

FCWS - TRILITH TANK **BOOSTER PUMP STATION ISSUED FOR BID APRIL 2025**

OWNER:



ENGINEER OF RECORD



2839 PACES FERRY ROAD, SUITE 400, ATLANTA, GA 30339-3769 TEL: 770-431-8666 FAX: 770-435-2666 www.ARCADIS.com



Know what's **below. Call** before you dig.

ARCADIS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 900 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
SEALS
FAYETTE COUNTY, GEORGIA FAYETTE COUNTY WATER SYSTEM
FAYETTE Water
FCWS-TRILITH TANK BOOSTER PUMP STATION
400 VETERANS PARKWAY, FAYETTEVILLE, GA 30214, UNITED STATES
0 4/18/2025 ISSUED FOR BID TT NO. DATE ISSUED FOR BY
COPYRIGHT: ARCADIS U.S., INC. 2025
PROJECT STATUS: BID PROJECT NO.: <u>30135792</u>
DATE: APRIL 2025 FILE NAME: G-01
DESIGNED BY: E. VAN DEVENTER
DRAWN BY: <u>B. TARIT</u> CHECKED BY: T. THOMAS
SHEET TITLE
GENERAL
COVER SHEET AND SITE LOCATION
SCALE: NTS
G-01

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GENERAL SITE AND YARD PIPING NOTES

- 1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR, AND PROPERLY RESTORE ALL PAVEMENT, DRIVES, SIDEWALK, AND CURBS, WHICH MAY HAVE BEEN DAMAGED, REMOVED OR DISTURBED AS RESULT OF ACCOMPLISHING THE WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING GRADES AND DIMENSIONS AND NOTIFYING THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- 3. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON SURFACE OBSERVATION AND LIMITED DETECTION SERVICES. NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION AND INSTALLED ELEVATION OF ALL EXISTING UTILITIES AND FOR DETERMINING THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK. NOTIFY THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- 4. A COPY OF THE APPROVED SET OF CONSTRUCTION PLANS MUST BE ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
- 5. ALL EROSION AND SEDIMENTATION CONTROLS AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
- 6. UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL CONFORM TO THE FAYETTE COUNTY AND STATE OF GEORGIA STANDARDS AND SPECIFICATIONS.
- 7. WHERE SHOWN ON DRAWINGS ALL SUBSURFACE TOPOGRAPHICAL FEATURES WHICH INCLUDE GROUND WATER TABLE, PARTIALLY WEATHERED ROCK, AND ROCK SHOWN ARE APPROXIMATE. THE CONTRACTOR AT HIS EXPENSE SHALL CONDUCT ADDITIONAL SUBSURFACE SOIL EXPLORATION IF DEEMED NECESSARY.
- THE CONTRACTOR SHALL COORDINATE, OBTAIN APPROVAL AND PROVIDE TEMPORARY 8. TRAFFIC ROUTING PLANS PRIOR TO ANY LANE CLOSURES WITH THE FAYETTE COUNTY.
- 9. ALL WORK AROUND THE EXISTING UTILITIES AND UTILITY STRUCTURES WHETHER ABOVE OR BELOW GROUND SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES AND STRUCTURES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE ABOVE AND BELOW GROUND UTILITIES WHICH MAY BE AFFECTED BY THE WORK AND PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RESTORATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION. PROVIDE 72 HOURS OF ADVANCE NOTICE TO THE UTILITY OWNER AND FAYETTE COUNTY PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (GA 811).
- 10. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR, CONTRACTOR'S CREW AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S COST AND RESPONSIBILITY TO REPLACE PER OWNER'S STANDARDS AND SPECIFICATIONS.
- 11. THE REFUSE RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE HAULED TO A DISPOSAL SITE SECURED BY THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS. NO DEBRIS OF ANY KIND SHALL BE DEPOSITED IN ANY STREAM OR BODY OF WATER, OR IN ANY STREET OR ALLEY. NO DEBRIS SHALL BE DEPOSITED UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PROPERTY OWNER. IN NO CASE SHALL ANY MATERIAL BE LEFT ON THE PROJECT, SHOVED ONTO ABUTTING PRIVATE PROPERTIES, OR BE BURIED IN THE EMBANKMENTS OR TRENCHES ON THE PROJECT.
- 12. FINISHED GRADING OF THE DISTURBED AREA SHALL BE ACCORDING TO CIVIL DRAWINGS. NO STANDING WATER OR PONDING OF ANY KIND IS ALLOWED. ALL DISTURBED AREA SHALL BE IMMEDIATELY GRASSED.
- 13. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL STANDARDS, LATEST EDITION.
- 14. IN THE EVENT ACTIVE UTILITY SERVICES REQUIRE INTERRUPTION, THE CONTRACTORS SHALL COORDINATE AND CONSULT WITH THE OWNER OR/OWNERS AND OBTAIN APPROVAL FROM THEM PRIOR TO SERVICES BEING DISRUPTED.
- 15. THE CONTRACTOR SHALL ALL TIMES CONTROL DUST AND DEBRIS FROM THE OPERATIONS TO A LEVEL ACCEPTABLE TO FAYETTE COUNTY AND LOCAL BUSINESSES AT ALL TIMES.
- 16. TEMPORARY DISCONNECTION, REMOVAL AND/OR REPLACEMENT OF THE FOLLOWING ITEMS BUT NOT LIMITED TO, FIRE HYDRANTS, WATER METERS, BACK FLOW PREVENTION DEVICES, VAULTS, MANHOLE AND OTHER POTABLE WATER SYSTEM APPURTENANCES. ASSOCIATED APPURTENANCES SHALL BE IN STRICT ACCORDANCE WITH THE LATEST FAYETTE COUNTY STANDARDS AND SPECIFICATIONS. BEFORE CONNECTION, REMOVAL AND/OR REPLACEMENT OF ANY UTILITIES. THE CONTRACTOR SHALL CONTACT AND OBTAIN APPROVAL FROM FAYETTE COUNTY PUBLIC WORKS REPRESENTATIVES PRIOR TO CONSTRUCTION.
- 17. ALL EXCAVATION SHALL BE ADEQUATELY SHORED TO ENSURE WORKER SAFETY. ALL PIPE LAYING OPERATIONS SHALL COMPLY WITH OSHA REQUIREMENTS FOR TRENCH SAFETY.
- 18. MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM FAYETTE COUNTY INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR.
- 19. 72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING. http://www.georgia811.com

PROJECT COMPLETION

DIRECT FIELD MEASUREMENTS AND SHOWN TO SCALE.

1. PRIOR TO ACCEPTANCE AND FINAL PAYMENT, CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY. WHICH IS A DRAWING PREPARED AND SIGNED BY A REGISTERED LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA ILLUSTRATING THE LOCATIONS, DIMENSIONS AND ELEVATIONS OF A DEVELOPMENT AS IT HAS BEEN CONSTRUCTED FOLLOWING COMPLETION OF CONSTRUCTION ON

LEGEND & SYMBOLS



-------X -------- PROPOSED SILT FENCE

PROPOSED GRAVEL

DRAWING NUMBER EXPLANATION







CIVIL ABBREVIATIONS

GV

ID

IN., "

INF.

INV.

JT.

LF

MH

NC

NO

NO.

OD

ΡE

PG.

PSI

SS

W/

R

APPROX	. APPROXIMATE
ASPH	ASPHALT
BLDG.	BUILDING
BOC	BOTTOM OF CURB
Æ	CENTERLINE
CB	CATCH BASIN
CO	CLEANOUT
CONC.	CONCRETE
CONT.	CONTINUED
CPLG.	COUPLING
CY	CUBIC YARD(S)
DE	DIATOMACEOUS EARTH
DET.	DETAIL
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DIA.	DIAMETER
DISCH.	DISCHARGE
DWG	DRAWING
EA.	EACH
EFF.	EFFLUENT
EJ	EXPANSION JOINT
ELEV.	ELEVATION
ELEC.	ELECTRIC
EQ.	EQUAL
EXIST.	EXISTING
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN.	FINISHED
FLEX.	FLEXIBLE
FLG	FLANGE
FLR.	FLOOR
FIG.	FOOTING
FF.	FEEI
GRD.	GROUND

GRAT. GRATING GATE VALVE HORIZONTAL HORIZ. INSIDE DIAMETER INCHES INFLUENT INVERT JOINT LINEAR FOOT/FEET MAS MASONRY MAX. MAXIMUM MFR. MANUFACTURER MGD MILLION GALLONS PER DAY MANHOLE MIN. MINIMUM NORMALLY CLOSED NORMALLY OPEN NUMBER OUTSIDE DIAMETER PDW PROCESS DRAIN TO WASTE POLYETHYLENE PROPOSED GROUND PROP. PROPOSED POUNDS PER SQUARE INCH REDUCER REINFORCEMENT OR REINFORCE REINF. REQ'D. REQUIRED **RIGHT OF WAY** ROW SHT. SHEET STAINLESS STEEL STD. STANDARD STRUC. STRUCTURAL TOC TOP OF CURB THK. THICK TYP. TYPICAL VERT. VERTICAL WITH



- SHEET SECTION IS SHOWN ON

DETAIL MARKERS



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SHEET 3 OF 37



1.	EXISTING CONDITIONS ARE BASED ON A COMBINATION OF A
	2016 ALTA SURVEY PROVIDED BY ROCHESTER ENGINEERING
	IN 2022, DESIGN DRAWINGS FOR PROPOSED SITE
	DEVELOPMENT PROVIDED BY ROCHESTER ENGINEERING, AND
	AERIAL IMAGERY. DUE TO ONGOING SITE DEVELOPMENT,
	SOME EXISTING FEATURES HAVE CHANGED SINCE THE

- ORIGINAL SURVEY.
 2. EXISTING SITE FEATURES WITHIN THE PROJECT LIMITS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO
- COMMENCING WORK. 3. CONTRACTOR SHALL LOCATE THE TANK AND
- KEY STRUCTURES, AND SURVEY EXISTING BURIED
 INFRASTRUCTURE INCLUDING PIPE LOCATION AND ELEVATION.
 PRIOR TO ALL CONSTRUCTION ACTIVITIES, ALL BURIED
 INFRASTRUCTURE NEED TO BE FIELD LOCATED THROUGH A
- LEVEL A SURVEY OR EXCAVATED PIT. 5. THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS
- BASED ON THE PROPOSED DESIGN BY OTHERS.6. HORIZONTAL DATUM IS REFERENCED TO NAD83 GEORGIA
- STATE PLANES WEST ZONE.
- VERTICAL DATUM ARE REFERENCED TO NAVD88.
 ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.

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PROPERTY LINE

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N.	LEGAL ENTITY:
	ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 900, ATLANTA, GA 30339 TE: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
	SEALS
CONSTRUCTION STAGING AREA	* No. <u>PE045302</u> * PROFESSIONAL
	ISSUED FOR BID
	FAYETTE COUNTY, GEORGIA FAYETTE COUNTY WATER
	FAVETTE
	County
	FCWS-TRILITH TANK BOOSTER PUMP STATION
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	DATE: APRIL 2025 FILE NAME: C-02 DESIGNED BY: N. NIA
	DRAWN BY: N. NIA CHECKED BY: T. THOMAS SHEET TITLE
	CIVIL
	EXISTING CONDITIONS PLAN
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	SCALE: AS SHOWN
0 20' 40' Know what's below. Call before you dig.	C-02 Sheet 4 of 37



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Call before you dig				

ARCADIS

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
	CHECKDAM		J	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		TT	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABEL)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		On2 (ABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	C		A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	-	- Solo	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Sr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER		\rightarrow	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM		J.	A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL	¥ A	Re	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING	F	(LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		TYPE (NDIGATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Spb (LABEL)	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk)~~	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		Spb (LABEL)	A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES							
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION			
Sr	TEMPORARY STREAM CROSSING		(JUBEL)	A temporary bridge or culvert-type structur protecting a stream or watercourse from d by crossing construction equipment.			
St	STORMDRAIN OUTLET PROTECTION		ST 202020	A paved or short section of riprap channel of outlet of a storm drain system preventing en from the concentrated runoff.			
Su	SURFACE ROUGHENING		E L	A rough soil surface with horizontal depressi on a contour or slopes left in a roughened condition after grading.			
Тс	TURBIDITY CURTAIN		e e	A floating or staked barrier installed within th water (it may also be referred to as a floatin boom, silt barrier, or silt curtain).			
Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile storing it, then spreading it over the disturbe after completion of construction activities.			
Tr	TREE PROTECTION	\bigcirc	(DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.			
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		<u>++</u>)	Paved or vegetative water outlets for diversion terraces, berms, dikes or similar structures.			

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
		<u>.</u>		
Bf	BUFFER ZONE		Bf (ABEL)	Strip of undisturbed original vegetation, enhanced restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance of bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Jeres and a second second	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	Luning and	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on high erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Тас	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

CONSTRUCTION SEQUENCE:

- 1. FOR EACH STAGE OF CONSTRUCTION THE FOLLOWING SEQUENCE WILL APPLY:
- 1.1. CONFIRM LOCATIONS OF AND CONSTRUCT/INSTALL INITIAL EROSION AND SEDIMENT CONTROL BMPS WITHIN THE LIMITS OF THE STAGE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. INITIAL EROSION AND SEDIMENT CONTROL BMPS SHALL INCLUDE THE FOLLOWING: CONSTRUCTION FENCING, TREE PROTECTION FENCING, SILT FENCING, INLET SEDIMENT TRAPS, SAND BAG SEDIMENT BARRIER, AND CONSTRUCTION ENTRANCES. ALL EROSION AND SEDIMENT CONTROL BMPS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS.
- 1.2. CLEAR AND GRUB TO THE LIMITS REQUIRED FOR CONSTRUCTION AND REMOVE EXISTING TREES AS SHOWN ON THE PLANS.
- 1.3. EXCAVATE TRENCHES FOR INSTALLATION OF THE WATER INFRASTRUCTURE PIPING, AS NECESSARY, CONSTRUCT PIPE DIVERSIONS TO DIVERT AND BYPASS RUNOFF FROM EXISTING SYSTEM.
- 1.4. BEGIN INTERMEDIATE PHASE EXCAVATION AND GRADING ACTIVITIES AFTER ALL REQUIRED INITIAL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND CONSTRUCTED.
- 1.5. BEGIN CONSTRUCTION OF WATER TANK AND WATER INFRASTRUCTURE PIPING, UTILITY RELOCATIONS, CURB AND GUTTER, DRIVEWAYS, ROADWAYS, AND REMAINING STRUCTURES AS SHOWN ON PLANS. INSTALL INLET PROTECTION AS SHOWN ON PLANS.

1.6. ESTABLISH FINISHED GRADES AT EARLIEST POSSIBLE DATE.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION AND MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS IN ACCORDANCE WITH NPDES REQUIREMENTS. ONCE FINAL GRADES ARE ESTABLISHED, APPLY PERMANENT SOIL STABILIZATION IN ACCORDANCE WITH PLANS. ANY DISTURBED AREA REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

- 2. THE FOLLOWING SHALL APPLY AFTER ALL CONSTRUCTION STAGES ARE COMPLETE:
- 2.1. AFTER FINAL STABILIZATION FOR THE PROJECT AS DEFINED BY NPDES GAR100001 IS ACHIEVED, RETURN TO THE SITE AND REMOVE ALL TEMPORARY MEASURES INCLUDING SILT FENCES, SEDIMENT TRAPS, AND DIVERSIONS. INSTALL PERMANENT VEGETATION TO ALL AREAS (EXCEPT IMPERVIOUS SURFACES) DISTURBED BY THE TEMPORARY MEASURES.
- 2.2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING CONSTRUCTION FENCING, TREE PROTECTION FENCING, AND CONSTRUCTION ENTRANCES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION.

