WEBER COUNTY LIBRARY OGDEN VALLEY BRANCH SITE AND UTILITY IMPROVEMENTS

131 SOUTH 7400 EAST HUNTSVILLE, UTAH 84317

BID SET 12.07.18

OWNER

WEBER COUNTY LIBRARY 2464 JEFFERSON AVENUE OGDEN, UTAH 84401-2404

ARCHITECT

PRESCOTT MUIR ARCHITECTS
171 WEST PIERPONT AVENUE
SALT LAKE CITY. UT 84101

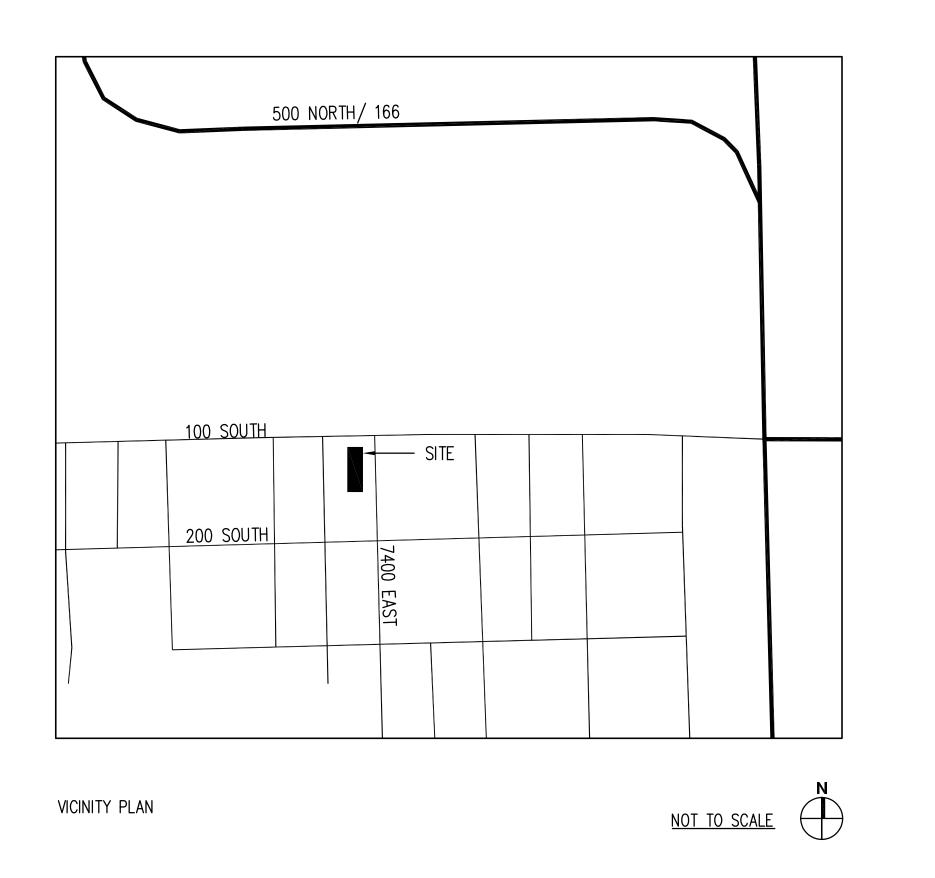
