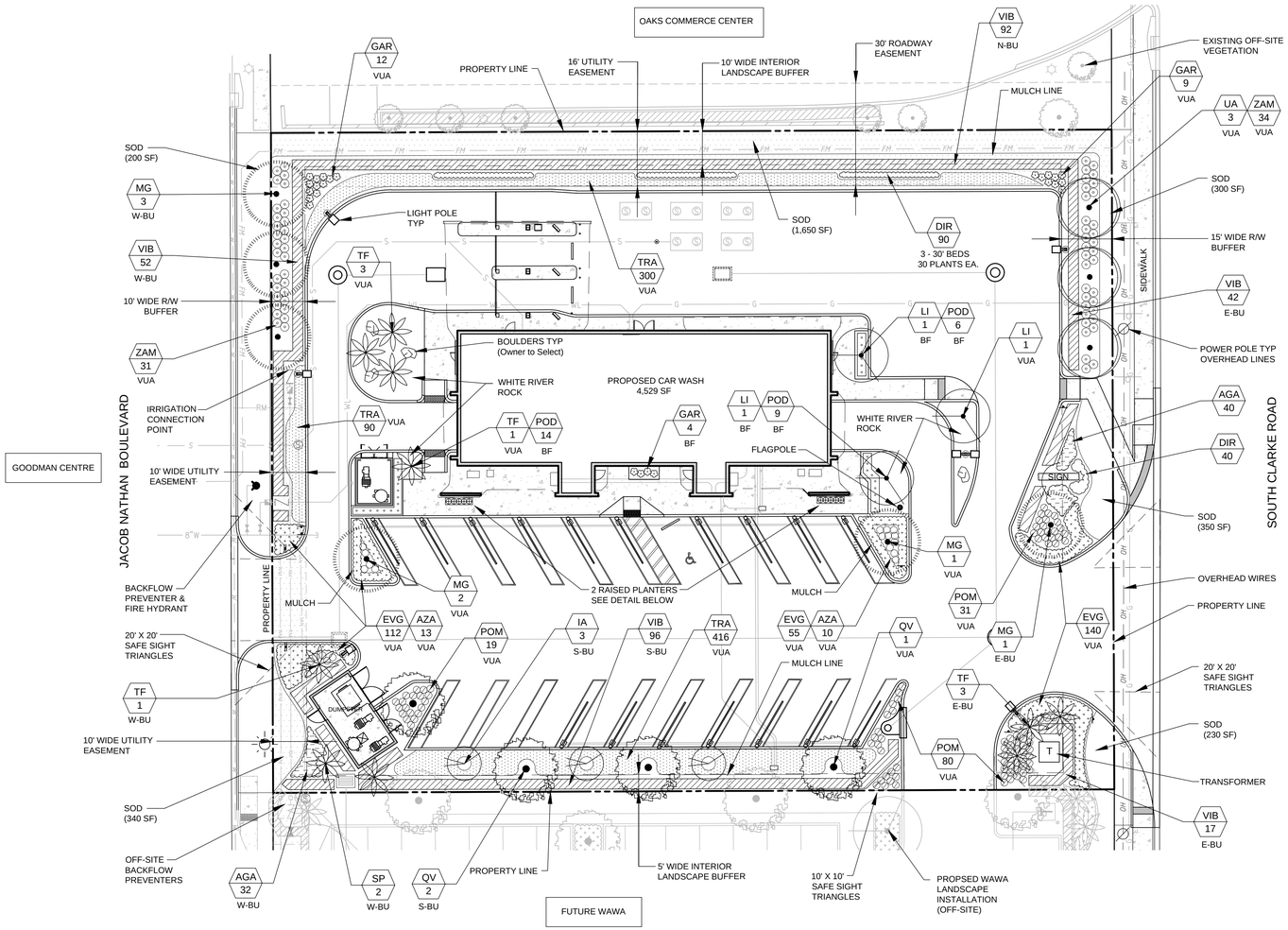
1. APPLY PRE-EMERGENT HERBICIDE IN ALL PLANTING BEDS AND TREE CIRCLES PRIOR TO MULCHING.
2. ALL PROPOSED SHRUB AND TREE PLANTING AREAS WILL RECEIVE BLACK PLASTIC EDGING BETWEEN GRASS AREAS AND ROCK MULCHED BEDS. ALL BEDS WILL BE MULCHED WITH 1" - 3" WHITE RIVER ROCK OVER FILTER FABRIC.

TREE MITIGATION NOTES:

1. NO TREES WILL BE REMOVED AS PART OF THIS PROJECT. THE SITE WAS PREVIOUSLY CLEARED.

PLANT TAG LEGEND:

VUA - VEHICULAR USE AREA (REQUIRED)
BU - BUFFER (REQUIRED)
BF - BUILDING FOUNDATION (REQUIRED)



LANDSCAPE CALCULATIONS:

- SITE DATA
  ZONING - PUD-COMMERCIAL
  LOT AREA - 48,567 SF (1.1 AC.)
  BUILDING - 4,529 SF
  VEHICULAR USE AREA - 27,254 SF
  OPEN LANDSCAPE SPACE - 13,447 SF (27%)
- INTERIOR VEHICULAR USE AREA LANDSCAPE (VUA) (SEC 6-14):
  REQUIRED - 1 TREE, SHRUBS & GROUND COVER PER ISLAND = 4 TREES & SHRUBS
  PROPOSED - 1,559 SF LANDSCAPE AREA, 4 TREES, SHRUB ISLANDS
- PERIMETER LANDSCAPE BUFFERS (SEC 6-14):
  NORTH - 10' INTERIOR LOT BUFFER = 223 LF
  REQUIRED - 1 TREE / 50 LF, CONTINUOUS HEDGE AT 36" SPACING= 5 TREES
  PROPOSED - 0 TREES (EXISTING UTILITY EASEMENT), CONTINUOUS HEDGE AT 30" SPACING
  SOUTH - 5' INTERIOR LOT BUFFER = 223 LF - 27' DRIVE = 196 LF
  REQUIRED - 1 TREES / 50 LF, CONTINUOUS HEDGE AT 36" SPACING = 4 TREES
  PROPOSED - 4 TREES, CONTINUOUS HEDGE AT 30" SPACING
  EAST - 15' R/W BUFFER = 195 LF - 59' DRIVE = 136 LF
  REQUIRED - 1 TREE / 30 LF, CONTINUOUS HEDGE AT 36" SPACING = 5 TREES
  PROPOSED - 2 LG TREES, 3 ACCENT TREES (UNDER WIRES) CONTINUOUS HEDGE AT 30" SPACING
  WEST - 15' R/W BUFFER = 195 LF - 25' DRIVE = 170 LF
  REQUIRED - 1 TREES / 30 LF, CONTINUOUS HEDGE AT 36" SPACING = 6 TREES
  PROPOSED - 5 LG TREES, 1 ACCENT TREE (UTILITY CONFLICT) CONTINUOUS HEDGE AT 30" SPACING
- NATIVE PLANT REQUIREMENTS:
  REQUIRED - 40% MIN. NATIVE TREES — PROPOSED - 76%
  40% MIN. NATIVE SHRUBS — PROPOSED - 68%
  30% MAX. PALM SUBSTITUTION — PROPOSED - 10%

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
TREES				
MG*	7	Magnolia grandiflora 'Brackens'	Southern Magnolia	14' Ht x 5' Spr, 3" DBH, B&B
QV*	3	Quercus virginiana 'Catherdal'	Live Oak	14' Ht x 5' Spr, 3" DBH, B&B
UA*	3	Ulmus alata	Winged Elm	14' Ht x 5' Spr, 3" DBH, B&B
IA*	3	Ilex x attenuata 'East Palatka'	East Palatka Holly	10' Ht x 4' Spr, 2" DBH, B&B
LI	3	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' Ht x 4' Spr, 2" DBH, STD, B&B
HIB	4	Hibuscus spp.	Hibiscus (White)	10G, 48" Ht x 24", STD, In Planters
PALMS				
SP*	2	Sabal palmetto	Sabal Palm	10' Clear Wood, Slick (3:1 Credit)
TF	8	Trachycarpus fortunei	Windmill Palm	10' Clear Wood (3:1 Credit)
SHRUBS				
VIB*	299	Viburnum obovatum	Walter's Viburnum	10G, 24" Ht x 18", 30" On Center
POM	130	Podocarpus macrophyllus 'Pringles'	Dwarf Podocarpus	3G, 20" Ht x 18", 24" On Center
GAR	25	Gardenia jasminoides	Gardenia	3G, 24" Ht x 24", 30" On Center
POD	29	Podocarpus macrophyllus var. Maki	Maki Podocarpus	3G, 24" Ht x 24", 30" On Center
AZA	23	Azalea spp.	Azalea (Pink)	3G, 18" Ht x 18", 24" On Center
GROUND COVER				
ZAM*	69	Zamia floridana	Coontie	3G, 12" Ht x 24", 30" On Center
DIR	130	Dietes iridiodes	African Iris	3G, 18" Ht x 12", 12" On Center
AGA	82	Agapanthus africanus	African Lily	3G, 18" Ht x 12", 12" On Center
EVG	307	Evolvulus glomeratus	Blue Daze	1G, 10" Ht x 18", 18" On Center
TRA	806	Trachelospermum asiaticum	Asiatic Jasmine	1G, 10" Spr, 18" On Center
LIR	32	Liriope muscari	Liriope	1G, 10" Spr, In Planters
LAWN				
SOD	3,500 SF **	Paspalum notatum	Argentine Bahia	Tight Joints, Neat, Level
MULCH				
MULCH	TBD	3" Depth Layer of 1" - 3" White River Rock (All Planting Beds)		

* NATIVE SPECIES - HIGH DROUGHT TOLERANCE (OTHERS MEDIUM DROUGHT TOLERANCE)

** CONTRACTOR TO VERIFY SQUARE FOOTAGE - INCLUDING DAMAGED SOD OFF-SITE TO BE REPLACED

GENERAL LANDSCAPE NOTES:

1. NO REFERENCE TO ENGINEERING SHOULD BE MADE FROM THIS SHEET. SHEET(S) ARE FOR LANDSCAPE REFERENCE ONLY.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND WRITTEN SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL BY THE OWNER'S REP.
3. THE LANDSCAPE PLANTINGS SHALL BE INSTALLED IN COMPLIANCE WITH EXISTING CODES AND APPLICABLE DEED RESTRICTIONS OR REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MATERIALS AND QUANTITIES PRIOR TO BIDDING, AND NOTIFY OWNER'S REP OF ANY PLAN DISCREPANCIES PRIOR TO CONSTRUCTION. RESOLUTION OF DISCREPANCIES FOUND DURING CONSTRUCTION SHALL BE IN FAVOR OF THE OWNER.
5. ANY DEVIATION FROM PLANT QUANTITY, SIZE OR GRADE MAY JEOPARDIZE THE CERTIFICATE OF OCCUPANCY.
6. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSIONS ARE MINIMUMS ONLY. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. OWNER'S REP SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS.
7. CONTRACTOR TO NOTIFY 'SUNSHINE STATE ONE CALL OF FLORIDA, INC AT 800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
8. THE HEALTHY, NEAT, AND ORDERLY APPEARANCE OF ALL REQUIRED LANDSCAPING MATERIALS IS THE CONTINUAL RESPONSIBILITY OF THE PROPERTY OWNER AFTER FINAL ACCEPTANCE.
9. NO TREES OR BUSHES SHALL BE PLACED IN TOP OF OR IN CLOSE PROXIMITY TO PUBLIC UTILITUES THAT WILL IMPACT UTILITIES AT MATURITY.

LANDSCAPE AND ROOT BARRIER NOTES:

1. TREE LOCATION AND SPACING IS BASED ON DESIGN REQUIREMENTS AND THE THE TREES SHOWN ON THIS PLAN ATTEMPT TO ACCOMPLISH SPACING REQUIREMENTS WHILE MAINTAINING THE REQUIRED SETBACKS FROM PUBLIC UTILITIES. IN ANY CASE THE TREES SHALL BE PLANTED IN ACCORDANCE WITH THE PLANT SHOWN ON THE PLANTING DETAILS SHEET.
2. TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY PAVING OR PUBLIC WATER, SEWER MAIN SERVICE, OR LIFT STATIONS. IF A TEN FOOT (10') CLEARANCE CANNOT BE ACHIEVED, SPACING CAN BE REDUCED TO SEVEN FOOT (7') IF INSTALLED WITH A 48" DEEP CONTINUOUS APPROVED ROOT BARRIER SYSTEM. HOWEVER, IN NO CASE SHALL A TREE ENCROACH INTO AN EASEMENT WITHOUT PRIOR APPROVAL AND ONLY SOD CAN BE INSTALLED WITHIN 7.5 FEET OF A FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL.

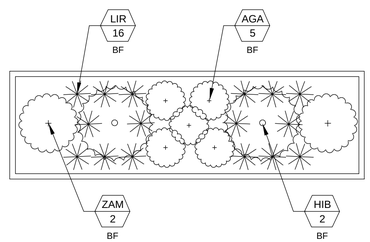
GENERAL IRRIGATION NOTE:

1. AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM WILL BE DESIGNED TO PROVIDE HEAD TO HEAD OVERLAP ON ALL NEW LANDSCAPE PLANTINGS.
2. THE SYSTEM WILL BE CONTROLLED BY A SMART CONTROLLER WITH A RAIN SENSOR FOR WATER CONSERVATION. THE WATER SOURCE WILL BE MUNICIPAL POTABLE WATER WITH A SEPARATE METER AND BACKFLOW PREVENTER.
3. THE SYSTEM WILL BE DESIGNED WITH HYDROZONES AND WATER WILL BE PROVIDED BY CONVENTIONAL POP-UP SPRAY HEADS. ALL TREES AND PALMS WILL BE WATERED WITH BUBBLERS ON SEPARATE ZONES.

RAISED PLANTER PLANTING PLAN

NOTE:

1. SEE DETAIL SHEET LP-3 FOR PLANTER DESIGN AND LAYOUT
2. QUANTITIES REPRESENT ONE PLANTER (SITE HAS 2 PLANTERS)



GRAPHIC SCALE
0 10 20 40
(IN FEET)
Scale 1"=20'

Scott John Barber
2024.07.31
16:55:01 -04'00'

SCOTT BARBER DESIGNS P.A.
LANDSCAPE ARCHITECTURE & PLANNING
LC-26000593
1551 WYNDCLIFF DRIVE
WELLINGTON, FL 33414
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REV.	DATE	COMMENTS	BY
2	7/31/24	SITE PLAN REVISION	SB
1	5/9/24	SITE PLAN REVISION	SB

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DRAWN BY: SJB
DESIGNED BY: SJB
CHECKED BY: SJB
CHECKED BY: AP

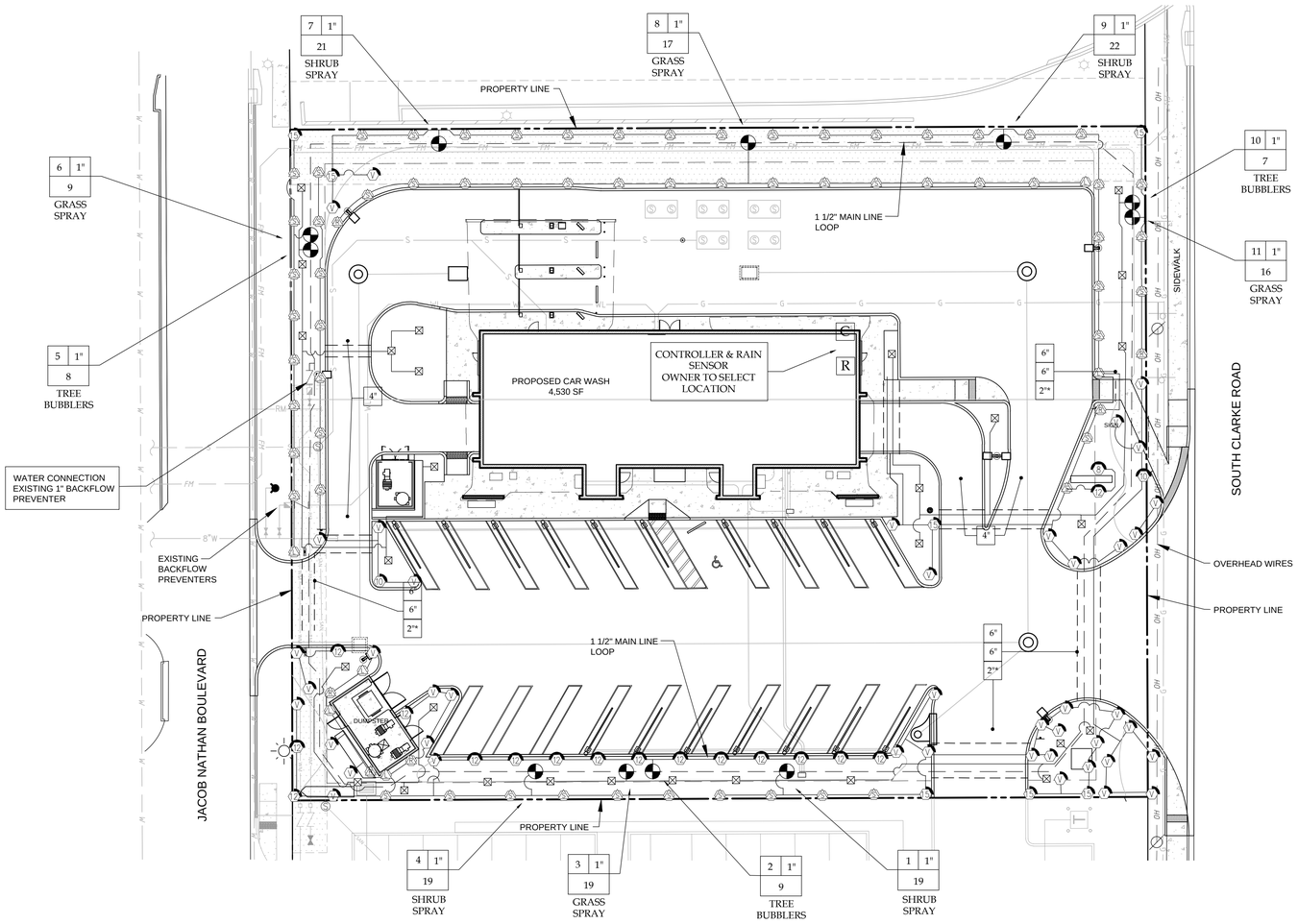
PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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TITLE: LANDSCAPE PLAN

SCALE: (H) AS (V) NOTED
DATE: 4/22/24
PROJECT No: 24.020.08

SHEET No: LP-1
Rev. #: 1



IRRIGATION SCHEDULE

(CONTRACTOR TO VERIFY QUANTITIES)

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS
	Hunter PROS-06-PRS30	RST/LST	25	.47	4'x15'
	Hunter PROS-06-PRS30	SST	25	1.11	4'x30'
	Hunter PROS-06-PRS30	10Q 90	25	.35	9'
	Hunter PROS-06-PRS30	12Q 90	25	.63	11'
	Hunter PROS-06-PRS30	12H 180	25	1.20	11'
	Hunter PROS-06-PRS30	15Q 90	25	.93	14'
	Hunter Var. Adj. Nozzle	Van Var.	25		
	Hunter PCB Flood Bubbler		25	1.00	3'

C — Hunter Pro-C Controller (Outdoor model)
(Mount on building, coordinate electrical service by others)

R — Hunter WSS-SEN, wireless rain sensor
(Mount on roof parapet)

Existing Backflow Preventer (By Others)

Hunter ICV-101G - 1 " Plastic Industrial Zone Valve, Globe Configuration

Valve Callout

#* — Valve Number (* = Drip Zone)
#" — Valve Size
— Valve Flow

Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. See pipe sizing chart

Irrigation Mainline: PVC Schedule 40 (1 1/2")

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.

Pipe Sleeve #"
Wire Sleeve #"*

PIPE SIZING CHART

SIZE PIPE SO NOT TO EXCEED A MAXIMUM FLOW OF 5 FEET PER SECOND (fps)
PIPE SIZE GUIDELINE:
3/4" (0-9 GPM)
1" (10-16 GPM)
1 1/4" (16-25 GPM)
1 1/2" (25-35 GPM)
2" (35-52 GPM)

SYSTEM SCHEDULE

No.	TYPE	SIZE	GPM	PRECIP (IN/HR)	RUN TIME (Min.)
ZONE 1	SHRUB SPRAY	1"	19	1.5	26
ZONE 2	TREE BUBBLERS	1"	9	1 Gal/Min.	10
ZONE 3	GRASS SPRAY	1"	19	1.5	52
ZONE 4	SHRUB SPRAY	1"	19	1.5	26
ZONE 5	TREE BUBBLERS	1"	8	1 Gal/Min.	10
ZONE 6	GRASS SPRAY	1"	9	1.5	52
ZONE 7	SHRUB SPRAY	1"	21	1.5	26
ZONE 8	GRASS SPRAY	1"	17	1.5	52
ZONE 9	SHRUB SPRAY	1"	22	1.5	26
ZONE 10	TREE BUBBLERS	1"	7	1 Gal/Min.	10
ZONE 11	GRASS SPRAY	1"	16	1.5	52

NOTE: DAILY OPERATION FOR 60 DAY ESTABLISHMENT PERIOD, AFTER 3 DAYS PER WEEK OR PER LOCAL REGULATIONS, WHICH EVER IS MORE RESTRICTIVE.

GENERAL IRRIGATION NOTES

1. PROVIDE AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH HEAD TO HEAD OVERLAP. THE SYSTEM IS DESIGNED IN HYDRO-ZONES BASED ON PLANTING ARRANGEMENT. THE WATER SOURCE WILL BE A WATER MAIN CONNECTION PROVIDING APPROXIMATELY 30 GPM @ 50 PSI. DISTRIBUTION WILL BE THROUGH A CONVENTIONAL POP-UP STYLE SPRAY HEADS AND FLOOD BUBBLERS ON TREES. A RAIN SENSOR WILL BE PROVIDED TO AID IN WATER CONSERVATION.
2. THE MAIN LINE CONNECTION IS SCHEMATIC ONLY. THE CONTRACTOR SHALL VERIFY THE METER LOCATION, AND INSTALL THE MAINLINE APPROPRIATELY WITHIN THE PROPERTY LANDSCAPE AREAS.
3. CONTRACTOR TO PROVIDE ELECTRICAL CONNECTION FOR THE CONTROLLER. COORDINATE LOCATION OF CONTROLLER WITH OWNER. LOCATION ON PLANS IS CONCEPTUAL FOR PLANNING PURPOSES.
4. INSTALL VALVE BOXES IN PLANTING BEDS WHERE PRACTICAL.
5. TO AVOID OVERSPRAY, NO AREAS LESS THAN 4' WIDE SHALL BE IRRIGATED WITH SPRAY HEADS OR ROTORS. TREE BUBBLERS, TURF, AND SHRUBS SHALL BE IRRIGATED ON SEPARATE ZONES.

N

GRAPHIC SCALE
0 10 20 40
(IN FEET)
Scale 1"=20'

REGISTERED LANDSCAPE ARCHITECT
SCOTT J. BARBER
LA-0001660
STATE OF FLORIDA
Scott John Barber
2024.07.31
16:48:17 -04'00'

SCOTT BARBER DESIGNS P.A.
LANDSCAPE ARCHITECTURE & PLANNING
LC-26000593
1551 WYNDCLIFF DRIVE
WELLINGTON, FL 33414
(561) 309-7263

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REV.	DATE	COMMENTS	BY
2	7/31/24	SITE PLAN REVISION	SB
1	5/9/24	SITE PLAN REVISION	SB

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DRAWN BY: SJB
DESIGNED BY: SJB
CHECKED BY: SJB
CHECKED BY: AP

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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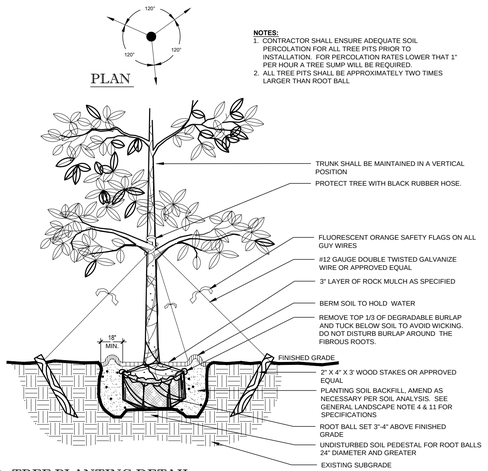
TITLE: IRRIGATION PLAN

SCALE: (H) AS (V) NOTED
DATE: 4/18/24
PROJECT No: 24.020.08

SHEET No: LP-2
Rev. #: 1

CANOPY TREE PLANTING NOTES:

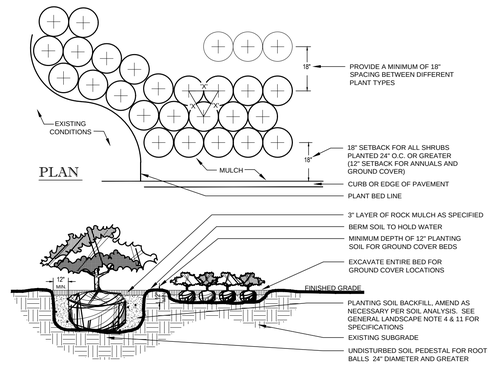
1. EACH TREE SHALL RECEIVE SIX "AGRIFORM" 21 GRAM TABLETS PER MANUFACTURER'S DIRECTIONS.
2. ALL TREES SHALL HAVE A MINIMUM CLEARANCE OF 15' FROM LIGHT POLES, AND SHALL NOT BE INSTALLED WITHIN 10 FT. OF ANY ABOVE GROUND UTILITIES OR WITHIN 30 FT. OF THE FACE OF A STOP SIGN.
3. ALL TREE TRIMMING SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)A-300 PRUNING STANDARDS.



NOTES:
1. CONTRACTOR SHALL ENSURE ADEQUATE SOIL PERCOLATION FOR ALL TREE PITS PRIOR TO INSTALLATION. FOR PERCOLATION RATES LOWER THAT 1" PER HOUR A TREE SUMP WILL BE REQUIRED.
2. ALL TREE PITS SHALL BE APPROXIMATELY TWO TIMES LARGER THAN ROOT BALL

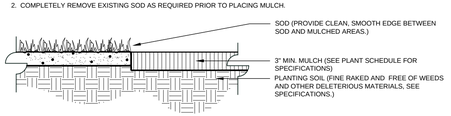
1 TREE PLANTING DETAIL
SCALE: NTS

NOTES:
1. CONTRACTOR SHALL ENSURE FREE DRAINAGE/PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. ALL TREE PITS SHALL BE APPROXIMATELY TWO TIMES LARGER THAN ROOT BALL
3. PLANT MATERIAL SHALL BE INSTALLED 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOT BALL.
4. WHERE GROUND COVERS ARE USED IN MASSES, THE ENTIRE BED SHALL BE EXCAVATED PRIOR TO RECEIVING PLANT MATERIAL AND PLANTING SOIL EXCEPT WHERE SPECIFIED.
5. ALL PLANT MATERIAL MASSES TO USE TRIANGULAR SPACING EXCEPT WHERE NOTED. REFER TO PLANT LIST FOR INDIVIDUAL PLANT SPACING 'X'.
6. PLANT MATERIAL INSTALLED ADJACENT TO STRAIGHT EDGES SHALL BE SPACED IN ROWS PARALLEL TO THE STRAIGHT EDGE. THOSE INSTALLED ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGE



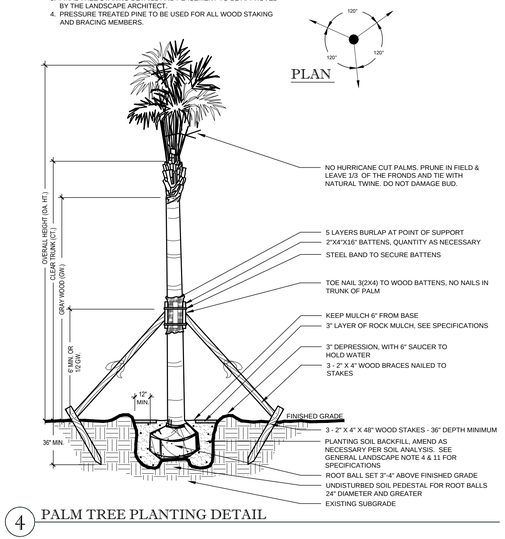
2 SHRUB AND GROUND COVER PLANTING DETAIL
SCALE: NTS

NOTES:
1. ALL MULCH SHALL BE PEST AND INSECT FREE.
2. COMPLETELY REMOVE EXISTING SOD AS REQUIRED PRIOR TO PLACING MULCH.

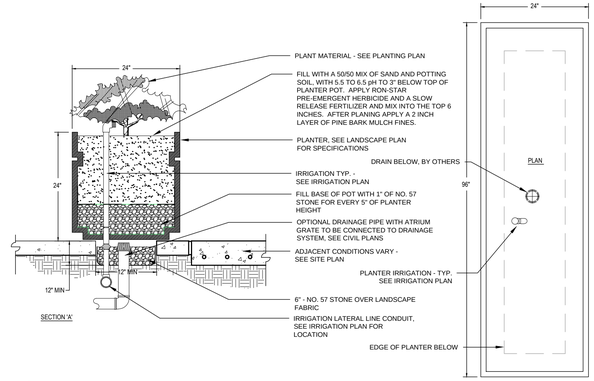


3 MULCH APPLICATION
SCALE: NTS

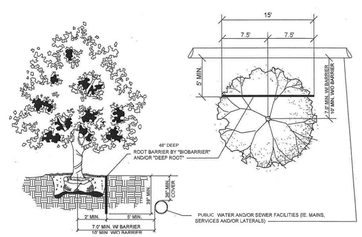
NOTES:
1. CONTRACTOR SHALL ENSURE FREE DRAINAGE/PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. ALL TREE PITS SHALL BE APPROXIMATELY TWO TIMES LARGER THAN ROOT BALL
3. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
4. PRESSURE TREATED PINE TO BE USED FOR ALL WOOD STAKING AND BRACING MEMBERS.



4 PALM TREE PLANTING DETAIL



5 RAISED PLANTER DETAIL - QTY: 2
SCALE: NTS

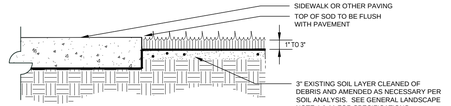


NOTE:
SEE LANDSCAPE AND ROOT BARRIER NOTES ON SHEET LP-1

6 LANDSCAPE ROOT BARRIER DETAIL
SCALE: NTS

GENERAL PLANTING NOTES:

1. NUISANCE, EXOTIC PLANT SPECIES REMOVAL SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS OF THE MUNICIPAL REGULATIONS, GUIDELINES AND STANDARDS.
2. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER, AS SET FORTH BY THE LATEST EDITION OF FLORIDA GRADES AND STANDARDS,
3. PLANT MATERIAL SHALL BE LOCAL FLORIDA NURSERY STOCK.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TOPSOIL / PLANTING SOIL ANALYSIS REPORT WITH FERTILIZER RECOMMENDATIONS, FOR ORNAMENTAL PLANTINGS, PRIOR TO INSTALLATION OF THE PLANTING SOIL. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY IMPROPER SOIL CONDITIONS (WETNESS, MUCK, DEBRIS, ETC.) PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL AMENDMENTS AND/OR FERTILIZER RECOMMENDED BY THE SOIL ANALYSIS REPORT FOR HEALTHY, VIGOROUS PLANT GROWTH. SEE NOTE 11.
5. ALL PLANT MATERIAL HOLES SHALL BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT OR DAMAGE UTILITIES OR PROJECT IMPROVEMENTS.
6. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPE ELEMENTS UNTIL FINAL ACCEPTANCE BY THE OWNER'S REP. THIS MAINTENANCE SHALL INCLUDE BUT MAY NOT BE LIMITED TO MOWING, EDGING AND TRIMMING GRASS, KEEPING PLANTING BEDS FREE OF DEBRIS AND WEEDS, MANAGING ALL DISEASE OR INFESTATION, WATERING OF PLANT MATERIALS, AND MAINTAINING MULCH.
7. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER'S REP.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND STAKE ALL UTILITIES. A MINIMUM OF TEN FEET SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREE PLANTINGS. IN ADDITION, ALL TREES SHALL BE LOCATED AT LEAST SIX FEET AWAY FROM THE FLOW LINE OF SWALES AND PROPOSED OR EXISTING STORM WATER INLETS.
9. NEW PLANT MATERIAL TO BE INSTALLED WILL BE FIELD ADJUSTED TO ACCOMMODATE EXISTING PLANT MATERIAL SUCH AS OVERHEAD CANOPY TREES, UNDER-STORY TREES AND SHRUBS OR GROUND COVER. THIS WILL ENSURE EXISTING PLANT MATERIAL TO REMAIN IN ITS NATURAL STATE. THEREFORE, NO EXISTING PLANT MATERIAL WILL BE ALTERED BY REMOVING, CUTTING TRIMMING OR DESTROYING IN ORDER TO INSTALL NEW PLANT MATERIAL.
10. ALL PLANT MATERIALS TO BE CONTAINER GROWN UNLESS OTHERWISE SPECIFIED. BAG GROWN PLANTS ARE NOT ACCEPTABLE.
11. THE PLANTING SOIL USED IN THE PLANTING OPERATIONS SHALL BE A MIXTURE OF 2 PARTS EXISTING TOPSOIL AND 1 PART CLEAN SAND. THE TOPSOIL SHALL CONSIST OF NATURAL, FRIABLE, FINE LOAM SOIL WITH A pH OF 5.5 TO 7.0, AND 3-5% ORGANIC MATTER. IT SHALL BE FREE OF WEED SEEDS, PATHOGENS, LITTER, SOD, CLAY, ROAD BASE, STONES, ROOTS AND STUMPS. SOIL DEPTH SPECIFIED ON THE PLANS IS MEASURED AFTER LIGHT COMPACTION. TOP SOIL THAT DOES NO T MEET THIS SPEC SHALL BE SUBSTITUTED WITH PROPER BORROW SOIL. SEE NOTE 4.
12. BED PREPARATION: LOOSEN SOIL TO A MINIMUM DEPTH OF TWELVE INCHES AND REMOVE ALL DEBRIS. RE-GRADE THE BED TO ITS ORIGINAL GRADE. DIG PLANTING PITS AT 1.5 TIMES THE DIAMETER OF THE POT. FILL PLANT PIT WITH SPECIFIED PLANTING MIX AND COMPACT SO THAT THE TOP OF ROOT BALL WILL SETTLE 1/8 DEPTH OF THE ROOT BALL ABOVE FINISH GRADE. SET PLANT AND FILL REMAINDER OF HOLE WITH PLANTING MIX. APPLY PRE-EMERGENT HERBICIDE TO SURFACE OF PLANTING BEDS AND FERTILIZE EACH PLANT WITH THE RECOMMENDED RATE BASED ON SOIL ANALYSIS AND RECOMMENDATIONS. WATER IN THOROUGHLY. RESET ANY PLANTS THAT SETTLE TOO DEEP. REMOVE SPOIL SOIL AND RAKE THE BED TO ITS FINISH GRADE. COVER ALL BED AREAS WITH A 3" DEPTH OF APPROVED ORGANIC MULCH. ENSURE MULCH OVER ROOT BALLS DOES NOT EXCEED A DEPTH OF ONE INCH. REMOVE ALL DEBRIS FROM THE MULCH. WATER BED THOROUGHLY.
13. ALL PROPOSED PLANTING AREAS SHALL RECEIVE BLACK PLASTIC EDGING AND A THREE INCH LAYER OF 1" - 3" WHITE RIVER ROCK OVER FILTER FABRIC. ALL TREES NOT LOCATED WITHIN A PLANTING BED SHALL RECEIVE A FOUR FEET DIAMETER RIVER ROCK RING.
14. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING THE FINE GRADING OF PLANTING AREAS TO ENSURE AT LEAST THREE PERCENT POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO TURF AREAS, PONDS, STREETS OR OTHER DRAINAGE WAYS. IN ADDITION, THE FINISH MULCH ELEVATION AT THE BUILDINGS SHALL BE AT LEAST SIX INCHES BELOW FINISH FLOOR OF THE ADJACENT BUILDING. PARKING LOT ISLANDS SHALL SLOPE AT THREE PERCENT FROM CENTER. TURF AND PLANTING BEDS SHALL MEET SIDEWALKS AND FLATWORK AT TWO INCHES BELOW THE FLATWORK.
15. SLOPES GREATER THAN 4:1 SHALL REQUIRE SODDING FOR STABILIZATION.
16. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE AND MAYBE UTILIZED AT THE OWNERS DISCRETION.
17. IF ALTERNATIVE VEGETATION IS UTILIZED (I.E. MATCHING AND/OR EXTENDING EXISTING SHRUB BED, THE INSTALLED MATERIAL MUST BE HEAL THY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASES. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE TO FLORIDA NO.1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. MATERIAL IN SOME INSTANCES SHALL EXCEED NO. 1 GRADE, IN ORDER TO MEET THE MINIMUM REQUIREMENTS OF THIS PROJECT.
18. SOD SHALL BE INSTALLED IN ALL DISTURBED LANDSCAPE AREAS THAT ARE NOT PLANTED OR HARDSCAPED. CONTRACTOR SHALL VERIFY SOD QUANTITY.
19. LANDSCAPE CONTRACTOR SHALL REPAIR, RELOCATE AND/OR REPLACE ANY CONSTRUCTION DAMAGED OR REMOVED LANDSCAPE MATERIALS, ON OR OFF SITE, THAT ARE NOT DELINEATED ON THE DEMOLITION PLANS. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REP. PRIOR TO ANY REMEDIATION LANDSCAPE EFFORTS.
20. SEE IRRIGATION SHEET FOR THE UNDERGROUND AUTOMATIC IRRIGATION SYSTEM TO BE INSTALLED, THAT WILL PROVIDE 100 PERCENT COVERAGE WITH 50 PERCENT OVERLAP FOR ALL NEW LANDSCAPE. THE WATER SOURCE IS EXISTING. THE EXISTING PERIMETER BUFFER IRRIGATION SYSTEM WILL REMAIN AND THE NEW PARKING AREA SYSTEM IS DESIGNED WITH HYDRO-ZONES, BASED ON PLANT WATERING NEEDS. TURF, SHRUBS, TREES WILL BE WATERED ON SEPARATE ZONES WITH BUBBLER HEADS.