MANAGEMENT PLAN

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND AFTER EVERY RAINFALL ALL NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO PREVENT FURTHER DAMAGE AND EROSION. STRUCTURES THAT SHALL BE INSPECTED INCLUDE:

- SEDIMENT BARRIER SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. SEDIMENT BARRIERS SHALL BE REPLACED PER MANUFACTURER'S RECOMMENDATIONS OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF ITS PROPERLY INSTALLED HEIGHT
- STORM DRAIN INLET PROTECTION INSPECT STONE FILTER RING INLET STRUCTURE AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE FILTER RING HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE
- SLOPE STABILIZATION ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.
- INLET SEDIMENT TRAP TRAP SHOULD BE CLEANED OUT AFTER HEAVY RAIN EVENTS. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.
- SEEDING, FERTILIZING, AND MULCHING SEEDED AREAS SHALL BE INSPECTED FOR FAILURE AND NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
- CONSTRUCTION ENTRANCE/EXIT INSPECT CONSTRUCTION ROAD SURFACE DAILY, MAINTAIN WHEN NEEDED IN A CONDITION TO PREVENT SEDIMENT AND TOPSOIL FROM LEAVING THE SITE.

DESCRIPTION OF BMP'S:

- INITIAL PHASE DURING INITIAL PHASE OF CONSTRUCTION SILT FENCE, INLET PROTECTION, STONE CHECK DAMS AND FILTER RINGS WILL BE INCORPORATED TO PREVENT SEDIMENTS ESCAPING THE
- INTEMEDIATE PHASE: DURING INTERMEDIATE PHASE, USE OF SILT FENCE, INLET PROTECTION, TEMPORARY STABILIZATION PRACTICES, DUST CONTROL, CHECK DAMS, AND FILTER RING WILL BE INCORPORATED.
- FINAL PHASE DURING FINAL PHASE ALL NON IMPERVIOUS DISTURBED AREAS WILL BE STABILIZED USING PERMANENT STABILIZATION PRACTICES.

SITE NOTES:

- 1. PROJECT IS LOCATED IN FAYETTE COUNTY WITHIN THE CITY OF FAYETTEVILLE, GEORGIA.
- 2. PROJECT LATITUDE/LONGITUDE: (33.469492, -84.510849)
- APPROXIMATE TOTAL DISTURBED ACREAGE OF THE TRILITH STUDIOS ELEVATED WATER TANK SITE IS 0.63 ACRES.
- THE STORMWATER RUNOFF FOR THIS PROJECT FLOWS INTO TRILITH STUDIO'S POND #5 WHICH DISCHARGES TO SANDY CREEK. SEE STORMWATER MANAGEMENT REPORT ISSUED BY ROCHESTER & ASSOCIATES FOR DETAILS.
- IT IS ANTICIPATED THAT THE PROJECT WILL NOT HAVE ANY BUFFER ENCROACHMENTS AND
- BUFFER VARIANCE WILL NOT BE REQUIRED. WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREOI CERTIFIES THE FOLLOWING: THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, WETLANDS ARE INDICATED ON THE PROPERTY; HOWEVER, NO PORTION OF PROPOSED PROJECT AND DISTURBED AREA IS WITHIN THE WETLAND AREA. THE LAND DISTURBANCE OF PROTECTED WETLAND SHALL NOT OCCUR.
- NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD ZONE "AE" OR "A". THE SITE LIES WITHIN THE FIRM MAPS OF THE CITY OF FAYETTEVILLE FLOOD INSURANCE STUDY. FIRM MAP NUMBERS: 13113C0082E AND 13113COO84E, EFFECTIVE DATE: SEPTEMBER 26, 2008.
- MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM CITY OF FAYETTEVILLE AS NECESSARY
- PRIMARY PERMITTEE & 24-HOUR CONTACT: VANESSA TIGERT FAYETTE COUNTY WATER SYSTEM
- ADDRESS: 245 MCDONOUGH RD. FAYETTEVILLE, GA 30214 PHONE: 770-320-6016 EMAIL: VTIGERT@FAYETTECOUNTYGA.GOV

EROSION CONTROL

- EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS / SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN SEORGIA", LATEST EDITION.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
- PERMANENT VEGETATION SHALL BE PLACED AT ALL AREAS GRADED TO FINAL GRADE IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS1). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.
- IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH THE HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET
- SEDIMENT / EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES AS DIRECTED BY THE GOVERNING JURISDICTION AND/OR THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES AND ENSURE THAT THEY ARE PROPERLY FUNCTIONING PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR REAT THE SEDIMENT SOURCE.
- 10. ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 11. BUILDING MATERIALS AND BUILDING PRODUCTS NOT IN USE SHALL BE COVERED BY HEAVY PLASTIC.

POLLUTION CONTROLS

- VARIANCES AND PERMITS.

- SEALED CONTAINERS.
- 4. SOIL CLEANUP AND CONTROL PRACTICES

- 1-800-424-8802

- PROFESSIONAL.
- CONSTRUCTION.

PROJECT DESCRIPTION

THE TRILITH TANK BOOSTER PUMP STATION PROJECT INCLUDES THE CONSTRUCTION OF PRE-FABRICATED BOOSTER PUMP STATION AND ASSOCIATED WATER INFRASTRUCTURE. THE EXISTING TRILITH STUDIOS SITE IS A MOVIE PRODUCTION CAMPUS THAT HAS MULTIPLE STAGE BUILDINGS FOR PRODUCTION. THE PROJECT AREA FOR THE WATER TANK IS ON AN EXISTING GRASSED HILL ADJACENT TO THE CEMETERY NEAR AN ENTRANCE OF THE TRILITH CAMPUS.

CONSTR	RUCTION SCHEDU	ILE		
MONTH 4	MONTH 6	MONTH 8	MONTH 10	MONTH 12

BMP'S SUCH AS CONSTRUCTION EXITS, WATERING STATIONS, AND SWEEPERS MAY BE UTILIZED TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY

PETROLEUM BASED PRODUCTS- CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER NATURAL DRAINS AND STORM WATER DRAINAGE AREAS WILL BE LOCATED AWAT FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

3.1. SOLVENTS- ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

3.2. CONCRETE TRUCK WASHING- WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED. CONTRACTOR IS TO SELECT LOCATIONS ON THE SITE FOR CONCRETE WASH DOWN THAT MEET THE CONDITIONS OF THE NPDES STAND ALONE PERMIT. CONCRETE WASH DOWN AREA SHOULD BE OUTSIDE OF THE AREA THAT IS MARKED FOR EXCAVATION. CONTRACTOR SHALL SELECT AN EPA RECOMMENDED WASHOUT BMP TO BE USED AND SUBMIT LOCATIONS AND WASH OUT BMP TYPE FOR ENGINEER'S APPROVAL. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

3.3. FERTILIZER/HERBICIDES- THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN

3.4. CONSTRUCTION MATERIALS- NO CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF ACCORDING TO APPLICABLE STATE AND LOCAL REGULATIONS.

3.5. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

4.1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.

4.2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERTY LABELED PLASTIC AND METAL WASTE CONTAINERS.

4.3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. 4.4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL. STATE AND FEDERAL REGULATIONS.

4.5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BÈ CONTACTED WITHIN 24 HOURS AT

4.6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS A 1-800-424-8802

4.7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

4.8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

4.9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED

5. A PORTABLE SANITARY WASTE UNIT WILL BE ONSITE TO COLLECT SANITARY WASTE DURING

ESC-01 SHEET 9 OF 37

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TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

STONE CHECK DAM

SCALE: NONE

Со SCALE: NONE

DEFINITION

CONDITIONS

METHOD AND MATERIALS

A. TEMPORARY METHODS

RECOMMENDATIONS.

OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

SURFACE IS WET. REPEAT AS NEEDED.

Call before you dig

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COARSE AGGREGATE — ORIGINAL GRADE

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND

MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TH-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S

SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY

MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE.

CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE

IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE

BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR

MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES

VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.

EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

FCWS-TRILITH TANK

BOOSTER PUMP STATION

400 VETERANS PARKWAY

FAYETTEVILLE, GA 30214

REVISIONS

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PROJECT STATUS: ISSUED FOR BID

30239751

APRIL 2025

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EROSION & SEDIMENT CONTROL

EROSION & SEDIMENT

CONTROL DETAILS

(SHEET 1 OF 2)

ISSUED FOR

NO. DATE

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DATE:

FILE NAME:

DRAWN BY:

DESIGNED BY:

CHECKED BY:

SHEET TITLE

SEALS

ISSUED FOR BID

FAYETTE COUNTY, GEORGIA

FAYETTE COUNTY WATER

SYSTEM

FAYETTE

ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 900, ATLANTA, GA 30339 TE: 770-431-8666 WWW.ARCADIS.COM CONSULTANTS

LEGAL ENTITY:

ARCADIS

SEEDING SCHEDULE TEMPORARY COVER

<u>SPECIES</u>	broadcast <u>Rates — PLS</u> PER <u>ACRE</u>	BROADCAST <u>RATES - PLS</u> PER 1000 <u>SQ. FT.</u>	
BARLEY (HORDEUM VULGARE)			
ALONE	3 BU. (144 LBS.)	3.3 LB.	
IN MIXTURES	1/2 BU. (24 LBS.)	0.6 LB.	
LESPEDEZA, ANNUAL (LEZPEDEZA STRIATA)			
ALONE	40 LBS.	0.9 LB.	
IN MIXTURES	10 LBS.	0.2 LB.	
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			
ALONE	4 LBS.	0.1 LB.	
IN MIXTURES	2 LBS.	0.05 LB.	
MILLET, BROWNTOP (PANCIUM FASCICULATUM)			
ALONE	40 LBS.	0.9 LB.	
IN MIXTURES	10 LBS.	0.2 LB.	
MILLET, PEARL (PENNESETUM GLAUCUM)			2
ALONE	50 LBS.	1.1 LB.	
OATS (AVENA SATIVA)			
ALONE	4 BU. (128 LBS.)	2.9 LB.	
IN MIXTURES	1 BU. (32 LBS.)	0.7 LB.	
RYE (SECALE CEREALE)			
ALONE	3 BU. (168 LBS.)	3.9 LB.	
IN MIXTURES	½ BU. (28 LBS.)	0.6 LB.	
TRITICALE (X-TRITICOSECALE)			2
ALONE	3 BU. (144 LBS.)	3.3 LB.	
IN MIXTURES	⅓ BU. (24 LBS.)	0.6 LB.	
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM)			
ALONE	40 LBS.	0.9 LB.	
SUDANGRASS (SORGHUM SUDANESE)			
ALONE	60 LBS.	1.4 LB.	
WHEAT (TRITICUM AESTIVUM)			
ALONE	3 BU. (180 LBS.)	4.1 LB.	
IN MIXTURES	⅓ BU. (30 LBS.)	0.7 LB.	
I REAL REAL MADE IN LAR & S	A THE THE SECOND SECOND		-

LIME: APPLY AT A RATE OF ONE TON PER ACRE FERTILIZER: APPLY 500-700 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE

SEEDING SCHEDULE PERMANENT COVER

SPECIES	BROADCAST RATES - PLS PER <u>ACRE</u>	BROADCAST <u>RATES - PLS</u> PER 1000 <u>SQ. FT.</u>	RESOURCE AREA [^] 3	P (S D IN M					ATE S IN FEC ER ATE	S DIC LII MIS ES.)	AT NES	E C S BLE	DPT BL	IMI JT	UM
BERMUDA, SPRIGS (CYNODON DACTYLON) COASTAL COMMON	40 CU. FT. OR SOD PLUGS	0.9 CU. FT.	M-L P	J	F	M	A	M	J	J ••	A	S	0	N	D
OR TIFT 44	3'X3'		C	J	F	M	A	M	J	J	A	S	0	N	D
BERMUDA, COMMON (CYNODON DACTYLON)	10185	0.218						1	ни	LLE	DS	SEE	D		
ALONE	TO LBS.	0.2 LB.		_			U	INF S			þ			_	_
W/ OTHER PERRENIALS	6 LBS.	0.1 LB.	-	J	F	М	A	M	J	J	A	S	0	N	D
FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE	50 LBS.	1.1 LB.	M-L P					•						121	
W/OTHER PERRENIALS	30 LBS.	0.7 LB.	NP41	1	F	M	Δ	м		-	Δ	S	0	N	D
CROWNVTECH (CORONILLA VARIA) W/WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	M-L P		F	M	Δ	M	1		A	s	0	N	D
REED CANARY GRASS (PHARLARIS ARUNDINACEA) ALONE W/OTHER PERRENIALS	50 LBS. 30 LBS.	1.1 LB. 0.7 LB.	M-L P	J	F	M	A	M	J	J	••	S	0	••	D
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLACK SOD ONLY		P C		F	M	Δ	M			Δ	9	0	N	D
LOVEGRASS, WEEPING			M-L	Ŭ			-	IVI			~	Ū	-		
(ERAGROSTIS CURVULA)	4 I BS	0118	Р		1				-						
W/OTHER PERRENIALS	2189	0.0518	с		••••				••						
LESPEDEZA, SERICEA (LESPEDEZA CUNEATA)	2 LDO.	0.00 LB.		J	F	M	A	M	J	J	A	S	0	N	D
SCARIFIED	60 LBS.	1.4 LB.	M-L					_							
UNSCARIFIED	75 LBS.	1.7 LB.	Р	_		•••	••••		••••	•••				_	_
SEED-BEARING HAY	3 TONS	138 LB.	С	-	••••										

NOTE: 1. YOU MAY USE ANY OTHER SPECIES IF APPROVED BY MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

2. ALL FERTILIZER RATE AND APPLICATION, SEED QUALITY, SEEDBED PREPERATION, INNOCULANTS, PLANTING, AND MULCHING SHALL COMPLY WITH MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

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Ds3

FERTILIZE	<u>ER REQUI</u>	REMENTS	<u>PERMANEN</u>	T COVER
				-

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 1/2/
GRASSES	SECOND	6-12-12	1000 lbs./AC.	_
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
2 COOL SEASON	FIRST	6-12-12	1500 lbs./AC.	0-50 lbs./AC. 1/
GRASSES	SECOND	10-10-10	1000 lbs./AC.	
& LEGUMES	MAINTENANCE	10-10-10	400 lbs./AC.	
3. GROUND	FIRST	10-10-10	1300 lbs./AC. 3/	
COVERS	SECOND	10-10-10	1300 lbs./AC. 3/	
	MAINTENANCE	10-10-10	1100 lbs./AC.	
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	_
5. SHRU	FIRST	0-10-10	700 lbs./AC.	
LESPEDEZA	MAINTENANCE	0-10-10	700 lbs./AC. 4/	
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 lbs./AC.	30 lbs./AC. 5/
	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 2/6/
7. WARM SEASON GRASSES	SECOND	6-12-12	800 lbs./AC.	50-100 lbs./AC. 2/
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
8. WARM SEASON	FIRST	6-12-12	1500 lbs./AC.	50 lbs./AC. 6/
GRASSES	SECOND	0-10-10	1000 lbs./AC.	
G LEGUMES	MAINTENANCE	0-10-10	400 lbs./AC.	
LIME: APPLY AT A RA	ATE OF ONE TON PI	ERACRE		

1/ APPLY IN SPRING FOLLOWING SEEDING. 2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.