CIVIL ENGINEER

GREAT BASIN ENGINEERING NORTH 5746 SOUTH 1475 EAST OGDEN, UT 84403 801.394.4515 FAX 801.392.7544

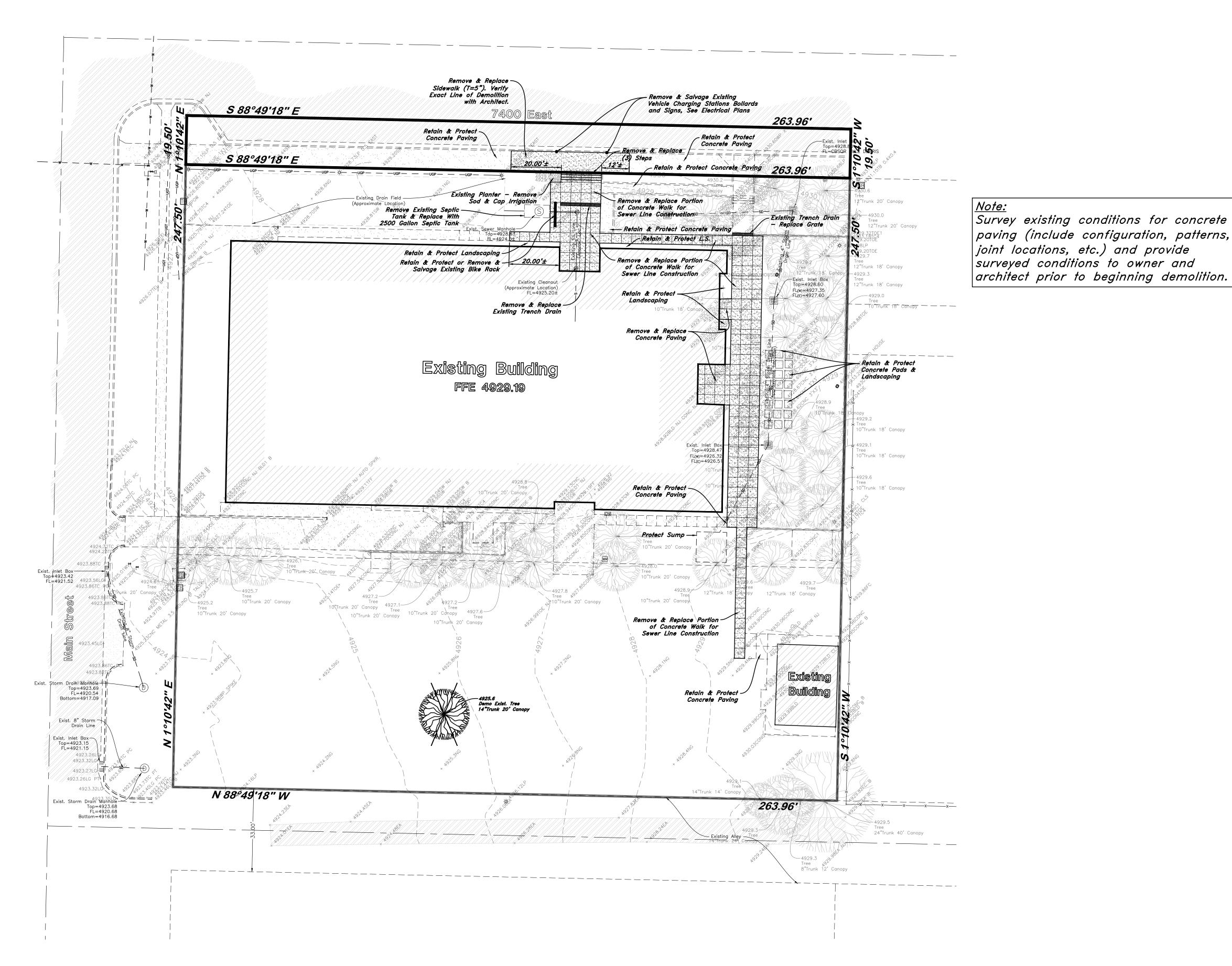
801.521.9111 FAX 801.521.9158

ELECTRICAL ENGINEER

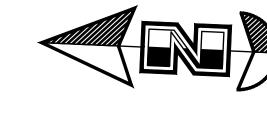
SPECTRUM ENGINEERS
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151 FAX 801.328.5155