5 SOD APPLICATION
SCALE: NTS

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DESIGNED BY: SJB
CHECKED BY: SJB
CHECKED BY: AP

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

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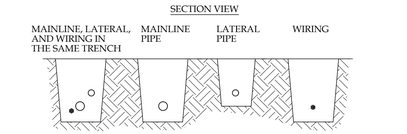
TITLE: LANDSCAPE DETAILS

SCALE: (H) AS (V) NOTED
DATE: 4/22/24
PROJECT No: 24.020.08

SHEET No: LP-3
Rev. #: 1

REGISTERED LANDSCAPE ARCHITECT SCOTT J. BARBER LA-0001660 STATE OF FLORIDA
Scott John Barber
2024.07.31
16:53:38 -04'00'

SCOTT BARBER DESIGNS P.A.
LANDSCAPE ARCHITECTURE & PLANNING
LC-26000593
1551 WYNDCLIFF DRIVE
WELLINGTON, FL 33414
(561) 309-7263



DEPTH OF COVERAGE PER FLORIDA BUILDING CODE (Appendix F)

For Non-traffic Areas

Pipe Diameter	Minimum depth of Cover
½" through 1 ¼"	6" - 12" **
1 ½" through 2"	12" - 18" ***
2 ½" through 3"	18" - 24"
6" and larger	24" - 36"

For Traffic Areas

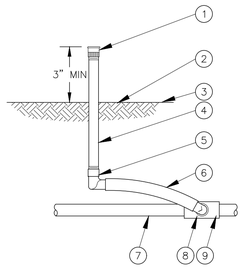
Pipe Diameter	Minimum depth of Cover
½" through 2 ½"	18" - 24"
3" through 5"	24" - 30"
6" and larger	30" - 36"

NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

PIPE & WIRE TRENCHING DETAIL

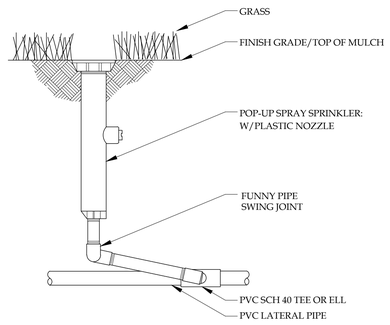
NTS.



1. ADJUSTABLE FULL CIRCLE BUBBLER: RAIN BIRD 1404
2. TOP OF MULCH
3. FINISH GRADE
4. UV RADIATION RESISTANT 1/2-INCH PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 1/2-INCH FEMALE NPT x 0.490-INCH BARB ELBOW: RAIN BIRD MODEL SBFE-050
6. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
7. PVC LATERAL PIPE
8. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
9. SCH 40 TEE OR ELL

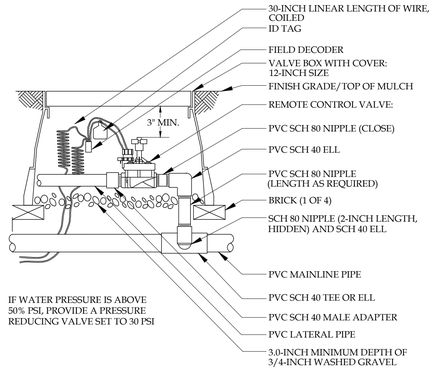
FULL CIRCLE BUBBLER DETAIL

NTS.



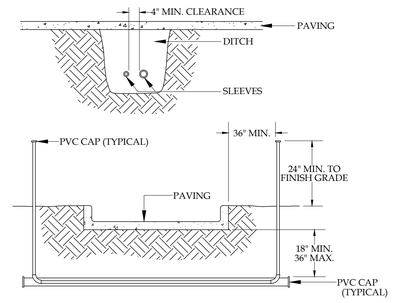
POP-UP SPRAY DETAIL

NTS.



REMOTE CONTROL VALVE

NTS.



NOTES:

1. ALL PVC IRRIGATION SLEEVES TO BE SCH40 PIPE. SEE INSTALLATION NOTE #14
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TRENCH BACKFILL TO 95% PROCTOR.

PIPE AND WIRE SLEEVE DETAIL

NTS.

TESTING & MAINTENANCE

TESTING:
Upon completion of main line and prior to backfill, pressure test the entire water-filled main line (with valves and backflow closed) at (150) pounds per square inch for 30 minutes using a pump and pressure gauge. Repair any systems which exceed (5) pounds per square inch drop in 30 minutes of testing, until the standard can be achieved and verified.

SYSTEM MAINTENANCE:
Every month the irrigation system shall be inspected to ensure that the various components and functions of the irrigation system are functioning properly. The scope of work includes, but is not limited to, the point of connection, piping system, electrical system, sprinkler heads, nozzles, drip components, valves, controller and weather/soil sensors.

SYSTEM SCHEDULING

Before scheduling run times, the site should be "walked" and planted areas inspected to observe plant stress and health. Soil moisture levels should be inspected throughout planted areas, and appropriate adjustments made to the irrigation schedule. Each irrigation session should be scheduled to encourage deep roots through deep watering and minimal runoff. This can be achieved through use of multiple short repeat cycles when necessary, especially on slopes and sites with compacted soils. Watering times should deliver enough water to soak the ground to a depth of 12 inches. Run times should be adjusted accordingly to soil type and plant water requirements. Less water is needed to soak a sandy soil compared to a clay soil. Soils should be allowed to dry to a 50% moisture depletion level between irrigations to avoid root rot and allow adequate air to be present in the soil. Run times shall be adjusted seasonally.

INSTALLATION NOTES

1. The Contractor must provide an automatic underground irrigation system providing 100% coverage of all new landscape material. The system water source will be a water main connection providing approximately 30 gpm at 50 psi at the source point. The contractor shall verify that the source meets the design requirements prior to installation.
2. The Contractor must comply with the current Florida Building Code, and Florida Statute 373.228.
3. No product substitutions or changes will be allowed without the written approval of the Owner and Irrigation Designer.
4. The Contractor is responsible for all permits and fees
5. Over-spray onto buildings, signs or pavement is prohibited.
6. The Contractor is responsible for locating utilities prior to digging.
7. No rocks or other extraneous materials to be used in backfilling of pipe trenches.
8. All pipe to be installed as per manufacturer's specifications.
9. All threaded joints to be coated with Teflon tape or liquid Teflon.
10. All pipes to be thoroughly flushed before installation of heads.
11. All low voltage electrical connections made in the field to be installed in valve boxes with waterproof connectors.
12. The Contractor shall be responsible for proper coverage of all landscape areas.
13. The Contractor to supply to the Owner with operation manuals and two (2) wrenches for adjusting each valve and head type.
14. All mainline, lateral line and control wire conduit under paving shall be installed in separate sleeves. Sleeves shall be a minimum of twice (2X) the diameter of the pipe to be sleeved.
15. All control wires shall be minimum #14 AWG. Run two (2) spare control wires and identify them in the valve box.
16. All remote control valves, gate valves, quick couplers, control wire and computer cable pull points shall be installed in approved valves boxes with covers. All shall be marked indicating station numbers.
17. 120 VAC electrical power source at controller location shall be provided by others. The electrical contractor shall make the final connection from the electrical source to the controller.
18. The irrigation contractor shall flush and adjust all pipe, spray heads and valves for optimum spray with minimal overspray onto walks, streets, walls, etc.
19. Do not willingly install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. such obstructions or differences should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
20. All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
21. The irrigation contractor shall incorporate check valves on all spray heads as needed to prevent low head drainage where possible post valve shut-off draining will occur.
22. Installer is required to conduct final testing and adjustment to achieve design specification prior to completion of the system and acceptance by the owner or owner's representative.
23. Contractor to provide owner with post construction documentation, including as-built drawings, recommended maintenance schedules and activities, operational schedule, design precipitation rates, system adjusting methods for decreasing water once landscape is established, water source and shutoff method and all operational guides for controller.

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REV.	DATE	COMMENTS	BY
2	7/31/24	SITE PLAN REVISION	SB
1	5/9/24	SITE PLAN REVISION	SB

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: SJB
DESIGNED BY: SJB
CHECKED BY: SJB
CHECKED BY: AP

PROJECT: AQUASONIC CAR WASH
9701 W. COLONIAL DRIVE
CITY OF OCOEE, ORANGE COUNTY, FLORIDA 34761

DYNAMIC ENGINEERING
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TITLE: IRRIGATION DETAILS

SCALE: (H) AS (V) NOTED
DATE: 4/18/24
PROJECT No: 24.020.08

SHEET No: LP-4
Rev. #: 1

REGISTERED LANDSCAPE ARCHITECT
SCOTT J. BARBER
LA-0001660
STATE OF FLORIDA

Scott John Barber
2024.07.31
16:49:34 -04'00'

SCOTT BARBER DESIGNS P.A.
LANDSCAPE ARCHITECTURE & PLANNING
LC-26000593
1551 WYNDCLIFF DRIVE
WELLINGTON, FL 33414
(561) 309-7263

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).

2. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.

4. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

6. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

1. BUILDING CODE: FLORIDA BUILDING CODE 8TH EDITION (2023)

   RISK CATEGORY = II

2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	ROOF = 20 PSF	65 PSF (AT CONCRETE) 20 PSF (AT TRUSSES)

3. DEFLECTION LIMITS:

ELEMENTS	LIVE LOAD	TOTAL LOAD
ROOF PANELS, JOIST, AND TRUSSES	L/360	L/240
BEAMS	L/360	L/240

4. SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.00
SITE CLASS	D (ASSUMED)
SEISMIC DESIGN CATEGORY	A
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_1 = 0.036, S_S = 0.061
DESIGN SPECTRAL RESPONSE ACCELERATIONS	S_{D1} = 0.053, S_{DS} = 0.065
VERTICAL SHEAR TRANSFER ELEMENTS:	
PLYWOOD SHEARWALL(S)	R = 6.5, C_S = 0.012
ORDINARY CONCRETE SHEARWALL(S)	R = 5.0, C_S = 0.012

5. WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	136 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	-0.18
COMPONENT AND CLADDING PRESSURE	42.6 PSF
NET UPLIFT ON ROOF (ULTIMATE)	45.2 PSF

6. TORNADO DESIGN: NOT REQUIRED FOR RISK CATEGORY II BUILDING

7. 15-MIN. RAINFALL INTENSITY=7.14 INCHES/HOUR 60-MIN. RAINFALL INTENSITY=3.88 INCHES/HOUR

DEFERRED SUBMITTAL ITEMS:

PRECAST HOLLOW CORE ROOF PANELS
PAYMENT CANOPY STRUCTURES
PREFABRICATED COLD-FORMED STEEL TRUSSES

FOUNDATION NOTES:

1. FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: UNIVERSAL ENGINEERING SCIENCES; PROJECT NO. 0730.2300194.000; DATED: JANUARY 31, 2024

2. SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	2500 PSF

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
AT STEM WALL CONSTRUCTION: 12".

4. ALL FOUNDATIONS SHALL BEAR ON A MINIMUM OF 2 FEET OF COMPACTED ENGINEERED FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% MAXIMUM DRY DENSITY (MODIFIED PROCTOR). GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).

6. BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

REINFORCING STEEL:

1. ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, AND ELEVATED SLAB REINFORCING.

2. WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.

3. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

COLD FORMED STEEL (ICC ESR-3064P):

1. MATERIALS: STANDARD COLD-FORMED STEEL STUDS, JOISTS, TRACK, BRIDGING AND STRAPS SHALL CONFORM TO AISI S100-07 W/SUPPLEMENT S2-10. 43 MIL AND SMALLER SHALL BE FY=33 KSI AND 54 MIL AND LARGER SHALL BE FY=50 KSI.

2. FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE(AISI).

3. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, BEAM BEARINGS AND JOIST BEARINGS.

4. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK.

5. ALL MEMBERS SHALL HAVE MINIMUM EFFECTIVE PROPERTIES PER STEEL STUD MANUFACTURERS ASSOCIATION(SSMA).

SYMBOLS LEGEND

(NOT ALL SYMBOLS NECESSARILY APPLY TO THIS PROJECT)

- WALLS WITH SOLID LINES DESIGNATE STRUCTURAL (BEARING) WALLS.
- WALLS WITH DASHED LINES DESIGNATE NON-STRUCTURAL (NON-BEARING) WALLS.
- RME XXX# — INDICATES HVAC EQUIPMENT ON ROOF OR IN ATTIC SPACE. SEE TYPICAL DETAILS FOR FRAMING INFORMATION.
- STEP — INDICATES STEPPED OR DEPRESSED SLAB.
- C=X" — INDICATES CAMBER IN BEAM.
- INDICATES RIDGID CONNECTION.
- SCX — SC1, SC2, ETC. - AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.

ABBREVIATIONS

A.B.	AGGREGATE BASE COURSE	GLB (GLULAM)	GLUED-LAMINATED BEAM
A/C	AIR CONDITIONER	I.F.W.	INSIDE FACE OF WALL
A.F.F.	ABOVE FINISHED FLOOR	HORIZ.	HORIZONTAL
ALT.	ALTERNATE	K(KIP)	1000 POUNDS
A.B.	ANCHOR BOLT	L.L.	LIVE LOAD
@	AT (MEASUREMENT)	LBS (#)	POUNDS
BM.	BEAM	LLH	LONG LEG HORIZONTAL
B.F.F.	BELOW FINISHED FLOOR	LLV	LONG LEG VERTICAL
B.O.B.	BOTTOM OF BEAM	MIN.	MINIMUM
B.O.D.	BOTTOM OF DECK	MAX.	MAXIMUM
B.O.F.	BOTTOM OF FOOTING	MFR('S)	MANUFACTURER('S)
BRG.	BEARING	M.C.J.	MASONRY CONTROL JOINT
C.I.P.	CAST IN PLACE	MECHL.	MECHANICAL
C.L.	CENTERLINE	N/A	NOT APPLICABLE
C.L.B.	CENTERLINE OF BEAM	N.T.S.	NOT TO SCALE
C.L.C.	CENTERLINE OF COLUMN	O.C.	ON CENTER
C.L.F.	CENTERLINE OF FOOTING	O.F.W.	OUTSIDE FACE OF WALL
C.L.W.	CENTERLINE OF WALL	OPP.	OPPOSITE
CLR	CLEAR	P.C.	PRECAST CONCRETE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
C.C.J.	CONCRETE CONTROL JOINT	PREFAB.	PREFABRICATED
C.S.J.	CONCRETE SAWCUT JOINT	PSF	POUNDS PER SQUARE FOOT
C.M.U.	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CONN.	CONNECTION	REINF.	REINFORCING
CONT.	CONTINUOUS	SLH	SHORT LEG HORIZONTAL
D.L.	DEAD LOAD	SLV	SHORT LEG VERTICAL
ø OR DIA.	DIAMETER	SIM.	SIMILAR
DN.	DOWN	SQ.	SQUARE
DWG(S)	DRAWING(S)	STD	STANDARD
E.O.S.	EDGE OF SLAB	T.L.	TOTAL LOAD
EQ.	EQUAL	T.O.B.	TOP OF BEAM
EQUIP.	EQUIPMENT	T.O.D.	TOP OF DECK
EXP. BOLT	EXPANSION BOLT	T.O.F.	TOP OF FOOTING
EXP. JT (E.J.)	EXPANSION JOINT	T.O.L.	TOP OF LEDGER
(E)	EXISTING	T.O.M.	TOP OF MASONRY
E.W.	EACH WAY	T.O.P.	TOP OF PLATE
F.F.	FINISHED FLOOR	T.O.S.	TOP OF STEEL
F.O.M.	FACE OF MEMBER	T.O.W.	TOP OF WALL
F.O.S.	FACE OF STEEL	TYP.	TYPICAL
F.O.W.	FACE OF WALL	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	W.W.F.	WELDED WIRE FABRIC
GSN	GENERAL STRUCTURAL NOTES	W/	WITH
		W/O	WITHOUT

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOOTINGS	3500 PSI	0.45	N/A
WALLS	4500 PSI	0.45	N/A
INTERIOR CONCRETE SLABS ON GRADE	3500 PSI	0.45	N/A

2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33,

3. LAP SPLICES FOR BEAMS AND FLOOR SLABS SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

   STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± 3/8"
SLABS ON GRADE	1 1/2"	± 1/4"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1 1/2"	± 3/8"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± 3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY) REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1 1/2"	3/8"

5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.

6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.

7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

   ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED A MAXIMUM LENGTH OF 24 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS (EXAMPLE: 4" SLAB = 8'-0" LENGTH). SQUARE LAYOUTS ARE PREFERRED, BUT THE SLAB GEOMETRY MAY DICTATE OTHERWISE. THE RATIO OF THE LONG TO SHORT DISTANCE SHALL NOT EXCEED 1:3. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

   KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

9. HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.

10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

12. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.

13. LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.

STEEL:

1. MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 GRADE C (FY = 50 KSI).

2. ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICC REPORT RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.

3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.

4. WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

5. STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION UNLESS NOTED OTHERWISE). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.

6. DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

POST-INSTALLED ANCHORS:

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES. ALL ANCHORS ARE TO BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.

ANCHORAGE TO CONCRETE:

ADHESIVE ANCHORS:

HILTI HIT-HY 200	PER ICC ESR-3187
HILTI HIT-RE 500 V3	PER ICC ESR-3814
SIMPSON AT-XP	PER IAPMO ER-263
SIMPSON SET-3G	PER ICC ESR-3G

MECHANICAL ANCHORS:

HILTI KWIK HUS	PER ICC ESR-3187
HILTI KWIK BOLT-TZ EXPANSION ANCHORS	PER ICC ESR-3814
SIMPSON TITEN HD	PER IAPMO ER-263
SIMPSON STRONG BOLT-2	PER ICC ESR-3G

REBAR DOWELING TO CONCRETE:

ADHESIVES:

HILTI HIT-HY 200	PER ICC ESR-3187
HILTI HIT-RE 500 V3	PER ICC ESR-3814
SIMPSON AT-XP	PER IAPMO ER-263
SIMPSON SET-3G	PER ICC ESR-3G

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR OR IAPMO ER SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHO EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

3. INSTALL THE ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

SPECIAL INSPECTION ITEMS:

1. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED PER IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

CONCRETE (IBC TABLE 1705.3)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706;		X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
C. INSPECT ALL OTHER WELDS.		X
3. INSPECT ANCHORS CAST IN CONCRETE		
4. INSPECT ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.		X
5. VERIFY USE OF REQUIRED DESIGN MIX.		X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X
9. INSPECT PRESTRESSED CONCRETE FOR:		
A. APPLICATION OF PRESTRESSING FORCES; AND	X	
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		X
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:		
A. INSTALLATION OF THE EMBEDDED PARTS	X	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT	X	
C. COMPLETION OF CONNECTIONS IN THE FIELD	X	
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X

SPECIAL INSPECTION AND TESTS OF SOILS (IBC TABLE 1705.6)

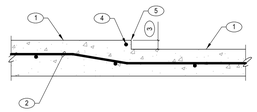
TYPE	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL

VERIFICATION AND INSPECTION	OBSERVE	PERFORM
1. INSPECTION TASKS PRI

BINDING

KEYNOTES:	
1.	SUSPENDED CONCRETE SLAB
2.	SLAB REINFORCEMENT
3.	STEP IN SLAB PER ARCH
4.	ADDITIONAL CORNER BAR AT SLAB EDGE
5.	CORNER EMBED PER ARCH

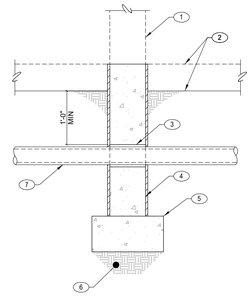


T12 TYPICAL SLAB AT RECESSED SLAB

NO SCALE

KEYNOTES:	
1.	WALL AS OCCURS, SEE PLAN
2.	SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
3.	SLEEVE, 8"Ø MAX, PROVIDE 1/2 " MINIMUM CLEARANCE AROUND PIPE-CONDUIT
4.	PVC FORMED CONCRETE WALL, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7.	PIPE OR CONDUIT
8.	SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
9.	PROVIDE DRAINAGE SYSTEM BEHIND WALL, SEE TYPICAL DETAIL
10.	FILTER FABRIC WRAPPED AROUND MIN 12"x12" OF GRAVEL BACKFILL

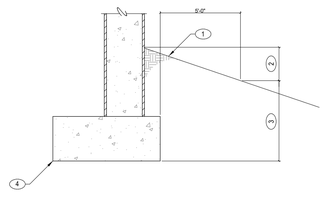
NOTE:	
A.	NO PIPE SHALL PASS THROUGH FOOTINGS OR UNDER COLUMN FOOTINGS. FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS
B.	MULTIPLE PIPES/ CONDUIT SLEEVES ALLOWED PROVIDED SLEEVES ARE SPACED W/ MINIMUM OF 2x SLEEVE DIAMETER BETWEEN SLEEVES
C.	SLEEVES SHALL NOT OCCUR WITHIN 12" OF POINT LOADS OR HOLDOWN ANCHORS



T8 TYPICAL PIPE THROUGH STEM WALL

TD61 NO SCALE

KEYNOTES:	
1.	SLOPED FINISH GRADE
2.	MINIMUM FOOTING DEPTH PER G.S.N. - 12" MINIMUM
3.	DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE
4.	CONCRETE FOOTING

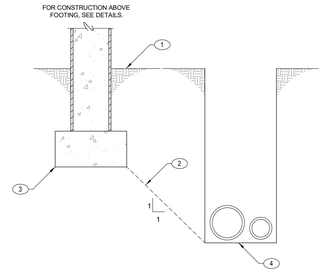


NOTE:	
A.	FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS

T4 TYPICAL DETAIL FOR FOUNDATION EMBEDMENT

TD04 NO SCALE

KEYNOTES:	
1.	FINISHED GRADE WHERE OCCURS
2.	DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE ANGLE TO BELOW BOTTOM FOOTING OR FOUNDATION
3.	BOTTOM OF CONCRETE FOOTING
4.	BOTTOM OF TRENCH

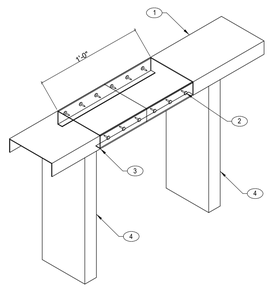


NOTE:	
A.	DO NOT UNDERCUT EXISTING FOOTINGS
B.	NO PIPE OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

T1 TRENCH PARALLEL TO CONTINUOUS STRAP FOOTING

TD01 NO SCALE

KEYNOTES:	
1.	TOP TRACK
2.	(6) #10 SCREWS EACH SIDE OF SPLICE
3.	STUD SECTION, MATCH TRACK THICKNESS
4.	STUD WALL FRAMING



T13 TYPICAL TOP TRACK SPLICE

TD84 NO SCALE

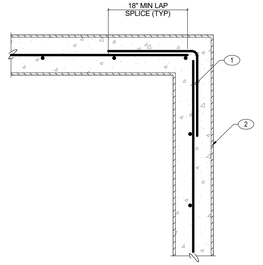
BAR SIZE	CLASS B TENSION SPLICE LENGTHS					
	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS
#3	12"	12"	12"	12"	12"	12"
#4	19"	15"	17"	13"	15"	12"
#5	29"	23"	26"	20"	23"	18"
#6	32"	25"	28"	21"	25"	19"
#7	54"	41"	47"	36"	42"	32"
#8	70"	54"	61"	47"	54"	42"
#9	89"	68"	77"	59"	69"	53"
#10	112"	87"	97"	75"	87"	67"

NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS "B" TENSION LAP SPLICES.

T9 STEEL REINFORCING LAP SPLICES IN CONCRETE

TD14 NO SCALE

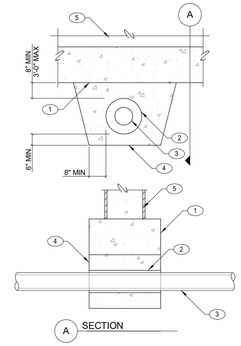
KEYNOTES:	
1.	CORNER DOWELS TO MATCH HORIZONTAL REINFORCEMENT
2.	CONCRETE WALL WITH REINFORCEMENT



T5 TYPICAL CONCRETE CORNER

TD05 NO SCALE

KEYNOTES:	
1.	CONCRETE FOOTING
2.	SLEEVE - PROVIDE ½" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT
3.	PIPE OR CONDUIT
4.	CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND POUR FULL WIDTH OF PIPE TRENCH
5.	PVC FORMED CONCRETE WALL, SEE PLAN

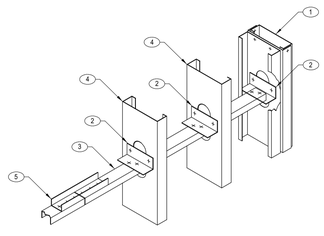


NOTE:	
A.	NO PIPE SHALL PASS THRU FOOTINGS OR UNDER COLUMN FOOTINGS. FOR TRENCHES GREATER THAN 3'-6" BELOW BOTTOM OF FOOTING, SEE PIPE PASSING BELOW WALL FOOTING DETAIL.

T2 PIPE PASSING UNDER WALL FOOTING IN SHALLOW TRENCH

TD02 NO SCALE

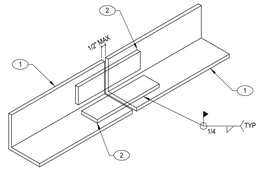
KEYNOTES:	
1.	BUILT-UP JAMB OR POST, SEE PLAN
2.	CLIP ANGLE W/ (4) #10 SCREWS
3.	CONT 54 MIL COLD-ROLLED CHANNEL (CRC)
4.	STEEL STUD
5.	TYPICAL CRC SPLICE, 12" LONG CRC INVERTED OVER CENTER OF SPLICE USING (3) #10 SCREWS ON EACH SIDE OF SPLICE



T14 TYPICAL COLD-ROLLED CHANNEL BRIDGING

TD38 NO SCALE

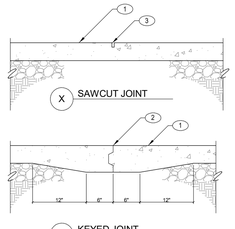
KEYNOTES:	
1.	STEEL CHORD/EDGE ANGLE - FOR SIZE AND LOCATION, SEE PLAN
2.	8" LONG x 2'x3/8" THICK STEEL PLATES



T10 TYPICAL SPLICE IN CONTINUOUS STEEL CHORD/EDGE ANGLE

TD_SF15 NO SCALE

KEYNOTES:	
1.	CONCRETE SLAB ON GRADE
2.	CONT KEYED JOINT
3.	SAWCUT ¼" WIDE x ¼ SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.

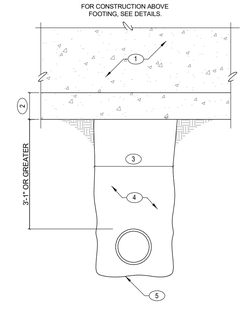


NOTE:	
A.	KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS.
B.	"TOOL WET JOINT", "ZIP STRIP", ETC SHALL MATCH SAWCUT REQUIREMENTS

T6 CONTROL JOINTS IN CONCRETE SLAB ON GRADE

TD07 NO SCALE

KEYNOTES:	
1.	STEM WALL
2.	CONCRETE FOOTING
3.	1'-4" MAXIMUM - WHERE TRENCH EXCEEDS 1'-6" NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTINGS
4.	BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS
5.	BOTTOM OF TRENCH

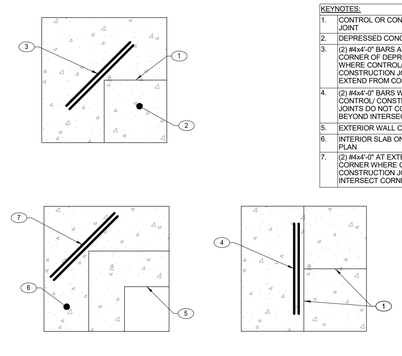


NOTE:	
A.	DO NOT UNDERCUT EXISTING FOOTINGS
B.	NO PIPES OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

T3 PIPE PASSING BELOW FOOTING IN DEEP TRENCH

TD03 NO SCALE

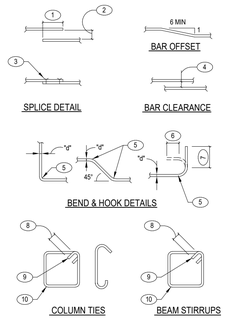
KEYNOTES:	
1.	CONTROL OR CONSTRUCTION JOINT
2.	DEPRESSED CONCRETE SLAB
3.	(2) #4x4'-0" BARS AT EACH CORNER OF DEPRESSED SLAB WHERE CONTROL/ CONSTRUCTION JOINTS DO NOT EXTEND FROM CORNER
4.	(2) #4x4'-0" BARS WHERE CONTROL/ CONSTRUCTION JOINTS DO NOT CONTINUE BEYOND INTERSECTION
5.	EXTERIOR WALL CORNER
6.	INTERIOR SLAB ON GRADE, SEE PLAN
7.	(2) #4x4'-0" AT EXTERIOR WALL CORNER WHERE CONTROL/ CONSTRUCTION JOINTS DO NOT INTERSECT CORNER



T11 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCEMENT (PLAN VIEW)

NO SCALE

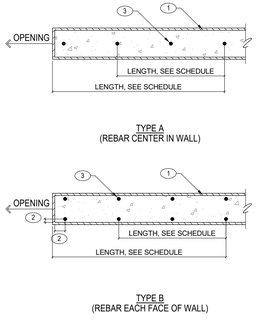
KEYNOTES:	
1.	LAP - SEE G.S.N.
2.	MAXIMUM ¼ LAP BUT NOT MORE THAN 6"
3.	WIRE TIES
4.	1d (1" MINIMUM)
5.	RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10, AND #1 BARS; 5d FOR #14 AND #18 BARS, 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK
6.	4D (4" MINIMUM)
7.	12d (90 DEGREE HOOK)
8.	6d (4" MINIMUM)
9.	135 DEGREE BEND
10.	BEND AROUND 1 ½" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2½" PIN FOR #5 BARS.