3/ APPLY IN 3 SPLIT APPLICATIONS.

4/ APPLY WHEN PLANTS ARE PRUNED. 5/ APPLY TO GRASS SPECIES ONLY.

6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

flat area (<5% slope).

Ds1

- Use Type S steel posts.
- maximum of 3 ft apart.
- compacted soil.
- posts.

Sd2-F

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA. 1. APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING: WHE the stille - CUT OR FILL SLOPES - EARTH SPILLWAYS - BORROW AREAS SHILL. - CHANNEL BANKS ملك ملك - BERMS - ROADSIDES ALLE - SPOIL AREAS SHE SHE - GULLIED LANDS 2. GRADING AND SHAPING REQ'D. WHILE. SALLAS. 3440 WHERE FEASIBLE AND PRACTICAL. 3. SEEDBED PREPARATION (NOT REQ'D. IF USING HYDRAULIC SEEDING AND FERTILIZING) shilles SLOPE SEEDBED 3:1 OR FLATTER > 4" DEEP 2:1 TO 3:1 1" TO 4" DEEP 2:1 OR STEEPER DEPRESSIONS EVERY 6"-8" WITH HAND TOOL 4. HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE. 5. MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROADBANKS. 6. ANCHOR MULCH IMMEDIATELY. DISTURED AREA STABILIZATION

(WITH PERMANENT VEGETATION)

ESTABLISHING A TEMPORARY PROTECTION FOR DISTURBED AREAS USING SPECIFIC MULCH MATERIALS. 1. MULCH MATERIALS SHALL CONSIST OF DRY

STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 6 TO 9 TONS PER ACRE, EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE FILM.

2. THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION CONTROL FOR 6 MONTHS OR LESS, AND CAN BE STABILIZED WITH A MULCH COVER.

DISTURED AREA STABILIZATION (WITH MULCHING)

Filter Fabric with Supporting Frame (Sd2-F) Applicable where the inlet drains a relatively

• Space stakes evenly around perimeter at a

• Drive stakes into the ground ~18" deep.

• The fabric shall be 36" tall and entrenched at least 12" and backfill with crushed stone or

• Securely fasten the fabric and wire to the

NOTES: 1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS). 2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND

- THE PERIMETER OF THE INLET (MAXIMUM OF 3'
- APART). 3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP. 4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

— STAKE - BURIED FABRIC - DROP INLET WITH GRATE CRUSHED STONE OR COMPACTED SOIL WIRE-BACKING ----- GATHER EXCESS AT CORNERS - FABRIC WITH WIRE-BACKING SUPPORT

Figure 1. Filter Fabric with Supporting Frame Installation Requirements (Sd2-F)

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AIR RELEASE VALVE (AR)
AIR/VACUUM VALVE (AV) COMBINATION AIR VALVE (CA)
BALL VALVE (BV)
BALL CHECK VALVE (BC)
BUTTERFLY VALVE (BFV)
BUTTERFLY DAMPER (BD)
CHECK VALVE (CH)
TELESCOPING VALVE (TV)
DIAPHRAGM VALVE (DV)
SUCTION FOOT VALVE (FV)
THREE-WAY PLUG VALVE (TW)
FOUR-WAY VALVE (FW)
GLOBE VALVE (GL)
GATE VALVE (GV) CURB STOP (CS)
KNIFE GATE VALVE (KV)
MUD VALVE (MD)
NEEDLE VALVE (NV)
PINCH VALVE (PI)
AUTOMATIC PRESSURE REDUCING VALVES (PR)
AUTOMATIC PRESSURE SUSTAINING VALVES (PS)
ECCENTRIC PLUG VALVE (PV)
RELIEF VALVE (RV)
SLUICE GATE (SL)
SLIDE GATE (SG) SLIDE PLATE (SP)
SOLENOID VALVE (SV) FO=FAIL OPEN FC=FAIL CLOSED

ABBREVIATIONS

PIPE SERVICE	
ALP	AIR (LOW PRESSURE PROCESS)
DR	DRAIN
DG	DIVERTER GATE
HO	HYDRAULIC OIL
HPW3	HIGH PRESSURE PLANT WATER
LS	LEVEL SENSOR
OF	OVERFLOW
POT	POTABLE WATER
SAM	SAMPLE
SAN	SANITARY

5

VALVE TYPES

AECV ARV AVV BFV BLV ECV GV GBV KGV PRV PSV SG SV PIPE MATERIALS	AUTOMATIC ELECTRONIC CONTROL VALVES AIR RELEASE VALVE AIR VACUUM VALVE BUTTERFLY VALVE BALL VALVE ELECTRIC CHECK VALVE GATE VALVE GLOVE VALVE KNIFE GATE VALVE PRESSURE REDUCING VALVE PRESSURE SUSTAINING VALVE SLUICE GATE SOLENOID VALVE
BS CU CPVC CS DIP PVC RPVC SSTL ST	BLACK STEEL COPPER CHLORINATED POLYVINYL CHLORIDE CARBON STEEL DUCTILE IRON POLYVINYL CHLORIDE REINFORCED PVC FLEXIBLE HOSE STAINLESS STEEL STEEL

LEGAL ENTITY: ARCADIS U.S., II 2839 PACES FEI SUITE 900 ATLA TEL: 770-431-860 WWW.ARCADIS CONSULTANTS	RCAD NC. RRY ROAD NTA, GA 30339 56 .COM	S
05410		
SEALS	ORG REGISTERES No. PEO45302 ROFESSIONAL ROFESSIONAL KUS THOMAS 4/18/2	025
FAYETT FAYETT	E COUNTY, GEORGIA E COUNTY WATER SYSTEM	
FA	YETTE Jater	
FCWS BOO 400 VET FAYETT UN	TRILITH TANK STER PUMP STATION ERANS PARKWAY, EVILLE, GA 30214, INTED STATES	<
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CHECKED BY:	I. IHOMAS	
MECHAN SYN ABB	IECHANICAL	DS,
SCALE:		
	NIS M_01	
SHEET	14 OF 37	

EXAMPLE: NEW PIPE LABEL

36"		RW	-		-	<u>HT/I</u>
DIAMETER (INCHES)	l SE	PIPE RVICE		PIPE MATERIAL	HI	EAT TRACED/ INSULATED

6

EXAMPLE: VALVE LABEL

_____6"____BFV____ DIAMETER VALVE (INCHES) TYPE

β A	RCAD	S
LEGAL ENTITY: ARCADIS U.S., IN 2839 PACES FEF SUITE 900 ATLAI TEL: 770-431-866 WWW.ARCADIS	NC. RRY ROAD NTA, GA 30339 36 .COM	
CONSULTANTS		
SEALS	ORG REGISTERED No. PEO45302 ROFESSIONAL *	
FAYETT	E COUNTY, GEORGIA	2025
FAYEIII	E COUNTY WATER SYSTEM	
FA	YETTE Jater	
FCWS- BOO S 400 VET FAYETT UN	TRILITH TAN STER PUMP STATION ERANS PARKWAY EVILLE, GA 30214, ITED STATES	<
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0 4/18/2025 NO. DATE	ISSUED FOR BID ISSUED FOR	TT BY
COPYRIGHT: AR 2025	CADIS U.S., INC.	
PROJECT STATUS PROJECT NO.: DATE: FILE NAME: DESIGNED BY: DRAWN BY: CHECKED BY:	S: BID 30135792 APRIL 2025 M-02 E. VAN DEVENTER B. TARIT T. THOMAS	
SHEET TITLE M BOO S PLAN A (FR DISTRIB	ECHANICAL STER PUMP STATION ND SECTION OM PS TO UTION SYSTE	S M)
SCALE		

3/8" = 1'-0"

M-02

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NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT COORDINATION AND INSTALLATION CONSIDERATIONS, AND FURNISH AND INSTALL ALL EQUIPMENT, APPURTENANCES, AND SERVICES NOT PROVIDED BY THE PS MANUFACTURER TO ALLOW FOR A COMPLETE AND OPERABLE BOOSTER PUMP STATION SYSTEM.
- 2. CONTRACTOR TO INSTALL AND ENCASE IN CONCRETE PIPING FROM PS TO DISTRIBUTION SYSTEM PRIOR TO SETTING THE PS ON THE FOUNDATION SLAB.
- 3. CONTRACTOR TO SET PS ON FOUNDATION SLAB THEN CONNECT AND INSTALL DISTRIBUTION SYSTEM AND TANK CONNECTING PIPING UNDER THE PS.
- 4. CONTRACTOR TO ROUTE DRAIN TO TRENCH DRAIN OUTSIDE THE PS.
- 5. CONTRACTOR TO COMBINE AND ROUTE ALL AIR VALVE DRAINS TO DRAIN IN PS CORNER.
- 6. CONTRACTOR TO GROUT FILL AROUND PIPING ONCE CONNECTED TO PS.

		1	
	<u>GE</u>	NERAL	
	G-1	THESE NOTES ARE GENERAL AND SUPPLEMENTAL TO AND APPLY TO THE ENTIRE PROJECT UNLESS MODIF OTHERWISE IN THE CONTRACT DOCUMENTS.	D THE SPECIFICATIONS IED OR NOTED
E	G-2	STANDARD DETAILS SHOWN ON STRUCTURAL TYPIC/ USED WHEN REFERRED TO, UNLESS DIFFERENT DET ON THE DRAWINGS.	AL DRAWINGS SHALL BE AILS ARE SHOWN
	G-3	DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION THE PROVISIONS OF THE 2018 INTERNATIONAL BUILD GEORGIA STATE AMENDMENTS (2022-2025), EXCEPT APPLICABLE CODES AND THE CONTRACT DOCUMENT RESTRICTIVE.	ON SHALL COMPLY WITH DING CODE WITH WHERE OTHER TS ARE MORE
		DESIGN LOADS: LIVE LOADS:	
		-FLOOR LIVE LOAD	300 PSF
		-GROUND SNOW LOAD, Pg -SNOW IMPORTANCE FACTOR	5 PSF 1.1
		WIND LOAD: -ULTIMATE DESIGN WIND SPEED -WIND EXPOSURE -RISK CATEGORY	114 MPH C III
D		SEISMIC LOAD:	
		-RISK CATEGORY -SPECTRAL RESPONSE ACCELERATIONS, Ss -SPECTRAL RESPONSE ACCELERATIONS, S1 -SITE CLASS -SPECTRAL RESPONSE COEFFICIENT, SDS -RESPONSE COEFFICIENT, SD1 -SEISMIC DESIGN CATEGORY -ANALYSIS PROCEDURE -SEISMIC IMPORTANCE FACTOR, Ie	III 0.163 0.082 D 0.173 0.130 B ASCE 7-16,11.7 1.25
	G-4	WHERE THE ASTERISK SYMBOL (*) IS SHOWN IN THE AND ELEVATIONS ARE TO BE VERIFIED EITHER BY FIE EXISTING STRUCTURES OR BY SHOP DRAWINGS FOR STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTRO TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRAC MANUFACTURER PRIOR TO CONSTRUCTION.	DRAWINGS, DIMENSIONS ELD MEASUREMENTS FOR EQUIPMENT FURNISHED OLLED BY OR RELATED CTOR WITH THE
	G-5	EQUIPMENT ANCHOR BOLT SIZES, TYPES, LOCATION BE AS REQUIRED BY THE APPROVED EQUIPMENT MA PATTERNS SHALL BE TEMPLATED TO ENSURE ACCUP	S AND PATTERNS SHALL NUFACTURER. ALL BOLT RACY OF PLACEMENT.
	G-6	STRUCTURAL DRAWINGS SHALL BE USED IN COORDI OF ALL OTHER DISCIPLINES AND MANUFACTURER'S S	NATION WITH DRAWINGS SHOP DRAWINGS.
	G-7	IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORT CONTRACT DOCUMENTS, THE CONTRACTOR SHALL N IMMEDIATELY. CONTINUED CONSTRUCTION OF THE A SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL T RESOLVED BY THE OWNER.	IONS OF THE NOTIFY THE OWNER NREA IN CONFLICT HE CONFLICT IS
	G-8	STRUCTURES HAVE BEEN DESIGNED FOR OPERATIO COMPLETED STRUCTURE. DURING CONSTRUCTION, SHALL BE PROTECTED BY BRACING AND TEMPORARY WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS	NAL LOADS ON THE THE STRUCTURES Y SUPPORTS OCCUR. PROHIBITED.
с	G-9	NO BACKFILL SHALL BE PLACED AGAINST ANY WALL ELEMENTS OF THE STRUCTURE HAVE BEEN CONSTR REACHED THE SPECIFIED MINIMUM CONCRETE STRE	UNLESS ALL SUPPORTING UCTED AND HAVE NGTH.
	G-10	ALL THE DIMENSIONS AND LEVELS ARE IN FEET UON. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.	
	G-11	CONTRACTOR'S CONSTRUCTION AND/OR ERECTION RECOGNIZE AND CONSIDER THE EFFECTS OF THERM STRUCTURAL ELEMENTS DURING THE CONSTRUCTION	SEQUENCES SHALL IAL MOVEMENTS OF IN PERIOD.
	G-12	WHERE CONNECTIONS TO OR MODIFICATIONS OF EX ARE SHOWN, EXISTING FOUNDATIONS, WALLS, COLU FLOORS, DECKS (CONCRETE, STEEL, TIMBER, ETC.) A IN GOOD CONDITION. THIS MUST BE VERIFIED IN THE CONTRACTOR. UNSOUND CONDITIONS SHALL BE REF ENGINEER. ALL UNSOUND STRUCTURAL ELEMENTS S SOUND CONDITION AS APPROVED BY THE ENGINEER CONSTRUCTION DIMENSIONS SHALL BE VERIFIED BY BEFORE WORK COMMENCES. VARIATIONS FROM DIM SHOWN ON THESE DRAWINGS SHALL BE REPORTED	ISTING STRUCTURES MNS, SLABS, BEAMS, RE ASSUMED TO BE FIELD BY THE PORTED TO THE SHALL BE REPAIRED TO EXISTING THE CONTRACTOR ENSIONS TO THE ENGINEER.
в	G-13	OPENINGS AND PENETRATIONS: THE CONTRACTOR SHALL SUBMIT COMPOSITE DRAW FLOOR OPENINGS AND PENETRATIONS THROUGH ST MEMBERS REQUIRED TO ACCOMMODATE THE HVAC, ELECTRICAL WORK. THE CONTRACTOR SHALL FOLLO FRAMING DETAILS AT OPENINGS AND REINFORCEME PENETRATIONS THROUGH STRUCTURAL MEMBERS. A	VINGS INDICATING ALL RUCTURAL PLUMBING AND W THE TYPICAL NT DETAILS AT ACCORDINGLY, THE
		CONTRACTOR SHALL SUBMIT SHOP DETAILS TO THE	ENGINEER FOR REVIEW.
A			

FOUNDATION NOTES

F-1 FOR FOUNDATION DESIGN CRITERIA REFER TO DESIGN PHASE GEOTECHNICAL ENGINEERING REPORT PREPARED BY OASIS CONSULTING SERVICES, PROJECT NO. 224927, DATED OCTOBER 4, 2022, AND REPORT ADDENDUM, DATED NOVEMBER 22, 2022.

CONCRETE

- C-1 CONCRETE 28-DAY COMPRESSIVE STRENGTH: CLASS A - 4500 PSI CLASS B - 3000 PSI
- C-2 PORTLAND CEMENT: ASTM C150, TYPE I/II OR ASTM C595 TYPE IL.
- C-3 REINFORCEMENT: ASTM A615, GRADE 60.
- WEIGHT.
- C-5 CONCRETE COVER FOR REINFORCING: A) SURFACES CAST AGAINST EARTH B) SURFACE WITH EMBEDDED PVC WATERSTOP C) ALL OTHER SURFACES
- C-6 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS, WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION JOINT, TYPES AND LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.
- C-7 WHERE HORIZONTAL CONSTRUCTION JOINTS. LOCATED ABOVE THE FOUNDATION SLAB. EXTEND BEYOND WHERE NEEDED. TERMINATE AT A VERTICAL CONSTRUCTION JOINT AS APPROVED BY THE ENGINEER.
- C-8 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
- C-9 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH MATCHING DOWELS SET IN EPOXY IN DRILLED HOLES AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3 INCHES FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- C-10 WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING.
- C-11 DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- C-12 CONDUITS AND PIPES EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2 INCHES CLEAR. OUTSIDE DIMENSION OF EMBEDDED ITEMS SHALL NOT EXCEED 1/3 OF THE CONCRETE MEMBER THICKNESS. CLEAR SPACING REQUIREMENTS SHALL APPLY FOR EMBEDDED CONDUITS OR PIPES CROSSING AT AN ANGLE LESS THAN 60 DEGREES.
- C-13 THE EFFECTIVE DIMENSION USED TO MEET MEMBER THICKNESS LIMITATIONS SHALL BE THE SUM OF THE OUTER DIMENSIONS OF CROSSING ELEMENTS.
- C-14 EMBEDDED CONDUITS AND PIPES SHALL BE LOCATED BETWEEN THE LAYERS OF REINFORCEMENT AND A MINIMUM OF 2 1/2 INCHES CLEAR FROM APPROXIMATELY PARALLEL REINFORCING BARS. REQUIREMENTS FOR EMBEDDED ELEMENTS CROSSING REINFORCING BARS SHALL BE AS REQUIRED FOR CROSSING EMBEDDED ELEMENTS.
- C-15 CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN OR PASS THROUGH COLUMNS AND BEAMS.
- C-16 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
- C-17 CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS OR AS REQUIRED TO MATCH EXISTING.
- C-18 LAP SPLICES SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN ON SHEET S-01.
- C-19 PROVIDE ADDITIONAL REINFORCEMENT AT OPENINGS AND WALL INTERSECTIONS AS SHOWN ON TYPICAL DETAILS (UON).
- C-20 PROVIDE WATERSTOPS IN ALL FOUNDATIONS, TANKS AND OTHER SUBSTRUCTURES.

STRUCTURAL METALS

- S-1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.
- S-2 STEEL MATERIAL: A) STRUCTURAL TUBING: ASTM A500, GRADE C B) STRUCTURAL PIPE: ASTM A53, GRADE B C) W SHAPES: ASTM A992 D) ALL OTHER SHAPES: ASTM A572, GRADE 50 E) PLATES AND ANGLES: ASTM A36, UON
- S-3 DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ENCASED IN CONCRETE.
- S-5 FILLET WELD SIZES SHALL BE THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED BUT NOT LESS THAN 3/16" AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH.
- S-6 ALL BOLTS, ANCHOR BOLTS, AND CONCRETE ANCHORS CONNECTING GALVANIZED STEEL SHALL BE SS 316.
- S-7 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, THERE SHALL BE A MINIMUM OF TWO FASTENINGS PER PIECE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 1/4 SPACE FROM EACH END.
- S-8 A) ALUMINUM SHAPES 1. ASTM B308/B308M, ALLOY 6061-T6, ASTM B221, ALLOY 6061-T6 2. ALUMINUM TUBES AND PIPES: ASTM B429, ALLOY 6061-T6 3. ALUMINUM BARS AND RODS: ASTM B211, ALLOY 6061-T6 4. ALUMINUM PLATES: ASTM B209, ALLOY 6061-T6
 - B) ELECTRODES FOR WELDING: ER 5356 COMPLYING WITH AWS
- D1.2/D1.2M S-9 STAINLESS STEEL:
- 1. ANSI, TYPE 316/316L
- 2. SECTION, SHAPES AND BARS ASTM A 276 3. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS: A. MATCH ALLOY OF THE STRUCTURAL MEMBER CONNECTED
- B., TYPE 316/316L : ASTM F 593, GRADE B8M, CLASS 1, HEAVY HEX
- C., TYPE 304/304L : ASTM F593, GRADE B8, CLASS 1, HEAVY HEX
- 4. WELDED CONNECTIONS:, TYPE 316L : E316L- 15 ELECTRODE

LAP SPLICE AND EMBEDMENT LENGTH TABLE

C-4 FLY ASH: ASTM C618, CLASS F OR SLAG ASTM C989 GRADE 120, MAX CONTENT 25% BY

S-4 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION.

REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS (INCHES)													
		MIN LAP LEN	GTHS FOR			MIN EMBEDMENT LENGTHS					MIN STD HOOKS		
BAR	BEAMS AND	O COLUMNS*	SLABS AN	AND WALLS ** FOR BEAMS FOR SLABS		WITH	90°	1	35°				
SIZE	CLASS	SB	CLAS	SB	AND CO	LUMNS *	AND WALLS **		STANDARD			н	
	TOP***	OTHERS	TOP***	OTHERS	TOP***	OTHERS	TOP***	OTHERS	HOOK	AONO	AONO		
#3	25	19	16	16	19	15	12	12	5	6	4	2.5	
#4	33	25	20	16	25	19	15	12	7	8	4.5	3	
#5	41	31	25	19	31	24	19	15	9	10	5.5	3.75	
#6	49	37	29	23	37	29	23	18	10	12	8	4.5	
#7	71	54	43	33	54	42	33	25	12	14	9	5.25	
#8	81	62	49	37	62	48	37	29	14	16	10.5	6	
#9	91	70	60	46	70	54	46	36	15	19	-	-	
#10	102	79	74	57	79	61	57	44	17	22	-	-	
#11	114	87	89	69	87	67	68	53	19	24	-	-	

REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS TABLE IS BASED ON A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM OR GREATER AND 60000 PSI REINFORCEMENT (WITH NO EPOXY COATING).

ALL LAP SPLICES SHALL BE CLASS B SPLICES.

* THE MINIMUM LAP LENGTHS FOR BEAMS, COLUMNS AND STRAIGHT EMBEDMENTS ARE BASED ON A 3 BAR DIAMETER MINIMUM CENTER TO CENTER BAR SPACING AND A 2" BAR COVER. IF THE SPLICE AND/OR EMBEDMENT DOES NOT CONFORM

- TO THESE REQUIREMENTS, THEN CONTRACTOR SHALL APPLY APPROPRIATE FACTORS IN COMPLIANCE WITH ACI 318 WITH APPROVAL BY ENGINEER.
- ** THE MINIMUM LAP LENGTHS FOR SLABS, WALLS AND STRAIGHT EMBEDMENTS ARE BASED ON A 6" BAR SPACING AND A 2" BAR COVER. IF THE LAP CONDITION DOES NOT CONFORM TO THESE REQUIREMENTS, THEN USE BEAM LAP LENGTHS OR COMPLY WITH LAP REQUIREMENTS OF ACI 318 WITH APPROVAL BY ENGINEER.
- *** TOP BARS ARE DEFINED AS ALL HORIZONTAL BARS WITH 12" OR MORE FRESH CONCRETE BENEATH.
- WHERE SPLICES ARE REQUIRED BETWEEN BARS OF DIFFERENT SIZES, THE LAP LENGTH SHALL BE NO LESS THAN THE EMBEDMENT LENGTH OF THE LARGER BAR OR THE LAP LENGTH OF THE SMALLER BAR, WHICHEVER IS GREATER.

ADHESIVE ANCHORS FOR ANCHORAGE INTO CONCRETE:

MANUFACTURERS:

1.HILTI HIT-RE 500 V3 EPOXY ADHESIVE ANCHORS

2.OR AS APPROVED.

- INJECTABLE TWO-COMPONENT ADHESIVE. Α.
- HILTI ANCHOR ROD HAS-R 316 STAINLESS STEEL THREADED ROD COMPLYING WITH В
- ADHESIVE ANCHORAGE SYSTEM SHALL BE SEISMIC QUALIFIED WITH CURRENT
- INSTALLERS TO BE TRAINED BY ANCHOR MANUFACTURER. 10% OF ALL ADHESIVE ANCHORS TO BE LOAD TESTED, AS INSTALLED IN FIELD, TO

ASTM F593 CONDITION CW.

C. ICC-ES ESR REPORT (ICC-ES-ESR 3814). D. E.

ENSURE ALLOWABLE MANUFACTURER LOADS ARE ACHIEVED.

ABBREVIATIONS

AB	ANCHOR BOLTS	I
ADD'L AL	ADDITIONAL ALUMINUM	
ALT	ALTERNATE	.1
ANCH APPROX	APPROXIMATE	k
А	ARCHITECTURAL	r I
BAL	BALANCE	L
BET BI		L
BLDG	BUILDING	L
BLK BM	BLOCK BEAM	L
BOT	BOTTOM	L
BRG	BEARING	Ν
C CANT'L	CHANNEL (STRUCTURAL SHAPE) CANTILEVER	N N
CF	COMBINED FOOTING	Ν
CL	CLEAR	N N
CMU	CONCRETE MASONRY UNIT	Ν
COMP	COMPRESSIBLE	N
CONC CONN	CONCRETE	ר ר
CONST	CONSTRUCTION	#
CONT C/C	CONTINUOUS CENTER TO CENTER	Г
CTR	CENTER	$\left(\begin{array}{c} \\ \\ \end{array} \right)$
DET		C
DIA	DIAMETER	C
DIAG DIM		C
DL	DEAD LOAD	F
DN DO	DOWN DITTO	F
DP	DEEP	F
DWG DWL	DRAWING	F
F	FAST	F
EA	EACH	F
EF EJ	EACH FACE EXPANSION JOINT	F
EL	ELEVATION	F
ELEC	EMBEDMENT	F
ENCL	ENCLOSURE	S
EQUIP	EQUIPMENT	S
ES EW	EACH SIDE EACH WAY	S
EW T&B	EACH WAY TOP & BOTTOM	5
EXIST	EXISTING	S
EXP	EXPANSION	S
LXI	EXTENSION	5
FB		S
FD FDN	FOUNDATION	S
FF FIN	FAR FACE FINISH	т
FL	FLOOR	Т
FIG	FOOTING	ו ד
GA GALV	GAUGE GALVANIZE	T T
GB	GRADE BEAM	T
GRTG	GRATING	ı
н	HIGH	١
HT	HEIGHT	V
horiz Hp	HURIZONTAL HIGH POINT	V V
HVAC	HEATING, VENTILATING &	V
	AIR CONDITIONING	V

ID	INSIDE DIAMETER
IF	INSIDE FACE
INV	INVERT
JT	JOINT
KO LG LL LLH LLV LOC LP LW	KNOCK OUT ANGLE (STRUCTURAL SHAPE) LONG LIVE LOAD LONG LEG HORIZ LONG LEG VERT LOCATION LOW POINT LONG WAY
MTCH	MATCH/MATCHING
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE, MANUFACTURER
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
N	NORTH
NF	NEAR FACE
#	NUMBER
NTS	NOT TO SCALE
oc	ON CENTER
od	OUTSIDE DIAMETER
of	OUTSIDE FACE
oh	OVER HEAD
opng	OPENING
opp	OPPOSITE
PB	PLINTH BEAM
PC	PRECAST CONCRETE
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
r	RISER
Rad	RADIUS
Rd	ROOF DRAIN
Reinf	REINFORCEMENT
Reqd	REQUIRED
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	SLAB
SPA	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STIR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHORT WAY
TBD	TO BE DECIDED
T&B	TOP AND BOTTOM
TOC	TOP OF CONCRETE
THK	THICK
T/	TOP OF
T	TREAD
TYP	TYPICAL
UON VERT	UNLESS OTHERWISE NOTED
W	WIDTH, WEST
WF	WIDE FLANGE STRUCTURAL SHAPE
W/	WITH
WP	WORKING POINT
WS	WATERSTOP

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STRUCTURAL QUALITY ASSURANCE PLAN

<u>GENERAL:</u>

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF MECHANICAL, ELECTRICAL, CIVIL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR'S RESPONSIBILITIES:

CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" AND SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SECTION 1704.4 OF THE IBC 2018 EDITION. CONTRACTOR SHALL GIVE 48 HOURS ADVANCED NOTICE FOR ALL REQUIRED INSPECTIONS.

SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A LICENSED ENGINEER IN THE STATE OF GEORGIA OR PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA AND HAVE A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2018 IBC. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE WORK.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT TO THE PROJECT ENGINEER.

SOILS:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT TEST REPORTS FOR ENGINEERED FILL. CONTRACTOR TO COORDINATE BUILDING DEPARTMENT INSPECTIONS AND SPECIAL INSPECTIONS.