T7 TYPICAL REINFORCING DETAILS

TD10 NO SCALE

KEYNOTES:	
1.	CONCRETE WALL, SEE PLAN
2.	3/4" CLEAR FOR ALL BAR SIZES
3.	VERTICAL REBAR, SEE SCHEDULE



NOTE:	
A.	ALL VERTICAL REBAR SHALL EXTEND FULL HEIGHT FROM TOP OF PARAPET TO FOUNDATION WITH THE APPROPRIATE LAP SPLICES AS NEEDED. PROVIDE DOWEL IN FOUNDATION TO MATCH VERTICAL BAR

t15 TYPICAL CONCRETE JAMB

TD53 NO SCALE

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

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No: 95669
07/18/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CONSTRUCTION SET

REVISIONS

#	DATE

AQUASONIC OCOEE

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DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

TYPICAL DETAILS

SHEET NUMBER:

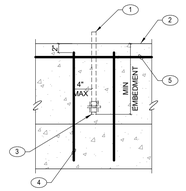
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BINDING

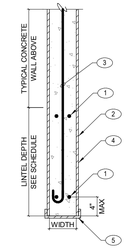
ANCHOR SCHEDULE			
ALL-THREAD ANCHOR DIAMETER	MINIMUM EMBEDMENT	MINIMUM VERTICAL BARS (PROVIDE ADDITIONAL VERTICAL BARS AS REQUIRED)	ALTERNATE SIMPSON ANCHOR TYPE (INSTALL PER MANUFACTURER)
⅝"	12"	---	---
⅝"	16"	(1) #5 OR (2) #4	SBS/BX24
⅝"	18"	(2) #5	SSTB34 OR SB7/BX24
1"	20"	(2) #6	SB1X30

KEYNOTES:

1.	HOLDOWN ANCHOR BOLT
2.	TOP OF CONCRETE OR COLD JOINT
3.	DBL NUT AND 2" - PLATE WASHER
4.	ADDITIONAL VERTICAL BAR(S), SEE SCHEDULE
5.	TOP REINFORCING BAR (#4 BAR MINIMUM) PER PLAN



T19 TYPICAL ANCHORAGE FOR "HD" TYPE HOLDOWN
TD56 NO SCALE



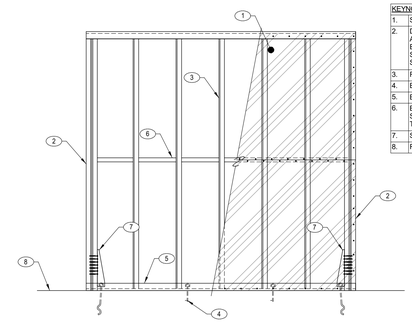
KEYNOTES:

1.	CONTINUE STANDARD WALL REINFORCING THROUGH THE CONCRETE LINTEL
2.	PVC FORMWORK, SEE PLAN
3.	WALL REINFORCING TO EXTEND AND HOOK BOTTOM LINTEL REINFORCEMENT
4.	CONCRETE LINTELS REINFORCEMENT, SEE SCHEDULE
5.	PVC FORMWORK BASE CAP

NOTE:

A.	SEE GSN FOR SPECIAL INSPECTION REQUIREMENTS OF COCNRETE LINTELS
B.	ANY BAR SPLICES SHALL HAVE A MINIMUM LENGTH OF 72 BAR DIA.
C.	PROVIDE 90° STANDARD HOOK WHERE HORIZONTAL REINFORCING DOES NOT EXTEND 2'-0" BEYOND OPENING

T16 TYPICAL CONCRETE LINTEL
TD48 NO SCALE

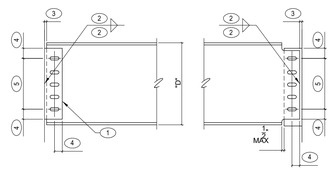


KEYNOTES:

1.	SHEATHING MATERIAL
2.	DOUBLE STUDS (BACK-TO-BACK) AT EACH END OF SHEARWALL, EDGE NAIL ALONG DOUBLE STUDS, SEE SHEAR HOLDOWN SCHEDULE
3.	FULL HEIGHT STEEL STUDS
4.	BOTTOM TRACK ATTACHMENT
5.	BOTTOM TRACK
6.	BLOCKING OR 1 1/2" WIDE STRAPPING, MATCH STUD THICKNESS, W/ EDGE FASTENERS
7.	SIMPSON HOLDOWN
8.	FINISHED FLOOR

T17 ELEVATION-TYPICAL 1-STORY SHEARWALL
TD89 NO SCALE

NOMINAL BEAM DEPTH "D"	NUMBER OF BOLTS IN ROW
UP TO 7"	(2) ¾"□
8" TO 10"	(2) ¾"□
12" TO 14"	(3) ¾"□
16"	(4) ¾"□
18"	(5) ¾"□
21"	(6) ¾"□
24" TO 27"	(7) ¾"□
30"	(8) ¾"□
33"	(9) ¾"□
36"	(10) ¾"□



KEYNOTES:

1.	SHEAR PLATE TO EQUAL OR EXCEED BEAM WEB THICKNESS ½" MIN OR AS SHOWN OTHERWISE
2.	⅝" FOR 21" DEEP BEAMS OR LESS. ¾" FOR BEAMS 24" OR GREATER
3.	½" CLEAR TO FACE OF SUPPORTING MEMBER (TYP)
4.	AISC MIN EDGE DISTANCE
5.	HORIZONTAL SHORT SLOTTED HOLES AT 3" O.C. MIN IN EITHER BEAM OR SHEAR PLATE PER AISC SPEC

NOTE:

A.	TYP CONNECTION CONSISTS OF ONE SHEAR PLATE WITH ½": OR ⅝": A325N BOLTS (SEE SCHEDULE)
B.	MAINTAIN BOLT SPACING AND EDGE DISTANCES PER AISC SPEC

T18 TYPICAL SHEAR PLATE CONNECTION DETAIL
TD42 NO SCALE

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

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Rexburg, ID 83440
phone: 208.569.5694
contact@ridgestructural.com

STAMP:

DAVID B. PORTER LICENSE No: 99669 STATE OF FLORIDA PROFESSIONAL ENGINEER
07/18/2024

CONSTRUCTION SET

REVISIONS

#	DATE

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9701 W COLONIAL DRIVE, OCOEE FL 34761

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DATE:	07/18/2024
DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

TYPICAL DETAILS

SHEET NUMBER:

S1.2

SHEARWALL TYPE SCHEDULE

NOTES:

1. SHEARWALL TYPES LISTED BELOW ARE NOT JOB SPECIFIC. SOME TYPES MAY NOT BE USED ON THE PLANS.
2. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE 43 MIL (MIN) SPACED AT 16" ON CENTER (O.C.) MAXIMUM.
3. ANCHOR BOLTS TO FOUNDATION SHALL EMBED 7" INTO CONCRETE
4. A MINIMUM OF (2) ANCHOR BOLTS SHALL BE USED ON EACH BASE TRACK PIECE. PROVIDE (1) ANCHOR BOLT MINIMUM WITHIN 9" OF EACH END PIECE.
5. PROVIDE CONTINUOUS TOP TRACK AT ALL SHEARWALLS AND EXTERIOR WALL. UNLESS NOTED OTHERWISE (U.N.O.), SEE...
6. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEARWALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
7. BLOCK ALL PANEL EDGES. EDGE FASTEN SHEATHING AT BLOCKED EDGES. BLOCKING SHALL CONSIST OF STUD BLOCKING ...

MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
5	7/16" APA RATED SHEATHING (BLOCKED) ONE SIDE OF WALL	8d COMMON AT 6" O.C.	8d COMMON AT 12" O.C.	CAST-IN-PLACE CONCRETE: 5/8" DIA. A.B. W/ STANDARD CUT PLATE WASHERS AT 16" O.C PRECAST CONCRETE: SEE DETAILS.

JAMB (J) SCHEDULE

SEE TYPICAL JAMB DETAIL FOR ADDITIONAL INFORMATION

MARK	REBAR AND QUANTITIES	TYPE	LENGTH	REMARKS
J1	(2) #4	A	8"	REBAR CENTERED
J2	(4) #5	B	8"	REBAR EACH FACE
J3	(6) #5	B	12"	REBAR EACH FACE

WALL (W) SCHEDULE

TYPE	MATERIAL	THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	CONCRETE	6"	#4 AT 10" O.C.	#4 AT 10" O.C.	WALLS TO BE FORMED WITH EXTRUDED PVC; SEE ARCH
W2	CONCRETE	12"	#4 AT 18" O.C. EACH FACE	#4 AT 10" O.C. EA FACE	---

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	REMARKS
F60	60"	60"	12"	(5) #4 EACH WAY TOP AND BOTTOM	---
WF18	CONT	18"	10"	(2) #4 CONT BOTTOM	STRIP FOOTING
WF24	CONT	24"	10"	(3) #4 CONT BOTTOM	STRIP FOOTING

HOLDOWN SCHEDULE

MARK	HOLDOWN	SHEARWALL END POST UNO ON PLAN	ALTERNATE HOLDOWN	ANCHOR BOLT DIA.
A	SIMPSON HDU4	(2) 2x STUDS	N/A	5/8"

STEEL COLUMN (SC) SCHEDULE

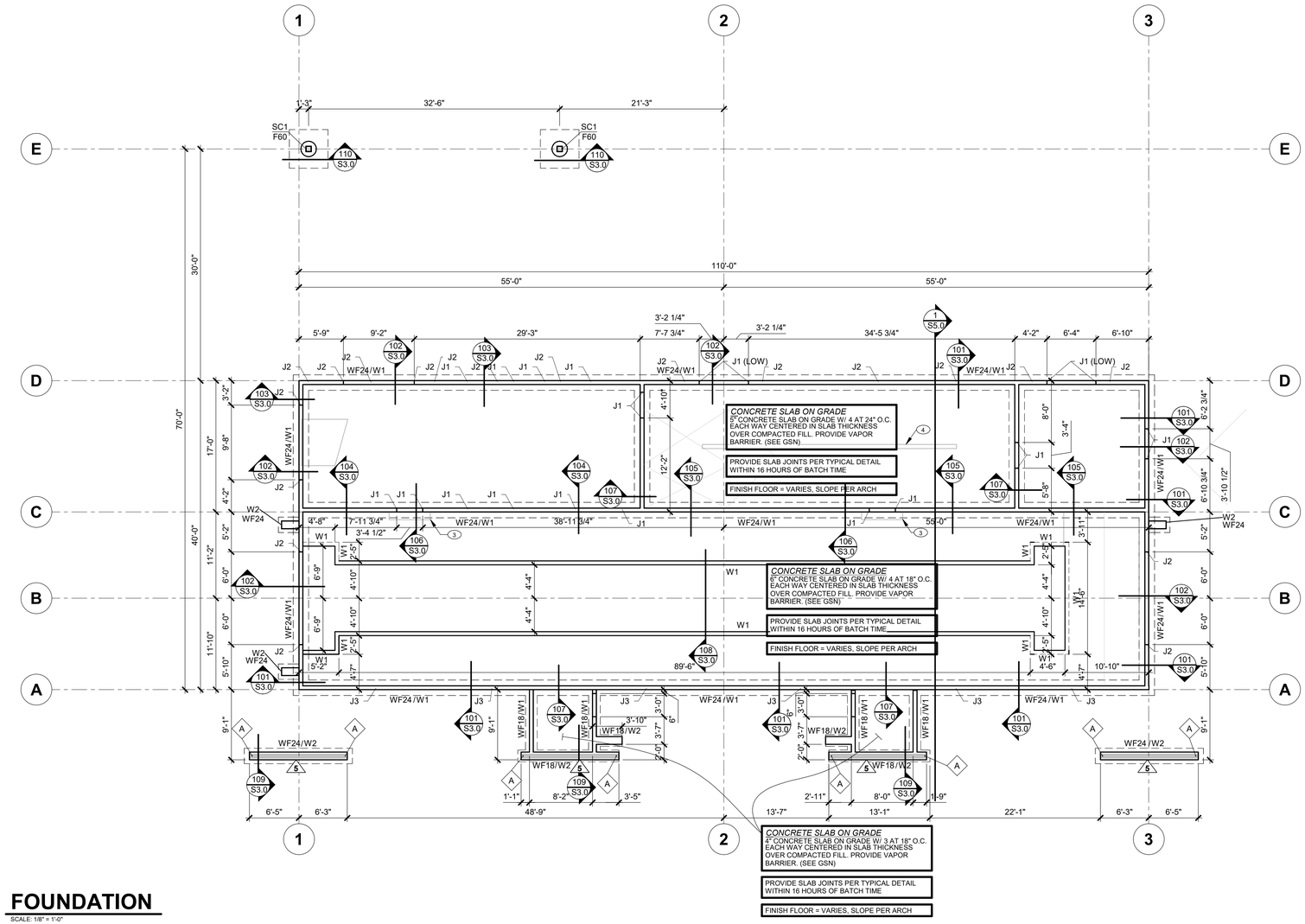
MARK	SIZE	BASE CONNECTION
SC1	HSS8x8x3/8	SEE DETAIL

FOUNDATION PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
C. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
D. W1, W2, ETC. - AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
E. WF18, WF24, ETC. - AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
F. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS.
G. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
H. VERIFY EXACT SIZE AND LOCATION OF OPENINGS IN PRECAST CONCRETE WALL PANELS WITH ARCHITECTURAL DRAWINGS.
I. SC1, SC2, ETC. - AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.
J. (5) (6) (7) -AS SHOWN ON PLAN INDICATES A SHEARWALL. HATCHING IN WALL DESIGNATES SHEARWALL LENGTH.
K. (A) (B) AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
L. TYP TOP OF FOOTING = 98'-0"

KEYNOTES

3	STEP IN SLAB, SEE ARCH
4	TRENCH DRAIN, COORDINATE WITH ARCH FOR SIZE AND LOCATION



FOUNDATION

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

NORTH

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JOB NO.: 24-115 | PROJECT MANAGER: KBB | CAD OPERATOR: AV

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phone: 208.569.5694
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LICENSE
No: 99669
07/18/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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DATE:	07/19/2024
DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

FOUNDATION PLAN

SHEET NUMBER:

S2.0

BINDING

SHEARWALL TYPE SCHEDULE

NOTES:

1. SHEARWALL TYPES LISTED BELOW ARE NOT JOB SPECIFIC. SOME TYPES MAY NOT BE USED ON THE PLANS.
2. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE 43 MIL (MIN) SPACED AT 16" ON CENTER (O.C.) MAXIMUM.
3. ANCHOR BOLTS TO FOUNDATION SHALL EMBED 7" INTO CONCRETE
4. A MINIMUM OF (2) ANCHOR BOLTS SHALL BE USED ON EACH BASE TRACK PIECE. PROVIDE (1) ANCHOR BOLT MINIMUM WITHIN 9" OF EACH END PIECE.
5. PROVIDE CONTINUOUS TOP TRACK AT ALL SHEARWALLS AND EXTERIOR WALL. UNLESS NOTED OTHERWISE (U.N.O.), SEE...
6. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEARWALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
7. BLOCK ALL PANEL EDGES. EDGE FASTEN SHEATHING AT BLOCKED EDGES. BLOCKING SHALL CONSIST OF STUD BLOCKING ...

# MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
5	7/16" APA RATED SHEATHING (BLOCKED) ONE SIDE OF WALL	8d COMMON AT 6" O.C.	8d COMMON AT 12" O.C.	CAST-IN-PLACE CONCRETE: 5/8" DIA. A.B. W/ STANDARD CUT PLATE WASHERS AT 16" O.C PRECAST CONCRETE: SEE DETAILS.

WALL (W) SCHEDULE

TYPE	MATERIAL	THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	CONCRETE	6"	#4 AT 10" O.C.	#4 AT 10" O.C.	WALLS TO BE FORMED WITH EXTRUDED PVC. SEE ARCH
W2	CONCRETE	12"	#4 AT 18" O.C. EACH FACE	#4 AT 10" O.C. EA FACE	---

JAMB (J) SCHEDULE

SEE TYPICAL JAMB DETAIL FOR ADDITIONAL INFORMATION

MARK	REBAR AND QUANTITIES	TYPE	LENGTH	REMARKS
J1	(2) #4	A	8"	REBAR CENTERED
J2	(4) #5	B	8"	REBAR EACH FACE
J3	(6) #5	B	12"	REBAR EACH FACE

LINTEL (L) SCHEDULE

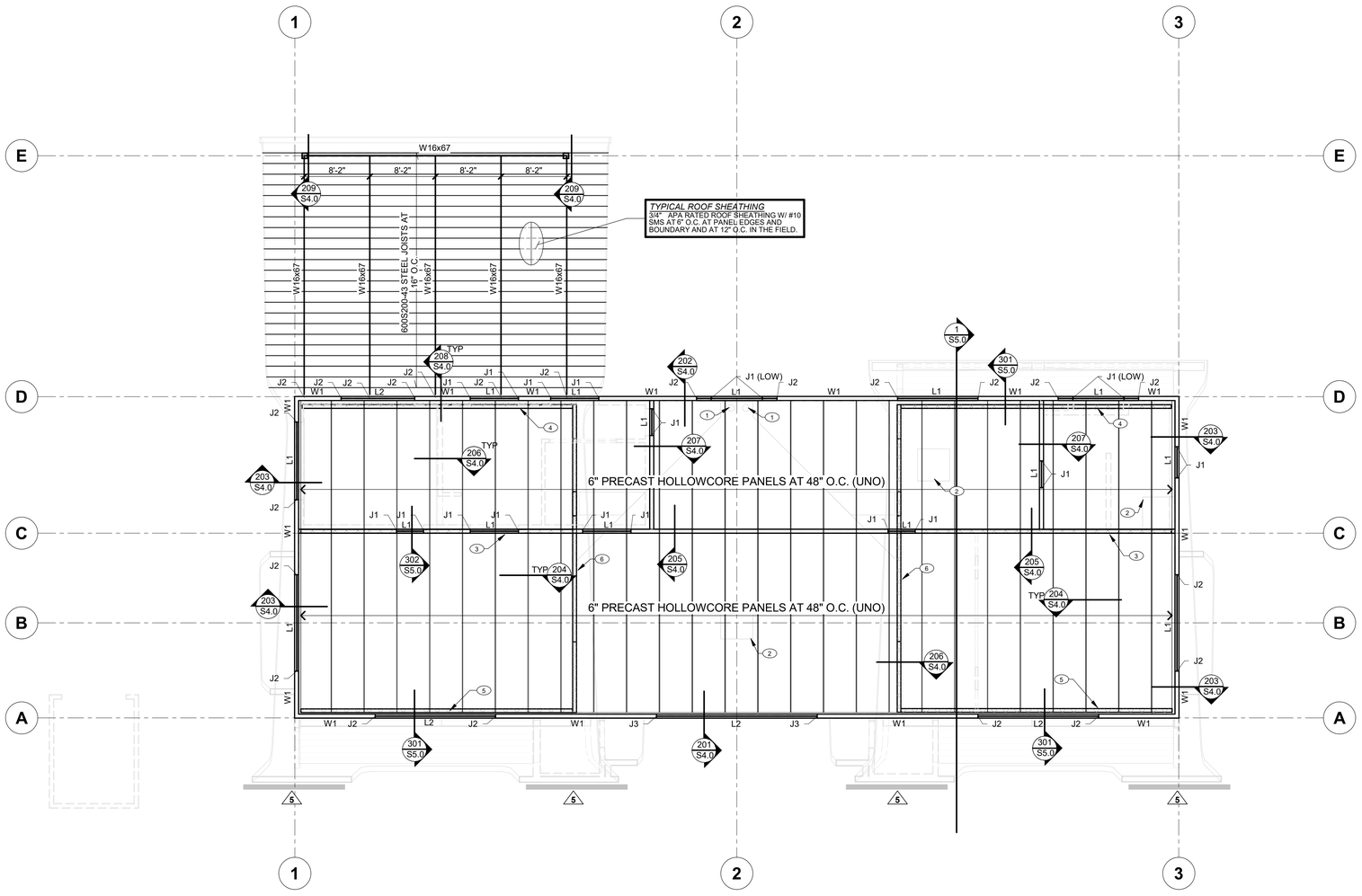
MARK	SIZE	REINFORCING
L1	18" DEEP	(2) #4 TOP AND BOTTOM
L2	24" DEEP	(2) #5 TOP AND BOTTOM

ROOF FRAMING PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
C. TYPICAL BEARING WALL FRAMING SHALL BE 6" PVC FORMED CONCRETE WALL UNO.
D. FOR CLARITY, DETAILS MAY SHOWN ONLY ONE SIDE OF FRAMING CONDITIONS.
E. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON THE ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
F. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL DRAWINGS.
G. (5) (6) (7) -AS SHOWN ON PLAN INDICATES A SHEARWALL. HATCHING IN WALL DESIGNATES SHEARWALL LENGTH.
H. L1, L2, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE OR MASONRY LINTEL. SEE LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.
I. J1, J2, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE OR MASONRY JAMB. SEE JAMB SCHEDULE FOR MORE INFORMATION.

KEYNOTES

X	
1	ROOF DRAINS THROUGH HOLLOWCORE PANELS. SIZE AND LOCATION PER MECH.
2	ROOF ACCESS THROUGH HOLLOWCORE PANELS. SIZE AND LOCATION PER ARCH.
3	DESIGN HOLLOWCORE PANELS AT HATCHED REGIONS FOR ADDITIONAL LOADS FROM THE ATTACHED METAL STUD WALLS ABOVE: 510 PLF DL, 410 PLF LL, AND: 920 PLF WIND (ULTIMATE UPLIFT)
4	DESIGN HOLLOWCORE PANELS AT HATCHED REGIONS FOR ADDITIONAL LOADS FROM THE ATTACHED METAL STUD WALLS ABOVE: 130 PLF DL, 105 PLF LL, AND 240 PLF WIND (ULTIMATE UPLIFT)
5	DESIGN HOLLOWCORE PANELS AT HATCHED REGIONS FOR ADDITIONAL LOADS FROM THE ATTACHED METAL STUD WALLS ABOVE: 490 PLF DL, 390 PLF LL, AND: 875 PLF WIND (ULTIMATE UPLIFT)
6	DESIGN HOLLOWCORE PANELS AT HATCHED REGIONS FOR ADDITIONAL LOADS FROM THE ATTACHED METAL STUD WALLS ABOVE: 170 PLF DL, 140 PLF LL, AND: 310 PLF WIND (ULTIMATE UPLIFT)



ROOF FRAMING PLAN

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

NORTH

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

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DATE:	07/19/2024
DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

ROOF FRAMING PLAN

SHEET NUMBER:

S2.1

BINDING

SHEARWALL TYPE SCHEDULE

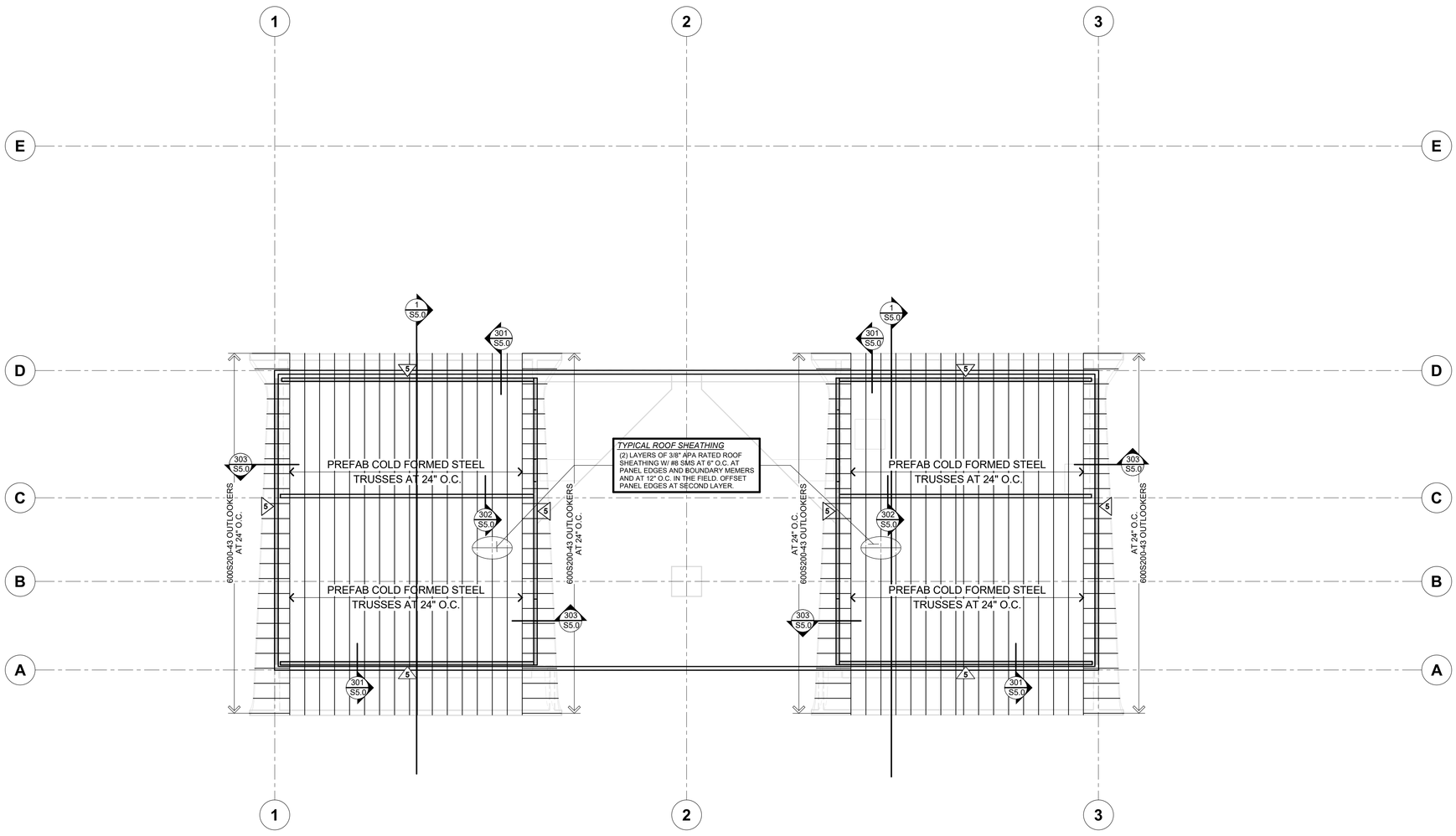
NOTES:

1. SHEARWALL TYPES LISTED BELOW ARE NOT JOB SPECIFIC. SOME TYPES MAY NOT BE USED ON THE PLANS.
2. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE 43 MIL (MIN) SPACED AT 16" ON CENTER (O.C.) MAXIMUM.
3. ANCHOR BOLTS TO FOUNDATION SHALL EMBED 7" INTO CONCRETE
4. A MINIMUM OF (2) ANCHOR BOLTS SHALL BE USED ON EACH BASE TRACK PIECE. PROVIDE (1) ANCHOR BOLT MINIMUM WITHIN 9" OF EACH END PIECE.
5. PROVIDE CONTINUOUS TOP TRACK AT ALL SHEARWALLS AND EXTERIOR WALL. UNLESS NOTED OTHERWISE (U.N.O.), SEE...
6. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEARWALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
7. BLOCK ALL PANEL EDGES. EDGE FASTEN SHEATHING AT BLOCKED EDGES. BLOCKING SHALL CONSIST OF STUD BLOCKING ...

MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
5	7/16" APA RATED SHEATHING (BLOCKED) ONE SIDE OF WALL	8d COMMON AT 6" O.C.	8d COMMON AT 12" O.C.	CAST-IN-PLACE CONCRETE: 5/8" DIA. A.B. W/ STANDARD CUT PLATE WASHERS AT 16" O.C PRECAST CONCRETE: SEE DETAILS.

ROOF FRAMING PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
C. TYPICAL BEARING WALL FRAMING SHALL BE 6" PVC FORMED CONCRETE WALL UNO.
D. FOR CLARITY, DETAILS MAY SHOWN ONLY ONE SIDE OF FRAMING CONDITIONS.
E. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON THE ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
F. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL DRAWINGS.
G. (5), (6), (7), -AS SHOWN ON PLAN INDICATES A SHEARWALL. HATCHING IN WALL DESIGNATES SHEARWALL LENGTH.
H. L1, L2, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE OR MASONRY LINTEL. SEE LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.
I. J1, J2, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE OR MASONRY JAMB. SEE JAMB SCHEDULE FOR MORE INFORMATION.



HIGH ROOF FRAMING PLAN

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

NORTH

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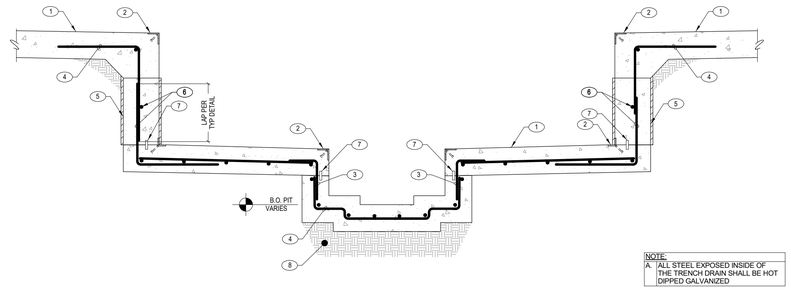
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DATE:	07/19/2024
DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

HIGH ROOF FRAMING PLAN

SHEET NUMBER:

S2.2

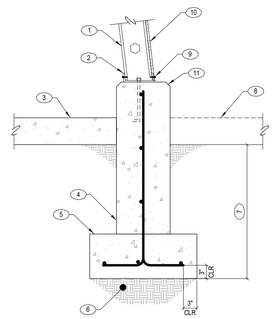
KEYNOTES:	
1.	CONCRETE SLAB ON GRADE, SEE PLAN, SEE ARCH AND CONVEYOR TRENCH DRAWINGS FOR PIT DIMENSIONS
2.	CONT ANGLES W/ ¼" DIA x 2" HEADED STUDS AT 18" O.C. PER CONVEYOR TRENCH DRAWINGS
3.	#4 x 2'-0" DRILL AND EPOXY PER GSN
4.	#4 BENT BARS AT 18" O.C.
5.	PVC FORMED CONCRETE WALL BEYOND, SEE PLAN
6.	#4 BARS AT 18" O.C., EACH WAY
7.	WATER STOP, SEE ARCH
8.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN



NOTE:	
A.	ALL STEEL EXPOSED INSIDE OF THE TRENCH DRAIN SHALL BE HOT DIPPED GALVANIZED

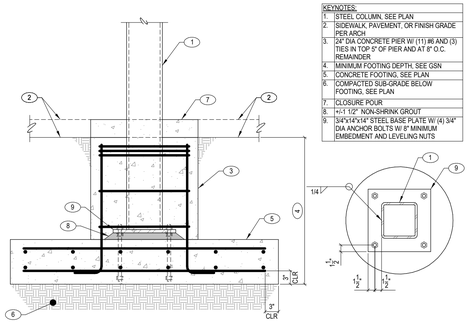
108 DRAIN TRENCH
SCALE: NTS

KEYNOTES:	
1.	STUD WALL, SEE PLAN
2.	CONTINUOUS BOTTOM TRACK W/ ANCHOR BOLT, SEE PLAN
3.	CONCRETE SLAB ON GRADE OR CIVIL FLATWORK, SEE PLAN
4.	CONCRETE CAST IN PLACE WALL, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7.	MINIMUM FOOTING DEPTH, SEE GSN
8.	SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
9.	EDGE FASTENER, SEE SHEARWALL SCHEDULE
10.	WALL SHEATHING AS OCCURS. SEE PLAN
11.	CHAMFER TOP OF WALL PER ARCH



109 STEEL STUD WALL AT FOUNDATION
SCALE: NTS

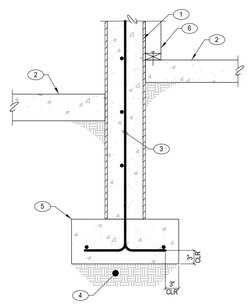
KEYNOTES:	
1.	STEEL COLUMN, SEE PLAN
2.	SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
3.	24" DIA CONCRETE PIER W/ (11) #6 AND (3) TIES IN TOP 5' OF PIER AND AT 8' O.C. REMAINDER
4.	MINIMUM FOOTING DEPTH, SEE GSN
5.	CONCRETE FOOTING, SEE PLAN
6.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7.	CLOSURE POUR
8.	+/-1 1/2" NON-SHRINK GROUT
9.	3/4"x14"x14" STEEL BASE PLATE W/ (4) 3/4" DIA ANCHOR BOLTS W/ 8" MINIMUM EMBEDMENT AND LEVELING NUTS



NOTE:	
A.	PROTECT EXPOSED STEEL AND STEEL BELOW GRADE, SEE ARCH

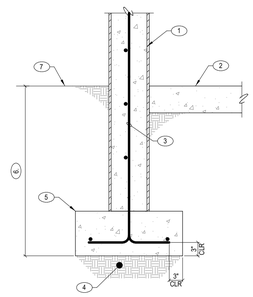
110 STEEL COLUMN AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	NON-STRUCTURAL FURRED OUT STUD WALL PER ARCH



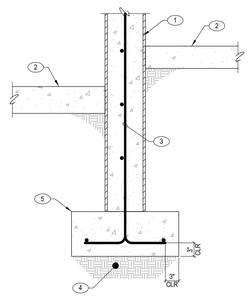
104 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	MINIMUM FOOTING DEPTH, SEE GSN
7.	FINISH GRADE PER ARCH



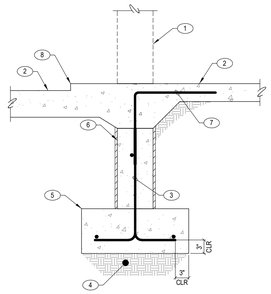
101 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN



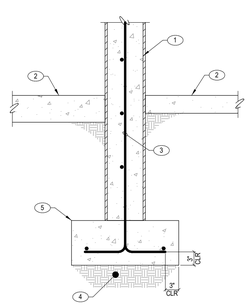
105 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL BEYOND, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	PVC FORMED CONCRETE WALL, SEE PLAN
7.	#4 BENT DOWEL AT 18" O.C. 18" 18"
8.	STEP IN SLAB AT DOOR OPENINGS PER ARCH



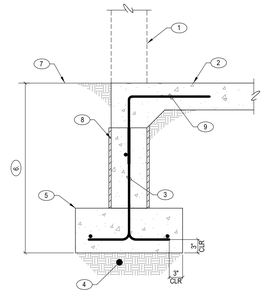
106 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN



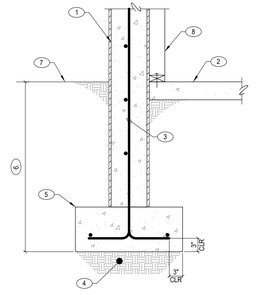
107 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	MINIMUM FOOTING DEPTH, SEE GSN
7.	FINISH GRADE PER ARCH
8.	PVC FORMED CONCRETE WALL, SEE PLAN
9.	#4 BENT DOWEL AT 18" O.C. 18" 18"



102 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

KEYNOTES:	
1.	PVC FORMED CONCRETE WALL, SEE PLAN
2.	CONCRETE SLAB ON GRADE, SEE PLAN
3.	DOWEL SIZE AND SPACING TO MATCH WALL REINFORCEMENT
4.	COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5.	CONCRETE FOOTING, SEE PLAN
6.	MINIMUM FOOTING DEPTH, SEE GSN
7.	FINISH GRADE PER ARCH
8.	NON-STRUCTURAL FURRED OUT STUD WALL PER ARCH



103 PVC FORMED CONCRETE WALL AT FOUNDATION
SCALE: NTS

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

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STAMP:

DAVID B. PORTER LICENSE No: 99669 07/18/2024 STATE OF FLORIDA PROFESSIONAL ENGINEER

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JOB NUMBER:	24.115
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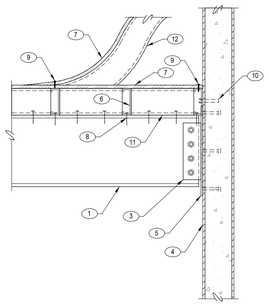
FOUNDATION DETAILS

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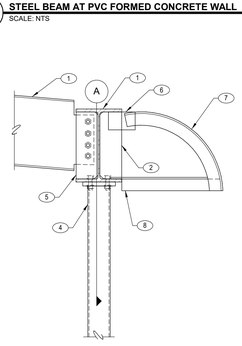
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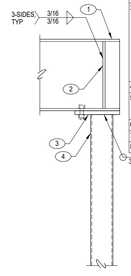
208 STEEL BEAM AT PVC FORMED CONCRETE WALL
SCALE: NTS



KEYNOTES:	
1.	STEEL BEAM, SEE PLAN
2.	(2) ADDITIONAL #5 BARS AT EMBED PLATE, (1) EACH FACE OF WALL
3.	STEEL BEAM SHEAR PLATE, SEE TYPICAL SHEAR PLATE CONNECTION DETAIL
4.	PVC FORMED CONCRETE WALLS, SEE PLAN
5.	1/2" x 15" x 1'-8" STEEL EMBED PLATE W/ (6) 5/8 " DIA x 6" LONG HEADED STUDS
6.	ROOF JOISTS, SEE PLAN
7.	ROOF SHEATHING, SEE PLAN
8.	ATTACH EACH JOIST TO EACH STEEL BEAM BELOW W/ (2) HILTI X-U .157" Ø FASTENERS
9.	EDGE FASTENERS PER PLAN
10.	1/2"x4" TITEN HD ANCHOR AT 32" O.C.
11.	JOIST BLOCKING BETWEEN EACH JOIST W/ (2) HILTI X-U .157" DIA. FASTENERS
12.	PREFAB TRUSS BY OTHERS



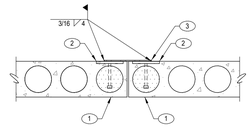
SECTION "A"



KEYNOTES:	
1.	STEEL BEAM, SEE PLAN
2.	3/8" THICK STEEL WEB STIFFENER, EACH SIDE OF BEAM
3.	3/4" THICK STEEL CAP PLATE W/ (2) 3/4 "Ø THRU BOLTS
4.	STEEL COLUMN, SEE PLAN
5.	HOLES IN WEB STIFFENER FOR BOLTED BEAM CONNECTION PER TYPICAL SHEAR PLATE CONNECTION DETAIL
6.	1/4"x4"x0'-6" PLATE
7.	L3x3x3/16, RADIUS PER ARCH
8.	L3x3x3/16, COPE EACH END

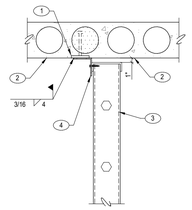
209 STEEL BEAM AT STEEL BEAM AND COLUMN CONNECTION
SCALE: NTS

204 CONCRETE PANEL AT CONCRETE PANEL
SCALE: NTS



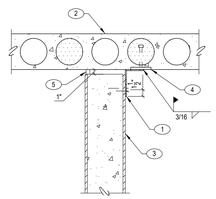
KEYNOTES:	
1.	PRECAST ROOF PANEL, SEE PLAN
2.	1/4"x4"x6" EMBED PLATE W/ (2) ½" DIA.x4" HEADED STUD, PLACED AT 10'-0" O.C. OR (2) PER PANEL
3.	1/4"x6"x0'-8" STEEL PLATE

205 PRECAST ROOF PANEL AT PVC FORMED CONCRETE WALL
SCALE: NTS



KEYNOTES:	
1.	1/4"x4"x6" EMBED PLATE W/ (2) ½" DIA. x 4" LONG HEADED STUDS AT 48" O.C.
2.	PRECAST ROOF PANEL, SEE PLAN
3.	NON BEARING STUD WALL PER ARCH
4.	8" LONG GALVANIZED L4x4x1/4. ATTACH TO TOP TRACK W/ (3) #12-14 SHOULDER SCREWS IN 2" VERTICAL SLOTTED HOLE.