INSPECTOR SHALL PERFORM THE FOLLOWING:

	TABLE 1705.6		
	REQUIRED SPECIAL INSPECTION AND TESTS OF S	OILS	
	ТҮРЕ	С	Р
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		х
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		х
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х
4.	VERIFY USE OF PROPER MATERIALS, 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.		х

C = CONTINUOUS SPECIAL INSPECTION

P = PERIODIC SPECIAL INSPECTION

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
 - TYPE AND QUANTITIES OF MATERIALS Α. SLUMP В. AIR CONTENT C. FRESH UNIT WEIGHT D.
 - AGGREGATES SIEVE ANALYSIS Ε.
 - DESIGN COMPRESSIVE STRENGTH G.
 - METHOD OF PLACEMENT Η.
 - METHOD OF CURING
- 3

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

REQUIRED	TABLE 1705.3 SPECIAL INSPECTIONS AND TESTS OF CON		CONST	RUCTION	
	TYPE	С	Р	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT TENDONS, AND VERIFY PL	, INCLUDING PRESTRESSING - ACEMENT.		Х	ACI 318 Ch: 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
 REINFORCING BAR WELDIN a. VERIFY WELDABILITY THAN ASTM A706 ; b. INSPECT SINGLE PASS MAXIMUM 5/16" ; AND c. INSPECT ALL OTHER V 	NG: DF REINFORCING BARS OTHER 3 FILET WELDS, /ELDS.	- X	x x	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST	IN CONCRETE.	-	Х	ACI 318: 17.8.2	-
 4. INSPECT ANCHORS POST CONCRETE MEMBERS. ^b a. ADHESIVE ANCHORS OR UPWARDLY INCLIN SUSTAINED TENSION b. MECHANICAL ANCHOI NOT DEFINED IN 4.a. 	INSTALLED IN HARDENED INSTALLED IN HORIZONTALLY IED ORIENTATIONS TO RESIST LOADS. RS AND ADHESIVE ANCHORS.	x	x	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED	DESIGN MIX.	-	X	ACI 318 Ch: 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6a. PRIOR TO CONCRETE PLA FOR STRENGTH TESTS, PE CONTENT TESTS, DENSITY THE CONCRETE. WITH ALL REPORTS.	CEMENT, FABRICATE SPECIMENS RFORM SLUMP OR SLUMP FLOW, AIR AND DETERMINE THE TEMPERATURE OF RESULTS INCLUDED IN THE TEST	x	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
6b. VERIFY THAT CONCRETE S MAINTAINED IN THE REQU CURING ENVIRONMENT, AI TEMPERATURES DURING T REPORTED.	SPECIMENS FOR STRENGTH TESTS ARE RED INITIAL CURING AND LABORATORY ND THAT THE MAXIMUM AND MINIMUM THE INITIAL CURING PERIOD ARE	x	-	ACI 318: 26.12 ASTM C31	-
7. INSPECT CONCRETE AND S PROPER APPLICATION TEC	SHOTCRETE PLACEMENT FOR HNIQUES.	x	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF TEMPERATURE AND TECH	SPECIFIED CURING NIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED C	ONCRETE FOR:				
a. APPLICATION OF PRI b. GROUTING OF BOND	ESTRESSING FORCE; AND ED PRESTRESSING TENDONS.	X X	-	ACI 318: 26.10 ACI 318: 26.10	-
10. INSPECT ERECTION OF PR	ECAST CONCRETE MEMBERS.	-	Х	ACI 318: Ch. 26.9	-
11. VERIFY IN -SITU CONCRET STRESSING OF TENDONS I AND PRIOR TO REMOVAL BEAMS AND STRUCTURAL	E STRENGTH, PRIOR TO N POST-TENSIONED CONCRETE DF SHORES AND FORMS FROM SLABS.	-	x	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR DIMENSIONS OF THE CONC	SHAPE, LOCATION AND CRETE MEMBER BEING FORMED.	-	x	ACI 318: 26.11.1.2 (b)	-
= CONTINUOUS SPECIAL INSF = SPECIFIC REQUIREMENTS F REPORT FOR THE ANCHOR	P = PERIODIC SPECIA OR SPECIAL INSPECTION SHALL BE INCLU ISSUED BY AN APPROVED SOURCE IN ACC	AL INSPE		SEARCH H 17.8.2 IN	<u> </u>

ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

1. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318. SUBMIT THREE

LOCATION OF PLACEMENT IN STRUCTURE

SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS

2. SUBMIT CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.

SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

STRUCTURAL STEEL:

4

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. FIELD WELDING TO BE DONE BY CERTIFIED WELDERS.
- 2. CONTRACTOR TO COORDINATE BUILDING DEPARTMENT INSPECTIONS AND SPECIAL INSPECTIONS.
- 3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
- 4. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.
- 5. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL MEMBERS AND CAST-IN/ADHESIVE/UNDERCUT ANCHORS.
- SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:
- 1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360
- 2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
- 3. IF FABRICATOR IS NOT APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
- 4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR STEEL SHALL BE PERFORMED AS SPECIFIED.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION 1705.2 & AISC 360 VERIFICATION AND INSPECTION

- MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:
- A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
- B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
- 2. INSPECTIONS OF HIGH-STRENGTH BOLTING:
- A. SNUG TIGHT JOINTS
- 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK:
- A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.
- B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
- C. MANUFACTURER'S CERTIFIED TEST REPORTS.
- 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:
- IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.
- B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
- 5. INSPECTION OF WELDING:
- A. STRUCTURAL STEEL & COLD-FORMED STEEL DECK:
- 1) COMPLETE AND PARTIAL PENETRATION AND GROOVE WELDS
- 2) MULTIPLE FILLET WELDS
- 3) SINGLE PASS FILLER WELDS > 5/10.152
- 4) PLUG AND SLOT WELDS
- 5) SINGLE PASS FILLER WELDS <= 5/10.152
- 6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:
- A. DETAILS SUCH AS BRACING AND STIFFENING
- B. MEMBER LOCATIONS
- C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION
- 7. VERIFY EACH FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES

C=CONTINUOUS SPECIAL INSPECTION

6

С	Р	REFERENCED STANDARD
	х	ASTM MATERIAL SPECS; AISC 360 SECTION A3.3
	х	
	Х	AISC 360, SECTION M2.5
	х	AISC 360 SECTION A3.1
	х	APPLICABLE ASTM STANDARDS
	x	
	х	AISC 360, SECTION A3.5, AND APPLICABLE AWS A5 DOCUMENT
	x	
х		
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Х		AWS D1.1
Х		
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P=PERIODIC SPECIAL INSPECTION

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JOINT TREATMENT AT EXPANSION JOINT NOT TO SCALE

1. HOT-DIP GALVANIZED SUPPORT AFTER FABRICATION.

TYPICAL ADJUSTABLE PIPE SUPPORT NOT TO SCALE

SOIL SUPPORTED STRUCTURES AND UNDER ROADWAYS

NOTES:

- 1. FOR PIPE DIAMETER AND ELEVATION, SEE CIVIL, MECHANICAL, HVAC, ELECTRICAL AND PLUMBING DRAWINGS.
- 2. ALL PIPES LOCATED BENEATH STRUCTURES SHALL BE IN CONCRETE. ENCASEMENT SHALL EXTEND 5'-0" (MIN) BEYOND STRUCTURE UON.
- 3. PROVIDE COMPACTED SELECT FILL TO UNDERSIDE OF STRUCTURES.
- 4. CONCRETE PIPE ENCASEMENT SHALL BE CAST SEPARATELY FROM THE CONCRETE SLAB. PROVIDE BOND BREAKER OR LAYER OF SELECT FILL BETWEEN ENCASEMENT AND CONCRETE SLAB.
- 5. BOTTOM REINFORCEMENT TO BE CONTINUOUS WHERE POSSIBLE.

PIPE ENCASEMENT DETAIL UNDER STRUCTURES NOT TO SCALE

-MIN 1" NON-SHRINK GROUT

-LENGTH AND THREADS TO PROVIDE REQUIRED ADJUSTABILITY. USE STRAIGHT THREADS

-ROUND ALL SHARP CORNERS

PROVIDE CLAMP WITH SUPPORT

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E FREQUENCY DRIVE - VFD INDICATED DENOTES WITH G AND FULL SPEED BYPASS	(PS) 123)
SIBLE CABLES OR	(PC) (PS)
ITTON STATION	FS
ITTON STATION WITH LOCK-OUT FEATURE	(zs)
DR SWITCH	(zso)
NG LIGHT	
L STATION	(ZSC)
OMATIC TRANSFER SWITCH -ATS, WITH SOLID TE CONTROLS AND ACCESSORIESBI WHEN ICATED DENOTES WITH BYPASS-ISOLATION SWITCH	
NECT SWITCH - 480V 3POLE UNFUSED OR FUSED F S FUSING, ONLY WHERE INDICATED FIRST DENOTES SWITCH AMP RATING SECOND NUMBER S FUSE SIZE WHEN PROVIDED.	(FIT) (AIT)
N BOX; SIZE AS REQUIRED BY N.E.C.	
AL BOX; SIZE AS REQUIRED BY ND TO ACCOMMODATE ALL ATIONS ON TERMINAL BLOCKS. ATIONS TO INCLUDE SPARE WIRING.	TS LS
X; SIZE AS REQUIRED BY N.E.C.	(VLV)
C MOTOR (NUMBER INDICATES HORSEPOWER).	ACV
ON-OFF SNAP SWITCH, 1PH, 120V AC, 20A DTES, 2 POLE, 240 VOLTS, 20A	MS
OR THREE POLE MANUAL STARTER,	H
ZED VALVE WITH DLLER BY VENDOR	AV
ZED VALVE	MB

MV

<u>RUMENTS</u>	G
INSTRUMENT DEVICE: LETTERS IDENTIFY DEVICE FUNCTION, NUMBERS WHERE INDICATED DENOTE LOOP NUMBER	1.
PRESSURE CONTROLLER	
PRESSURE SWITCH (PSH DENOTES PRESSURE SWITCH HIGH AND PSL DENOTES PRESSURE LOW)	2.
FLOW SWITCH (FSH DENOTES FLOW SWITCH HIGH AND FSL DENOTES FLOW SWITCH LOW)	
LIMIT SWITCH	3.
LIMIT SWITCH OPEN	4.
LIMIT SWITCH CLOSED	F
PRESSURE TRANSMITTER (I DENOTES INDICATING TYPE AND PE DENOTES PRESSURE ELEMENT)	5.
LEVEL TRANSMITTER (LE DENOTES LEVEL ELEMENT)	
FLOW TRANSMITTER (FE DENOTES FLOW ELEMENT)	6.
ANALYSIS TRANSMITTER (AE DENOTES ANALYSIS ELEMENT)	
TEMPERATURE TRANSMITTER (TE DENOTES TEMPERATURE ELEMENT)	7.
TEMPERATURE SWITCH (TSH DENOTES TEMPERATURE SWITCH HIGH AND TSL DENOTES TEMPERATURE SWITCH LOW)	8.
LEVEL SWITCH (LSH DENOTES LEVEL SWITCH HIGH AND LSL DENOTES LEVEL SWITCH LOW. LE DENOTES LEVEL ELEMENT)	9.
MANUAL OPERATED VALVE WITH POSITION CONTROLS	10.
AIR OPERATED CONTROL VALVE	
MOISTURE SENSOR	
HORN	11.
STROBE/HORN COMBINATION	12.
MOTOR BEARING DETECTOR P= PUMP BEARING	13.
MOTOR VIBRATION DETECTOR P= PUMP VIBRATION	14.

SURGE SUPPRESSION DEVICE

INTRUSION ALARM CONTROL PANEL

ALARM CONTROL PANEL

FIBER OPTIC PATCH PANEL

LETTER INDICATES COLOR

UNINTERRUPTIBLE POWER SUPPLY

GENERAL NOTES

THE SYMBOLS AND ABBREVIATIONS LISTED REPRESENT A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL OF THE SYMBOLS AND ABBREVIATIONS CONTAINED ON THESE SHEETS ARE NECESSARILY USED ON THIS PARTICULAR CONTRACT.

THE CONTRACTOR SHALL READ AND UNDERSTAND THAT ENTIRE SET OF CONSTRUCTION DOCUMENTS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL DISCIPLINES. THIS WILL ENSURE A FULL UNDERSTANDING OF THE SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.

THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND MAKE HIMSELF/HERSELF AWARE OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THIS WORK.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.

WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. AFTER NOTIFICATION TO THE ENGINEER AND OWNER, NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, UFE SAFETY CODE AND ALL OTHER LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. EXTEND CONDUIT & WIRE TO INSTALLED LOCATIONS AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL SYSTEMS SHALL BE COMPLETE AND OPERABLE AT PROJECT COMPLETION.

UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6 " (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.

A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE. TERMINAL OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ENACTED FOR THIS PROJECT.

CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.

NO CONDUIT SMALLER THAN 3/4" PIPE SIZE NOR WIRE SMALLER THAN NO. 12AWG SHALL BE USED UNLESS OTHERWISE NOTED.

SWITCHES SHALL BE MOUNTED 4'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

14. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INSIDE OF THE EXTERIOR WALLS ABOVE GRADE. OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4 " AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.

15. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-6".

16. IN GENERAL, PULL BOXES OR JUNCTION BOXES SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS, ENFORCED EDITION OF NATIONAL ELECTRICAL CODE ABOVE GRADE, JUNCTION, PULL AND TERMINAL BOXES SHALL BE OF STAINLESS STEEL CONSTRUCTION. ENFORCED EDITION OF NATIONAL ELECTRICAL CODE.

17. CONDUIT AND WIRE FOR SWITCHES AND/OR RECEPTACLES AND SHALL BE a. MINIMUM 3/4" CONDUIT, TYPE AS SPECIFIED.

> b. MINIMUM NO. 12 COPPER WIRE, TYPE AS SPECIFIED. QUANTITY OF WIRES AS REQUIRED. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.

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	1	2
	<u>PLANS</u>	
E	1-3 O a	LED LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED. FIRST NUMERAL DENOTES LIGHTING PANEL (LP1), SECOND NUMBER DENOTES BRANCH CIRCUIT NUMBER. LOWER CASE LETTER DENOTES SWITCHED CIRCUIT.
	OEM	LED LIGHTING FIXTURE WITH BATTERY PACK SURFACE OR PENDANT.
		PENDANT OR CEILING MOUNTED LIGHTING FIXTURE.
	H	WALL MOUNTED LIGHTING FIXTURE.
	\propto	POLE OR STANCHION MOUNTED LIGHTING FIXTURE.
	$\Delta \phi \Delta$	TWO (2) POLE OR STANCHION MOUNTED LIGHTING FIXTURES
	GF ⊕⊂◯	POLE MOUNTED FIXTURE WITH GF RECEPTACLE
		WALL MOUNTED EXIT LIGHT
D		LED WALL PACK LIGHT FIXTURE WITH FULL CUTOFF LENS, SUITABLE FOR WET AND CORROSIVE LOCATIONS
		FIXTURE DESIGNATION SYMBOL. SEE LIGHTING FIXTURE SCHEDULE
	150 10'-0" AFF	FOR DESCRIPTION AND TYPE. ALL FIXTURES SHOWN IN A ROOM WITH THIS SYMBOL SHALL BE OF TYPE INDICATED BY LETTER; NUMBER IN SYMBOL INDICATES LAMP WATTAGE AND NUMBER OF NUMBER IN SYMBOL INDICATES LAMP WATTAGE AND NUMBER OF NUMBER BELOW SYMBOL INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR OR AS NOTED.
	I-2 GF/WIP	DUPLEX CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE, 120 VOLTS A.C. 20 AMP RECEPTACLE DESIGNATIONS, FIRST NUMBER DENOTES PANEL, SECOND NUMBER DENOTES CIRCUIT NUMBER. GF-DENOTES GROUND FAULT, WIP-WEATHER PROOF WHILE IN USE.
	\ominus	SINGLE CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE; 120 VOLTS AC. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.
	Θ -	POWER RECEPTACLE, 2 POLE, 3 WIRE 250 VOLTS A.C. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.
	\$ ^a	SINGLE POLE SWITCH - LOWER CASE LETTER DENOTES SWITCHING.
	\$2	TWO POLE SWITCH
	LP1-2	BRANCH CIRCUIT HOME RUN TO PANELBOARD LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER. AS A MINIMUM, ALL WIRING SHALL BE 3#12 AWG IN 3/4" CONDUIT. #10 AWG WIRE SHALL BE USED FOR RUNS BETWEEN PANEL AND FIRST LIGHTING FIXTURE OR RECEPTACLE EXCEEDING 50 FEET, UNLESS OTHERWISE NOTED ON DRAWING.
0	_ <u>//</u>	INDICATES GROUND CONDUCTOR
C		INDICATES HOMERUN AND CONDUIT TAG
		LIGHTING, APPLIANCE OR INSTRUMENT PANELBOARD
		CONDUIT TURNING DOWN
		CONDUIT TURNING UP
]	CONDUIT CAPPED
		INDICATES EXISTING EQUIPMENT/CONDUIT INDICATES CONDUIT UNDERGROUND OR CONCEALED IN CEILING, WALLS, BELOW OR IN FLOOR SLAB
В	(M) (M) (UH) OR [] 1-24 (UH) 1-24 (UH) 1-24	MOTOR, UNIT HEATER-NUMERAL DENOTES LIGHTING PANEL AND BRANCH CIRCUIT NUMBER. MOTOR SYMBOL SHOWN DASHED DENOTES EQUIPMENT LOCATED ON ROOF.
	+++++++	DEMOLITION
	EMH	ELECTRICAL MANHOLE
	EHH	ELECTRICAL HANDHOLE
	ІМН	INSTRUMENTATION MANHOLE
		INSTRUMENTATION HANDHOLE
	ATS	AUTOMATIC TRANSFER SWITCH
	\bigcirc	
A		EXUTHERMIC WELDED GROUND CONNECTION
		GROUND
	μ.,	