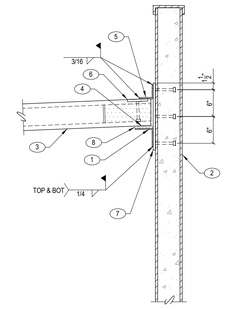
206 NON-BEARING STEEL STUD WALL AT PRECAST ROOF PANEL
SCALE: NTS



KEYNOTES:	
1.	CONT L4x4x1/4 GALVANIZED ANGLE W/ 1/2" DIA x 4" STAINLESS STEEL SCREW ANCHOR AT 24" O.C., PROVIDE 1 ½" LONG VERTICAL SLOTTED HOLE IN ANGLE
2.	PRECAST ROOF PANEL, SEE PLAN
3.	PVC FORMED CONCRETE WALLS, SEE PLAN
4.	1/4"x4"x6" EMBED PLATE W/ (2) ½" DIA.x4" HEADED STUD, PLACED AT 10'-0" O.C. OR (2) PER PANEL
5.	FLEXIBLE, WATERPROOF CAULK PER ARCH

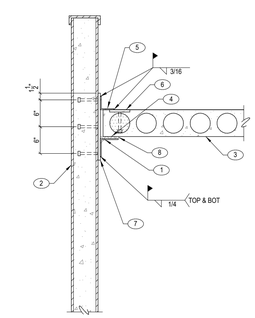
207 PRECAST ROOF PANEL AT PVC FORMED CONCRETE WALL
SCALE: NTS

201 PRECAST ROOF PANEL AT PVC FORMED CONCRETE WALL
SCALE: NTS



KEYNOTES:	
1.	CONT L4x4x1/4 GALVANIZED ANGLE
2.	PVC FORMED CONCRETE WALLS, SEE PLAN
3.	PRECAST ROOF PANEL, SEE PLAN
4.	BEARING PAD BY PRECASTER
5.	CONT L3x3x1/4 ANGLE
6.	¼"x4"x6" EMBED PLATE W/ (2) ½" DIA. x 4" HEADED STUD AT 48" O.C.
7.	¼"x5"x1'-3" GALVANIZED 50 KSI EMBED PLATE W/ (3) ½" DIA. x 4 ½" HEADED STUD AT 36" O.C.
8.	FLEXIBLE, WATERPROOF CAULK PER ARCH

202 PRECAST ROOF PANEL AT PVC FORMED CONCRETE WALL
SCALE: NTS



KEYNOTES:	
1.	CONT L4x4x1/4 GALVANIZED ANGLE
2.	PVC FORMED CONCRETE WALLS, SEE PLAN
3.	PRECAST ROOF PANEL, SEE PLAN
4.	BEARING PAD BY PRECASTER
5.	CONT L3x3x1/4 ANGLE
6.	¼"x4"x6" EMBED PLATE W/ (2) ½" DIA. x 4" HEADED STUD AT 48" O.C.
7.	¼"x5"x1'-3" GALVANIZED 50 KSI EMBED PLATE W/ (3) ½" DIA. x 4 ½" HEADED STUD AT 36" O.C.
8.	FLEXIBLE, WATERPROOF CAULK PER ARCH

203 PRECAST ROOF PANEL AT PVC FORMED CONCRETE WALL
SCALE: NTS

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

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STAMP:

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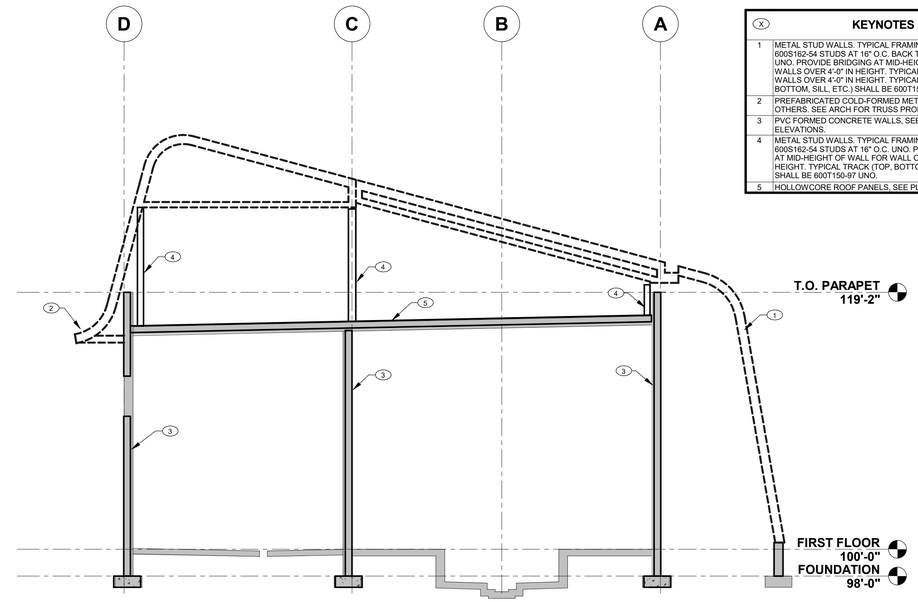
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JOB NUMBER:	24.115
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ROOF FRAMING DETAILS

SHEET NUMBER:

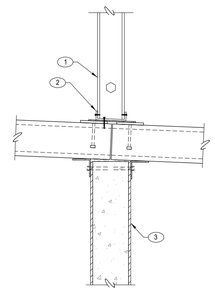
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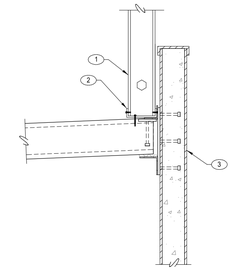
X	KEYNOTES
1	METAL STUD WALLS. TYPICAL FRAMING SHALL BE (2) 600S162-54 STUDS AT 16" O.C. BACK TO BACK FRAMING UNO. PROVIDE BRIDGING AT MID-HEIGHT OF WALL FOR WALLS OVER 4'-0" IN HEIGHT. TYPICAL TRACK (TOP, BOTTOM, SILL, ETC.) SHALL BE 600T150-97 UNO.
2	PREFABRICATED COLD-FORMED METAL TRUSSES BY OTHERS. SEE ARCH FOR TRUSS PROFILE DIMENSIONS.
3	PVC FORMED CONCRETE WALLS, SEE PLAN AND ELEVATIONS.
4	METAL STUD WALLS. TYPICAL FRAMING SHALL BE 600S162-54 STUDS AT 16" O.C. UNO. PROVIDE BRIDGING AT MID-HEIGHT OF WALL FOR WALL OVER 4'-0" IN HEIGHT. TYPICAL TRACK (TOP, BOTTOM, SILL, ETC.) SHALL BE 600T150-97 UNO.
5	HOLLOWCORE ROOF PANELS, SEE PLAN.

1 **BUILDING SECTION**
SCALE: NTS



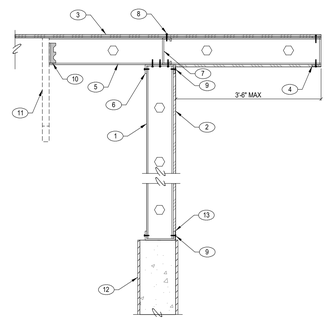
KEYNOTES:	
1.	STEEL STUD WALL, SEE ELEVATION. ATTACH EACH STUD TO TRACK BELOW W/ #10 SCREW EA SIDE.
2.	STEEL TRACK, SEE ELEVATION. ATTACH TO PRECAST PANEL BELOW W/ 1/4" Ø SIMPSON TITEN TURBO SCREWS AT 8" O.C.
3.	PVC FORMED CONCRETE WALLS, SEE PLAN

302 **METAL STUD WALL AT HOLLOWCORE SLAB**
SCALE: NTS



KEYNOTES:	
1.	STEEL STUD WALL, SEE ELEVATION. ATTACH EACH STUD TO TRACK BELOW W/ #10 SCREW EA SIDE.
2.	STEEL TRACK, SEE ELEVATION. ATTACH TO PRECAST PANEL BELOW W/ 1/4" Ø SIMPSON TITEN TURBO SCREWS AT 8" O.C.
3.	PVC FORMED CONCRETE WALLS, SEE PLAN

301 **METAL STUD WALL AT HOLLOWCORE SLAB**
SCALE: NTS



KEYNOTES:	
1.	STEEL STUD WALL, SEE ELEVATION
2.	WALL SHEATHING, SEE SHEARWALL SCHEDULE
3.	ROOF SHEATHING, SEE PLAN
4.	T-150-43 STEEL END TRACK, ATTACH TO EACH JOIST W/ (2) #10 SMS SCREWS.
5.	STEEL STUD JOISTS, SEE PLAN. ATTACH EACH JOIST TO TOP TRACK OF STEEL STUD WALL W/ (3) #12 SMS SCREWS.
6.	CURVED STEEL TRACK W/ LAP SPLICE, SEE ELEVATION TYPICAL DETAIL
7.	STEEL STUD BLOCK BETWEEN EACH JOIST. ATTACH TO TOP TRACK W/ (3) #10 SCREWS
8.	BOUNDARY ATTACHMENT. SEE PLAN
9.	EDGE FASTENER, SEE SHEARWALL SCHEDULE
10.	SIMPSON SFC4.25 AT EACH JOIST, ATTACHED TO EACH MEMBER W/ (4) #10 SCREWS
11.	PREFAB TRUSS BY OTHERS
12.	PVC FORMED CONCRETE WALLS, SEE PLAN
13.	STEEL TRACK, SEE ELEVATION. ATTACH TO PRECAST PANEL BELOW W/ 1/4" DIA. SIMPSON TITEN TURBO SCREWS W/ WASHER AT 8" O.C.

303 **METAL STUD OUTLOOKERS AT METAL STUD WALL**
SCALE: NTS

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JOB NO.: 24-115	PROJECT MANAGER: KBB	CAD OPERATOR: AV

Ridge Structural Engineering
1152 Bond Avenue, Suite B
Rexburg, ID 83440
phone: 208.569.5694
contact@ridgestructural.com

STAMP:

DAVID B. PORTER
LICENSE
No: 95669
07/18/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CONSTRUCTION SET

REVISIONS

#	DATE

AQUASONIC OCOEE

9701 W COLONIAL DRIVE, OCOEE FL 34761

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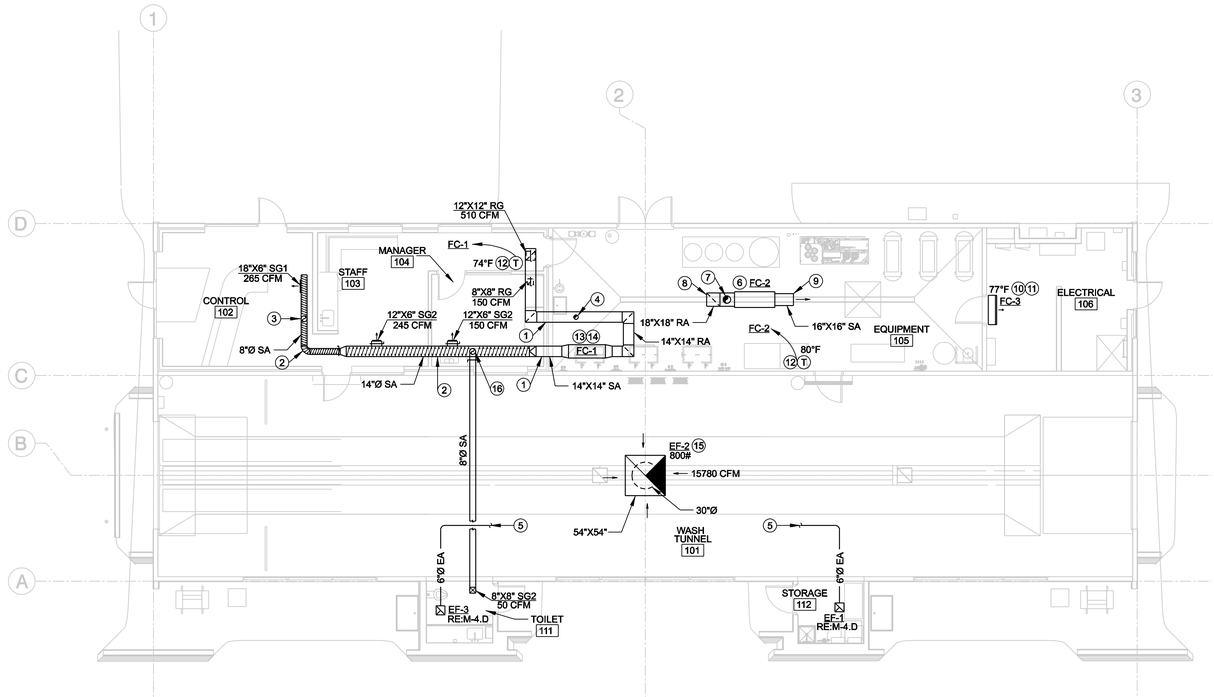
CHECKED:	KBB
DATE:	07/19/2024
DRAWN:	AV
JOB NUMBER:	24.115
ISSUED FOR:	CONSTRUCTION SET

BUILDING SECTIONS AND FRAMING DETAILS

SHEET NUMBER:

S5.0

BINDING



HVAC FLOOR PLAN

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

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC, THEREFORE DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS.
4. ADJUST ALL FAN RPM TO DELIVER CFM VALUES SHOWN AT ELEVATION WHERE INSTALLED.
5. INSULATE PIPING AND DUCTWORK AS REQUIRED BY CODE. MINIMUM R-8 INSULATION ON ALL DUCTWORK IN UNCONDITIONED SPACES.
6. RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE. ALL DUCTWORK SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO WALL AND WITHIN OF BEAMS AND JOISTS.
7. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
8. THE INSTALLATION OF THE MECHANICAL SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE..
9. SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK FROM BLDG STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION.
10. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. MECHANICAL CONTRACTOR SHALL INCREASE DUCT SIZE FOR LINER IF APPLICABLE.
11. ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS STATED OTHERWISE.
12. DIFFUSER SIZES SHOWN ARE NECK SIZES, REGISTER AND GRILLE SIZE ARE NOMINAL.
13. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO AIR HANDLING UNITS.
14. THE INSIDE OF ALL UNLINED DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
15. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
16. ALL SHEET METAL DUCTWORK SHALL BE IN ACCORDANCE WITH 'SMACNA' LVDSC
17. SYSTEM TO COMPLY WITH 2010 FBC; ENERGY CONSERVATION CODE. SEE COMCHECK FOR APPLICABLE DETAILS.
18. CONTRACTOR HAS OPTION TO UTILIZE FLEXIBLE DUCT CONSTRUCTION METHODS THAT ARE IN COMPLIANCE WITH DUCT FREE AREA REQUIREMENTS SHOWN ON PLAN.

KEYED NOTES

1. PENETRATE CMU WALL WITH DUCTWORK AT THIS LOCATION. COORDINATE PENETRATION WITH GENERAL CONTRACTOR.
2. KEEP DUCT TIGHT TO STRUCTURE.
3. DROP SUPPLY AIR DUCT SO THAT BOTTOM OF DUCT IS AT 13'-0" AFF. COORDINATE WORK WITH GENERAL CONTRACTOR AND ARCHITECTURAL CEILING GRID IN THIS AREA.
4. ROUTE 6"Ø OUTSIDE AIR DUCT TO ROOF PENETRATION AND BALANCE TO 55 CFM. PROVIDE WITH MANUAL DAMPER AND MOTORIZED DAMPER INTERLOCKED WITH FAN COIL. MOTORIZED DAMPER TO POWER OPEN AND FAIL CLOSED. SEE SHEET M-2 FOR CONTINUATION.
5. ROUTE 6"Ø EXHAUST DUCT WITHIN STRUCTURE TO ROOFTOP SIDEWALL PENETRATION. SEE SHEET M-2 FOR CONTINUATION. SEE DETAIL M-4.C
6. LOCATION OF HORIZONTAL FAN COIL SUSPENDED FROM CEILING. SEE DETAIL M-4.A
7. ROUTE 10"Ø OUTSIDE AIR DUCT TO ROOF PENETRATION AND BALANCE TO 300 CFM. PROVIDE WITH MANUAL DAMPER AND MOTORIZED DAMPER INTERLOCKED WITH FAN COIL. MOTORIZED DAMPER TO POWER OPEN AND FAIL CLOSED. SEE SHEET M-2 FOR CONTINUATION.
8. TURN UP RETURN AIR DUCT AND LEAVE OPEN TO SPACE. PROVIDE WITH 1/2"X12"X1/2" INLET SCREEN.
9. LEAVE SUPPLY DUCT OPEN TO SPACE.
10. FAN COIL MOUNTED ON WALL ABOVE DOOR. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
11. FAN COIL HAS INTEGRATED THERMISTOR AND REMOTE CONTROL THERMOSTAT.
12. 7-DAY PROGRAMMABLE T-STAT W/ AUTO CHANGE OVER. MOUNT 48" ABOVE FINISHED FLOOR.
13. LOCATION OF HORIZONTAL FAN COIL SUSPENDED FROM STRUCTURE. COORDINATE LOCATION WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR. SEE DETAIL M-4.A.
14. TRANSITION FROM FAN COIL TO SIZE SHOWN.
15. APPROXIMATE LOCATION OF WASH TUNNEL EXHAUST FAN. COORDINATE LOCATION WITH CAR WASH EQUIPMENT VENDOR AND GENERAL CONTRACTOR.
16. RISE UP INTO ATTIC SPACE WITH 8"Ø SUPPLY AIR DUCT AND ROUTE AS SHOWN TO RESTROOM. COORDINATE ROUTING WITH FINAL STRUCTURAL PLANS.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH DUCT	↑ ←⊠→ CD ↓	CEILING DIFFUSER
	DUCTWORK (OVERHEAD)		
	DUCT TRANSITION	⊠ / ⊠	RETURN / EXHAUST GRILLE
	BALANCING DAMPER	Ⓒ	REMOTE CONTROL FOR FAN COIL IN ROOM
RA / SA	RETURN / SUPPLY AIR	Ⓔ	BY ELECTRICAL CONTRACTOR
EA / OSA	EXHAUST / OUTSIDE AIR	Ⓣ	THERMOSTAT
//////////	FLEX DUCT	FD	FIRE DAMPER

ALL SYMBOLS SHOWN MAY NOT BE USED ON DRAWING.

VENTILATION CALCULATIONS

Ventilation Calculations

Floor	Occupancy Room#	CFM/Person	CFM/sq. ft	Occ. Density/ 1000 sq. ft	Sq. ft	# People	CFM Req.	Conditioned By:
1	CONTROL	5	0.06	5	617	2	47	FC-1
	STAFF/MNGR							

BIDDERS SCOPE

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FOR EXAMPLE, THERE IS ELECTRICAL SCOPE OF WORK THAT IS REFERENCED ON THE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES THAT MUST BE INCLUDED.

EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

N

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Phone : 208-888-7145

stamp

RICHARD T. KARTCHNER LICENSE No. 85092 8-22-24 STATE OF FLORIDA PROFESSIONAL ENGINEER

revisions:

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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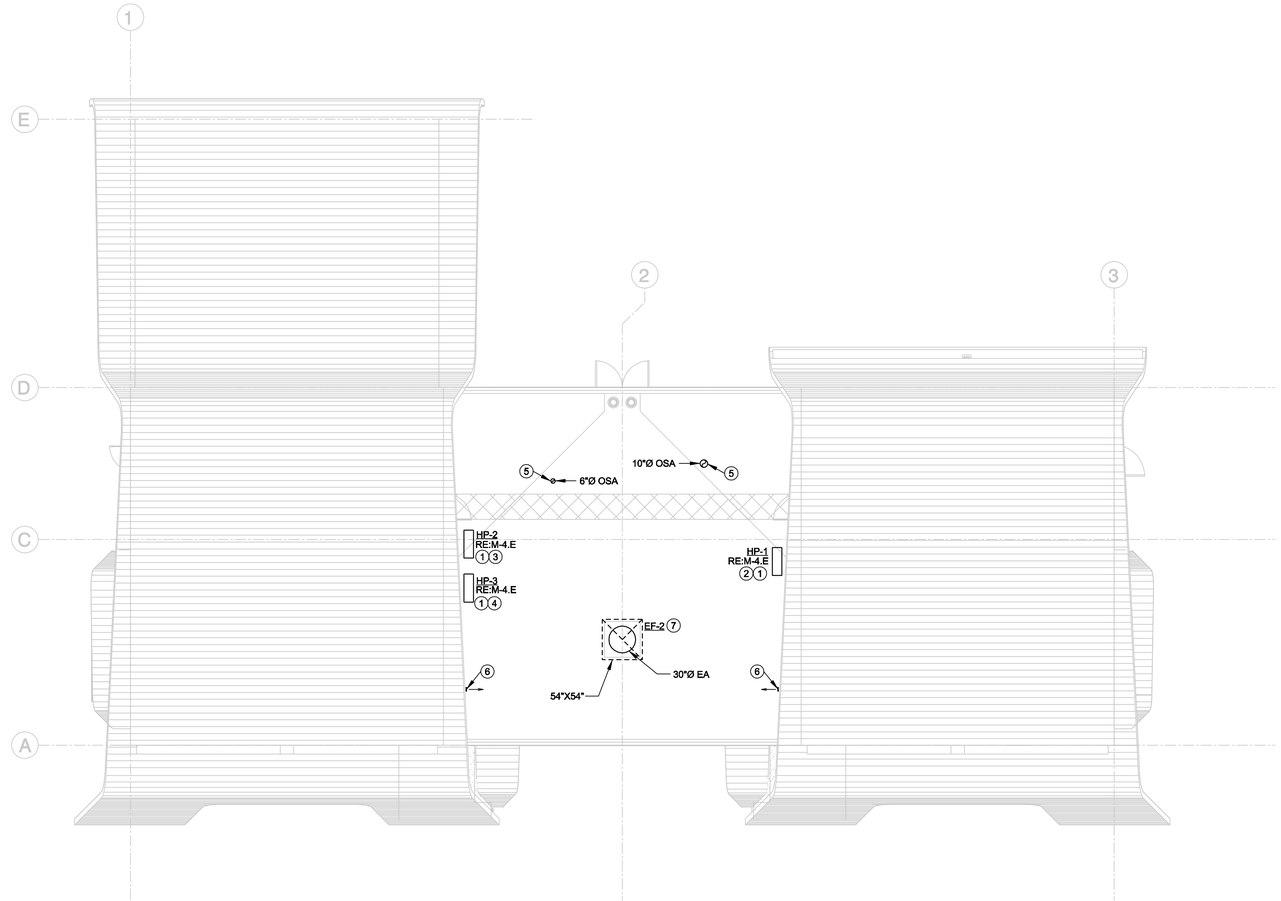
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checked	RTK / JB
date	8/22/24
drawn	AJ / BPS
job no.	24-30
issued for	PERMIT

sheet title: HVAC FLOOR PLAN

sheet number: M-1



HVAC ROOF PLAN

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

KEYED NOTES

1. MOUNT ON MIRO INDUSTRIES PLATFORM OR EQUAL. SEE DETAIL M-4.E.
2. ROUTE REFRIGERANT LINES SIZED BY MANUFACTURER TO INDOOR FAN COIL UNIT (FC-1). SEE SHEET M-1 FOR FAN COIL LOCATION.
3. ROUTE REFRIGERANT LINES SIZED BY MANUFACTURER TO INDOOR FAN COIL UNIT (FC-2). SEE SHEET M-1 FOR FAN COIL LOCATION.
4. ROUTE REFRIGERANT LINES SIZED BY MANUFACTURER TO INDOOR FAN COIL UNIT (FC-3). SEE SHEET M-1 FOR FAN COIL LOCATION.
5. OUTSIDE AIR DUCT UP FROM BELOW. TERMINATE 12" ABOVE FINISHED ROOF WITH WEATHER CAP.
6. EXHAUST DUCT WALL PENETRATION. SEE SHEET M-1 FOR CONTINUATION. SEE DETAIL M-4.F
7. LOCATION OF ROOF MOUNTED EXHAUST FAN SERVING CAR WASH TUNNEL. MOUNT ON MANUFACTURERS RECOMMENDED CURB. COORDINATE LOCATION WITH GENERAL CONTRACTOR. PROVIDE HURRICANE RATED CURB PER MIAMI DADE STANDARDS/REQUIREMENTS.

BIDDERS SCOPE

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checked	RTK / JB
date	8/22/24
drawn	AJ / BPS
job no.	24-30
issued for	PERMIT

sheet title: HVAC ROOF PLAN

sheet number: M-2

HEAT PUMP SCHEDULE

DESIGNATION	HP-1	HP-2	HP-3
LOCATION SERVED	FC-1	FC-2	FC-3
COOLING CAPACITY (MBH)	24.0	53.0	21.2
HEATING CAPACITY (MBH)	27.0	54.5	23.6
MIN EAT °F DB HEATING	-4	-10	5
MAX EAT °F DB COOLING	118	115	115
EER2	11.45	8.0	12.0
HPSF2	9.7	8.1	9.5
SEER2	17.6	16.1	19.0
MCA/MOCP	20/30	36.2/40	16.4/20
VOLTS/PHASE	208/1	208/1	208/1
DIMENSIONS LxWxH (IN)	13 X 37.5 X 32.5	13.5 X 37 X 39.5	13.5 X 37 X 27.5
MANUFACTURER	LG	AMANA	DAIKIN
MODEL	LUU240HV	ASZ6060010A	RX24AXVJU
SYSTEM MODEL NUMBER	LV241HV	- - -	- - -
WEIGHT (LBS)	130	179	130
NOTES	1,2	1,2	1,2

NOTES:

1. CONTRACTOR MAY PROVIDE EQUIVALENT ALTERNATE. SUBMIT TO ENGINEER FOR APPROVAL.
2. MOUNT ON MIRO INDUSTRIES PLATFORM OR EQUAL.

FAN COIL UNIT SCHEDULE

DESIGNATION	FC-1	FC-2	FC-3	
CONFIGURATION	HORIZONTAL	HORIZONTAL	WALL HUNG	
LOCATION SERVED	SEE PLANS	SEE PLANS	SEE PLANS	
COOLING CAPACITY (MBH)	24.0	53.0	21.2	
HEATING CAPACITY (MBH)	27.0	54.5	23.6	
MIN EAT °F DB HEATING	59	59	59	
MAX EAT °F DB COOLING	77	77	77	
AIR FLOW (CFM)	640	1640	605	
VOLTS/PHASE	- - -	208/1	- - -	
MCA/MOCP	- - -	6.5/15	- - -	
REFRIGERANT	R410A	R410A	R410A	
DIMENSIONS (LXWXH) (IN)	18 X 21.5 X 49.5	21 X 24.5 X 58	21 X 24.5 X 58	
MANUFACTURER	LG	AMANA	DAIKIN	
MODEL	LVN241HV4	AHVE60DP1400	FTX24AXVJU	
WEIGHT (LBS)	117	167	25	
NOTES	1,2,3,4	1,2,5	1,2,4	

NOTES:

1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR MAY PROVIDE EQUIVALENT ALTERNATE. SUBMIT TO ENGINEER FOR APPROVAL.
3. ORDER WITH THERMOSTAT MODEL #PREMTB100
4. PROVIDE WITH CONDENSATE PUMP ASPEN MINI WHITE (MODEL:ASP-MW-UNI) OR EQUAL.
5. ORDER WITH CONDENSATE MANAGEMENT KIT #CMK0017

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1 & EF-3	EF-2		
TYPE	CABINET	ROOF MOUNTED		
AREA SERVED	BATHROOM	WASH TUNNEL		
AIR FLOW (CFM)	70	15780		
E.S.P. (IN. W.G.)	0.25	0.0		
MOTOR SIZE	26 W	5 HP		
FAN SPEED (RPM)	- - -	1759		
DRIVE	DIRECT	DIRECT		
VOLTS/PHASE/HZ	120/1/60	460/3/60		
MANUFACTURER	BROAN	AEROVENT		
MODEL	RB80	30B206 D53		
WEIGHT	12.0	486		
ROOF OPENING	- - -	- - -		
NOTES	1,2	3,4,5,6,7		

NOTES:

1. PROVIDE GRAVITY BACKDRAFT DAMPER
2. EXHAUST FAN SWITCHED WITH LIGHTING
3. PROVIDE WITH HINGED CURB BASE TYPE 1 GALV. 8" TALL (ROOF OVER FLASHING)
4. ENTIRE FAN ASSEMBLY TO BE OF 304SS CONSTRUCTION.
5. ORDER WITH 30G30422 PROP (22" BLADE, POLYPROPYLENE CONSTRUCTION)
6. ORDER WITH (2) STAINLESS STEEL LIFTING RINGS
7. MOTOR TO BE TEFC, 184TC TYPE MOTOR WITH C FACE AND MOUNTING FEET, MOTOR TO BE WASHDOWN DUTY BUILT AND EXTERNAL SURFACES TO BE STAINLESS STEEL MOTOR MODEL #TECO WP0052C

AIR DEVICE SCHEDULE

DESIGNATION	SG1	SG2	RG
TYPE & DUTY	SUPPLY GRILLE	SUPPLY GRILLE	RETURN GRILLE
CEILING TYPE	N/A	N/A	N/A
N.C. LEVEL MAX	30	30	30
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	S300FL	271FL	350RL
NOTES	1	1	1

NOTES:

1. CONTRACTOR HAS OPTION TO PROVIDE EQUIVALENT ALTERNATE. SUBMIT TO ENGINEER FOR APPROVAL.

LOAD CALCULATIONS

Air System Sizing Summary for CONTROL

Project Name: 24-30 AQUASONIC CAR WASH OCOEE
Prepared by: Kartchner Beaucannon Associates
04/18/2024
04:52PM

Air System Information

Air System Name	CONTROL	Number of zones	1
Equipment Class	SPLT AHU	Floor Area	625.0 ft²
Air System Type	SZCAV	Location	Orlando, Florida

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	1.2	Tons	Load occurs at	Jun 1500	
Total coil load	14.4	MBH	OA DB / WB	93.0 / 76.0	°F
Sensible coil load	12.6	MBH	Entering DB / WB	76.4 / 65.4	°F
Coil CFM at Jun 1500	699	CFM	Leaving DB / WB	59.7 / 58.7	°F
Max block CFM	699	CFM	Coil ADP	57.8	°F
Sum of peak zone CFM	699	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.871		Resulting RH	56	%
CFM/Ton	581.4		Design supply temp.	58.0	°F
ft²/Ton	520.2		Zone T-stat Check	0 of 1	OK
BTU/(hr-ft²)	23.1		Max zone temperature deviation	0.1	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	6.1	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	699	CFM	BTU/(hr-ft²)	9.7	
Max coil CFM	699	CFM	Ent. DB / Lvg DB	69.0 / 77.1	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	699	CFM	Fan motor BHP	0.00	BHP
Standard CFM	696	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	1.12	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	53	CFM	CFM/person	17.50	CFM/person
CFM/ft²	0.08	CFM/ft²			

Air System Sizing Summary for EQUIPMENT

Project Name: 24-30 AQUASONIC CAR WASH OCOEE
Prepared by: Kartchner Beaucannon Associates
04/18/2024
04:50PM

Air System Information

Air System Name	EQUIPMENT	Number of zones	1
Equipment Class	SPLT AHU	Floor Area	760.0 ft²
Air System Type	SZCAV	Location	Orlando, Florida

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	2.8	Tons	Load occurs at	Jul 1400	
Total coil load	34.1	MBH	OA DB / WB	93.5 / 75.9	°F
Sensible coil load	32.0	MBH	Entering DB / WB	75.3 / 64.0	°F
Coil CFM at Jul 1400	1784	CFM	Leaving DB / WB	58.7 / 57.6	°F
Max block CFM	1784	CFM	Coil ADP	56.8	°F
Sum of peak zone CFM	1784	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.937		Resulting RH	54	%
CFM/Ton	627.1		Design supply temp.	58.0	°F
ft²/Ton	267.2		Zone T-stat Check	1 of 1	OK
BTU/(hr-ft²)	44.9		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	5.9	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	1784	CFM	BTU/(hr-ft²)	7.8	
Max coil CFM	1784	CFM	Ent. DB / Lvg DB	70.7 / 73.8	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	1784	CFM	Fan motor BHP	0.00	BHP
Standard CFM	1777	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	2.35	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	61	CFM	CFM/person	20.20	CFM/person
CFM/ft²	0.08	CFM/ft²			

ENERGY COMPLIANCE

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	24-30 AQUASONIC OCOEE
Location:	Ocoee, Florida
Climate Zone:	2a
Project Type:	New Construction

Construction Site:
9701 W Colonial Drive
Ocoee, Florida 34761

Owner/Agent:
Josh Howa
Spotless Wash Solutions
Boise, Idaho
208-841-4524
josh@spotlesswashsolutions.com

Designer/Contractor:
Tyler Beaucannon
Kartchner Beaucannon Associates
1301 S Five Mile Road
Boise, Idaho 83709
208-888-7145
tbeaucannon@kbamep.com

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 HP-1 (Single Zone):
Split System Heat Pump
Heating Mode; Capacity = 27 kBtu/h,
Proposed Efficiency = 9.70 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode; Capacity = 24 kBtu/h,
Proposed Efficiency = 17.60 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 HP-2 (Single Zone):
Split System Heat Pump
Heating Mode; Capacity = 55 kBtu/h,
Proposed Efficiency = 8.10 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode; Capacity = 53 kBtu/h,
Proposed Efficiency = 16.10 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 HP-3 (Single Zone):
Split System Heat Pump
Heating Mode; Capacity = 24 kBtu/h,
Proposed Efficiency = 9.50 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode; Capacity = 21 kBtu/h,
Proposed Efficiency = 19.00 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 WH-1:
Electric Storage Water Heater, Capacity: 20 gallons w/ Circulation Pump
No minimum efficiency requirement applies

1 WH-2:
Electric Storage Water Heater, Capacity: 15 gallons
No minimum efficiency requirement applies

1 EWH-1:
Electric Instantaneous Water Heater, Capacity: 0 gallons
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

RICHARD T. KARTCHNER P.E. — Name - Title
Signature
8/22/24 — Date

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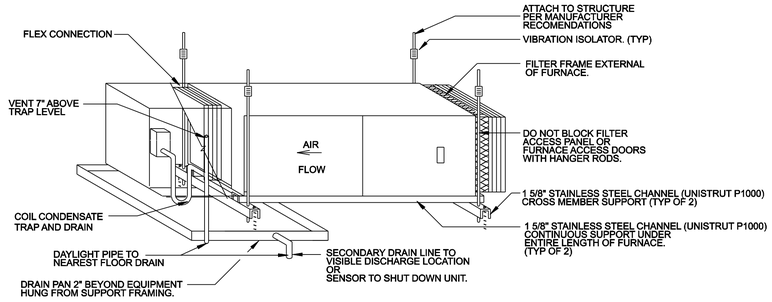
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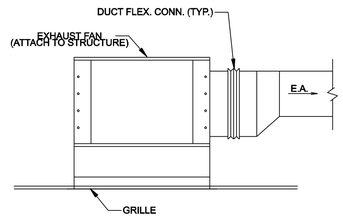
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MECHANICAL SCHEDULES

sheet number:
M-3

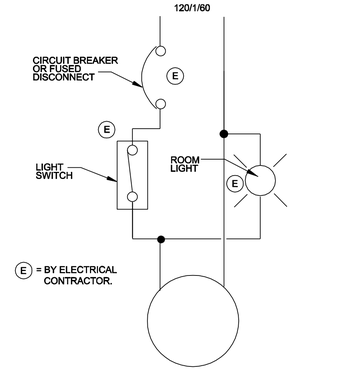


FURNACE SUPPORT DETAIL (A)
SCALE: NONE

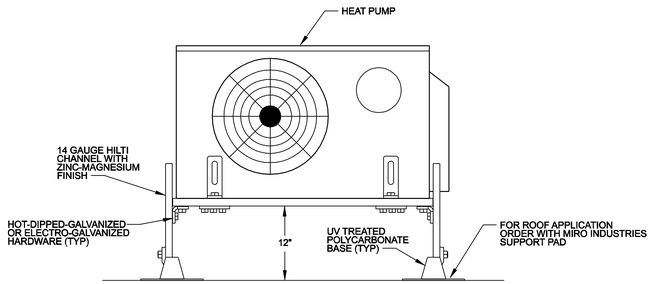
NOT USED (B)
SCALE: NONE



EXHAUST FAN DETAIL (C)
SCALE: NONE

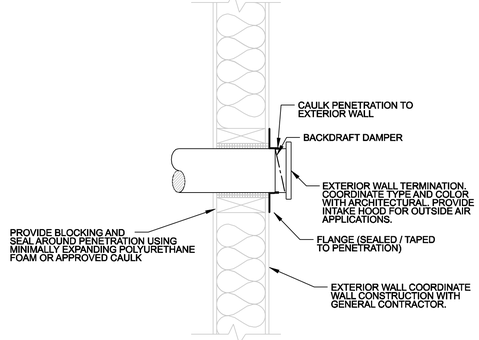


EXHAUST FAN CONTROL (D)
SCALE: NONE



NOTE: MIRO INDUSTRIES PLATFORM SHALL BE HURRICANE RATED PER MIAMI DADE STANDARDS/REQUIREMENTS. PROVIDE EQUIPMENT SUBMITTAAL FOR ENGINEER REVIEW AND CITY PERMIT SUBMITTAL.

HEAT PUMP PLATFORM DETAIL (E)
SCALE: NONE



OUTSIDE/EXHAUST AIR WALL PENETRATION (F)
SCALE: NONE

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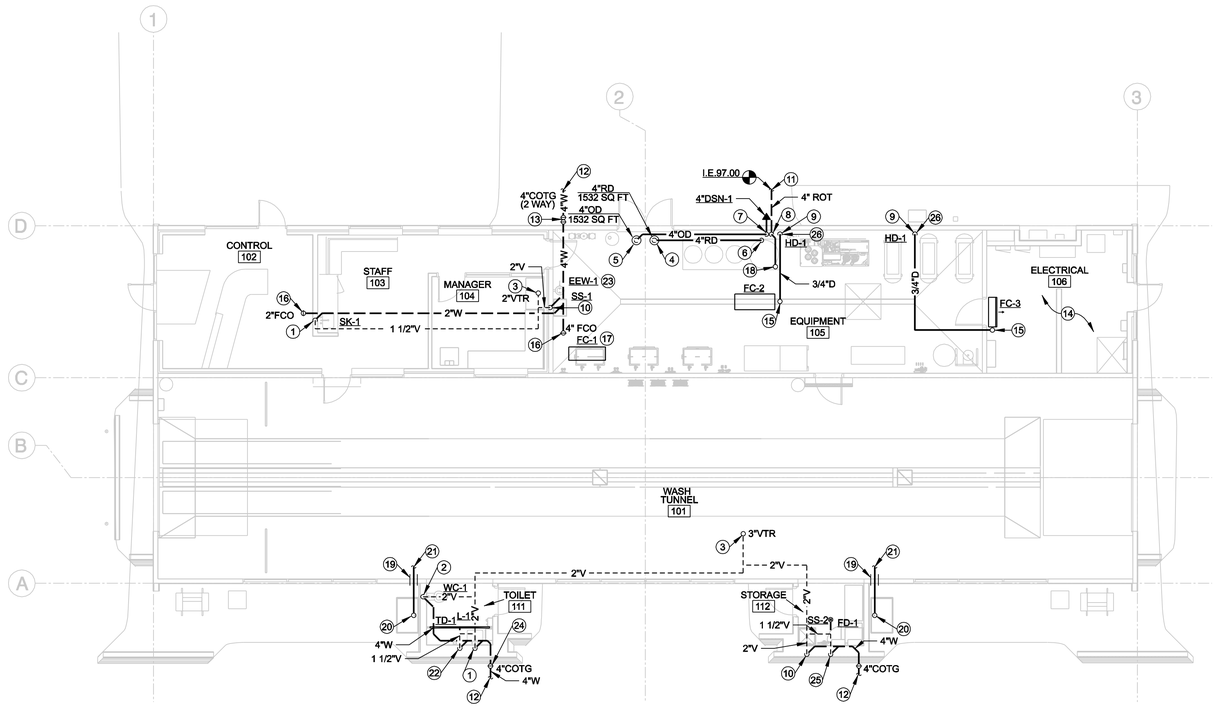
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M-4



WASTE AND VENT FLOOR PLAN

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

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC, THEREFORE DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS.
4. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
5. ALL WORK SHALL COMPLY WITH THE 2010 FLORIDA BUILDING CODE PLUMBING.
6. COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
7. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
8. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
9. PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED UPON COMPLETION OF CONSTRUCTION.COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURN- OVER TO THE OWNER.
10. ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2".
11. INSTALL SANITARY PIPING 3" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING LARGER THAN 3" AT A SLOPE OF 1/8" PER FOOT.
12. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
13. INVERT ELEVATIONS WHEN SHOWN ON WASTE AND VENT PLANS ARE FOR ESTIMATION PURPOSES ONLY. CONTRACTOR SHALL COORDINATE ALL FINAL INVERTS IN FIELD.
14. CONTRACTOR WHEN APPLICABLE SHALL PATCH / REPAIR ALL SAW CUTS REQUIRED TO MATCH EXISTING CONDITIONS. COORDINATE WORK WITH GENERAL CONTRACTOR.
15. INSULATE ALL PIPING PER 2010 FLORIDA BUILDING CODE ENERGY CONSERVATION..
16. ALL PLUMBING INSTALLED ON EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF THE INSULATION.
17. SEE SHEET A1.3 FOR ADDITIONAL BENEATH SLAB PLUMBING REQUIREMENTS.

KEYED NOTES

1. ROUGH - IN 2" WASTE AND 1 1/2" VENT FOR SINK / LAVATORY AT THIS LOCATION.
2. ROUGH - IN 4" WASTE AND 2" VENT FOR WATER CLOSET AT THIS LOCATION.
3. RISE UP TO VENT THROUGH ROOF AT THIS LOCATION. SEE DETAIL P-3.A
4. LOCATION OF PRIMARY ROOF DRAIN ABOVE. SEE DETAIL P-3.E
5. LOCATION OF SECONDARY ROOF DRAIN ABOVE. SEE DETAIL P-3.F
6. DROP DOWN WITH 4" PRIMARY ROOF DRAIN TO RO REJECT TANK 1 COORDINATE CONNECTION LOCATION WITH CAR WASH EQUIPMENT SUPPLIER.
7. DROP DOWN WITH 4" SECONDARY ROOF DRAIN ALONG INSIDE OF EXTERIOR WALL AT THIS LOCATION. DAYLIGHT 18" ABOVE FINISHED GRADE WITH DOWNSPOUT NOZZLE. SLEEVE PIPING WITHIN CMU WALL COORDINATE WITH GENERAL CONTRACTOR. SEAL PENETRATION WATER TIGHT. SEE DETAIL P-3.G
8. DROP DOWN BELOW SLAB WITH 4" OVERFLOW FROM RO REJECT TANK AT THIS LOCATION. COORDINATE LOCATION WITH CARWASH EQUIPMENT SUPPLIER.
9. ROUGH-IN 3" HUB DRAIN AT THIS LOCATION. REFER TO WASH EQUIPMENT PLUMBING PLAN ON SHEET A1.5a FOR SCOPE OF WORK.
10. ROUGH - IN 3" WASTE AND 2" VENT FOR SERVICE SINK AT THIS LOCATION.
11. TERMINATE 4" REJECT TANK OVERFLOW PIPING 5'-0" OUTSIDE BUILDING FOR SITE CONNECTION BY OTHERS. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
12. WORK SCOPE LIMIT 5'-0" OUTSIDE BUILDING. COORDINATE SITE CONNECTION WITH CIVIL / GENERAL CONTRACTOR.
13. 2-WAY CLEANOUT TO GRADE. SEE DETAIL P-3.D
14. DO NOT ROUTE ANY PLUMBING OVER ELECTRICAL ROOM.
15. ROUTE CONDENSATE FROM FAN COIL TO EXTERIOR WALL INSIDE EQUIPMENT ROOM.
16. LOCATION OF FLOOR CLEAN OUT. SEE DETAIL P-3.C.
17. ROUTE 3/4" CONDENSATE FROM FAN COIL UNIT TO SERVICE SINK (SS-1) WITH 1" AIR GAP. COORDINATE WORK WITH HVAC CONTRACTOR.
18. 4"OVERFLOW FROM RO REJECT TANK 1. COORDINATE CONNECTION LOCATION WITH CAR WASH EQUIPMENT SUPPLIER.
19. PROVIDE STEEL SLEEVE FOR 2" DRAIN PIPE AND PENETRATE THOUGH WALL AT THIS LOCATION. SEAL PENETRATION WEATHER TIGHT.
20. ROUGH - IN 2" DRAIN PIPE FOR CAR MATT WASH SINK AT THIS LOCATION.
21. REFER TO WASH EQUIPMENT PLUMBING PLAN ON SHEET A1.5a FOR DRAIN PIPE CONTINUATION / WORK SCOPE.
22. ROUGH - IN 2" WASTE AND 1 1/2" VENT FOR LINEAR DRAIN AT THIS LOCATION.
23. INDIRECT DRAIN FROM EYE WASH INTO SERVICE SINK (SS-1) WITH 1" AIR GAP.
24. LOCATION OF CLEAN OUT TO GRADE. SEE DETAIL P-3.C.
25. ROUGH - IN 2" WASTE AND 1 1/2" VENT FOR FLOOR DRAIN AT THIS LOCATION. SEE DETAIL P-3.K.
26. ROUTE CONDENSATE FROM FAN COIL TO HUB DRAIN. TERMINATE WITH 1" AIR GAP.

PLUMBING LEGEND

SYMBOL OR ABBREVIATION	MEANING
— — ·W— —	SOIL OR WASTE BELOW GRADE
——— W ———	SOIL OR WASTE ABOVE GRADE
- - - - V - - - -	VENT
—·—·—·—·—	COLD WATER ABOVE
·—·—·—·—·—	HOT WATER ABOVE
——— D ———	INDIRECT DRAIN
——— G ———	NATURAL GAS
⋈	BALL VALVE
——MPG———	MEDIUM PRESSURE GAS
—·—SW—·—	SOFTENED COLD WATER
——— R ———	HOT WATER RECIRC.
C.O.T.G.	CLEAN OUT TO GRADE
VTR	VENT THRU ROOF
W.C.O.	WALL CLEANOUT
——SO———	SAND / OIL WASTE
F.C.O.	FLOOR CLEANOUT
◓	POINT OF CONNECTION FROM NEW SERVICE TO EXISTING./ INVERT ELEV.

ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWING

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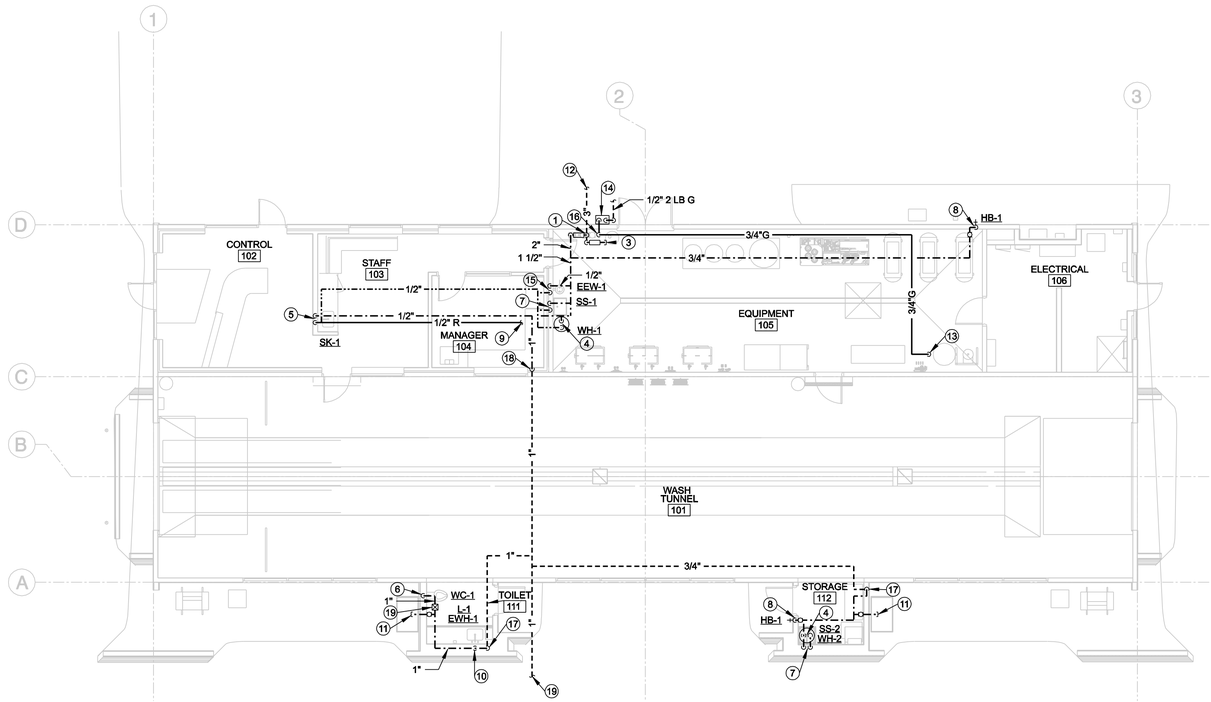
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sheet number: P-1



WATER AND GAS FLOOR PLAN

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

KEYED NOTES

1. RISE UP WITH 3" DCW FROM BELOW SLAB AT THIS LOCATION TO BACKFLOW ASSEMBLY. SEE DETAIL P-3.B.
2. NOT USED.
3. CAP 2" CW FOR PROCESS EQUIPMENT CONNECTION. COORDINATE LOCATION WITH CAR WASH EQUIPMENT SUPPLIER.
4. ROUGH - IN 3/4" DCW AND 3/4" DHW FOR WATER HEATER AT THIS LOCATION. SEE DETAIL P-3.H
5. ROUGH - IN 1/2" DCW AND 1/2" DHW FOR SINK / LAVATORY AT THIS LOCATION.
6. ROUGH - IN 1" DCW FOR WATER CLOSET AT THIS LOCATION.
7. ROUGH - IN 1/2" DCW AND 1/2" DHW FOR SERVICE SINK AT THIS LOCATION.
8. ROUGH - IN 3/4" DCW FOR HOSE BIBB AT THIS LOCATION.
9. CONTINUE 1/2" RECIRC LINE TO WATER HEATER AND CONNECT TO DCW LINE SERVING WATER HEATER. SEE DETAIL P-3.H
10. ROUGH - IN 1/2" DCW FOR LAVATORY AT THIS LOCATION. INSTALL POINT OF USE WATER HEATER UNDER LAVATORY AND TEE OFF 1/2" DCW AND CONNECT TO WATER HEATER. CONNECT 1/2" DHW FROM WATER HEATER TO LAVATORY FAUCET.
11. ROUGH - IN 1/2" DCW AT THIS LOCATION FOR CAR MAT WASH SINK (PROVIDED BY OTHERS).
12. WORK SCOPE LIMIT 5'-0" OUTSIDE BUILDING. COORDINATE SITE CONNECTION WITH CIVIL / GENERAL CONTRACTOR.
13. ROUGH - IN 1 1/4" GAS FOR BOILER AT THIS LOCATION. VERIFY CONNECTION SIZE AND LOCATION WITH CAR WASH EQUIPMENT SUPPLIER.
14. LOCATION OF GAS METER. COORDINATE LOCATION WITH GENERAL CONTRACTOR AND LOCAL GAS UTILITY PROVIDER. SEE DETAIL P-3.J
15. ROUGH - IN 1/2" DCW AND 1/2" DHW FOR EYE WASH MIXING VALVE AT THIS LOCATION. CONNECT 1/2" TEPID WATER TO EYE WASH UNIT. SET TEMPERATURE FOR 80°F.
16. RISE UP WITH 1 1/4" GAS TO UNDERSIDE OF STRUCTURE AT THIS LOCATION AND ROUTE AS SHOWN.
17. 3/4" DCW FROM BELOW SLAB. RISE UP TO CEILING SPACE AND ROUTE AS SHOWN.
18. DROP DCW DOWN BELOW SLAB AT THIS LOCATION AND ROUTE IN PROTECTIVE SLEEVE AS SHOWN. TERMINATE PROTECTIVE SLEEVE 6" ABOVE SLAB WITHIN TOILET 111 AND STORAGE 112.
19. ROUTE 1" DCW TO EXTERIOR HOSE BIBBS. COORDINATE LOCATION WITH ARCHITECTURAL SITE PLAN SHEET A0.1a.
20. PROVIDE WATER HAMMER ARRESTOR MIFAB MWH-B OR EQUAL.

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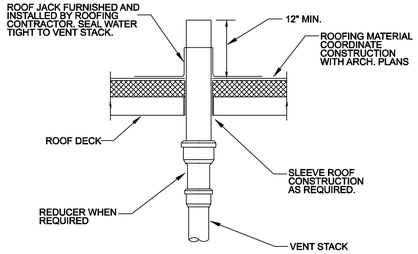
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PLUMBING FIXTURE SCHEDULE

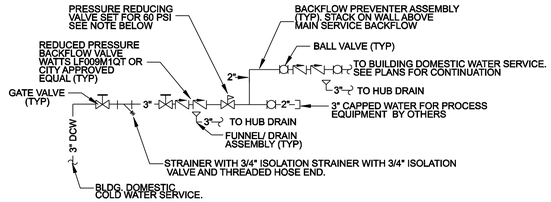
SYMBOL	DESCRIPTION	MANUFACTURE & MODEL #	TRIM & DETAIL REFERENCE	CONNECTIONS (IN.)				NOTES
				H.W.	C.W.	W.	V.	
SK-1	SINGLE COMPARTMENT SINK (ADA)	ELKAY DAYTON 17" X 21 1/4" DROP IN SINGLE BASIN STAINLESS STEEL KITCHEN SINK MODEL # D117211	DELTA ESSA SINGLE HANDLE PULL-DOWN KITCHEN FAUCET IN CHROME MODEL# 9113-DST	1/2"	1/2"	2"	1 1/2"	DROP-IN SINK. ADA COMPLIANT 18 GAUGE STAINLESS STEEL WITH FAUCET LEDGE
SS-1	SERVICE SINK	TRINITY STAINLESS STEEL UTILITY SINK WITH PULL-OUT FAUCET MODEL THA-0321	FAUCET INCLUDED WITH SINK	1/2"	1/2"	3"	2"	PROVIDE WITH VACUUM BREAKER
SS-2	RECESSED SERVICE SINK	REGENCY 16-GAUGE 304 STAINLESS STEEL FLOOR MOUNTED MOP SINK WITH SPLASH GUARD - 22" X 21 3/8" X 10" BOWL ITEM NUMBER ITEM #: 600SMFSS23R	REGENCY WALL-MOUNTED MOP SINK FAUCET WITH 6 1/2" SPOUT, 8" CENTERS, AND VACUUM BREAKER ITEM NUMBER ITEM #: 600FMS86	1/2"	1/2"	3"	2"	VERIFY SPLASH GUARD WITH MOP SINK PLACEMENT ON PLANS
L-1	WALL MOUNTED LAVATORY	AMERICAN STANDARD DECLYN WALL-HUNG SINK LESS OVERFLOW WITH 4-INCH CENTERSET MODEL# 0321975.020	SLOAN MODEL: SF-2300 SENSOR ACTIVATED ELECTRONIC CENTERSET HAND WASHING FAUCET FOR HOT/COLD WATER OPERATION	1/2"	1/2"	2"	1 1/2"	WALL HUNG WITH SUPORT SEE NOTES 2, 3, 4
WC-1	WALL HUNG FLUSH VALVE TOILET	AMERICAN STANDARD KINGSTON ULTRA K-PR84325-T4DS	BOWL: K-84325-SS FLUSH VALVE: K-10TD00N10 W/ TRAP PRIMER CARRIER: J.R. SMITH # 0440	---	1"	4"	2"	ADA COMPLIANT 1-28 GPF ELECTRIC FLUSH VALVE PROVIDE ELONGATED SEAT BEMIS OR EQUAL
OD-1	SECONDARY ROOF DRAIN	J.R. SMITH 1015 SERIES	ROUGH BRONZE DOME	---	---	4"	---	PROVIDE WITH UNDER DECK CLAMP AND 2" DAM.
RD-1	PRIMARY ROOF DRAIN	J.R. SMITH 1015 SERIES	ROUGH BRONZE DOME	---	---	4"	---	PROVIDE WITH UNDER DECK CLAMP
DSN-1	DOWNSPOUT NOZZLE	J.R. SMITH 1770 SERIES	ROUGH BRONZE DOME	---	---	4"	---	WITH BIRD SCREEN
WH-1	ELECTRIC WATER HEATER	AO SMITH DEL 20		3/4"	3/4"	---	---	208 / 1 / 60 2.5 KW, 12 A PROVIDE SEISMIC SUPPORT HOLD RITE # QB-50-F
WH-2	ELECTRIC WATER HEATER	AO SMITH DEL 15		3/4"	3/4"	---	---	208 / 1 / 60 1.5 KW, 7.2 A PROVIDE SEISMIC SUPPORT HOLD RITE # QB-50-F
EEW-1	EYE WASH	BRADLEY S19-220FW	PROVIDE WITH MIXING VALVE BRADLEY S19-200O	1/2"	1/2"	1/2"	---	INDIRECT WASTE TO ADJACENT MOP SINK (SS-1) SEE NOTE 5
HB-1	FREEZELESS WALL HYDRANT	WOODFORD MODEL RB67		---	3/4"	---	---	INSTALL 18" ABOVE FINISHED GRADE.
HD-1	HUB DRAIN	WATTS FD-100-DD		---	---	3"	2"	NO HUB OUTLET
TD-1	LINEAR DRAIN	INFINITY DRAIN S-TIF 6580		---	---	2"	1 1/2"	TRAP PRIMER SIOUX CHEIF 695-01 OR EQUAL PROVIDE ACCESS FOOR PROFLO PF1212AD
EWH-1	PIONT OF USE ELECTRIC WATER HEATER	EEMAX EMT1		1/2"	1/2"	---	---	
FD-1	FLOOR DRAIN	JR SMITH 2005Y	WITH TRAP PRIMER CONNECTION AND POLISHED BRONZE STRAINER	---	---	2"	1 1/2"	TRAP PRIMER SIOUX CHEIF 695-01 OR EQUAL PROVIDE ACCESS FOOR PROFLO PF1212AD

NOTES:

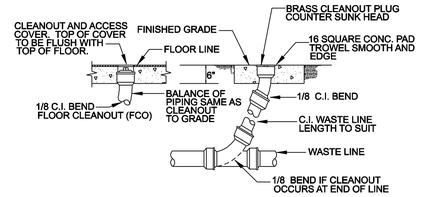
1. CONTRACTOR HAS OPTION TO PROVIDE ALTERNATES FOR APPROVAL BY ENGINEER.
2. WHERE FIXTURE IS ACCESSIBLE TO PUBLIC PROVIDE THERMOSTATIC MIXING VALVE. WATTS MODEL LFUSG-B OR EQUAL. SET TEMP TO 105°F
3. WHERE PLUMBING IS EXPOSED TO VIEW, PROVIDE INSULATED TRAP AND STOP COVERS TRUBRO PRODUCT OR EQUAL.
4. COORDINATE HARDWIRING OF FAUCET WITH ELECTRICAL CONTRACTOR.
5. CONNECT 1/2" TEPID WATER FROM MIXING VALVE TO EYEWASH CONNECTION. SET WATER TEMP FOR 80° F.



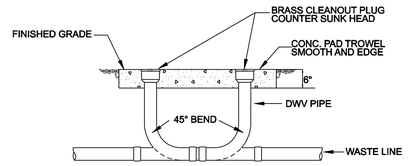
VENT THROUGH ROOF DETAIL (A)
SCALE: NONE



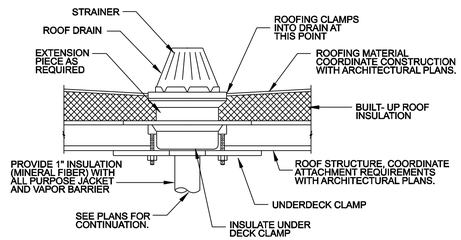
WATER SERVICE ENTRY AND MULTIPLE BACKFLOW ASSEMBLY DETAIL (B)
SCALE: NONE



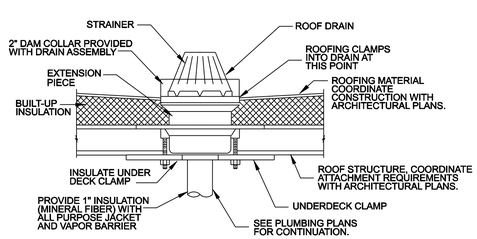
FLOOR CLEAN OUT / CLEAN OUT TO GRADE DETAIL (C)
SCALE: NONE



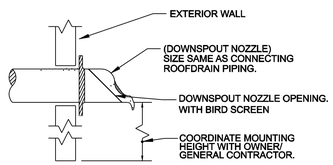
TWO WAY CLEAN-OUT DETAIL (D)
SCALE: NONE



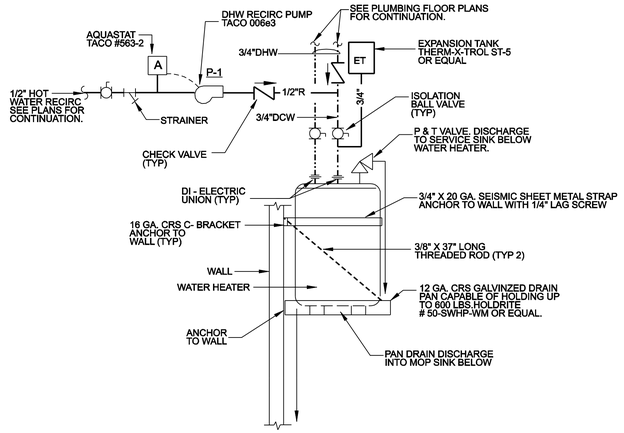
PRIMARY ROOF DRAIN DETAIL (E)
SCALE: NONE



SECONDARY ROOF DRAIN DETAIL (F)
SCALE: NONE

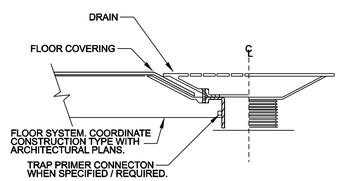


DOWNSPOUT NOZZLE DETAIL (G)
SCALE: NONE



NOTE: INSTALL HEAT TRAPS AT WATER HEATER CONNECTION.

ELECTRIC WATER HEATER DETAIL (H)
SCALE: NONE



FLOOR DRAIN DETAIL (K)
SCALE: NONE

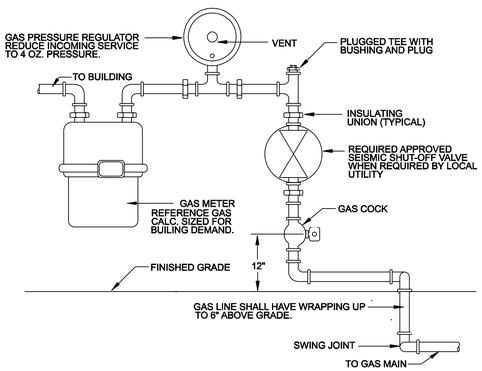
TOTAL EQUIVELENT PIPE LENGTH: 30' COLUMN

EQUIPMENT	MBH
CAR WASH BOILER	199

TOTAL: 199 MBH
1/2" 2 LB GAS SERVICE

NOTE: FINAL GAS REQUIREMENTS TO BE COORDINATED WITH LOCAL UTILITY AND FINAL EQUIPMENT SELECTIONS.