ABBREVIATIONS

5

	CL
PC	Pł
IL	IN T M
PT	R
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3

#4/0 GROUND CABLE BURIED 2'-6" BELOW GRADE UNLESS OTHERWISE NOTED	A AI AO	AMPERE ANALOG INPUT ANALOG OUTPUT
CLASS I COPPER LIGHTNING CONDUCTOR UNLESS OTHERWISE NOTED	AC AFC AFF	ALTERNATING CURRENT ABOVE FINISHED CONCRETE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
PHOTOCELL	AFG AG AL ATC	ABOVE FINISTIED GRADE ABOVE GRADE ALUMINUM AUTOMATIC TEMPERATURE CONTROL
INDICATING LIGHT, PT-DENOTES PUSH TO TEST TYPE LETTER INDICATES LENS COLOR W-WHITE G-GREEN A-AMBER	ATS AUX AUTO	AUTOMATIC TRANSFER SWITCH AUXILIARY AUTOMATIC
R-RED B-BLUE C-CLEAR	AWG BD	AMERICAN WIRE GAUGE
MOMENTARY CONTACT	BKR BLDG BV	BREAKER BUILDING BUITTERELY VALVE
PUSH BUTTON NORMALLY OPEN	C	
MOMENTARY CONTACT PUSH BUTTON NORMALLY CLOSED	CBV CB CKT	CABLE BY VENDOR CIRCUIT BREAKER CIRCUIT
SWITCH - TEMPERATURE	CTRL CP CPT	CONTROL CONTROL PANEL CONTROL POWER TRANSFORMER
TEMPERATURE	CT CU	CURRENT TRANSFORMER COPPER
NORMALLY OPEN. CLOSES ON RISING TEMPERATURE	DI DO DB DC	DISCRETE INPUT DISCRETE OUTPUT DECIBELS DIRECT CURRENT
SWITCH - PRESSURE NORMALLY CLOSED. OPENS ON RISING PRESSURE	DCS DISC DN DPDT	DISTRIBUTED CONTROL SYSTEM DISCONNECT DOWN DOUBLE POLE DOUBLE THROW
SWITCH - PRESSURE NORMALLY OPEN. CLOSES ON RISING PRESSURE	DP DS DWG	DISTRIBUTION PANEL DISCONNECT SWITCH DRAWING
VALVE LIMIT SWITCH (OPEN)	EC EL EMH EMT	EMPTY CONDUIT ELEVATION ELECTRICAL MANHOLE ELECTRICAL METALLIC TUBING
VALVE LIMIT SWITCH (CLOSED)	EO EX	ELECTRICALLY OPERATED EXISTING
SWITCH - LIMIT NORMALLY OPEN.	FUT FVNR	FUTURE FULL VOLTAGE NON-REVERSING
SWITCH - LIMIT	GFI G, GND	GROUND FAULT INTERRUPTER GROUND
NORWALLT GLOGED.	HOA HTR	HAND-OFF-AUTO HEATER
NORMALLY OPEN CONTACT, NUMBER INDICATES RELAY.	IMT ITB	INTERMEDIATE METALLIC TUBING INSTRUMENT TERMINAL BOX
NORMALLY CLOSED CONTACT	JB, J	
	KAIC KCMIL KVA KW	THOUSAND AMPERE INTERRUPTING CU THOUSAND CIRCULAR MILS KILOVOLT-AMPERES KILOWATTS
LATCHES CLOSED ON OVERLOAD		
THERMALLY ACTUATED MOTOR OVERLOAD RELAY, LATCHES OPEN ON OVERLOAD	LCP LTG LV	LOCAL CONTROL PANEL LIGHTING LOW VOLTAGE

4

SOLENOID VALVE

MOTOR STARTER CONTACTOR COIL COIL DESIGNATION: M-COIL

MOTOR STARTER CONTACTOR COIL COIL DESIGNATION: R-RUN

CONTROL RELAY COIL DESIGNATION: CR-CONTROL RELAY MX-AUXILIARY RELAY TR-TIMING RELAY AR-ALARM RELAY RR-READY RELAY

SELECTOR SWITCH, 2 POSITION MAINTAINED CONTACT

(O,X) DENOTES CONTACT BLOCK CONFIGURATION X INDICATES CONTACT CLOSED, O DENOTES CONTACT OPEN.

SELECTOR SWITCH, 3 POSITION MAINTAINED CONTACT

ELECTRIC SPACE HEATER ELEMENT

ELAPSED TIME METER

MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MH	MANHOLE
MOV	MOTOR OPERATED VALVE
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N/A	NON-APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NTS	NOT TO SCALE
OL	OVERLOAD
OS	OCCUPANCY SENSOR
PB	PUSH BUTTON
PFC	POWER FACTOR CORRECTION
PNL	PANEL
PR	PAIR
PT	POTENTIAL TRANSFORMER
PTZ	PAN-TILT-ZOOM
REC	RECEPTACLE
REQ	REQUIRED
RGS	RIGID GALVANIZED STEEL
RVSS	REDUCED VOLTAGE SOFT START
SP SS SPD SPDT SPST SV SW SWBD SWBD SWGR	SPARE STAINLESS STEEL SURGE PROTECTION DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SOLENOID VALVE SWITCH SWITCHBOARD SWITCHGEAR
TB	TERMINAL BOX
TDR	TIME DELAY RELAY
TEMP	TEMPERATURE
TEW	THERMOCOUPLE EXTENSION WIRE
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
1PH	SINGLE PHASE
3PH	THREE PHASE
3W	THREE WIRE
4W	FOUR WIRE

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NOTES:

- GROUND CONDUCTOR MUST HAVE BOLTED 1 CONNECTION TO THE TANK STEEL STRUCTURE. CONTRACTOR SHALL PROVIDE EXTEND TO THE GROUND CABLE TO BOLTED CONNECTION WITHOUT ANY DAMAGE TO TANK AND TANK FOUNDATION.
- PROVIDE DIRECTLY BURIED COPPER GROUND 2. CONDUCTOR AS PER SPECIFICATION SECTION 26 05 26-GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS.
- 3. CONTRACTOR SHALL COORDINATE INCOMING UTILITY ELECTRICAL SERVICE REQUIREMENT WITH COWETA-FAYETTE EMC. UTILITY TRANSFORMER ALONG WITH PRE-FABRICATED CONCRETE PAD, PRIMARY CABLE AND CONDUIT, AND METER BASE WILL BE PROVIDED BY COWETA-FAYETTE EMC. PROVIDE SUBGRADE REQUIRED FOR PREFABRICATED TRANSFORMER PAD AS PER CONTRACT GEOTECHNICAL STUDY REPORT.
- 4. CONTRACTOR SHALL FIELD LOCATE, CONFIRM AND VERIFY THE DUCTBANK LOCATIONS WITH OTHER UNDERGROUND UTILITIES IN ADVANCED TO AVOID CONFLICTS. THE CONTRACTOR SHALL COORDINATE CONFLICTS WITH THE ENGINEER PRIOR TO CONSTRUCTION.
- 5. REFER TO SINGLE LINE DIAGRAM AND INTERCONNECT DIAGRAM FOR ADDITIONAL DETAILS.
- 6. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.
- 7. INSTALL RADIO ANTENNA ON TOP OF THE BUILDING. SEE INTERCONNECT DIAGRAM AND INSTRUMENTATION SHEETS FOR MORE DETAILS.
- REFER OUTDOOR ELECTRICAL EQUIPMENT 8. ASSEMBLY SUPPORT DETAIL ON STRUCTURAL SHEETS.
- CONTRACTOR SHALL PROVIDE POWER FOR THE 9. EXISTING ELEVATED TANK AND FAA OBSTRUCTION LIGHTING. USE BREAKERS IN PANELBOARD LP-1 AS REQUIRED TO POWER OBSTRUCTION LIGHTING AND OTHER TANK LIGHTING.
- 10. REFER TO SHEET E-11 FOR PULLBOX DETAILS.
- 11. REFER TO CIVIL SHEETS FOR MORE SITE DETAILS.
- 12. CONTRACTOR SHALL VERIFY LOCATION OF PRESSURE TRANSMITTER BEFORE INSTALLATION. PROVIDE POWER CONDUIT STUB-UP FOR FUTURE TANK LIGHTING POWER REQUIREMENTS.

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SCA			
	_ _ .	1" = 10'	
		E-03	

REINFORCEMENT TABLE							
DUCT BANK THICKNESS	UNDER ROADWAY*	AT NON-TRAFFIC AREA					
T < 18"	#8 @ 12" (MIN) ALL AROUND	#6 @12" ALL AROUND					
T > 18"	#7 @ 12" (MIN) ALL AROUND	#5 @12" ALL AROUND					

	6	ARCADIS
	NOTES:	LEGAL ENTITY: ARCADIS U.S., INC.
	DELIVERY TO SITE. SERVICE CONNECTION FOR POWER, MONITORING & CONTROLS, AND GROUNDING SHALL BE MADE IN THE FIELD.	2839 PACES FERRY ROAD SUITE 1000 ATLANTA, GA 30339 TEL: 770-431-8666
	 ALL EQUIPMENT, WIRING, CONDUITS, ETC., LOCATED OUTSIDE OF THE BOOSTER PUMP STATION ENCLOSURE SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. 	WWW.ARCADIS.COM CONSULTANTS
	3. NO UNDERGROUND CONCRETE ENCASED CONDUIT SMALLER THAN 2" PIPE SIZE SHALL BE USING UNLESS OTHERWISE NOTED.	
	FOLLOWING ASSUMPTIONS HAVE BEEN CONSIDERED FOR UTILITY TRANSFORMER : TRANSFORMER KVA- 500 MINIMUM %Z- 2.80	
	X/R RATIO- 3.5 AVAILABLE FAULT CURRENT- 21,480A ELECTRICAL EQUIPMENT SPECIFIED UNDER THIS PROJECT IS RATED FOR KILO AMPERE INTERRUPTING CARACITY OF 35 KAIO, HENCE MEETS THE	
	INTERRUPTING AND WITHSTAND RATING REQUIREMENT TO HANDLE AVAILABLE FAULT CURRENT IN CASE OF A FAULT CONDITION.	SEALS
	5. CONTRACTOR TO COORDINATE AND PROVIDE METER SOCKET PER THE REQUIREMENTS OF COWETA-FAYETTE EMC. PROVIDE CONNECTION FROM THE METER ENCLOSURE TO THE GROUNDING ELECTRODE SYSTEM.	
	BOND THE GROUNDING ELECTRODE CONDUCTOR TO AN ACCEPTABLE GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC SECTION 250. THIS MAY INCLUDE A CONCRETE ENCASED ELECTRODE OR A GROUND ROD. THE SYSTEM SHALL BE CONNECTED TO THE GROUND RING AS SHOWN ON SHEET E-02 AND E-04. PROVIDE A SUPPLEMENTAL GROUND ROD IF THE	CHORGIA GISTERED WIGHTIG-2223
	 RESISTANCE TO EARTH EXCEEDS 5 OHMS. PROVIDE 600V, DUAL ELEMENT, TIME DELAY, 200KAIC, CLASS RK5 TYPE FUSES 	THOMAS H RO CWEL
	(SIZE AS SHOWN).	Anonan 13.
		FAYETTE COUNTY, GEORGIA
\bigcirc		FAYETTE COUNTY WATER SYSTEM
4"C (SPARE) 2"C 2"C	
		FATELLE
N 0	1 2 SECTION 02	
ALE .	E-03 SCALE: NOT TO SCALE	Adrei
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		E-04 SHEET 24 OF 37

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HT FIXTURES SHALL BE POWERED FROM PANELBOARD LP-1	ARCADIS U.S., INC. 2839 PACES FERRY ROAD
#12G IN 3/4" CONDUIT. PLEX WEATHERPROOF WHILE IN USE CONVENIENCE	SUITE 1000 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM
E WITH GROUND FAULT PROTECTION. 2 POLE, 3 WIRE, 120 VAC,	CONSULTANTS
ND EXTERIOR LIGHTING COMPLIANCE CERTIFICATION WAS SING ONLINE COMCHECK SOFTWARE TOOL. INTERIOR AND	
GHTING SHOWN ON THE DRAWING IS COMPLIANT WITH THE ERNATIONAL ENERGY CONSERVATION CODE (IECC) NTS	
	SEALS
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A1E LP1-1	
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	DRAWN BY: V. GANESH
	CHECKED BY: T. POWELL
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	ビーリウ SHEET 26 OF 37

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FAYETTE FAYETTE	COUNTY, GEORGIA COUNTY WATER SYSTEM	
FAN	YETTE Junig later	
FCWS-1 BOOS S ⁻	FRILITH TANK STER PUMP TATION	K
400 VETE FAYETTE UNIT	RANS PARKWAY, VILLE, GA 30214, TED STATES	
R	REVISIONS	
0 04/18/2025 NO. DATE	ISSUED FOR BID ISSUED FOR	ND BY
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SHEET TITLE	ECTRICAI	
INTEF	RCONNECT G DIAGRAM	
SCALE:	OT TO SCALE	
	E-07	
SHEET 27	7 OF 37	

1. REFER TO INSTRUMENTATION SHEETS FOR MORE DETAILS.

NOT TO SCALE

ΒY

	TRIP				ES		KVA PER PHAS	E	ES				TRIP	
CKT NO.	AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POL	А	В	С	POL	AMPS		DESCRIPTION OF LOAD	AMPS	
1	20	BUILDING INTERIOR LIGHTING	1	8.3	1	1.5			1	4.2	0.5	BUILDING EXTERIOR LIGHTING	20	
3	20	BUILDING INDOOR RECEPTACLES	1	8.3	1		2.0		1	8.3	1.0	BUILDING EXTERIOR RECEPTACLES	20	
5	20	RTU-32 PANEL	1	8.3	1			1.2	1	1.7	0.2	EXHAUST FAN LOUVER DAMPER	20	
7	20	FLOWMETER, FIT 3201	0.1	0.8	1	0.1			1			SPARE	20	
9	20	SOLENOID SV-3201	0.2	1.7	1		0.2		1			SPARE	20	T
11	20	SPARE			1			0.0	1			SPARE	20	
13	20	SPARE			1	0.0			1			SPARE	20	
15	20	SPARE			1		0.0		1			SPARE	20	
17	20	SPARE			1			0.0	1			SPARE	20	T
			То			1.0		1.0				SERVICE CHARACTERISTICS	4	-
	PANEL	LP-1		JIAL KVA		1.6	2.2	1.2		VOLTS:	208Y/120			
	LOCATION	TRILITH BOOSTER PUMP STATION					-	0	-	PHASE:	3		100	-
	BUILDING	PUMP STATION BUILDING	GRAN	DCONNEC		TAL KVA	5	.0		WIRE:	4	-		-
	NOTES:	NEMA 12, WALL MOUNTED							-	35k I	MIN AIC SYM	IM, FULLY RATED ASSEMBLY		