GAS CALCULATION
SCALE: NONE



GAS METER SERVICE CONNECTION DETAIL (J)

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revisions:

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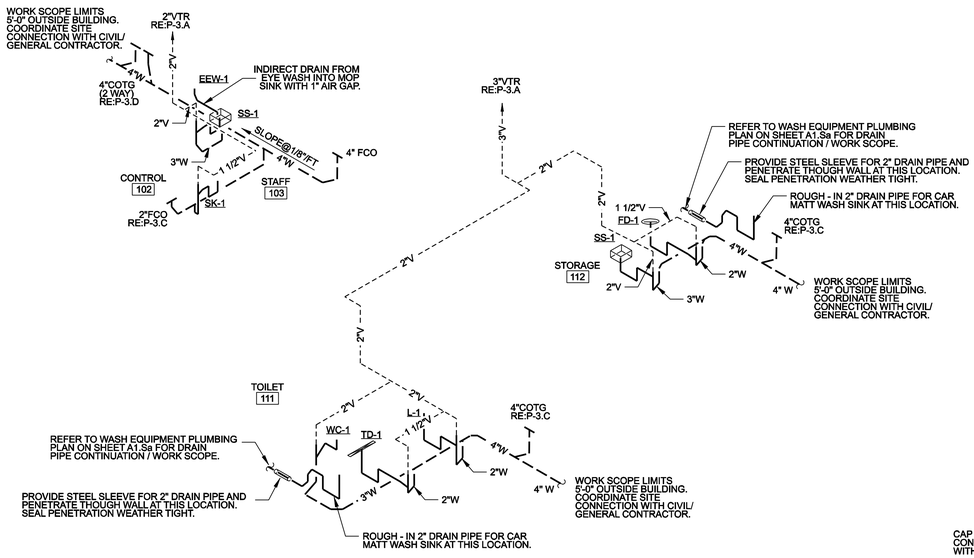
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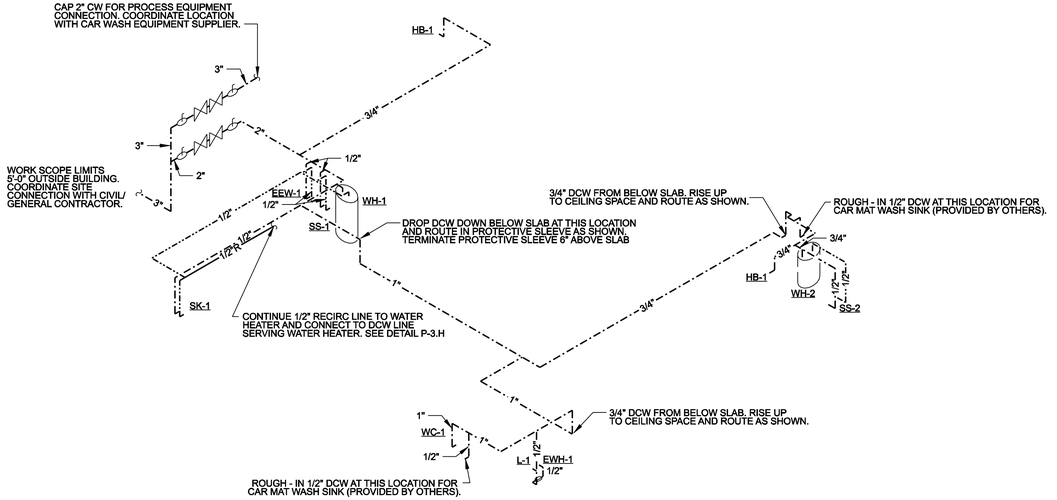
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sheet number: P-3



WASTE AND VENT ISOMETRIC
SCALE: 1/8" = 1'-0"



WATER ISOMETRIC
SCALE: 1/8" = 1'-0"

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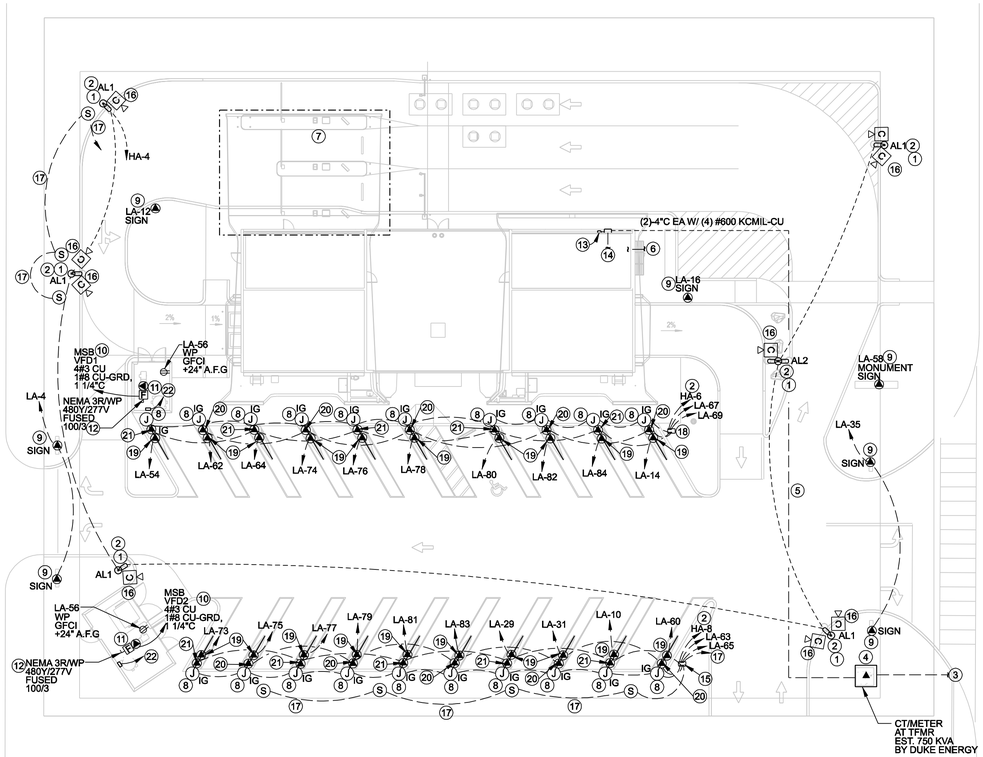
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P-4



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0' 20' 40' 80'

SCALE IN FEET

GENERAL NOTES

1. COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.
2. ALL IN-GROUND JUNCTION BOXES TO BE FIBERGLASS 12"X12"X18" DEEP, WITH LID LABELED 'ELECTRICAL'. FINISH ELEVATON OF TOP OF LID TO BE FLUSH WITH FINISHED GRADE, UNLESS NOTED OTHERWISE.
3. ALL PENETRATIONS THROUGH SLAB ARE TO BE PVC COATED RIGID CONDUIT, SCOTCH WRAP IS NOT PERMITTED.
4. ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
5. SEE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES FOR ADDITIONAL INFORMATION.
6. SEE ARCHITECTURAL FOR SPECIFIC PLACEMENT OF EQUIPMENT AND ELECTRICAL DEVICES.

KEYED NOTES

1. SEE DETAIL 'D' & 'E' ON SHEET E-7.
2. ROUTE CIRCUIT THROUGH LOW VOLTAGE LIGHTING CONTROL PANEL. SEE LOW VOLTAGE LIGHTING CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
3. NEW UNDERGROUND SERVICE PRIMARY CONDUIT AND CONDUCTORS BY DUKE ENERGY COORDINATE ALL WORK WITH DUKE ENERGY PRIOR TO ROUGH-IN.
4. NEW 750 KVA 480Y/277V 3Ø PAD MOUNTED TRANSFORMER. VERIFY CONCRETE PAD REQUIREMENTS WITH DUKE ENERGY.
5. NEW UNDERGROUND CONDUIT WITH PULL STRING AND CONDUCTORS BY CONTRACTOR CONFIRM TRENCHING REQUIREMENTS WITH DUKE ENERGY.
6. (2) 2" EMPTY CONDUIT FOR TELECOMMUNICATIONS AND (1) 2" EMPTY CONDUIT FOR CATV, STUB CONDUITS TO EDGE OF PROPERTY LINE AS INDICATED ,CAP, MARK AND PROVIDE PULL LINE . STUB CONDUITS 6" AFF BELOW TELEPHONE TERMINAL BOARD. COORDINATE WITH LOCAL COMMUNICATIONS UTILITY PRIOR TO ROUGH-IN.
7. SEE LARGE SCALE PLAN OF POS ISLAND ON SHEET SE-2 FOR ADDITIONAL INFORMATION.
8. COORDINATE ROUTING OF CONDUIT AND CONDUCTORS UP TO LIGHTS MOUNTED IN THE STRUCTURE. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. ROUTE CONDUIT AND CONDUCTORS INSIDE COLUMNS WHERE APPLICABLE.
9. LOCATION OF DIRECTIONAL SIGN. COORDINATE AND CONNECTION TYPE WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
10. ROUTE CONDUIT AND CONDUCTORS TO VFD LOCATED IN ELECTRICAL ROOM. SEE SHEET E-1 FOR EQUIPMENT LOCATION.
11. LOCATION OF VACUUM PRODUCER. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN
12. MOUNT DISCONNECT ON UNI-STRUT RACK NEXT TO VACUUM. MAINTAIN 30" CLEAR SIDE TO SIDE AND 36" CLEAR IN FRONT OF DISCONNECT. FUSE DISCONNECT AT NAMEPLATE RATING OF EQUIPMENT.
13. NEW SWITCHBOARD METERING CABINET MOUNTED AND INSTALLED PER DUKE ENERGY SPECIFICATIONS. MOUNT METER ON SIDE OF CABINET. SUBMIT EQUIPMENT TO DUKE ENERGY FOR APPROVAL PRIOR TO ORDERING.
14. SEE ELECTRICAL POWER FLOOR PLAN ON SHEET E-1 AND SINGLE LINE DIAGRAM ON SHEET E-7 FOR CONTINUATION.
15. PULL BOX LOCATION FOR VACUUM ARCH LIGHTING, TIRE PRESSURE CONTROL PANEL, WASHER FLUID SOLINOID VALVE AND SPEAKERS..
16. LOCATION OF SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO SECURITY EQUIPMENT LOCATED WITHIN MANAGER OFFICE ROOM. COORDINATE LOCATION AND MOUNTING HEIGHT OF EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
17. CONTRACTOR TO RUN DIRECT BURIAL CABLE WITH PVC JACKET THROUGH PULL BOX TO SERVER RACK IN CONTROL ROOM. VERIFY EXACT LOCATION OF SPEAKERS AND TERMINATION LOCATION PRIOR TO ROUGH-IN.
18. PULL BOX LOCATION FOR VACUUM ARCH LIGHTING, TIRE PRESSURE CONTROL PANEL, AND WASHER FLUID SOLINOID VALVES.
19. LOCATION OF VACUUM TOOL LOCK/UNLOCK CONTROL WITH (2) CONTROL WIRE CABLES.
20. LOCATION OF VACUUM ARCH WASHER FLUID SOLENOID.
21. LOCATION OF VACUUM ARCH AIR MACHINE FOR TIRE AIR.
22. CONTROL FOR VACUUM PRESSURE TRANSDUCER BACK TO VFD. INSTALL PER VACUUM SYSTEM MANUFACTURERS SPECIFICATIONS.

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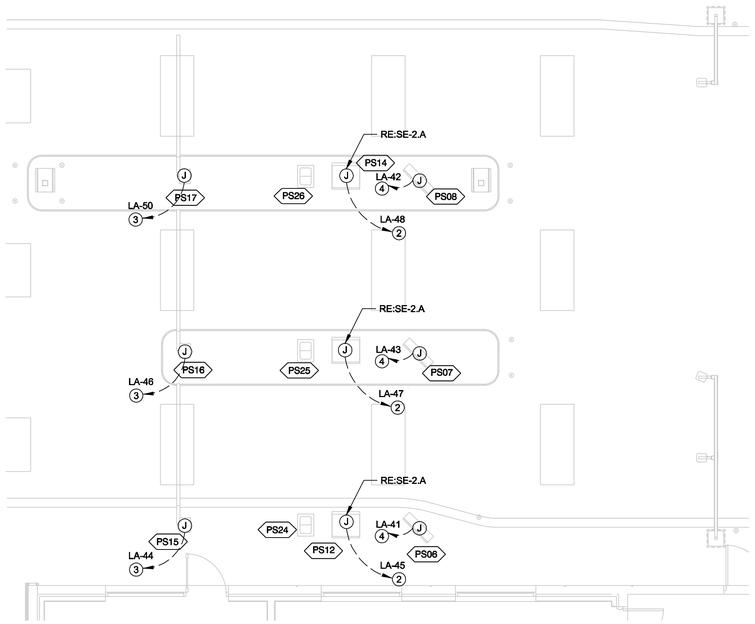
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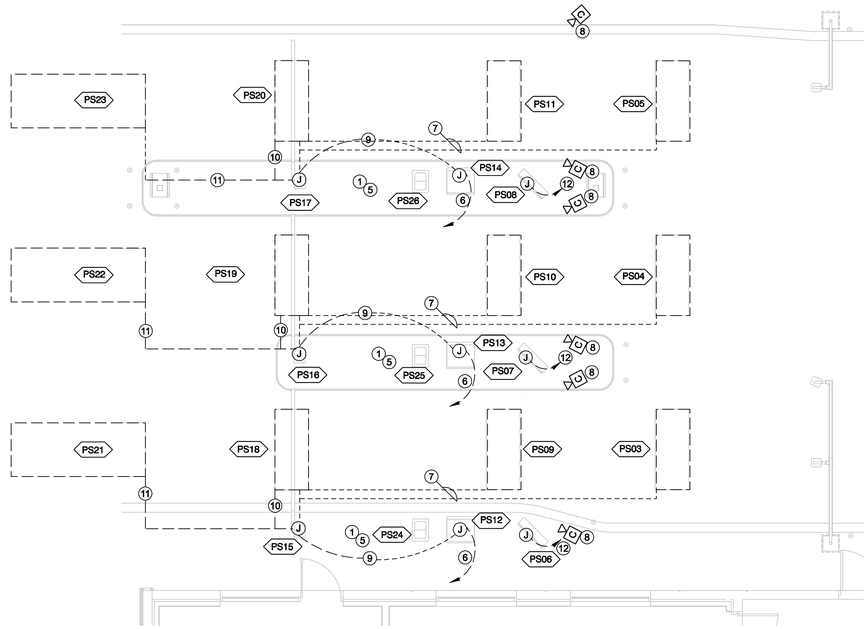
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POS ISLAND
ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"



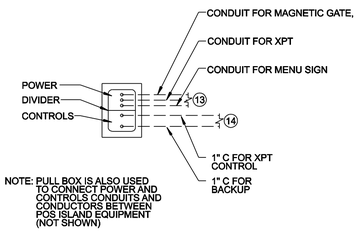
POS ISLAND
SPECIAL SYSTEMS PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. IN ADDITION TO THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, INSTALL POS SYSTEM INFRASTRUCTURE IN ACCORDANCE WITH POINT-OF-SALE MANUFACTURER'S INSTALLATION LITERATURE (DRB TUNNEL SOLUTIONS).
2. IT IS CONTRACTORS RESPONSIBILITY TO AQUIRE POINT-OF-SALE MANUFACTURER'S INSTALLATION LITERATURE AVAILABLE THROUGH OWNER.
3. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIAN AND INSTALLED IN ACCORDANCE WITH LOCALLY ADOPTED CODES.
4. IN ADDITION TO ROUTING OF ALL POWER AND CONTROLS CONDUCTORS THROUGH THE PULL BOX, ALSO ROUTE CONDUCTORS BETWEEN EQUIPMENT THROUGH PULL BOX.

KEYED NOTES

1. PROVIDE CONDUIT AND CONDUCTORS BETWEEN ISLAND EQUIPMENT AND PULL-BOX. ELECTRICAL CONTRACTORTO TERMINATE POWER AND CONTROLS CONDUCTORS TO THE EQUIPMENT.
2. POWER CONNECTION FROM PANEL TO PAY TERMINAL BY ELECTRICAL CONTRACTOR. 120VAC, 8 AMP "COMPUTER GRADE POWER" WITH DEDICATED EARTHGROUND AND 20AMP DEDICATED CIRCUIT. USE 1" METAL CONDUIT FROM PANEL TO PULL-BOX.
3. POWER CONNECTION FROM PANEL TO MAGNETIC GATE BY ELECTRICAL CONTRACTOR. 115VAC, 5AMP. PROVIDE 20 AMP DEDICATED CIRCUIT. USE 1" METAL CONDUIT FROM PANEL TO PULL-BOX.
4. POWER CONNECTION FROM PANEL TO DIGITAL SCREEN MENU BY ELECTRICAL CONTRACTOR. 100-240VAC, 8 AMP. PROVIDE 20AMP DEDICATED CIRCUIT. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL. USE 1" METAL CONDUIT FROM PANEL TO PULL-BOX.
5. PULL-BOX, SEE DETAIL C5/A4.2. ROUTE ALL ISLAND POWER AND CONTROLS CONDUCTORS FROM BUILDING AND BETWEEN TERMINAL AND OTHER PAY STATION ISLAND EQUIPMENT THROUGH BOX. DO NOT TERMINATE OR SPLICE AT BOX. ELECTRICAL CONTRACTOR TO EXTEND (3) 1" METAL POWER CONDUIT WITH DEDICATED 20AMP CIRCUITS TO NORTH DIVIDED HALF OF PULL BOX AND (2) 1" METAL CONTROLS CONDUITS AT SOUTH SIDE OF PULL BOX.
6. DIVISION 16 CONTRACTOR TO PROVIDE (3) 1" CONDUITS WITH (4) CAT8 CONDUCTORS EACH FOR CONNECTION TO ALARM SYSTEM, SITE WATCH SERVER, INTERCOM SYSTEM AND SECURITY CAMERA SYSTEM. EXTEND TO HEAD END EQUIPMENT LOCATED IN MANAGER'S OFFICE. ROUTE CONDUIT AND CONDUCTORS THROUGH PULL-BOX. CONDUITS FROM PULL-BOX TO EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
7. CONTROL CONNECTION TO EXTERNAL PROXIMITY LOOP BY ELECTRICAL CONTRACTOR. OWNER FURNISHED ASSEMBLY TO BE LEAD-IN-SYSTEMS OR EQUAL PART IMSA 51-3/18 MANUFACTURED LOOP FOR DIRECT BURY INSTALL. LOOP LEAD IN WIRES ARE 16AWG TWISTED 6 TURNS PER FOOT FROM EDGE OF LOOP TO THE CONNECTIONS ON THE LOOP DETECTOR SOCKET INSIDE OF THE XPT. THE FURNISHED LOOP SENSING CONDUCTORS ARE TO BE STRANDED, TINNED COPPER WITH XLPE INSULATION RATED FOR 600V.
8. LOCATION OF SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO SECURITY EQUIPMENT LOCATED WITHIN MANAGER OFFICE ROOM. COORDINATE LOCATION AND MOUNTING HEIGHT OF EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
9. CONTROL CONDUIT, CONDUCTORS AND CONNECTION FROM TERMINAL TO MAGNETIC GATE BY ELECTRICAL CONTRACTOR. CONNECT CAT8 CABLE.
10. CONDUIT AND CONTROL CONNECTION FROM MAGNETIC GATE TO GATE LOOP BY ELECTRICAL CONTRACTOR. CONDUCTORS ARE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER FURNISHED ASSEMBLY TO BE LEAD-IN-SYSTEMS OR EQUAL PART IMSA 51-3/18 MANUFACTURED LOOP FOR DIRECT BURY INSTALL. LOOP LEAD IN WIRES ARE 16AWG TWISTED 6 TURNS PER FOOT FROM EDGE OF LOOP TO THE CONNECTIONS ON THE LOOP DETECTOR SOCKET INSIDE OF THE GATE. THE FURNISHED LOOP SENSING CONDUCTORS ARE TO BE STRANDED, TINNED COPPER WITH XLPE INSULATION RATED FOR 600V.
11. CONTROL CONNECTION FROM MAGNETIC GATE TO MERGE LOOP BY ELECTRICAL CONTRACTOR. CONDUIT AND CONDUCTORS ARE NOT PROVIDED BY OWNER. ELECTRICAL CONTRACTOR SHALL PROVIDE PVC CONDUIT AND LEAD-IN-SYSTEMS OR EQUAL PART IMSA 51-3/18 MANUFACTURED LOOP FOR DIRECT BURY INSTALL. LOOP LEAD IN WIRES ARE 16AWG TWISTED 6 TURNS PER FOOT FROM EDGE OF LOOP TO THE CONNECTIONS ON THE LOOP DETECTOR SOCKET INSIDE OF THE GATE. THE FURNISHED LOOP SENSING CONDUCTORS ARE TO BE STRANDED, TINNED COPPER WITH XLPE INSULATION RATED FOR 600V.
12. CONTROL CONNECTION FROM SIGN CONTROL STATION AT MANAGERS OFFICE TO DIGITAL SIGN BY ELECTRICAL CONTRACTOR. PROVIDE CAT8 CABLE ROUTED THROUGH ISLAND PULL-BOX.
13. (3) 1" POWER CONDUITS TO 120VAC PANEL. PROVIDE DEDICATED 20AMP BREAKER FOR EACH.
14. (2) 1" CONTROL CONDUITS TO SERVER RACK HEAD END EQUIPMENT LOCATED IN MANAGER'S OFFICE. (1) IS SPARE.



NOTE: PULL BOX IS ALSO USED TO CONNECT POWER AND CONTROLS CONDUITS AND CONDUCTORS BETWEEN POS ISLAND EQUIPMENT (NOT SHOWN)

PULL BOX CONDUIT
SCALE:NONE
A

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EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

N

Kartchner Associates LLC
KB Beaucannon MEP consultants
1301 S Five Mile Rd. Boise ID 83709
Phone : 208-888-7145

stamp

RICHARD T. KARTCHNER LICENSE No. 85092 8-22-24 STATE OF FLORIDA PROFESSIONAL ENGINEER

revisions:

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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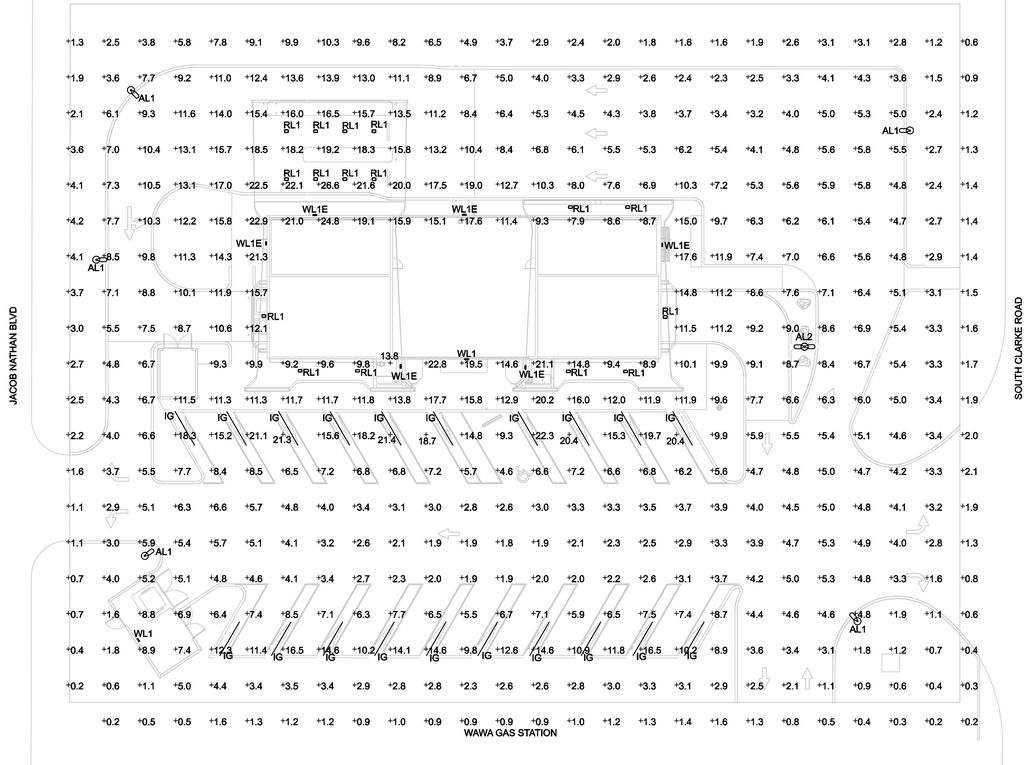
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SPOTLESS wash solutions
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date	8/22/24
drawn	AJ / BPS
job no.	24-30
issued for	PERMIT

sheet title:
POS ISLAND
POWER
PLAN

sheet number:
SE-2



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0' 20' 40' 80'

SCALE IN FEET

LUMINAIRE SCHEDULE					
LABEL	QTY.	DESCRIPTION	LUMENS	TOTAL WATTS	MTG.HEIGHT
AL1	6	LITHONIA LIGHTING DSX2 LED P1 40K T3M MVOLT HS SPA	18964	140	20.00'
AL2	1	LITHONIA LIGHTING DSX2 LED P1 40K T3M MVOLT HS SPA	37928	280	20.00'
RL1	16	CREE LIGHTING CAN-SM-228-RM-WH	10120	54	19.00'
WL1	2	LITHONIA LIGHTING DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD	5454	46	8.00'
WL1E	6	LITHONIA LIGHTING DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD ELCW	5454	46	8.00'
IG	20	G&G GPX 8-HO-50K-UVO-SE-277V	2000	16	8.00'

CALCULATION SUMMARY						
LABEL	CALC. TYPE	UNITS	AVG	MAX	MIN	MAX/AVE.
PARKING LOT	ILLUMINANCE	FC				

stamp

RICHARD T. KARTCHNER LICENSE No. 85092 8-15-24 STATE OF FLORIDA PROFESSIONAL ENGINEER

revisions:

1 8/7/24 CITY COMMENTS

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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Kartchner Associates LLC
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checked	RTK / JB
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job no.	24-30
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sheet title: SITE PHOTOMETRIC

sheet number: SE-3

Submitting Agency: The Lighting Agency — Description: DSX2 LED P1 40K T3M MVOLT HS SPA PIRH DNAXD — Project Notes: BIG SPLASH CAR WASH — Type: AL1 AL2

D-Series Size 2
LED Area Luminaire

Specifications

EPA:	1.1 ft² (0.10 m²)
Length:	40" (101.6 cm)
Width:	15" (38.1 cm)
Height:	7-1/4" (18.4 cm)
Height in Parking Mode:	3.5"
Weight:	34lbs

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information — EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	Lens	Color Temperature	Distribution	Voltage	Mounting
Forward optics: P1 P2 P3 P4 P5 P6 P7 P10 P11 P12	30K 3000K; 40K 4000K; 50K 5000K		T1S Type I Short; T2S Type II Short; T2M Type II Medium; T3S Type III Short; T3M Type III Medium; T4M Type IV Medium; TFTM Forward Throw Medium; T5VS Type V Very Short; T5S Type V Short; T5M Type V Medium; T5W Type V Wide; BLC Backlight control; LCCO Left corner cutoff; RCCO Right corner cutoff	MVOLT Shipped included; 120 120V; 208 208V; 240 240V; 277 277V; 347 347V; 480 480V	Shipped included: SPA Square pole mounting; RPA Round pole mounting; WBA Wall bracket; SPUMBA Square pole universal mounting adaptor; RPUMBA Round pole universal mounting adaptor; Shipped separately: DBAH DDBXD Mast arm mounting bracket adaptor (specify finish)

Control options	Other options	Finish (required)
Shipped installed: NLTAIR2 nLight AIR generation 2 enabled; PIRHN Network, Bi-level motion/ambient sensor; PER Network, Bi-level motion/ambient sensor, 15-30 mounting height, ambient sensor enabled at 25fc; PIR Motion/ambient sensor, 8-15 mounting height, ambient sensor enabled at 25fc; PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc, 0-10V dimming wires pulled outside fixture; PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc, 0-10V dimming wires pulled outside fixture; DMG 0-10V dimming wires pulled outside fixture; DS Dual switching; PIR Bi-level, motion/ambient sensor, 15-30 mounting height, ambient sensor enabled at 25fc; PIRH Bi-level, motion/ambient sensor, 8-15 mounting height, ambient sensor enabled at 25fc; PCR NEMA twist-lock receptacle only (no control); PER5 Five pin receptacle only (no control); PER7 Seven pin receptacle only (no control); DMG 0-10V dimming wires pulled outside fixture for external control (no control); DS Dual switching	Shipped installed: HS House-side shield; SF Single fuse (120, 277 or 347V); DF Double fuse (208, 240 or 480V); L80 L80 calibrated; R90 Right rotated optics; Shipped separately: BS Bird spikes; EGS External glare shield	Shipped installed: DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White; DBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

Lithonia Lighting — One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.705.SERV (7378) • www.lithonia.com — © 2013-2019 Acuity Brands Lighting, Inc. All rights reserved. — COMMERCIAL OUTDOOR — DSX2 LED Rev. 11/25/19 Page 1 of 8

Submitting Agency: The Lighting Agency — Description: DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD — Project Notes: BIG SPLASH CAR WASH — Type: WL1/WL1E

D-Series Size 1
LED Wall Luminaire

Specifications

Luminaire

Width:	13-3/4" (34.9 cm)
Depth:	10" (25.4 cm)
Height:	6-3/8" (16.2 cm)
Weight:	12 lbs (5.4 kg)

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)
Depth:	4" (10.2 cm)
Height:	4-3/8" (11.1 cm)
BBW Weight:	5 lbs (2.3 kg)
ELCW Weight:	10 lbs (4.5 kg)

For 3/4" NPT side-entry conduit (SSPW only)

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information — EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED

Series	Lens	Color Current	Color Temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs, one engine; 20C 20 LEDs, two engines	350 350 mA; 530 530 mA; 700 700 mA; 1000 1000 mA (1 A)*	30K 3000 K; 40K 4000 K; 50K 5000 K; AMBPC Amber phosphor converted	T2S Type II Short; T2M Type II Medium; T3S Type III Short; T3M Type III Medium; TFTM Forward Throw Medium	MVOLT Shipped included; 120 120V; 208 208V; 240 240V; 277 277V; 347 347V; 480 480V	Shipped included: SRM Surface mounting bracket; WBA Wall bracket; SPA Square pole universal mounting adaptor; RPA Round pole universal mounting adaptor; Shipped separately: KMA8 DDBXD Mast arm mounting bracket adaptor (specify finish)	PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc; PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc; PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc; PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc; DMG 0-10V dimming wires pulled outside fixture; DCR Dimmable constant current reduction, 70% of full light output

Other Options	Finish (required)
Shipped installed: SF Single fuse (120, 277 or 347V)**; DF Double fuse (208, 240 or 480V)**; SPD Separate surge protector**	Shipped separately***: RSS House-side shield*; BS Bird spikes; EGS External glare shield	DDBXD Dark bronze; DBLXD Black; DNATXD Natural aluminum; DWHXD White; DSSTXD Textured sandstone; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

Accessories

Ordered and shipped separately.

DSXW1U House-side shield (one per light engine)
DSXW1BS Bird spikes (one per light engine)
DSXW1EGS Field applied glare shield
DSXW1DLL Field applied photocell

NOTES
1 1A 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
2 MVOLT driver operates at any line voltage from 120-277V (50/60 Hz).
3 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4 Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
5 Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
6 Not available with 10C 1000. Not available with 10C, 20C 700 or 20C 1000 with PIR or PIRH.
7 Reference Ambient Sensor table on page 3.
8 Cold weather (-30C) rated. Not compatible with constant entry applications. Not available with PIRH. Not available with fusing. Not available with 347 or 480 voltage options. Not available with multiple light engine components located in back box housing. Emergency mode (EU) Not tested or certified (project specific).
9 Not available with DMG.
10 Not available with DCR.
11 Also available as a separate accessory; see Accessories information.
12 Not available with DCR.

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IG

Date
Project

DIRECT AC DRIVERLESS



G&G INDUSTRIAL LIGHTING
T 800.285.6780 E sales@ggled.net
www.ggled.net

GPX DRIVERLESS LINEAR

Low-Profile, Driverless Linkable IP67 LED Linear Luminaire

Product Features

Maintenance-Free Driverless Design
Connects directly to AC line voltage without an LED driver or electrolytic capacitors, for extreme reliability and lifetime. Requires zero maintenance.

Easy to Install Quick-Connect Cabling
Convenient push-and-click connectors and cabling make GPX Series fixtures easy to install and daisy chain.

Coextruded Copolyester/Aluminum Housing
Our patented process combines copolyester and aluminum together, with no seals or gaskets. The result is a single piece enclosure with excellent heatsinking characteristics for long lifetime.

Superior Chemical & UV Resistance
Seamless polymeric outer shell provides IP67 ingress protection and is specialized for superior chemical resistance. An additional protective coating is available which integrates a UV inhibitor and UV blocker for outdoor applications.

Performance Summary

Delivered Light Output: Up to 8,000 lumens
Efficacy: 130 LPW
CRI: Typical 85 CRI
CCT: 5000K & 4000K
Lifetime: Designed for last 100,000 Hours at 25ºC
Warranty: 5 Years (See gglled.net for Terms)
Mounting: Ceiling or Wall
Protection Class: IP67
Voltage: 120 VAC or 277 VAC Input
Maximum Run Length: Refer to the Table on Page 2
Ambient Temperature: -40ºC to 55ºC

Ordering Information

Product	Length	Lumen Output	Color Temp.	Lens Diffusion	UV Protection	Through-Wired	Voltage
GPX	2 2 Foot; 4 4 Foot; 6 6 Foot; 8 8 Foot	SO Standard Output with standard lens*; HO* High Output with standard lens	50K standard 5000 Kelvin; 40K* 4000 Kelvin	Blank standard: Diffused Standard Clear Lens; GC Lens control: Diffused Standard Lens with Added Diffusion Sheet	Blank standard: No Coating, Rated for Indoor Use; UVO Outdoor Rated with UV-Blocking Coating	Blank standard: Unthrough-wired; Connectors on Input & Output for 4FTN to Daisy Chain Fixtures	120V 120V AC Input; 277V 277V AC Input

*Available in 2', 4' & 8' only

Power & Connection Accessories

Cable	Type	Length	Wire
*No Jumper Cable Required on End-to-End Connection			
GPX-JMP-1	Jumper	1ft	18 AWG SJTW
GPX-JMP-2	Jumper	2ft	18 AWG SJTW
GPX-JMP-4	Jumper	4ft	18 AWG SJTW
GPX-JMP-8	Jumper	8ft	18 AWG SJTW
GPX-LDS-10	Leader Cable	10ft	18 AWG SJTW
GPX-LDS-25	Leader Cable	25ft	18 AWG SJTW

Mounting Hardware	Description
GPX-MNT-NM	Non-Metallic Quick Latch
GPX-MNT-SS	Stainless Steel Bolt Latch

*For serviceability and expansion/connection considerations G&G limits the number of luminaires connected end-to-end (without a jumper cable) to a maximum of 4.

Rev Date: 22 1108

STRONG. SIMPLE. COMPACT.

RL1

228 Series™
LED Recessed Canopy Luminaire

Rev. Date: V5 03/02/2023

Product Description

Slim, low profile, surp mounting from below or above the deck. Luminaire sides are rugged cast aluminum with high performance extruded aluminum heat sinks specifically designed for LED. Luminaire mounts directly to the canopy deck and is secured in place with compression molded trim frame. Luminaire housing is provided with factory applied foam gasket and provides for a weatherright seal between luminaire housing and canopy deck. Suitable for use in single or double skin canopies with 12" [305mm] or 16" [406mm] wide panels. Designed for canopies of 14- 22 gauge [maximum 0.065" [1.65mm] thickness].

Applications: Petroleum stations, convenience stores, drive-thru banks and restaurants, retail and grocery

Performance Summary

Patented NanoOptic® Product Technology
Assembled in the USA by Cree Lighting from US and imported parts
CRI: Minimum 70 CRI
CCT: 4000K [+/- 300K], 5700K [+/- 500K] standard
Initial Delivered Lumens: Up to 21,486
Limited Warranty: 10 years for luminaire/10 years for Colortast DetaSure® finish/5 years for PWL sensor/1 year for luminaire accessories
† See lmsighting.com/warranty for warranty terms

Accessories

Field-Installed

Sealed Die Cast Junction Box — Sealed Extruded Aluminum Drive or Compartment — Programmable Multi-Level Sensor location (ordered as an option)

LED Count (x10)	Drive Current	Dim. "A"	Dim. "B"	Weight
03	525/700mA	13.7" [337mm]	12.0" [337mm]	18.7 lbs [8.5kg]
06	525/700mA	21.8" [557mm]	12.0" [337mm]	23.0 lbs [10.5kg]
09	350mA	21.8" [557mm]	21.0" [557mm]	32.0 lbs [14.5kg]
09	525/700mA	21.8" [557mm]	21.0" [557mm]	32.0 lbs [14.5kg]

Ordering Information

Example: CAN-228-SL-RM-ED-E-UL-WH-N-525

Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
CAN-228	SM Small Medium Square Spot for Petroleum Symmetric	RM Recessed	03 06 09	E Universal 120-277V Universal 347-480V	UL	BW Black; WH White; SV Silver; BZ Bronze; SN Satin Nickel	350 350mA - Available with 03 LEDs only; 525 525mA; 700 700mA	DIM 0-10V Dimming - Control by others - Refer to Dimming guide sheet for details on Cree recommended drivers; PWL 4-Wire Programmable Multi-Level Sensor - Refer to PWL spec sheet for details; CCE 4000K Color Temperature - Color temperature per luminaire - Minimum: 70 CRI

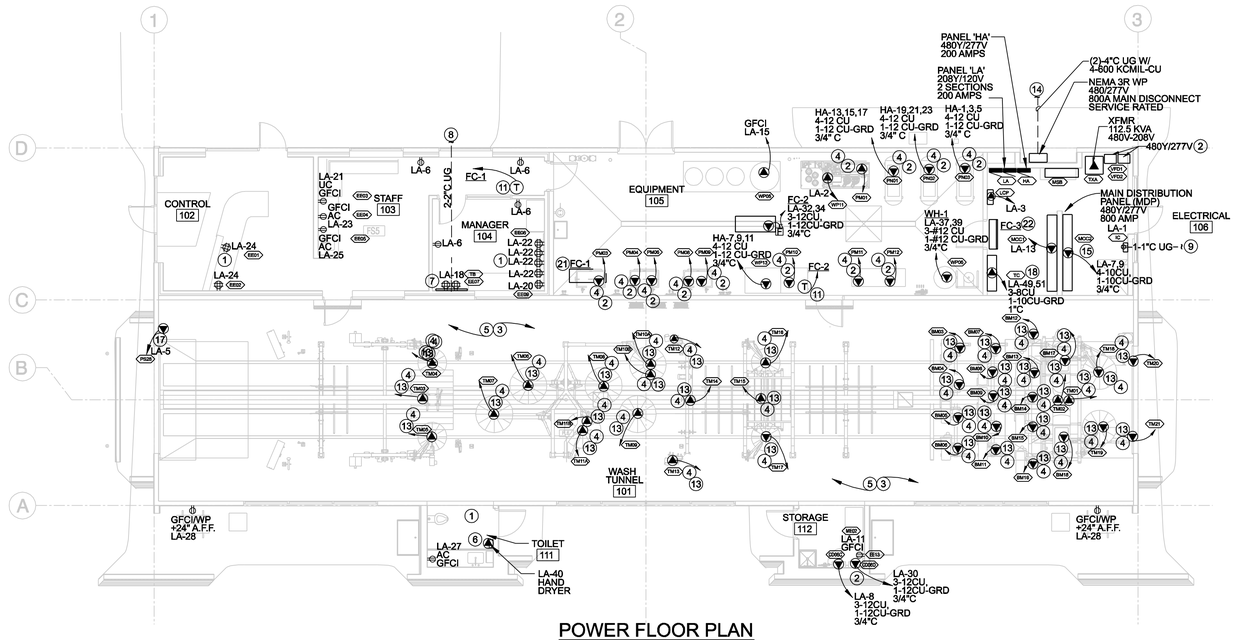
*90 LED luminaire with 700mA, requires marked spacing: 48" x 24" x 4" (1.219mm x 610mm x 102mm), 48" (1.219mm) center-to-center of adjacent luminaires, 24" (610mm) luminaire center-to-side building member, 4" (102mm) top of luminaire to overhead building member

US: lmsighting.com (800) 236-6800
Canada: lmsighting-canada.com (800) 473-1234

CREE LIGHTING



N



POWER FLOOR PLAN

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

KEYED NOTES

1. COORDINATE RECEPACLE LOCATIONS AND MOUNTING HEIGHTS WITH MILLWORK.
2. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. EQUIPMENT TAG DENOTES EQUIPMENT TYPE. SEE ARCHITECTURAL EQUIPMENT PLAN SHEETS A1.6A, A1.6B, A1.6C AND A1.6D FOR ADDITIONAL EQUIPMENT INFORMATION.
3. CONDUITS RAN WITHIN TUNNEL, EQUIPMENT ROOM AND BOILER TO BE ROUTED UNDERGROUND OR ABOVE GROUND WITH SCHED. 40 PVC. CONDUITS TO TRANSITION TO EMT OUTSIDE OF THESE AREAS.
4. ROUTE CIRCUIT TO TUNNEL CONTROLLER AND/OR MOTOR STARTER LOCATED AT MCC. COORDINATE TERMINATION LOCATION WITH EQUIPMENT SUPPLIER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
5. ALL DEVICES IN TUNNEL ARE TO BE IP68 RATED AND SHALL HAVE STAINLESS STEEL MOUNTING HARDWARE.
6. COORDINATE LAVATORY FAUCET WIRING REQUIREMENTS WITH PLUMBING CONTRACTOR.
7. STUB-UP AND MARK CONDUIT 5'-0" OUTSIDE BUILDING FOR COMMUNICATION SERVICES, COORDINATE LOCATION WITH GENERAL CONTRACTOR/OWNER.
8. PROVIDE (2) 2" CONDUITS TO TELEPHONE COMMUNCATION BOARD FOR PHONE AND INTERNET SERVICES. COORDINATE LOCATION WITH GENERAL CONTRACTOR/OWNER.
9. STUB 1" CONDUIT IN LANDSCAPE AREA FOR IRRIGATION CONTROLS. COORDINATE LOCATION WITH GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR.
10. ROUTE 4-#10 CU, 1-#10 CU-GRD, 3/4"C CIRCUIT TO TUNNEL CONTROLLER AND/OR MOTOR STARTER/VFD LOCATED AT MCC. COORDINATE TERMINATION LOCATION WITH EQUIPMENT SUPPLIER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
11. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX CONDUIT AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTORS WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
12. LOCATION OF PEDESTAL MOUNTED SIGN. COORDINATE WITH ELECTRICAL REQUIREMENTS OF SIGNS WITH CARWASH EQUIPMENT SUPPLIER.
13. COORDINATE WITH CAR WASH EQUIPMENT CONTRACTOR ADDITIONAL ELECTRICAL REQUIREMENTS OF EQUIPMENT SUPPLIED.
14. SEE SITE ELECTRICAL PLAN SHEET SE-1 FOR CONTINUATION TO UTILITY TRANSFORMER.
15. LOCATION OF MOTOR CONTROL CENTER PROVIDED BY OTHERS, CONTRACTOR TO COORDINATE ADDITIONAL REQUIREMENTS WITH CAR WASH EQUIPMENT CONTRACTOR.
16. LOCATION OF WIRELESS ACCESS POINT. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
17. LOCATION OF WEATHERPROOF MONITOR, MOUNT AND RECEPTACLE. COORDINATE LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
18. LOCATION OF TUNEL CONTROLLER. COORDINATE WIRING WITH SOLENOID MANIFOLDS AND PANEL SCHEDULE AND CHEMICAL DISPENSING SCHEDULE ON SHEET A1.6B. ALSO SEE ELECTRICAL SIGNAGE SCHEDULE AND SENSORS AND SWITCHES SCHEDULE ON SHEET A1.6C.
19. NOT USED
20. NOT USED.
21. FC-1 RECEIVES ITS PRIMARY POWER FROM HP-1.
22. FC-3 RECEIVES ITS PRIMARY POWER FROM HP-3.

ELECTRICAL GENERAL NOTES

1. THE LATEST EDITION OF THE 2017 NATIONAL ELECTRICAL CODE SHALL GOVERN ALL MATERIAL, EQUIPMENT AND ITS INSTALLATION.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL MATERIAL, EQUIPMENT AND MATERIAL NOT SPECIFICALLY LISTED BY THE OWNER. WHEN COMPLETED, THE ELECTRICAL WORK SHALL BE THOROUGHLY TESTED., IDENTIFIED AND READY FOR OPERATION.
3. THE ELECTRICAL DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL CIRCUITS AND ARE DIAGRAMMATICALLY IN NATURE. THE ELECTRICAL CONTRACTOR SHALL ARRANGE THE RUNS BASED ON ECONOMY AND EASE OF INSTALLATION. ALL EXPOSED CONDUIT RUNS SHALL BE NEATLY STACKED, PROPERLY SUPPORTED AND RUN ONLY IN TRUE VERTICAL OR HORIZONTAL DIRECTIONS
4. ALL BUILDING RACEWAYS AND CONDUCTORS SHALL BE RUN CONCEALED IN WALLS OR UNDER SLAB. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS. ALL OTHER CONDUITS SHALL BE INTERMEDIATE METALLIC CONDUIT. TYPE MC CABLE IS PERMITTED IF INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.
5. ALL SUSPENDED CONDUIT SHALL BE RIGIDLY SUPPORTED WITH MALLEABLE IRON CLAMPS AT NOT MORE THAN FIVE FEET ON CENTER.
6. ALL POWER CONDUCTORS SHALL BE TYPE (THWN OR XHHW NYLON JACKETED THERMOPLASTIC CABLE LABELED "MOISTURE AND HEAT RESISTANCE". ALL CONDUCTORS SHALL BE PROPERLY IDENTIFIED AND COLORED CODED. MINIMUM WIRE SIZE SHALL BE AWG # 12 FOR POWER AND AWG # 16 FOR CONTROL. ALL CONTROL WIRING SHALL BE STRANDED COPPER. SIZE CONDUCTORS AS REQUIRED BY LOADS AND TO LIMIT VOLTAGE DROP TO NOT MORE THAN 2%. USE OF STRANDED CONDUCTORS FOR SOME EQUIPMENT MAY BE REQUIRED. CONTRACTOR SHALL VERIFY REQUIREMENTS OF EQUIPMENT.
7. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL VERIFY THAT:
   - A. ALL MOTORS ARE TURNING IN THE PROPER DIRECTION.
   - B. CONTINUITY OF CIRCUITS IS ESTABLISHED AND SHORT CIRCUITS DO NOT EXIST.
   - C. NO UNSPECIFIED GROUNDS EXIST.
   - D. THE RESISTANCE TO GROUND OF ALL NON-GROUNDED CIRCUITS IS WITHIN ADEQUATE LIMITS.
   - E. ALL WIRING IS CONNECTED IN ACCORDANCE TO APPLICABLE WIRING DIAGRAMS AND COLOR CODED.
   - F. ALL EQUIPMENT IS OPERATING PROPERLY.
   - G. ALL FUSES ARE PROPERLY SIZED
   - H. THE RESISTANCE TO EARTH OF THE GROUND SYSTEM IS ADEQUATE.
8. PROVIDE A NYLON PULL LINE IN ALL TELEPHONE CONDUITS AND SPARE CONDUITS.
9. PROVIDE LAMPS FOR ALL LIGHT FIXTURES SPECIFIED ON DRAWINGS.
10. LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. ELECTRICAL CONTRACTOR TO COORDINATE LOCATION OF ROUGH-IN WITH OTHER TRADES.
11. PAINT ALL EXTERIOR ELECTRICAL EQUIPMENT TO MATCH ADJACENT WALL, IF ALLOWED BY LOCAL UTILITY COMPANY.
12. ELECTRICIAN TO ACCOMMODATE ALL ELECTRICAL LIFE/SAFETY REQUIREMENTS FROM CONTRACTOR AND ARCHITECT.
13. REFER TO ARCHITECTURAL CONDUIT PLAN A1.2C FOR ADDITIONAL REQUIREMENTS.
14. REFER TO ARCHITECTURAL EQUIPMENT PLAN A1.3A THROUGH A1.3D FOR ADDITIONAL REQUIREMENTS.
15. ELECTRICIAN SHALL CUT INTO AND RECESS ALL RECEPTACLES, JUNCTION BOXES AND ALL OTHER DEVICE BOXES INTO THE PVC CONCRETE FORM WALLS AND ALL LIGHT-GAUGE STUD FRAMED WALLS FOR ALL SYSTEMS WITH NO EXCEPTIONS. FOLLOW PVC FORM WALL MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR INSTALLATION OF BOXES, CONDUIT AND ACCESSORIES. BASIS-OF DESIGN IS COR-LINE ENT WITH KWIKON BOXES AND ACCESSORIES. BEND CONDUIT OUT OF WALLS BELOW SLABS A MINIMUM OF 8".
16. SHIELDED VFD CABLE MUST BE PROVIDED BETWEEN ALL VFD'S AND PANEL AND FROM VFD'S TO MOTORS.
17. ELECTRICIAN SHALL CUT INTO AND RECESS ALL RECEPTACLES, JUNCTION BOXES AND ALL OTHER DEVICE BOXES INTO THE PVC CONCRETE FORM WALLS AND ALL LIGHT-GAUGE STUD FRAMED WALLS FOR ALL SYSTEMS WITH NO EXCEPTIONS. FOLLOW PVC FORM WALL MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR INSTALLATION OF BOXES, CONDUIT AND ACCESSORIES. BASIS-OF DESIGN IS COR-LINE ENT WITH KWIKON BOXES AND ACCESSORIES. BEND CONDUIT OUT OF WALLS A MINIMUM OF 8" BELOW BOTTOM OF SLABS.

ELECTRICAL LEGEND

- WALL BRACKET.
- 2X4 LUMINAIRE (SURFACE OR RECESSED) SEE LIGHT FIXTURE SCHEDULE.
- RECESSED ROUND LUMINAIRE (INCAND/FL/HID).
- EXIT LUMINAIRE W/EMERGENCY ADJUSTABLE DUAL HEADS
- ELECTRICAL PANELBOARD (SURFACE OR FLUSH) SEE PANEL SCHEDULES.
- EMERGENCY ADJUSTABLE DUAL HEAD LUMINAIRE.
- MAIN DISTRIBUTION PANEL 'MDP'
- TELEPHONE TERMINAL BOARD, 4' X 8' X 3/4" FIR PLYWOOD BACKBOARD PAINT TO MATCH WALL FINISH.
- F-1 MECHANICAL EQUIPMENT WITH IDENTIFICATION DESIGNATOR.
- $ SINGLE POLE SWITCH.
- $3 THREE WAY SWITCH.
- $3P THREE POSITION SWITCH.
- $P PILOT SWITCH.
- $T TIMER SWITCH.
- $D DIMMER SWITCH
- $HP HORSEPOWER RATED SWITCH.
- $TR THERMAL RATED SWITCH
- 2 PORT TELEPHONE/DATA JACK CAT 6 CABLE IN 3/4" CONDUIT BACK TO COMMUNICATION AND DATA SYSTEM. COORDINATE ADDITIONAL REQUIREMENTS WITH COMMUNICATIONS CONTRACTOR.
- DOUBLE DUPLEX GROUNDING TYPE RECEPTACLES IN COMMON 2 GANG BOX
- WP WEATHERPROOF DUPLEX GROUNDING RECEPTACLE.
- GFCI GROUND-FAULT CIRCUIT INTERRUPTER, NEMA 5-20R.
- FLOOR DUPLEX GROUNDING RECEPTACLE, NEMA 5-20R.
- DIRECT CONNECTION OR SPECIAL OUTLET, VERIFY CONNECTION WITH EQUIPMENT SERVED.
- F DISCONNECT SWITCH, FUSED AS REQUIRED BY EQUIPMENT MANUFACTURER. INSTALL IN ACCESSIBLE LOCATION ONLY. F=FUSED.
- J JUNCTION BOX.
- P PHOTOCELL: SEE SINGLE LINE DIAGRAM.
- TC TIME CLOCK, SEE SINGLE LINE DIAGRAM
- T THERMOSTAT OUTLET, BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL.
- A AQUA STAT
- CM COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR
- OC OCCUPANCY SENSOR. THESE AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, SHALL EITHER BE MANUAL ON OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER.
- TV TELEVISION HOOK-UP W/ DUPLEX OUTLET COORDINATE MOUNTING HEIGHT WITH OWNER.
- AC ABOVE COUNTER
- BC BELOW COUNTER
- SD SMOKE DETECTOR
- POINT OF CONNECTION FROM NEW SERVICE TO EXISTING.
- WIRELESS ACCESS POINT

NOTE: ALL SYMBOLS SHOWN MAY NOT BE USED ON DRAWING.

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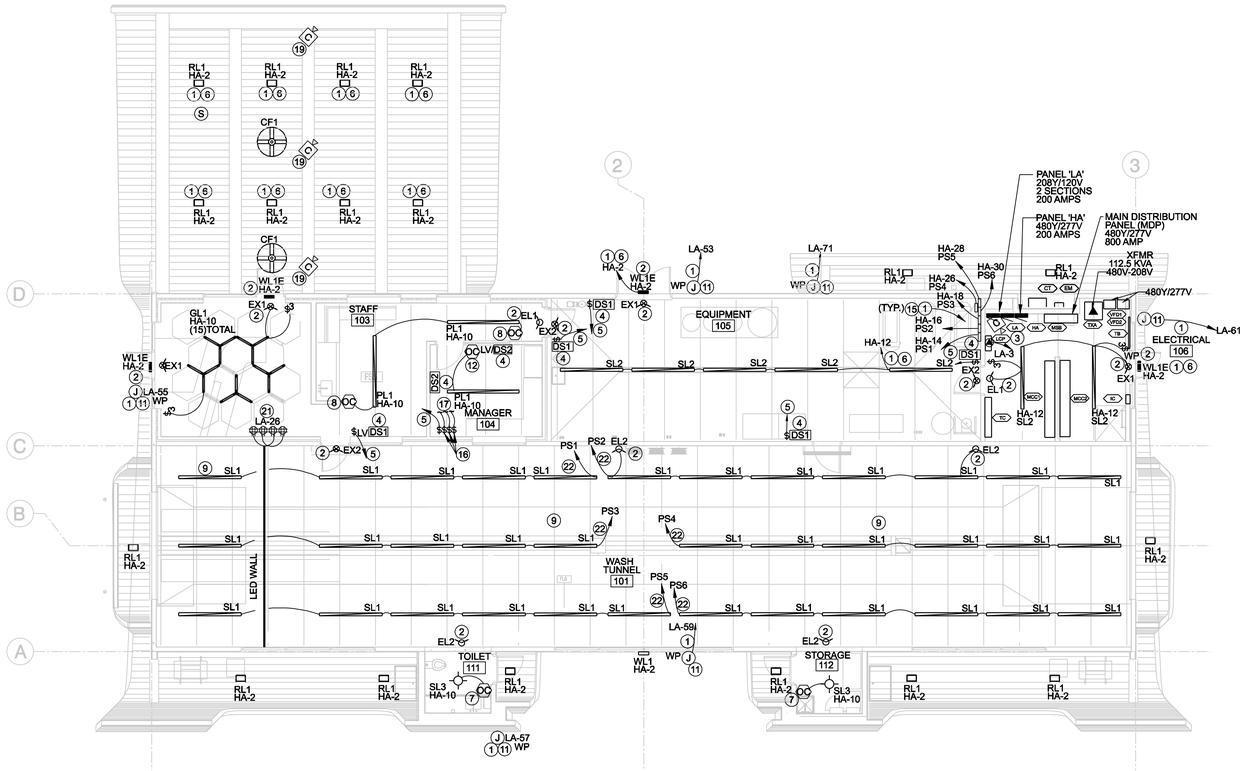
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ELECTRICAL LIGHTING FLOOR PLAN

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



ELECTRICAL LIGHTING ROOFTOP PLAN

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

GENERAL NOTES

1. ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AND EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.
2. ALL UNSWITCHED LEGS OF THE LIGHTING CIRCUIT SHALL BE ROUTED THROUGH OCCUPANCY SENSOR PRIOR TO ROUTING THROUGH SNAP SWITCHES TO PROVIDE UNSWITCHED POWER TO OCCUPANCY SENSOR FOR OCCUPANT INITIATION OF SENSOR.
3. SEE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES FOR ADDITIONAL INFORMATION.
4. SEE ARCHITECTURAL FOR SPECIFIC PLACEMENT OF EQUIPMENT AND ELECTRICAL DEVICES.
5. ELECTRICIAN SHALL CUT INTO AND RECESS ALL SWITCH BOXES, JUNCTION BOXES AND ALL OTHER DEVICE BOXES FOR ALL LIGHT-GAUGE STUD FRAMED WALLS FOR ALL SYSTEMS WITH NO EXCEPTIONS. FOLLOW PVC FROM WALL MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR INSTALLATION OF BOXES. CONDUIT AND ACCESSORIES. BASIS-OF DESIGN IS COR-LINE ENT WITH KWIKON BOXES AND ACCESSORIES BEND CONDUIT OUT OF WALS BELOW SLABS A MINIMUM OF 8".

KEYED NOTES

1. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL. SEE LIGHTING CONTROL PANEL SCHEDULE ON SHEET E-5 FOR ADDITIONAL INFORMATION.
2. CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO EGRESS FIXTURE FOR CONTINUOUS POWER TO BATTERY.
3. PROVIDE AND INSTALL 120/208 MASTER LIGHTING CONTROL PANEL SEE FIXTURE SCHEDULE AND LIGHTING CONTROL PANEL SCHEDULE ON SHEET E-5 FOR ADDITIONAL INFORMATION.
4. PROVIDE AND INSTALL LOW VOLTAGE DIGITAL SWITCHING STATION. SEE FIXTURE SCHEDULE AND LIGHTING CONTROL PANEL SCHEDULE ON SHEET E-5 FOR ADDITIONAL INFORMATION. PROVIDE FACE PLATES AS REQUIRED.
5. PROVIDE CONDUIT AND CONDUCTORS TO LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM. VERIFY NUMBER AND TYPE OF CONDUCTORS WITH LIGHTING CONTROL PANEL.
6. PROVIDE ADDITIONAL UNSWITCHED LED FOR CONNECTION TO EMERGENCY BATTERY PACKS. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO EGRESS FIXTURE FOR CONTINUOUS POWER TO BATTERY.
7. 1-POLE, LINE VOLTAGE, PIR SWITCH MOUNTED OCCUPANCYCY SENSOR, SENSOR SWITCH NO. WSX-BK OR PRE-BID APPROVED EQUAL.
8. LINE VOLTAGE, CEILING MOUNTED DUAL. TECHNOLOGY OCCUPANCY SENSOR, SENSOR SHALL BE SENSOR SWITCH NO. CMR9-PDT-WH OR APPROVED EQUAL.
9. ALL CONDUIT ROUTED IN THE WASH TUNNEL, EQUIPMENT ROOM AND BOILER ROOM SHALL BE ROUTED UNDERGROUND OR IN PVC WHEN EXPOSED. CONDUITS SHALL TRANSITION TO EMT WHEN ROUTED OUTSIDE THESE AREAS.
10. FURNISH AND INSTALL JUNCTION BOX FOR CONNECTION TO OWNER FURNISHED, DIVISION 16 INSTALLED LIGHT FIXTURE COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
11. CONNECTION FOR BUILDING SIGN. COORDINATE LOCATION AND CONNECTION TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
12. 1-POLE, LINE VOLTAGE, PIR SWITCH MOUNTED VACANCY SENSOR, SENSOR SWITCH NO. WSXOSA-WH OR PRE-BID APPROVED EQUAL. VACANCY SENSOR TO BE SET TO MANUAL 'ON'/AUTO 'OFF' CONTROL.
13. ROUTE CONDUIT AND CONDUCTORS TO DRIVER LOCATED IN TUNNEL CONTROLLER IN MCC FOR POWER AND CONTROLS.
14. COORDINATE ROUTING OF LIQUID TIGHT NON METALLIC CONDUIT AND CONDUCTORS DOWN FROM CEILING MOUNTED JUNCTION BOX TO LIGHT FIXTURE MOUNTED ON STRUCTURE OR OWNER PROVIDED UNI-STRUT RACK.
15. REMOTE MOUNTED POWER SUPPLY MOUNTED ACCESSIBLE HIGH ON WALL AT CEILING STRUCTURE.
16. FURNISH AND INSTALL 3 POSITION SWITCH FOR CONTROL OF OPEN/CLOSED/OFF SIGN AT POS. SEE SHEET SE-2 FOR ADDITIONAL INFORMATION.
17. TO OPEN/CLOSED SIGN AT POS. SEE SHEET SE-2 FOR ADDITIONAL INFORMATION.
18. FIXTURE TO OPERATE AS NIGHT LIGHT, CONNECTION TO UNSWITCHED LEG OF LIGHTING CIRCUIT.
19. LOCATION OF SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO SECURITY EQUIPMENT LOCATED WITHIN MANAGER OFFICE ROOM. COORDINATE LOCATION AND MOUNTING HEIGHT OF EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
21. (4)QUAD OUTLETS FOR CONNECTION TO THE LED WALL HIGH ABOVE CEILING JUST BELOW THE ROOF.
22. RUN TO REMOTE MOUNTED POWER SUPPLY MOUNTED HIGH ON WALL IN EQUIPMENT ROOM.

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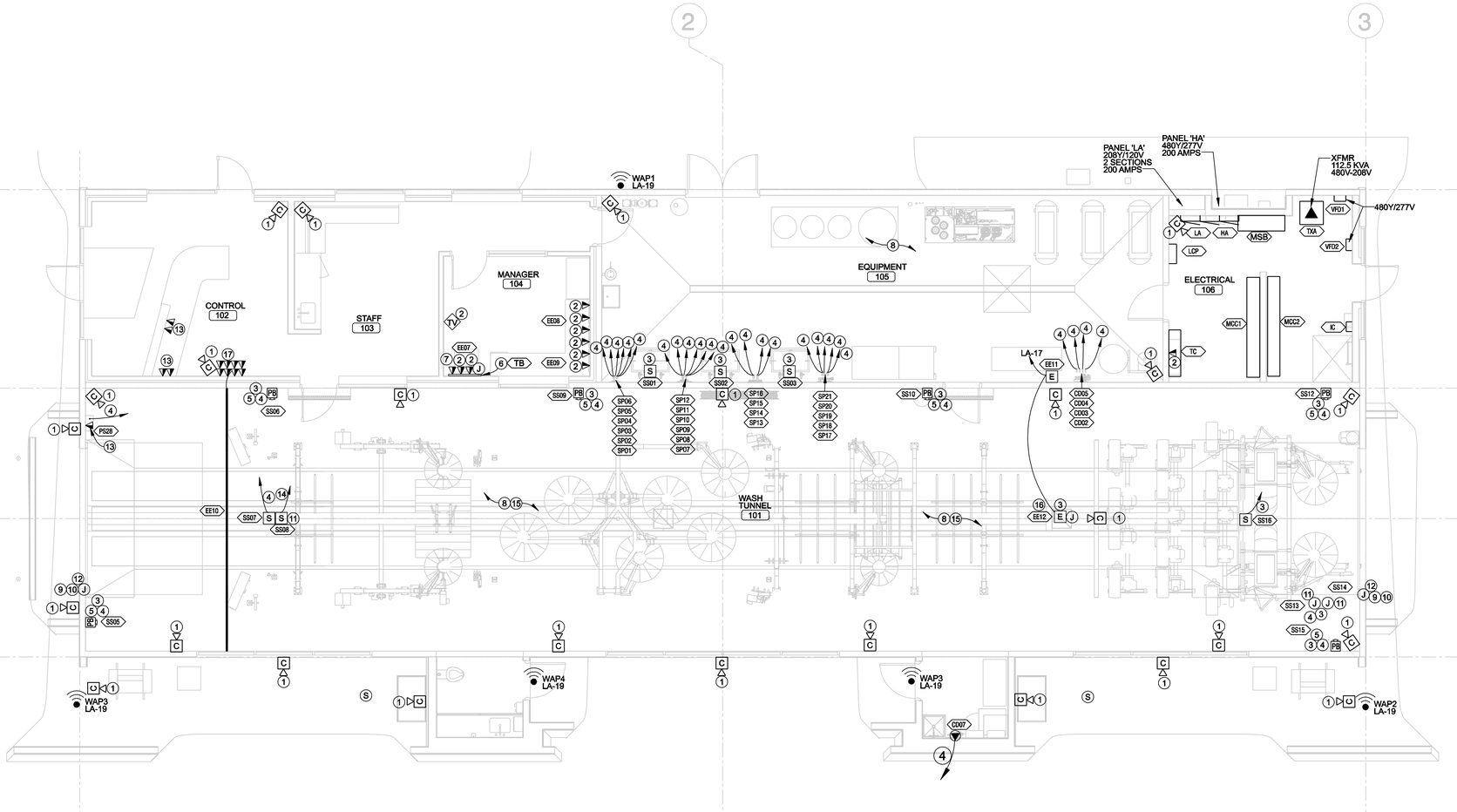
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SPECIAL SYSTEMS FLOOR PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES ON SHEETS A1.3A THROUGH A1.3D FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ARCHITECTURAL CONDUIT SHEET A1.2C FOR ADDITIONAL REQUIREMENTS.
3. ELECTRICIAN SHALL CUT INTO AND RECESS ALL JUNCTION BOXES, CAMERA BOXES AND ALL OTHER DEVICE BOXES INTO THE PVC CONCRETE FORM WALLS AND ALL LIGHT-GAUGE STUD FRAMED WALLS FOR ALL SYSTEMS WITH NO EXCEPTIONS. FOLLOW PVC FORM WALL MANUFACTURER'S PUBLISHED INSTRUCTIONS FOR INSTALLATION OF BOXES, CONDUIT AND ACCESSORIES. BASIS-OF DESIGN IS COR-LINE ENT WITH KWIKIN BOXES AND ACCESSORIES. BEND CONDUIT OUT OF WALLS BELOW SLABS A MINIMUM OF 8".

KEYED NOTES

1. LOCATION OF SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO SECURITY EQUIPMENT LOCATED WITHIN MANAGER OFFICE ROOM. COORDINATE LOCATION AND MOUNTING HEIGHT OF EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. STUB 1" CONDUIT ABOVE ACCESSIBLE CEILNG AND ROUTE CABLING TO TELEPHONE TERMINAL BOARD/ DATA/SECURITY RACK.
3. COORDINATE CONDUCTOR AND CONNECTION TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. SEE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES ON SHEETS A1.2A, A1.2B AND A1.2C FOR ADDITIONAL INFORMATION.
4. PROVIDE CONDUIT AND CONDUCTORS TO TUNNEL CONTROLLER WITHIN MCC. COORDINATE CONDUCTOR TYPE AND QUANITITY WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
5. PROVIDE ILLUMINATED WET-RATED EMERGENCY PUSH BUTTON. RED PUSH TO STOP BUTTON WITH TWIST RESET AND GREEN PUSH TO START BUTTON. ALLEN BRADLEY 800T0TFX0TQHTRA WITH 800T-A1D1-800T-X547 OR APPROVED EQUAL.
6. LOCATION OF TELEPHONE TERMINAL BOARD, COORDINATE LOCATION WITH GENERAL CONTRACTOR.
7. LOCATION OF SECURITY AND TELEPHONE/DATA RACKS.
8. CONDUITS RAN WITHIN TUNNEL, EQUIPMENT ROOM AND BOILER TO BE ROUTED UNDERGROUND OR ABOVE GROUND WITH SCHED. 40 PVC. CONDUITS TO TRANSITION TO EMT OUTSIDE OF THESE AREAS.
9. JUNCTION BOX PROVIDED BY WASH TUNNEL DOOR SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATION WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
10. PROVIDE AND INSTALL CONDUCTORS FROM JUNCTION BOX TO TUNNEL DOOR CONTROLLER. VERIFY NUMBER AND SIZE OF CONDUCTORS WITH EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN.
11. INSTALL JUNCTION BOX FOR PHOTO EYES. COORDINATE LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN. EXTEND RECEIVER CONDUITS BELOW CONVEYER TRENCH. WIRE PER MANUFACTURER INSTRUCTIONS.
12. LOCATION OF TUNNEL DOOR CONTROLLER. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUPMEMT SUPPLIER PRIOR TO ROUGH-IN.
13. PROVIDE CONDUCTORS TO TELE/DATA RACKS LOCATED IN MANAGER OFFICE. COORDINATE CONDUCTOR TYPE AND QUANITITY WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
14. PROVIDE CONDUIT AND CONDUCTORS TO ENTER EYE AMPLIFIER LOCATED IN EQUIPMENT ROOM. COORDINATE CONDUCTOR TYPE AND QUANTITY WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
15. PROVIDE WEATHER-TIGHT CONNECTIONS AND FITTINGS FOR ALL ELECTRICAL CONNECTIONS WITHIN TUNNEL.
16. LOCATION OF TUNEL PROJECTOR. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
17. RUN (8) CAT8 CABLE CONNECTIONS TO MANAGER OFFICE RACK FOR LED WALL AT OFFICE SIDE OF WALL HIGH ABOVE CEILING AND BELOW THE ROOF.

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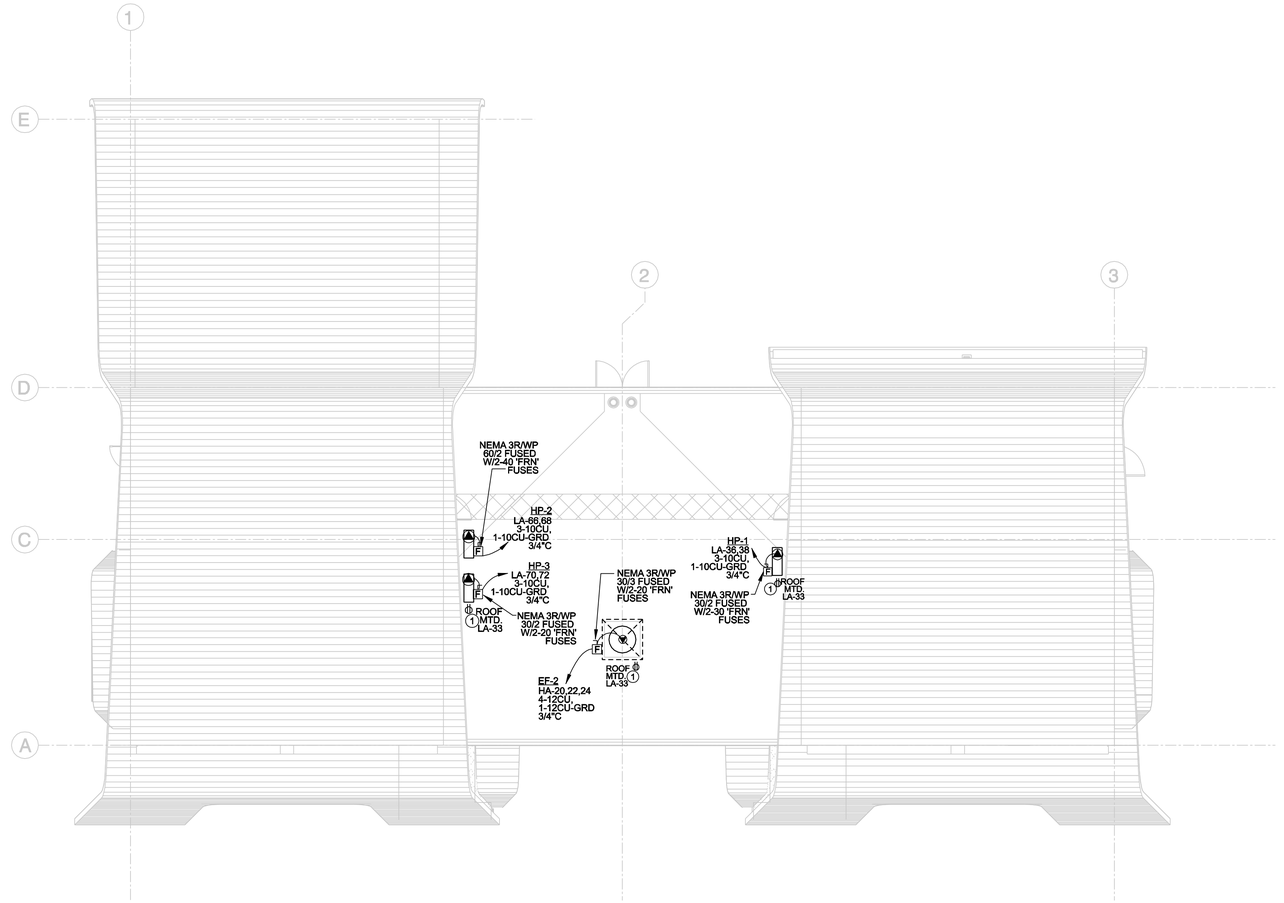
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ELECTRICAL POWER FLOOR PLAN

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E-3



POWER ROOF PLAN

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

KEYED NOTES

① PROVIDE CONVENIENCE RECEPTACLE FOR UNIT SERVICING. MOUNT ON UNISTRUT RACK OR APPROVED EQUAL.