4

- 3

	TRIP				S		KVA PER PHAS	SE	S				TRIP	
CKT NO. AMPS DESCRIPTION OF LC	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLI	А	В	С	POLI	AMPS	LOAD KVA	DESCRIPTION OF LOAD	AMPS	CK	
1	70	BOOSTER PUMP NO.1, 32-P-01	44	52.9	3	29.3			3	52.9	44	BOOSTER PUMP NO.2, 32-P-02	70	
							29.3							
								29.3						
7	20	ELECTRIC UNIT HEATER, EUH-1	5	6.0	3	2.0			3	1.2	1	EXHAUST FAN, EF-1 STARTER PANEL	20	
							2.0							
								2.0						
13	20	SPARE				5.0			3	18.0	15	15 KVA TRANSFORMER, TX-LP1	30	
							5.0							
								5.0						
19	20	SPARE			3	0.0			3			SPARE	20	
							0.0							
								0.0						
25	70	SPARE			3	0.0			3			SPARE	70	
							0.0							
								0.0						
	PANEL	PP-1	тс	OTAL KVA		36.3	36.3	36.3		VOLTS:	480Y/277	SERVICE CHARACTERISTICS		A
L	OCATION	TRILITH BOOSTER PUMP STATION PUMP STATION BUILDING	GRAN	D CONNEC	TED TO	TAL KVA	10)9.0		PHASE: WIRE:	3	-	200	A
	NOTES:	NEMA 12, WALL MOUNTED	L				1			35k	MIN AIC SYN	- /IM, FULLY RATED ASSEMBLYY		

_			

PANELBOARD LP-1 SCHEDULE SCALE: NOT TO SCALE

PANELBOARD PP-1 SCHEDULE

SCALE: NOT TO SCALE

NOTES:

- 1. PROVIDE 2#12, 1#12G, 3/4" CONDUIT FOR 120VAC, SINGLE PHASE BRANCH, CIRCUITS TO IDENTIFIED EQUIPMENT, UNLESS NOTED OTHERWISE.
- 2. ALL 20A BRANCH CIRCUITS WHICH EXTEND BEYOND 100 FEET IN LENGTH SHALL UTILIZE #10 AWG WIRING THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT FOR THE PURPOSE OF LIMITING VOLTAGE DROP AND REDUCING WIRING SYSTEM LOSSES.
- 3. MULTIPLE 120VAC, 20A BRANCH CIRCUITS MAY BE COMBINED WITHIN A SINGLE CONDUIT TO MINIMIZE THE NUMBER OF HOMERUNS TO PANELBOARD. DO NOT EXCEED SIX CURRENT CARRYING CONDUCTORS MAY SHARE THE SAME CONDUIT IF ALL CONDUCTOR SIZES ARE INCREASED TO #10 AWG, AND PROVIDED THAT THE CIRCUIT BREAKERS FOR EACH CIRCUIT ARE RATED 20A OR LESS.
- 4. A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH BRANCH CIRCUIT.

CKT NO.	
2	
4	
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10	
12	
14	
16	
18	

A MLO A MCB

CKT NO.
2
8
14
20
26
A MLO A MCB

LEGAL ENTITY:
ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 1000 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM
CONSULTANTS
SEALS
CLORGIA GISTEREO Was PEDATDAB PROFESSIONAL TO MAS H RO Monton H ROM
FAYETTE COUNTY, GEORGIA FAYETTE COUNTY WATER SYSTEM
FAYETTE Water
FCWS-TRILITH TANK BOOSTER PUMP STATION
400 VETERANS PARKWAY, FAYETTEVILLE, GA 30214, UNITED STATES
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DATE: MARCH 2025 FILE NAME: E-09
DESIGNED BY: N. DESHPANDE
CHECKED BY: T. POWELL
PANELBOARD SCHEDULE
SCALE:

SHEET 29 OF 37

GROUNDING CONNECTIONS SCALE: NOT TO SCALE

3 POLYCONCRETE PULLBOX DETAIL E-11 SCALE: NOT TO SCALE

POLYCONCRETE PULLBOX TABLES

C-PB-1	30"L x 17"W x 24"D	POLYCONCRETE - IN GROUND OPEN BOTTOM
	POWER PULLBO	X SIZE TABLE
PULLBOX TAG	SIZE	TYPE
P-PB-1	36"L x 24"W x 24"D	POLYCONCRETE - IN GROUND OPEN BOTTOM
P-PB-2	36"L x 24"W x 24"D	POLYCONCRETE - IN GROUND OPEN BOTTOM
P-PB-3	36"L x 24"W x 24"D	POLYCONCRETE - IN GROUND OPEN BOTTOM

CONTROL PULLBOX SIZE TABLE

TYPE

SIZE

PULLBOX TAG

2

E-11 SCALE: NOT TO SCALE

IOTE 4 CLAMP-BACK SPACER	LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 1000 ATLANTA, GA 30339 TEL: 770-431-8666 WWW.ARCADIS.COM
ENER AND WASHER ONE-HOLE STRAP (CLAMP)	CONSULTANTS
SEE NOTE 4 SPACER TWO-HOLE STRAP (CLAMP) ES: THESE DETAILS ARE TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING. ALL THREADED FASTENERS TO BE PER SPECIFICATIONS. STRAP TO BE SPACED PER SPECIFICATIONS. EXPANSION ANCHOR, LENGTH AS REQUIRED FOR RIGID ASSEMBLAGE (TYP).	
SCALE: NOT TO SCALE	FCWS-TRILITH TANK
2" JLLBOX NG (TYP) I I I I I I I I I I I I I	BOOSTER PUMP STATION 400 VETERANS PARKWAY, FAYETTEVILLE, GA 30214, UNITED STATES REVISIONS
DP VIEW	COPYRIGHT: ARCADIS U.S., INC. 2025 PROJECT STATUS: 100% SUBMITTAL PROJECT NO: <u>30135792</u> DATE: MARCH 2025 FILE NAME: E-11 DESIGNED BY: <u>N. DESHPANDE</u> DRAWN BY: <u>V. GANESH</u> CHECKED BY: <u>T. POWELL</u> SHEET TITLE ELECTRICAL SHEET TITLE ELECTRICAL DETAILS - SHEET 2 OF 2
	SCALE: NOT TO SCALE E-11 SHEET 31 OF 37

		R TO PROCESS DRAWINGS	K DETAILS ARE SHOWN. REFE	G, FITTINGS, AND TANI ETAILS	2. NOT ALL PIPING FOR ACTUAL D
		N LEGEND	ON IDENTIFICATIO	RUMENTATIO	INST
-		SECOND LETTER		ITER	FIRST LE
	MODIFIER	FUNCTION	PASSIVE FUNCTION	MODIFIER	MEASURED OR INITIATING VARIABLE
-	CLOSED	CONTROL	NOT USED		CONDUCTIVITY (ELECTRICAL)
				DIFFERENTIAL	DENSITY (MASS)OR
-			PRIMARY ELEMENT		SPECIFIC GRAVITY VOLTAGE (EMF)
	OFF			RATIO (FRACTION)	FLOW, FLOW RATE
			GLASS GAGE (UNCALIBRATED)		INTRUSION
· ·	HIGH				HAND (MANUALLY INDICATED)
			INDICATE		
		CONTROL STATION		SCAN	
	LOW	SUNTION STATION	LIGHT (PILOT)	┟────┤	
					MOISTURE, HUMIDITY OR
	NOT USED	NOT USED	NOT USED	┟────┼	SEQUENCE STRATEGY
	OPEN OR ON	ANALYSIS	ORIFICE (RESTRICTION)		NOT USED
-		PULSE	POINT (TEST CONNECTION)		PRESSURE OR VACUUM
-				INTERGRATE OR TOTALIZE	QUANTITY
-		REMOTE	RECORD OR PRINT		RADIOACTIVITY
		SWITCH, START OR STOP		SAFEIY	SPEED, FREQUENCY
	MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION		MULTIVARIABLE
		VALVE, DAMPER OR			VIBRATION
			WELL		WEIGHT OR FORCE
	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	X AXIS	UNCLASSIFIED
		RELAY OR COMPUTE		Y AXIS	
		UNCLASSIFIED FINAL			POSITION

³ LINE TYPES	INSTRUMENT NUMBERING SYSTEM	INSTRUMENTATION SYMBOLS (CONT.)	PANEL DEVICE SYMBOLS (CONT.)	
MAIN PROCESS LINE AUXILIARY LINE EXISTING MAIN PROCESS LINE	INSTRUMENT IDENTIFICATION	FE ORIFICE FLOW ELEMENT I I I I I I	XXX INDICATING LIGHT UNIT B BLUE G GREEN G R RED W WHITE A AMBER F FLASHES ON ELECTRIC OR MECHANICAL MALEUNCTION	LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 1000 ATLANTA, GA 30339 PHONE : 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
EXISTING AUXILIARY LINE ELECTRIC (ELECTRONIC) SIGNAL ARROW INDICATES SIGNAL DIRECTION SOFTWARE LINK SYSTEM FUNCTION CONNECTION OR COMMUNICATION LINK	FIRST TWO DIGITS FOR LOOP NUMBER DESIGNATION IS FACILITY CODE	PARSHALL FLUME	RELAY LOGIC # = FUNCTION IDENTIFICATION NUMBER	
-FF- FIBER OPTIC CONNECTION ss- (SERIAL) 2 OR 4 CONDUCTOR CABLE HH- HDMI CABLE c	BASE INSTRUMENTATION SYMBOLS	ELECTROMAGNETIC FLOWMETER	ELECTRONIC HORN	SEALS
EE- (ETHERNET) CAT-6 CABLE E- PNUEMATIC SIGNAL 	FUNCTIONS PROGRAMMED IN SOFTWARE FROM HARD I/O POINT WITH DISPLAY XXX = FUNCTION IDENTIFIER ### = LOOP NUMBER \bigtriangleup DIGITAL INPUT $\bigtriangleup_{\#}$ # COMMUNICATION TYPE	THERMAL MASS FLOWMETER	G A AMBER B BLUE G GREEN R RED W WHITE	CHORGIA CHOSTERES CHOSTERE
н — н HEAT TRACED AND INSULATED т — т TELEPHONE WIRE – п — РАСКАGED SYSTEM BOUNDARY	\bigtriangledown DIGITAL OUTPUT \bigtriangledown \checkmark $\#$ E ETHERNET C CONTROLNET \blacktriangle ANALOG INPUT \bigstar $\#$ D DEVICENET H HART \checkmark ANALOG OUTPUT \checkmark $\#$ M MODBUSXXX-XEUNCTIONS PROGRAMMED IN SOFTWARE	X X = A AREA VELOCITY (FLOW) R RADAR U ULTRASONIC FE ### ROTAMETER	VARIABLE FEQUENCY DRIVE F VARIABLE FEQUENCY DRIVE # = IDENTIFICATION NUMBER SHOWING LOCAL CONTROL AT VFD LOCAL CONTROL AT VFD (KEYPAD SHALL BE PROVIDED IN ADDITION TO THE CONTROLS IDENTIFIED)	FAYETTE COUNTY, GEORGIA FAYETTE COUNTY WATER SYSTEM
FUTURE FUTURE PANEL LIMITS EXISTING BUILDING BOUNDARY LINE EXISTING ROOM BOUNDARY LINE	YYYY YYYY = COMMUNICATION TYPE ENT ETHERNET CNT CONTROLNET DNT DEVICENET	INTERCONNECTING LINES WITH DOT INDICATE ROUTING OF THE SAME SIGNAL INTERCONNECTING LINES WITHOUT DOT INDICATE ROUTING OF MULTIPLE SIGNALS	 S/S, RUN INDICATION, MALFUNCTION. S/S, RUN INDICATION, MALFUNCTION, H/O/R. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP, RESET. S/S, RUN INDICATION, MALFUNCTION, H/O/R, RESET, 	FAYETTE
	HART HART MOD MODBUS FUNCTIONS DERIVED FROM I/O POINTS WITHIN THE SOFTWARE WITH DISPLAY	FR AR FR & AR TWO FUNCTIONS AS PART OF ### ONE UNIT (CIRCLES TOUCH) AIT X SUPERSCRIPT (X) FOR ANALYTIC DEVICES: CH4 METHANE Cl2 CHLORINE COME CHURTINE	 S/S, RUN INDICATION. S/S, RUN INDICATION, MALFUNCTION, RESET, SPEED INDICATION, SPEED CONTROL. S/S, RUN INDICATION, MALFUNCTION, H/O/R, RESET SPEED INDICATION, SPEED CONTROL, VFD FAULT. S/S, RUN INDICATION, MALFUNCTION, RESET, SPEED INDICATION, SPEED CONTROL, VFD FAULT. 	Water
WING CONTINUATION LEGEND	XXX-X CS - ### = CONTROL STRATEGY VMBER IN SPECIFICATION XXX-X IN - ### = INTERLOCK NUMBER ON THE DRAWING	COMB COMBUSTIBLES DO DISSOLVED OXYGEN FeCI3 FERRIC CHLORIDE H2S HYDROGEN SULFIDE H3PO4 PHOSPHORIC ACID H2SO4 SULFURIC ACID Na2S2O5 SODIUM BISULFITE NH3 AMMONIA NOX NIRATE/NITRITE	$\begin{bmatrix} M \\ C \\ C \\ (#) \end{bmatrix} (#) \begin{bmatrix} R \\ V \\ S \\ S \\ (#) \end{bmatrix} (#) \begin{bmatrix} MOTOR CONTROL CENTER OR \\ REDUCED VOLTAGE STARTER SYSTEM \\ # = IDENTIFICATION NUMBER SHOWING \\ LOCAL CONTROL AT MCC OR RVSS \end{bmatrix}$	FCWS - TRILITH TANK BOOSTER PUMP STATION
OCESS LINES (ON / OFF PAGE) PROCESS-MED AREA OR EQUIPMENT CONN DRAWING I-XXX	Image: Strain of the browning Image: Strain of the browning <td< td=""><td>O2 OXYGEN ORP OXIDATION REDUCTION POTENTIAL pH HYDROGEN ION CONCENTRATION (-LOG) PO4 PHOSPHATE</td><td> S/S, RUN INDICATION, MALFUNCTION. S/S, RUN INDICATION, MALFUNCTION, H/O/R. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP, RESET. S/S, RUN INDICATION, MALFUNCTION, H/O/R, RESET. </td><td>400 VETERANS PARKWAY, FAYETTEVILLE, GA 30214, UNITED STATES</td></td<>	O2 OXYGEN ORP OXIDATION REDUCTION POTENTIAL pH HYDROGEN ION CONCENTRATION (-LOG) PO4 PHOSPHATE	 S/S, RUN INDICATION, MALFUNCTION. S/S, RUN INDICATION, MALFUNCTION, H/O/R. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP, RESET. S/S, RUN INDICATION, MALFUNCTION, H/O/R, RESET. 	400 VETERANS PARKWAY, FAYETTEVILLE, GA 30214, UNITED STATES
ILITY LINES (ON / OFF PAGE) REMARKS 1 UTILITY CONN DRAWING I-XXX REMARKS 2	A INSTRUMENT ON REAR OF PANEL (BROKEN LINE). ACTIVATES AND DEACTIVATES CONTROL AND/OR ALARM SWITCHES AT PRESET SIGNALVALUES. Δ DIFFERENCE > HIGH SELECTOR < LOW SELECTOR P/I PNUEMATIC/CURRENT CONVERTER I/I CURRENT/CURRENT CONVERTER (REPEATER) Σ SUMMATION	PANEL DEVICE SYMBOLS	L LOCAL CONTROL STATION # = IDENTIFICATION NUMBER SHOWING LOCAL CONTROL AT LCS LOCAL CONTROL AT LCS 1. S/S, RUN INDICATION, MALFUNCTION. 2. S/S, RUN INDICATION, MALFUNCTION, H/O/R. 3. S/S, RUN INDICATION, MALFUNCTION, A/M.	
STRUMENT SIGNAL LINES (ON / OFF PAGE) SIGNAL NAME CONN DRAWING NO. I-XXX	AV AVERAGE % RATIO XXX INSTRUMENT IDENTIFICATION. (SEE THIS SHEET FOR INSTRUMENT IDENTIFICATION LEGEND AND NUMBERING SYSTEM.) ### LOOP NUMBER (HSS) SAFETY PULL CORD	HAND SWITCH (MANUAL SELECTOR) X/X/X XXX PUSH BUTTON XXXX FUNCTION SUBSCRIPT FOR HAND SWITCH AND	 S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP. S/S, RUN INDICATION, MALFUNCTION, H/O/R, E-STOP, RESET. O/C, OPEN INDICATION, CLOSE INDICATION, MALFUNCTION, L/O/R. J/O/R, RUN INDICATION, E-STOP, FAIL INDICATION. S/S, RUN INDICATION, MALFUNCTION, L/O/R, E-STOP. 	004/18/2025ISSUED FOR BIDSANO.DATEISSUED FORBYCOPYRIGHT: ARCADIS U.S., INC. 2025PROJECT STATUS: 100% SUBMITTALPROJECT NO.:30135792
OCESS LINES T WITHIN THE BOUNDARY OF THIS DRAWING SET PROCESS-MED AREA OR EQUIPMENT	BELT ALIGNMENT SWITCH	PUSH BUTTON ESTOP E-STOP F/O/R FORWARD-OFF-REVERSE F/O/JR FORWAR-OFF-JOG REVERSE H/O/A HAND-OFF-AUTO H/O/R HAND-OFF-REMOTE H/O/SBY HAND-OFF-STANDBY J/O/R JOG-OFF-REMOTE O/L/R OFF-LOCAL-REMOTE M/A MANUAL-AUTO M/O/A MANUAL-OFE-AUTO	IAS INSTRUMENT AIR SUPPLY 120V 120V AC POWER SUPPLY 240V 240V AC POWER SUPPLY 480V 480V AC POWER SUPPLY 24V 24V DC POWER SUPPLY	DATE:APRIL 2025FILE NAME:I-01DESIGNED BY:S. AYOADEDRAWN BY:M. ANDAVARAPUCHECKED BY:T. POWELLSHEET TITLE
ILITY LINES T WITHIN THE BOUNDARY OF THIS DRAWING SET REMARKS 1 UTILITY UTILITY STRUMENT SIGNAL LINES T WITHIN THE BOUNDARY OF THIS DRAWING SET		N//O/AN/AOAL-OTT-AOTOO/COPEN-CLOSEO/OON-OFFO/S/COPEN-STOP-CLOSERSRESETR/LREMOTE-LOCALR/ORUN-OFFSCSPEED CONTROL POTENTIOMETERSCRSILICON CRYSTAL RECTIFIERS/SSTART-STOPS/SLOSTART-STOP WITH LOCKOUTSTRSTARTSTPSTOP		INSTRUMENTATION AND CONTROLS INSTRUMENTATION SYMBOLS AND LEGENDS 1 OF 3
SIGNAL NAME NN = CONNECTION NUMBER (ALPHANUMERIC CHARACTER STRING)				SCALE: NTS
				I-01 SHEET <u>32</u> OF <u>37</u>