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMPS	QTY	FIXTURE WATTS	TOTAL WATTS	VOLTAGE	REMARKS
AL1	LITHONIA	DSX2 LED P1 40K 70CRI T3M MVOLT HS SPA	LED, POLE LIGHT, SINGLE HEAD	POLE ARM MOUNTED	LED 18691LM 4000K	5	135	675	MULTI	2
AL2	LITHONIA	DSX2 LED P1 70CRI 40K T3M MVOLT HS SPA	LED, POLE LIGHT, DOUBLE HEAD	POLE ARM MOUNTED	(2)LED 18691LM 4000K	1	270	270	MULTI	2
EL1	LITHONIA NO. DUAL LITE	WLTE W 1 R EL	EMERGENCY LIGHTING UNIT LOW PROFILE, THERMOPLASTIC HOUSING DUAL HEAD WET RATED	ABOVE DOOR	WITH FIXTURE	4	3	12	120/277	2
EL2	LITHONIA DUAL LITE	WLTU W MR	EMERGENCY LIGHTING UNIT LOW PROFILE, THERMOPLASTIC HOUSING DUALHEAD WET RATED	WALL 7'-6" AFF	WITH FIXTURE	4	3	12	120/277	2
EX1	LITHONIA NO. DUAL LITE	LHQM-LED-R-SD-120/S77-W/ NI-CAD EVCURWDI	EXIT/EM LIGHT COMBO, LED, RED STENCIL THERMOPLASTIC HOUSING, SINGLE OR DOUBLE FACE NI-CAD BATTERY	ABOVE DOOR	WITH FIXTURE	4	3	12	120/277	2
EX2	MULE LTG ENVOY	CWL-1-R-BL-SD CWLEZ-1-R-B-SDT	EXIT/EM LIGHT COMBO, LED, RED STENCIL THERMOPLASTIC HOUSING, SINGLE OR DOUBLE FACE NI-CAD BATTERY	ABOVE DOOR	WITH FIXTURE	3	3	9	120/277	2
GL1	AXIS	STLDI-2-DSO-80-40-AP-UNV-DP	LED, AXIS STENCIL LINEAR PENDANT	SUSPENDED	LED 731.5 4000K	15	18.2	273	120/277	6
PL1	LEDALITE	7806-L-A-E-Q-G-08-D-T	LED, BOLDPLAY 7806L-A, 8FT, WHIT LOCATE DRIVER ON CEILING AT EQUIPMENT ROOM SIDE OF WALL	PENDANT	LED 7026 LM 4000K	3	56.6	169.8	120/277	6
RL1	CREE	CAN-228-5M-RM-03-E-UL-WH-525	LED, EXTERIOR RECESSED CANOPY	RECESSED	LED 10120 LM 4000K	16	54	864	120/277	6
SL1	G&G LED	WPX8-HO-50K;* PSU-480 DRIVERS	LED LINEAR TUNNEL, HIGH OUTPUT, IP68 DO NOT INSTALL DRIVERS INSIDE TUNNEL SECURE DRIVERS HIGH ON WALL TOGETHER AT LOCATION INDICATED ON CEILING PLAN	SURFACE	LED 12000 LM 5000K	35	80	2800	120/277	5
SL2	G&G LED	WPX8-SO-50K;* PSU-480 DRIVERS	LED LINEAR EQUIPMENT, STANDARD OUTPUT, IP68 SECURE DRIVERS HIGH ON WALL TOGETHER AT LOCATION INDICATED ON CEILING PLAN	SURFACE	LED 8000 LM 5000K	11	50	550	120/277	5
SL3	JUNO	JSF-7-35K-90-120-WH	LED, INTERIOR RECESSED CAN	SURFACE	LED 1000 LM 35000K	2	13	26	120/277	6
WL1	LITHONIA	DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD	LED WALL PACK	WALL	LED 5544 LM 5000K	1	46	46	120/277	1,2,4
WL1E	LITHONIA	DSXW1 LED 20C 700 40K T3M MVOLT PIR DNAXD ELCW	LED WALL PACK WITH EMERGENCY	WALL	LED 5544 5000K	4	46	184	120/277	1,2,4
IG	G&G LED	GPX6-HO-50K-UVO-SE-277V	OWNER FURNISHED CONTRACTOR INSTALLED FIXTURE MNTD. ON VACUUM ARCH. EACK LIGHT WILL COME WITH A 15' LEADER CABLE FOR ATTACHMENT INSIDE OF ARCH STANCHION	MOUNTED ON VACUUM ARCH	LED 3600 5000K	20	36	720	277	2,5
LCP	WATTSTOPPER NO. LEVITON NO. HUBBELL	LIA42-115/277-48HD-1GS-HCLK8S(F) SURFACE/FLUSH R48MD-XXX CX82S482NM	(42)RELAY MASTER LIGHTING CONTROL PANEL NETWORK CAPABLE, ASTRONOMICAL TIMECLOCK LCD SCREEN, INDIVIDUAL RELAY MANUAL OVERRIDE PHOTOCELL, OCC. SENSOR, LOW VOTLAGE SWITCH INPUTS RELAYS:10 MILLION ON/OFF CYCLES, 14KAIC MIN.	SURFACE OR FLUSH MOUNTED SEE DWGS.	N/A				120/277	2
DS1	WATTSTOPPER NO. LEVITON NO. HUBBELL	HDLS2SS ZMDSW-02W CXSW-2-W	(2)BUTTON DIGITAL SWITCH STATUS LED FOR EACH BUTTON MATCHING WALL PLATE, CUSTJOM LABEL KIT FOR EACH SWITCH FOR IN-FIELD LABELING	FLUSH MOUNTED IN DEEP SWITCH BOX	N/A				DIGITAL LOW VOLTAGE	2
DS2	WATTSTOPPER NO. LEVITON NO. HUBBELL	HDLS4SS ZMDSW-04W CXSW-4-W	(4)BUTTON DIGITAL SWITCH STATUS LED FOR EACH BUTTON MATCHING WALL PLATE, CUSTJOM LABEL KIT FOR EACH SWITCH FOR IN-FIELD LABELING	FLUSH MOUNTED IN DEEP SEITCH BOX	N/A				DIGITAL LOW VOLTAGE	2

REMARKS

1. PROVIDE WITH BODINE EMERGENCY BATTERY PACK SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT, PROVIDE WITH SELF TEST LIGHT AND PUSHBUTTON.
2. OR PRE-BID APPROVED EQUAL
3. SEE LIGHTING DRAWINGS AND LIGHTING CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION INCLUDING NUMBER AND TYPE OF RELAYS
   THE ELECTRICAL CONTRACTOR SHALL INCLUDE FACTORY START-UP AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM AS WELL AS COMMISSIONING.
4. WHEN INSTALLED IN AN INSULATED CEILING, FIXTURE TO BE INSTALLED WITH FIRE RATED OR IC RATED ENCLOSURE OR HAVE SHEET ROCK ENCLOSURE BUILT PER DETAIL
5. OWNER FURNISHED CONTRACTOR INSTALLED.
6. CONTRACTOR FURNISHED AND INSTALLED.

NOTE TO BIDDERS

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED VIA ADDENDUM. SUBMITTED ITEMS NOT APPROVED VIA ADDENDUM WILL BE REJECTED
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPERATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.

LIGHTING CONTROL PANEL 'LCP'

LIGHTING CONTROL PANEL SCHEDULE-MASTER

PROJECT NAME: PONY EXPRESS POCATELLO — PANEL NOTES: PROVIDE ADDITIONAL INPUT CARDS AS REQUIRED FOR NUMBER OF INPUTS INDICATTED
PANEL NAME: LCP PANEL VOLTAGE: 120V — PANEL MOUNTING: SURFACE

RELAY OUTPUTS

PANEL	CKT	RELAY	RELAY NAME	RELAY NOTES	VOLTAGE	TYPE
HA	12	1	RELAY1	3	277	20A/1P
HA	2	2	RELAY 2	3	277	20A/1P
HA		3	RELAY 3	3	277	20A/1P
HA	10	4	RELAY 4	3	277	20A/1P
HA		5	RELAY 5	3	277	20A/1P
HA		6	RELAY 6	3	277	20A/1P
HA		7	RELAY 7	3	277	20A/1P
HA		13	RELAY 13	3	120	20A/1P
HA		14	RELAY 14	3	120	20A/1P
HA		15	RELAY 15	3	120	20A/1P
LA	53	16	RELAY 16	3	120	20A/1P
LA	57	17	RELAY 17	3	120	20A/1P
LA	59	18	RELAY 18	3	120	20A/1P
LA	61	19	RELAY 19	3	120	20A/1P
LA	63	20	RELAY 20	3	120	20A/1P
LA	58	21	RELAY 21	3	120	20A/1P
LA	60	22	RELAY 22	3	120	20A/1P
LA	52	23	RELAY 23	3	120	20A/1P
LA	71	24	RELAY 24	3	120	20A/1P
LA	35	25	RELAY 25	3	120	20A/1P
LA	10	26	RELAY 26	3	120	20A/1P
LA	12	26	RELAY 27	3	120	20A/1P
LA	16	28	RELAY 28	3	120	20A/1P
		29	RELAY 29			
		30	RELAY 30			
		31	RELAY 31			
		32	RELAY 32			
		33	RELAY 33			
		34	RELAY 34			
		35	RELAY 35			
		36	RELAY 36			
		37	RELAY 37			
		38	RELAY 38			
		38	RELAY 39			
		40	RELAY 40			
		41	RELAY 41			
		42	RELAY 42			
		43	RELAY 43			
		44	RELAY 44			
		45	RELAY 45			
		46	RELAY 46			
		47	RELAY 47			
		48	RELAY 48			

LOCAL CONTACT INPUTS

INPUT TYPE	SWITCH TYPE/INPUT NAME	AREA(S) CONTROLLED SWITCH LOCATION	SWITCH BUTTON NO.	SWITCH BUTTON LABEL	SWITCH/INPUT NOTES	RELAY(S) CONTROLLED
DIG. SWITCH	DS1	EQUIPMENT ROOM	1	ALL ON	1	
		CANOPY LIGHTING	2	ALL OFF	1	
DIG. SWITCH	DS2	OFFICE	1	ALL ON	1	
			2	ALL OFF		

RELAY NOTES:
1) THE RELAY SHALL BE CONTROLLED:PHOTO TO CELL ON, TIMECLOCK
2) THESE RELAYS SHALL BE PROGRAMMED FOR LIGHT SWEEP CONTROL LIGHTING CIRCUITS INDICATED BY OWNER. THE OVERRIDE SWITCHES SHALL BE PROGRAMMED TO PROVIDE AND ADDITIONAL 2-HOURS OF OVERRIDE WHEN ACTIVATED.
3) COORDINATE PROGRAMMING WITH OWNER

SWITCH/INPUT NOTES:
1) BUTTON TO BE UTALIZED FOR 2-HR OVERRIDE AS INDICATED IN RELAY NOTE #2.

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: AQUASONIC CAR WASH
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:
9701 W. COLONIAL DRIVE
OCOEE FL, FL 34761

Owner/Agent:
JOSH HOWA
HOWA DESIGN
1831 N. WILDWOOD ST.
TWIN FALLS, ID 83303
208-841-4524

Designer/Contractor:
TYLER BEAUCANNON
KARTCHER BEAUCANNON ASSOCIATES
1301 S FIVE MILE RD
BOISE, ID 83709
208-888-7145
tbeaucannon@kbamep.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	4455 ft2	0.07	No	334
Driveway	34968 ft2	0.04	Yes	1395
Free standing/attached sales canopy	2268 ft2	0.4	Yes	907
			Total Tradable Watts (a) =	2302
			Total Allowed Watts =	2636
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Illuminated area of facade wall or surface (4455 ft2): Non-tradable Wattage				
LED 1: WL1: Other:	1	1	46	46
LED 2: WL1E: Other:	1	4	46	184
Driveway (34968 ft2): Tradable Wattage				
LED 3: AL1: Other:	1	6	135	810
LED 4: AL2: Other:	1	1	278	278
LED 7: IG: Other:	1	20	36	720
Free standing/attached sales canopy (2268 ft2): Tradable Wattage				
LED 6: RL1: Other:	1	16	54	864
			Total Tradable Proposed Watts =	2672

Project Title: AQUASONIC CAR WASH — Report date: 08/15/24
Data filename: H:\Doogle Drive\2024\24-30 Aquasonic Ocoee\Elec\ComCheck.cck — Page 2 of 9

Exterior Lighting PASSES: Design 1% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

RICHARD T. KARTCHNER P.E. — Name - Title
Signature
8-22-24 — Date

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: AQUASONIC CAR WASH
Project Type: New Construction

Construction Site:
9701 W. COLONIAL DRIVE
OCOEE FL, FL 34761

Owner/Agent:
JOSH HOWA
HOWA DESIGN
1831 N. WILDWOOD ST.
TWIN FALLS, ID 83303
208-841-4524

Designer/Contractor:
TYLER BEAUCANNON
KARTCHER BEAUCANNON ASSOCIATES
1301 S FIVE MILE RD
BOISE, ID 83709
208-888-7145
tbeaucannon@kbamep.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Retail	4546	0.95	4337
		Total Allowed Watts =	4337

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Retail				
LED1: GL1: Other:	1	15	18	273
LED 5: PL1: Other:	1	3	57	170
LED 2: SL1: Other:	1	35	80	2800
LED 3: SL2: Other:	1	11	50	550
LED 4: SL3: Other:	1	13	26	338
		Total Proposed Watts =		4131

Interior Lighting PASSES: Design 5% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

RICHARD T. KARTCHNER P.E. — Name - Title
Signature
8-22-24 — Date

Project Title: AQUASONIC CAR WASH — Report date: 08/15/24
Data filename: H:\Doogle Drive\2024\24-30 Aquasonic Ocoee\Elec\ComCheck.cck — Page 1 of 9

BIDDERS SCOPE

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EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

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1301 S Five Mile Rd. Boise ID 83709
Phone : 208-888-7145

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RICHARD T. KARTCHNER LICENSE No. 85062 8-22-24 STATE OF FLORIDA PROFESSIONAL ENGINEER

revisions:

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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SPOTLESS WASH SOLUTIONS USA INC
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checked	RTK / JB
date	8/22/24
drawn	AJ / BPS
job no.	24-30
issued for	PERMIT

sheet title: ELECTRICAL LIGHTING SCHEDULES

sheet number: E-5

PANEL LA SCHEDULE (2 SECTIONS)

THREE PHASE PANEL BOARD SCHEDULE

PANELBOARD ID: PANEL 'LA' | Voltage: 208Y/120V | MAIN: MLO | FEATURES:NEMA 1 LOCKABLE
LOCATION: ELECTRICAL 106 | Phase: 3 | MOUNTING: Surface
Wires: 4
Bus Amps: 225 AMPS | AIC: 22000

		CONNECTED AMPS										CONNECTED AMPS							
WIRE SIZE	CIRCUIT DESCRIPTION	LTG	REC	MISC	KIT	MTR	BRKR/POLE	CCT	PHASE	CCT	BRKR/POLE	LTG	REC	MISC	KIT	MTR	CIRCUIT DESCRIPTION	WIRE SIZE
12	REC: IRIG CONTROL			4			20/1	1	A	2	20/1			9			R.O. SYSTEM	12
12	LIGHTING CONTROL		1.5				20/1	3	B	4	20/1			6			EXITING SIGN	12
12	LOADING PEDESTAL			5			20/1	5	C	6	20/1		9				REC:CONTROL/STAFF/OFFICE	12
10	MCC1			8.9			30/2	7	A	8	20/1		6				WINDSHIELD PUMP	12
10				8.9				9	B	10	20/1			1			VACUUM TOOL LOCK	12
12	WASHING MACHINE			15			20/1	11	C	12	20/1			6			SIGN	12
12	COOLING FAN			1.72			20/1	13	A	14	20/1			1			VACUUM TOOL LOCK	12
12	WATER SOFTENER			5			20/1	15	B	16	20/1			6			DIGITAL SIGN	12
12	PROJECTOR CONTROLLER			6			20/1	17	C	18	20/1		6				REC:P.O.S SERVER/T.T.BD	12
12	WI-FI POWER			6			20/1	19	A	20	20/1		3				REC: MANAGER PRINTER	12
12	UC REFRIGERATOR				9		20/1	21	B	22	20/1		12				REC:MANAGER PC	12
12	COFFEE MAKER				12.5		20/1	23	C	24	20/1		12				REC: CONTROL RM SVR/PRNTR	12
12	MICROWAVE				12.5		20/1	25	A	26	20/1		12				LED WALL	12
12	REC: TOILET		1.5				20/1	27	B	28	20/1			4			MAT BEATER S	12
10	VACUUM 1			1			30/1	29	C	30	20/1			6			WINDSHIELD PUMP	12
10	VACUUM 2			1			30/1	31	A	32	15/2			6.5			FC-2	12
12	REC:ROOF MOUNTED		4.5				20/1	33	B	34				6.5				12
12	EXIT SIGN			6			20/1	35	C	36	30/2			10			HP-1	10
10	WATER HEATER			6			30/2	37	A	38				10				10
10				6				39	B	40	20/1			1.8			HAND DRYER	12
12	MENU SIGN LANE 1			8			20/1	41	C	42	20/1			8			MENU SIGN LANE 3	12
SECTION 2																			
12	MENU SIGN LANE 2			8			20/1	43	A	44	20/1			5			MAGNETIC GATE	12
12	POS LANE 1			8			20/1	45	B	46	20/1			5			MAGNETIC GATE	12
12	POS LANE 2			8			20/1	47	C	48	20/1			8			POS LANE 3	12
10	TUNNEL CONTROLLER			12.5			30/2	49	A	50	20/1			5			MAGNETIC GATE	12
10				12.5				51	B	52	20/1						SPARE	12
12	EXTERIOR SIGN			6			20/1	53	C	54	20/1			1			VACUUM TOOL LOCK	12
12	EXTERIOR SIGN			6			20/1	55	A	56	20/1		3				REC:VACUUMS	12
12	EXTERIOR SIGN			6			20/1	57	B	58	20/1			16			MONUMENT SIGN	12
12	EXTERIOR SIGN			6			20/1	59	C	60	20/1			1			VACUUM TOOL LOCK	12
12	EXTERIOR SIGN			6			20/1	61	A	62	20/1			1			VACUUM TOOL LOCK	12
12	TIRE PRESSURE CONT.			5			20/1	63	B	64	20/1			1			VACUUM TOOL LOCK	12
12	WASHER FLUID POWER			5			20/1	65	C	66	40/2			18.1			HP-2	8
12	TIRE PRESSURE CONT.			5			20/1	67	A	68				18.1				8
12	WASHER FLUID POWER			5			20/1	69	B	70	20/2			8.2			HP-3	12
12	EXTERIOR SIGN			6			20/1	71	C	72				8.2				12
12	VACUUM TOOL LOCK			1			20/1	73	A	74	20/1			1			VACUUM TOOL LOCK	12
12	VACUUM TOOL LOCK			1			20/1	75	B	76	20/1			1			VACUUM TOOL LOCK	12
12	VACUUM TOOL LOCK			1			20/1	77	C	78	20/1			1			VACUUM TOOL LOCK	12
12	VACUUM TOOL LOCK			1			20/1	79	A	80	20/1			1			VACUUM TOOL LOCK	12
12	VACUUM TOOL LOCK			1			20/1	81	B	82	20/1			1			VACUUM TOOL LOCK	12
12	VACUUM TOOL LOCK			1			20/1	83	C	84	20/1			1			VACUUM TOOL LOCK	12

REMARKS: PROVIDE LOCKABLE CIRCUIT BREAKER FOR WH CIRCUITS

CONNECTED LOAD (KVA)		DEMAND LOAD (KVA)		CONNECTED KVA/PHASE		TOTAL LOADS	
LIGHTING	0.0	0.0	LIGHTING	20.3	PHASE A	58.5	TOTAL CONNECTED KVA
RECEPTACLE	8.5	8.5	RECEPTACLE	17.7	PHASE B	57.1	TOTAL DEMAND KVA
MISC	46.0	46.0	MISC	22.4	PHASE C	158	TOTAL DEMAND AMPS
KITCHEN	4.08	2.652	KITCHEN	CONNECTED AMP/PHASE		200	PANEL DESIGN AMPS
MOTOR	0.0	0.0	MOTOR	169.22	PHASE A		
				147.4	PHASE B		
				186.8	PHASE C		

PANEL HA SCHEDULE

THREE PHASE PANEL BOARD SCHEDULE

PANELBOARD ID: PANEL 'HA' | Voltage: 480Y/277V | MAIN: MLO | FEATURES:NEMA 1 LOCKABLE
LOCATION: ELECTRICAL 106 | Phase: 3 | MOUNTING: Surface
Wires: 4
Bus Amps: 225 AMPS | AIC: 22000

		CONNECTED AMPS										CONNECTED AMPS							
WIRE SIZE	CIRCUIT DESCRIPTION	LTG	REC	MISC	KIT	MTR	BRKR/POLE	CCT	PHASE	CCT	BRKR/POLE	LTG	REC	MISC	KIT	MTR	CIRCUIT DESCRIPTION	WIRE SIZE
12	IRRIGATION PUMP			11.7			20/3	1	A	2	20/1	4.1					LTG:EXTERIOR	12
12				11.7				3	B	4	20/1	3.9					LTG:PARKING	12
12				11.7				5	C	6	20/1	1.3					LTG:VACUUM	12
12	SPARE						20/1	7	A	8	20/1	1.3					LTG:VACUUM	12
12	SPARE						20/1	9	B	10	20/1	1.6					LTG:OFFICE/ELEC.	12
12	SPARE						20/1	11	C	12	20/1	1					LTG:EQUIPMENT ROOM	12
12	AIR COMPRESSOR 1			5.4			20/3	13	A	14	20/1	1.7					LTG:POWER SUPPLY 1(PS1)	12
12				5.4				15	B	16	20/1	1.7					LTG:POWER SUPPLY 2(PS2)	12
12				5.4				17	C	18	20/1	2					LTG:POWER SUPPLY 3(PS3)	12
12	AIR COMPRESSOR 2			5.4			20/3	19	A	20	20/3				2.7		EF-2	12
12				5.4				21	B	22					2.7			12
12				5.4				23	C	24					2.7			12
12	SPARE						20/1	25	A	26	20/1	2					LTG:POWER SUPPLY 4(PS4)	12
12	SPARE						20/1	27	B	28	20/1	1.7					LTG:POWER SUPPLY 5(PS5)	12
12	LTG:POS CANOPY			6			20/1	29	C	30	20/1	1.7					LTG:POWER SUPPLY 6(PS6)	12
12	AIR COMPRESSOR 3			5.4			20/3	31	A	32	20/1						LTG:ROOFTOP MECHANICAL	12
12				5.4				33	B	34	20/1						SPARE	12
12				5.4				35	C	36	20/1						SPARE	12
12	SPARE						20/1	37	A	38	20/1						SPARE	12
12	SPARE						20/1	39	B	40	20/1						SPARE	12
12	SPARE						20/1	41	C	42	20/1						SPARE	12

REMARKS:

CONNECTED LOAD (KVA)		DEMAND LOAD (KVA)		CONNECTED KVA/PHASE		TOTAL LOADS	
LIGHTING	6.6	8.0	LIGHTING	11.0	PHASE A		
RECEPTACLE	0.0	0.0	RECEPTACLE	10.9	PHASE B	33.7	TOTAL CONNECTED KVA
MISC	27.1	27.1	MISC	11.8	PHASE C	35.1	TOTAL DEMAND KVA
KITCHEN	0	0	KITCHEN	CONNECTED AMP/PHASE		42.2	TOTAL DEMAND AMPS
MOTOR	0.0	0.0	MOTOR	39.7	PHASE A	200	PANEL DESIGN AMPS
				39.5	PHASE B		
				42.6	PHASE C		

BIDDERS SCOPE

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RICHARD T. KARTCHNER LICENSE No. 85082 8-22-24 STATE OF FLORIDA PROFESSIONAL ENGINEER

revisions:

AQUASONIC CAR WASH

9701 W COLONIAL DRIVE, OCOEE FL 34761

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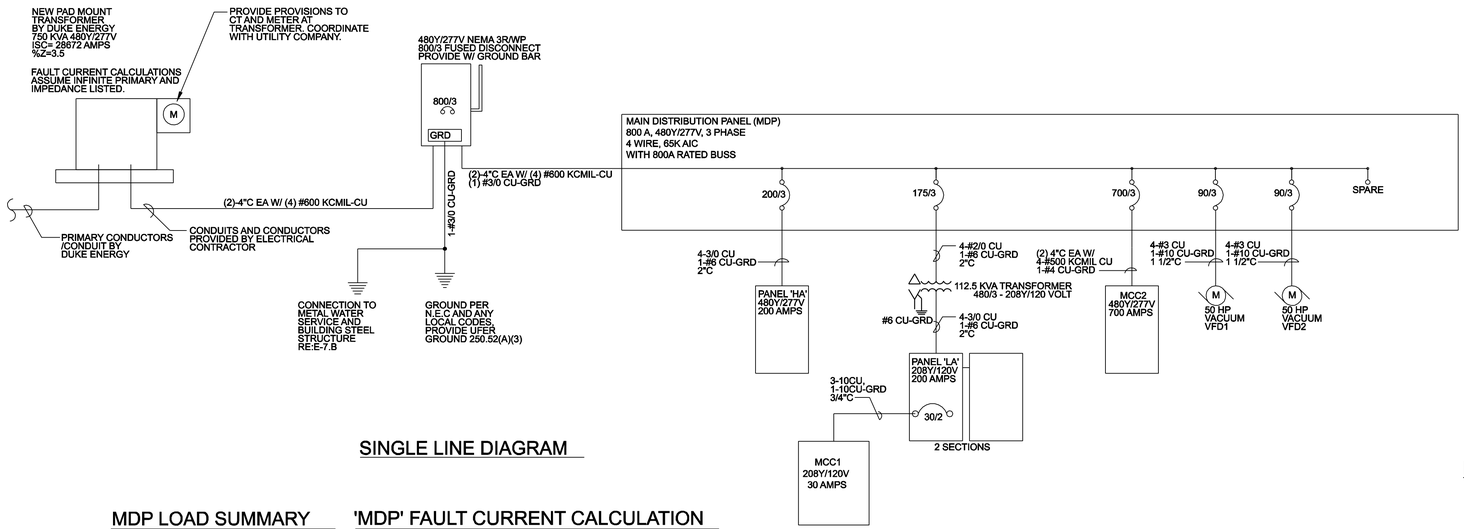
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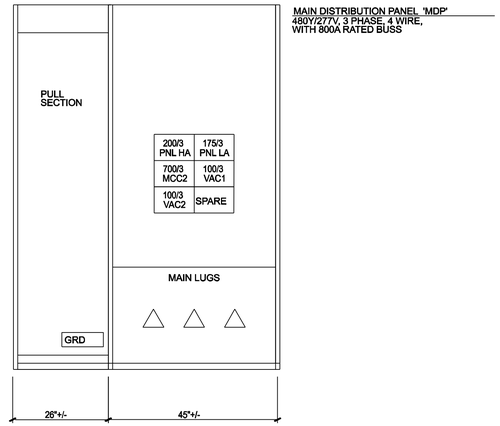
checked	RTK / JB
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issued for	PERMIT

sheet title: ELECTRICAL PANEL SCHEDULES

sheet number: E-6



SINGLE LINE DIAGRAM



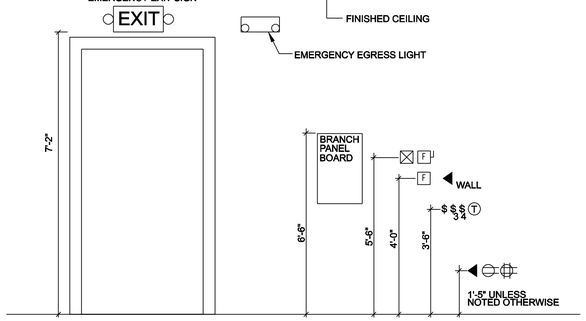
MAIN DISTRIBUTION PANEL ELEVATION

MDP LOAD SUMMARY

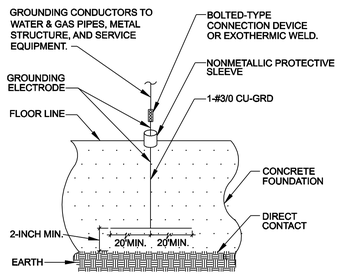
BUILDING PANELS	
PANEL LA	58.5 KVA
PANEL HA	33.7 KVA
VAC1	54.0 KVA
VAC2	54.0 KVA
MCP	465.6 KVA
TOTAL LOAD=	665.8 KVA
TOTAL LOAD=	553.5 AMPS

'MDP' FAULT CURRENT CALCULATION

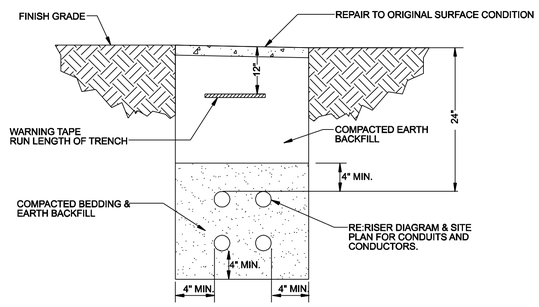
Line 1												
Source	Target	Amps	Fault Current	Conductor/Conduit Type	Wire Size	C Value	Length	# of Conduct/Phase (n)	Voltage of Circuit (E.)	"f" Factor	Multiplier (M)	Sym RMS
XFMR	DISCO.	800	28672	Copper NonMag	600	28033	193	2	480	0.356	0.737	21142.339
Line 10												
Source	Target	Amps	Fault Current	Conductor/Conduit Type	Wire Size	C Value	Length	# of Conduct/Phase (n)	Voltage of Circuit (E.)	"f" Factor	Multiplier (M)	Sym RMS
MDP	PANEL HA	200	21142.34	Copper NonMag	3\0	13923	15	1	480	0.082	0.9241	19536.627
Line 11												
Source	Target	Amps	Fault Current	Conductor/Conduit Type	Wire Size	C Value	Length	# of Conduct/Phase (n)	Voltage of Circuit (E.)	"f" Factor	Multiplier (M)	Sym RMS
MDP	PANEL LA	200	21142.339	Copper NonMag	3\0	13923	15	1	208	0.190	0.8406	17771.617



STANDARD MOUNTING HEIGHT DETAIL
SCALE: NONE — A



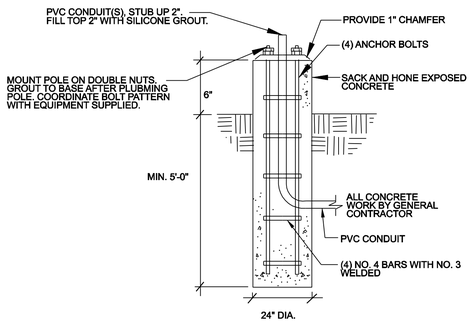
UFER SERVICE GROUNDING DETAIL
SCALE:NONE — B



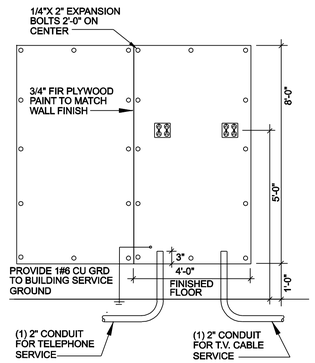
UNDERGROUND CONDUIT DETAIL
SALE: NONE — C

NOTE: ELECTRICAL CONTRACTOR TO VERIFY EXACT REQUIREMENTS WITH LOCAL UTILITY.

FIXTURE TYPE PL1 MOUNTING DETAIL
SCALE:NONE — D



FIXTURE BASE MOUNTING DETAIL
SCALE:NONE — E



TEL/TV TERM. BOARD MOUNTING DETAIL
SCALE: NONE — F

BIDDERS SCOPE

ANY AND ALL CONTRACTORS SUBMITTING A BID FOR WORK SCOPE REFERENCED OR DESCRIBED IN THIS BID DOCUMENT DRAWING PACKAGE SHALL INCLUDE RELATED WORK FROM ALL ARCHITECTURAL AND ENGINEERING DISPOPLINES TOGETHER. THIS DRAWING PACKAGE AS A WHOLE CONSTITUTES THE SCOPE OF WORK FOR ALL SUBCONTRACTORS. DO NOT BREAK THE DRAWING PACKAGE INTO SUB-PACKAGES AS THOSE ABBREVIATED PACKAGES WILL CERTAINLY BE MISSING IMPORTANT SCOPE OF WORK INFORMATION.

FOR EXAMPLE. THERE IS ELECTRICAL SCOPE OF WORK THAT IS REFERENCED ON THE ARCHITECTURAL EQUIPMENT PLAN AND SCHEDULES THAT MUST BE INCLUDED.

EACH SCOPE WILL BE FURTHER OUTLINED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.

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1301 S Five Mile Rd. Boise ID 83709
Phone : 208-888-7145

stamp

RICHARD T. KARTCHNER LICENSE No. 85082 STATE OF FLORIDA PROFESSIONAL ENGINEER 8-22-24

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sheet title: ELECTRICAL SINGLE LINE

sheet number: E-7