	VALVE & GATE IDENTIFICATION	ACTUATOR IDENTIFICATION	Р
E	TBD	TBD	2
	VALVE & GATE SYMBOLS & ABBR.	ACTUATOR SYMBOLS & ABBR.	
	FILLED IN VALVE SYMBOL (SOLID CIRCLE OR TRIANGLE) INDICATES NORMALLY CLOSED POSITION, OTHERWISE VALVE IS NORMALLY OPEN.	M ELECTRIC MOTOR ACTUATOR (E)	ŕ
	AIR RELEASE VALVE (ARV)	PNEUMATIC ACTUATOR (P)	
	AIR/VACUUM VALVE (AV) COMBINATION AIR VALVE (CA)	HYDRAULIC ACTUATOR (H)	
		Ŧ	
	BALL CHECK VALVE (BC) Image: State of the state of	SPRING ACTUATOR (S)	
D	BUTTERFLY VALVE (DIGESTER GAS SERVICE) OPEN/CLOSE APPLICATIONS (BD) BUTTERFLY VALVE (AIR SERVICE) OPEN/CLOSE APPLICATIONS (BR)	FO SOLENOID ACTUATOR FO- FAIL OPEN FC-FAIL CLOSED	
	HIGH PERFORMANCE BUTTERFLY VALVE - (DIGESTER GAS SERVICE) - MODULATING		
	APPLICATIONS (HD) HIGH PERFORMANCE BUTTERFLY VALVE - (AIR SERVICE) - MODULATING APPLICATIONS (HR)	OPERATION TYPE ABBREVIATIONS	
	CHECK VALVE/SWING CHECK VALVE (CV) CHECK VALVE (DIGESTER GAS SERVICE) (CD) CHECK VALVE (AIR SERVICE) (CR) AUTOMATIC ELECTRIC CHECK VALVE (CT) SWING FLAP VALVE (SF)	OC OPEN / CLOSE MD MODULATING	
		SIGNAL TYPE ABBREVIATIONS	
	DIAPHRAGM VALVE (DV)	ANG ANALOG	
	SUCTION FOOT VALVE (FV)	CNT CONTROLNET	
	THREE WAY VALVE (TW)	DCT DRY CONTACT	
	FOUR WAY VALVE (FW)	DNT DEVICENET	
	GLOBE VALVE (GL)	FLB FOUNDATION FIELD BUS	
С	GATE VALVE (GV) METAL SEATED GATE VALVE - SOLID WEDGE AND DOUBLE DISC TYPE (GM) RESILIENT SEATED GATE VALVE (GR)	MOD MODBUS	
	PLUG VALVE (PV)		
	MUD VALVE (MD)		
		CONCENTRIC REDUCER	
	AUTOMATIC PRESSURE REDUCING VALVE (PRV) (FLOW LEFT TO RIGHT)	ECCENTRIC REDUCER (FLAT ON BOTTOM)	
7		ECCENTRIC REDUCER (FLAT ON TOP)	
	AUTOMATIC PRESSURE SUSTAINING VALVE (PSV) (FLOW LEFT TO RIGHT)		
В	XX ### 3-WAY VALVE WITH DIAPHRAGM	SINGLE BASKET STRAINER	
	RELIEF VALVE (RV)	VENT	
	FO SOLENOID VALVE (SO)	⊢ [⊥] _≫ ноѕе вів	
	FO - FAIL OPEN FC - FAIL CLOSED		
	SLUICE GATE (SL)		
	SLIDE GATE (SG) SLIDE PLATE (SP)	DIAPHRAGM SEAL, WITH ISOLATION VALVE	
	DAMPER (DM)		

ING SY	MBOLS (CONTINUED)	SCADA BLOCK DIAGF	RAM SYMBOLS ATIONS	SCADA BLOCK DIAG	RAN S (C
	EXPANSION TANK		COMPLITER	FPP-*	PANE
]	EXPANSION TANK (WITH RUPTURE DISC)		WORKSTATION WITH SINGLE MONITOR, KEYBOARD, AND MOUSE	FPP-*	RACK PANEI (*) INE IDENT
2 7	PULSATION DAMPENER			SVR-*	RACK WHEF INDIC, IDENT
Ч	FLEXIBLE HOSE		COMPUTER WORKSTATION WITH DUAL MONITOR, KEYBOARD, AND MOUSE	NVR	NETW (NVR)
3	EXPANSION JOINT, METALLIC			KVM	
	CALIBRATION COLUMN			UPS-*	RACK ASTEI HARD
<u>}</u> 7	SAFETY SHOWER AND EYEWASH			UPS-*	NUMB UNINT SUPPI
	UNION		PRINTER		FRON NETW CONV
>	BACKFLOW PREVENTER			X/X =	B/E C/E D/E
\neg	DOUBLE CHECK VALVE SEAL WATER		WALL MOUNT MONITOR		D/M D/PN M/B M/E M/PB M/PN
,	DRAIN		DANIEL MOUNT		PB/E PN/E S/E
	DRIP TRAP	HMI	INDUSTRIAL PC	F/C	CONT MODU FIBER
]	VACUUM BREAKER		OPERATOR INTERFACE	27772	CONT
_	FLANGES		TERMINAL (OIT)		SEE S SHEET IDENT
-11	BLIND FLANGE SCREW CAP		PROGRAMMABLE LOGIC CONTROLLER (PLC)	ZZZZZ	CONT MAJO
-	HOSE CONNECTION QUICK CONNECT				INSID
ഹി	CAMLOCK CONNECTION		REMOTE I/O (R I/O)		FACIL WHEF INDIC
	ORIFICE PLATE	ES DOD	ETHERNET SWITCH PANEL MOUNT (UNMANAGED TYPE)		LOUA
			ETHERNET SWITCH PANEL MOUNT (MANAGED TYPE)		FIXED
		ES-* 0000000	RACK MOUNTED ETHERNET SWITCH. WHERE ASTERISK (*) INDICATES M: MANAGED OR U:		NETW
			BYPASS SWITCH	∆ x	"X" INI FUNC
			KEYPAD/CARD READER		TELEF
				MISCELLANEOUS S	;YME
				WATER SURFA	CE ELI

SCALE:

NTS

I-02

SHEET 33 OF 37

EQUIPMENT SYMBOLS	EQUIPMENT SYMBOLS (CONTINUED)	EQUIPMENT SYMBOLS (CONTINUED)	EQUIPMENT IDENTIFICATION	
CENTRIFUGAL PUMP	CENTRIFUGAL FAN	POSITIVE DISPLACEMENT GEAR PUMP	FACILITY CODE EQUIPMENT CODE EQUIPMENT SEQUENCE NUMBER	COMP COMPRESSOR DT DAY TANK DTM DRAFT TUBE MIXER ENG ENGINE M MOTOR P PUMP SK STORAGE TANK T TANK
	GRINDER		LINE IDENTIFICATION	PROCESS M
	TURBO CHARGER	CHILLER	PIPE DIAMETER (INCHES) PROCESS FLOW SYSTEM CODE PIPE MATERIAL	AIR AIR, ATMOSPHERIC ALP AIR (LOW PRESSURE CA COMPRESSED AIR DG DIVERTER GATE DR DRAIN
		FILTER, CARTRIDGE		HO HYDRAULIC OIL HPW3 HIGH PRESSURE PLA IA AIR, INSTRUMENT SU LS LEVEL SENSOR NPW NON-POTABLE WATE OF OVERFLOW PA AIR, PROCESS PAI AIR INTAKE, PROCESS
		Filter, coalescing	BS BLACK STEEL CU COPPER CPVC CHLORINATED POLYVINYL CHLORIDE	POTPOTABLE WATERSAMSAMPLESANSANITARYSTASTARTING AIRSWSERVICE WATERUREUREA SOLUTIONVACVACUUM
	CHLORINE INJECTOR	HEAT EXCHANGER (SHELL AND TUBE)	CS CARBON STEEL DIP DUCTILE IRON PVC POLYVINYL CHLORIDE RPVC REINFORCED PVC FLEXIBLE HOSE SSTL STAINLESS STEEL ST STEEL	VT VENT VTC VENT, CHEMICAL
PROGRESSIVE CAVITY PUMP	GRIT SCREW			
ROTARY LOBE PUMP	MANUAL SCREEN	HEAT EXCHANGER (PLATE AND FRAME)		
ROTARY VANE PUMP		FLAME ARESSTER		
DIAPHRAGM PUMP	FINE SCREEN			
POSITIVE DISPLACEMENT COMPRESSOR	SCREW CONVEYOR			
COMPRESSOR, PISTON TYPE	BELT CONVEYOR			
BLOWER, CENTRIFUGAL	BELT CONVEYOR, INCLINED			
B BLOWER, ROTARY LOBE	AERATOR			
TURBO BLOWER	MIXER			
HORIZONTAL MOTOR				
M VERTICAL MOTOR				
A				

	EQUIPMENT DESIGNATIONS	
R	COMP COMPRESSOR DT DAY TANK DTM DRAFT TUBE MIXER ENG ENGINE M MOTOR P PUMP SK STORAGE TANK T TANK	LEGAL ENTITY: ARCADIS U.S., INC. 2839 PACES FERRY ROAD SUITE 1000 ATLANTA, GA 30339 PHONE : 770-431-8666 WWW.ARCADIS.COM CONSULTANTS
	PROCESS MEDIUM	
DE	AIRAIR, ATMOSPHERICALPAIR (LOW PRESSURE PROCESS)CACOMPRESSED AIRDGDIVERTER GATEDRDRAINHOHYDRAULIC OILHPW3HIGH PRESSURE PLANT WATERIAAIR, INSTRUMENT SUPPLYLSLEVEL SENSORNPWNON-POTABLE WATEROFOVERFLOWDAAIR, DROCESS	SEALS
	PAI AIR, INTAKE, PROCESS PAI AIR INTAKE, PROCESS POT POTABLE WATER SAM SAMPLE SAN SANITARY STA STARTING AIR SW SERVICE WATER URE UREA SOLUTION VAC VACUUM VT VENT VTC VENT, CHEMICAL	FAYETTE COUNTY, GEORGIA FAYETTE COUNTY, GEORGIA FAYETTE COUNTY WATER
		SYSTEM FAYETTE Water
		FCWS - TRILITH TANK BOOSTER PUMP STATION 400 VETERANS PARKWAY, EAYETTEVILLE GA 30214
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		COPYRIGHT: ARCADIS U.S., INC. 2025 PROJECT STATUS: 100% SUBMITTAL PROJECT NO.: 30135792 DATE: APRIL 2025 FILE NAME: I-03 DESIGNED BY: S. AYOADE DRAWN BY: M. ANDAVARAPU CHECKED BY: T. POWELL SHEET TITLE INSTRUMENTATION AND CONTROLS
		INSTRUMENTATION SYMBOLS AND LEGENDS 3 OF 3
		I-03 SHEET 34 OF 37

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BACK PANEL VIEW

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BILL OF MATERIAL			
S.NO	DESCRIPTION		
1	NEMA 4X ENCLOSURE WALL MOUNT		
2	BACK PANEL		
3	HORNER		
4	RADIO MODEM		
5	RECEPTACLE		
6	120V CIRCUIT BREAKER		
7	24VDC POWER SUPPLY		
8	SURGE PROTECTION (120V)		
9	RELAYS		
10	TERMINAL BLOCKS		
11	GROUNDING TERMINAL BLOCKS		
12	BACK UP POWER		
13	DIN RAIL		
14	WIRE TRAY		
15	HEATER		

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