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General Notes	T LAKE	
ONTRACTOR(S) WILL FAMILIARIZE THEMSELVES WITH ALL PORTIONS OF THE DRAWINGS, PECIFICATIONS, ADDENDUM AND CHANGE ORDERS THAT PERTAIN TO THEIR WORK. THEY HALL BE HELD RESPONSIBLE FOR ADHERING TO THOSE REQUIREMENTS AND SHALL NOT REPARE ANY BID FROM PARTIAL SETS. ONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES OF KISTING MATERIALS AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ENERATING BID.	SALT	
L WORK SHALL COMPLY STRICTLY WITH THE INTERNATIONAL BUILDING CODE 2015, ND ALL LOCAL CODES AND ORDINANCES. ONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, FALSE WORK, TEMPORARY IRUCTURES, DEBRIS OF ANY NATURE RESULTING FROM THEIR OPERATIONS, AND TO JT CONTRACT AREA IN A NEAT AND ORDERLY CONDITION. RAWINGS ARE NOT TO BE SCALED, DIMENSIONAL DISCREPANCIES SHALL BE CLARIFIED TH THE ARCHITECT.	•	
ONTRACTOR SHALL VERIFY LOCATIONS AND SHALL PROVIDE PROTECTION FOR UTILITIES THIN THE WORK AREA, WHETHER OR NOT INDICATED IN THE DRAWINGS. CONTRACTOR HALL NOTIFY UTILITY COMPANY AND OWNER IMMEDIATELY SHOULD SERVICE BE TERRUPTED. O SUBSTITUTIONS FOR ANY MATERIALS, FINISHES, APPLIANCES, EQUIPMENT ETC. WILL E ACCEPTED UNLESS APPROVED BY THE ARCHITECT. ONTRACTOR IS TO COORDINATE AND SCHEDULE THE PROJECT TO ACCOMMODATE EVIEW, ORDERING AND TIMELY DELIVERY OF MATERIALS, EQUIPMENT AND FINISHES AS OTED ON THE DRAWINGS AND AS SPECIFIED.	ERPONT AVE.	LEY BRANCH IMPROVEMENTS
ONTRACTOR TO COORDINATE LOCATION OF ALL NEW AND RELOCATED ELECTRICAL DRK WITH THE OWNER PRIOR TO INSTALLATION. ITION PLAN NOTES: ONTRACTOR TO VERIFY SALVAGE MATERIAL AND EQUIPMENT WITH OWNER FOR ALL	ST PIERI	AAL LITY EAST
EMOVED AND/OR DEMOLISHED MATERIAL AND EQUIPMENT PRIOR TO COMMENCEMENT OF EMOLITION WORK. ERIFY SCOPE OF WORK IN FIELD PRIOR TO BIDDING. ROTECT FINISH SURFACES TO REMAIN. EMOVE AND RECONFIGURE EXISTING PLUMBING, MECHANICAL, ELECTRICAL, TELEDATA ND SWITCHING AS REQUIRED TO CONFORM WITH THE DESIGN INTENT AND THE SCOPE THE CONTRACT DOCUMENTS.	171 WE	OGDEN SITE AND UTI 131 SOUTH 7400 HUNTSVILLE, UTA
ONTRACTOR TO VERIFY ALL AREAS TO BE DEMOLISHED. DO NOT HOUSE OR SUPPORT KISTING STRUCTURAL, MECHANICAL, ELECTRICAL OR PLUMBING ITEMS THAT WOULD AUSE A LIFE SAFETY RISK TO THE BUILDING OCCUPANTS OR DAMAGE THE BUILDING TRUCTURE, NOR INTERRUPT SERVICE TO THE BUILDING. CONTRACTOR TO NOTIFY THE JILDING OWNER IMMEDIATELY IF SUCH CONDITIONS DO EXIST AND PROVIDE RECAUTIONARY MEASURES AS REQUIRED TO ENSURE LIFE SAFETY AND PROTECTION TO HE EXISTING STRUCTURE AND BUILDING OCCUPANTS.		DRAWN BY: MH PROJECT NO.: 17110
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Legend

Graphic Scale

(Note: All Items may not appear on drawing)

San. Sewer Manhole

Water Manhole

Storm Drain Manhole

Cleanout

Electrical Manhole

Catch Basins

Exist. Fire Hydrant

Fire Hydrant

Fire Department Connection

Post Indicator Valve

Exist. Water Valve

Water Valve

Sanitary Sewer

Culinary Water

Gas Line

Irrigation Line

Storm Drain

Secondary Waterline

Power Line

Fire Land Drain

Gas Line
Irrigation Line
Storm Drain
Telephone Line
Secondary Waterline
Power Line
Fire Line
Land Drain
Power pole
Power pole
Power pole w/guy
Light Pole
Fence
Flowline of ditch
Overhead Power line
Corrugated Metal Pipe
Concrete Pipe
Reinforced Concrete Pipe
Ductile Iron
Polyvinyl Chloride

Reinforced Concrete Pipe RCP
Ductile Iron DI
Polyvinyl Chloride PVC
Top of Asphalt EA
Edge of Asphalt EA
Centerline FL
Finish Floor FF
Top of Curb TC
Top of Wall TWL
Top of Walk TW
Top of Concrete TCN
Natural Ground NG
Finish Grade FG
Match Existing FF
Fire Department Connection FDC
Finish Contour —90—
Exist. Contour —90—
Exist. Grade 95.33TA
Ridge Line — R—
Direction of Flow

Ridge Line
Ridge Line
Direction of Flow

Existing Asphalt

New Asphalt

Heavy Duty Asphalt

Existing Concrete

Spill Curb & Gutter

New Concrete

Demo'd Road Base

Demo Tree

Remain in Place

GENERAL DEMOLITION NOTES:

1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.

2. Refer to site improvement plans for more details on limits of removal.

3. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
4. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown

compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner)

6. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.

7. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.

5. Basements and other excavated areas to be backfilled with clean granular material

the demolition limits.

8. If ASBESTOS is found in existing structures, the Asbestos must be removed in a legal manner by a contractor licensed to handle asbestos materials. (Not a part of contract)

9. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.

10. The location and/or elevation of existing utilities as shown on these plans is based on

records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.

11. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.

12. Contractor shall be responsible for disposal of all waste material. Disposal shall be at

an approved site for such material. Burning onsite is not permitted.
13. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
14. Install traffic warning devices as needed in accordance with local standards.
15. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.

CAUTION NOTICE TO CONTRACTOR

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

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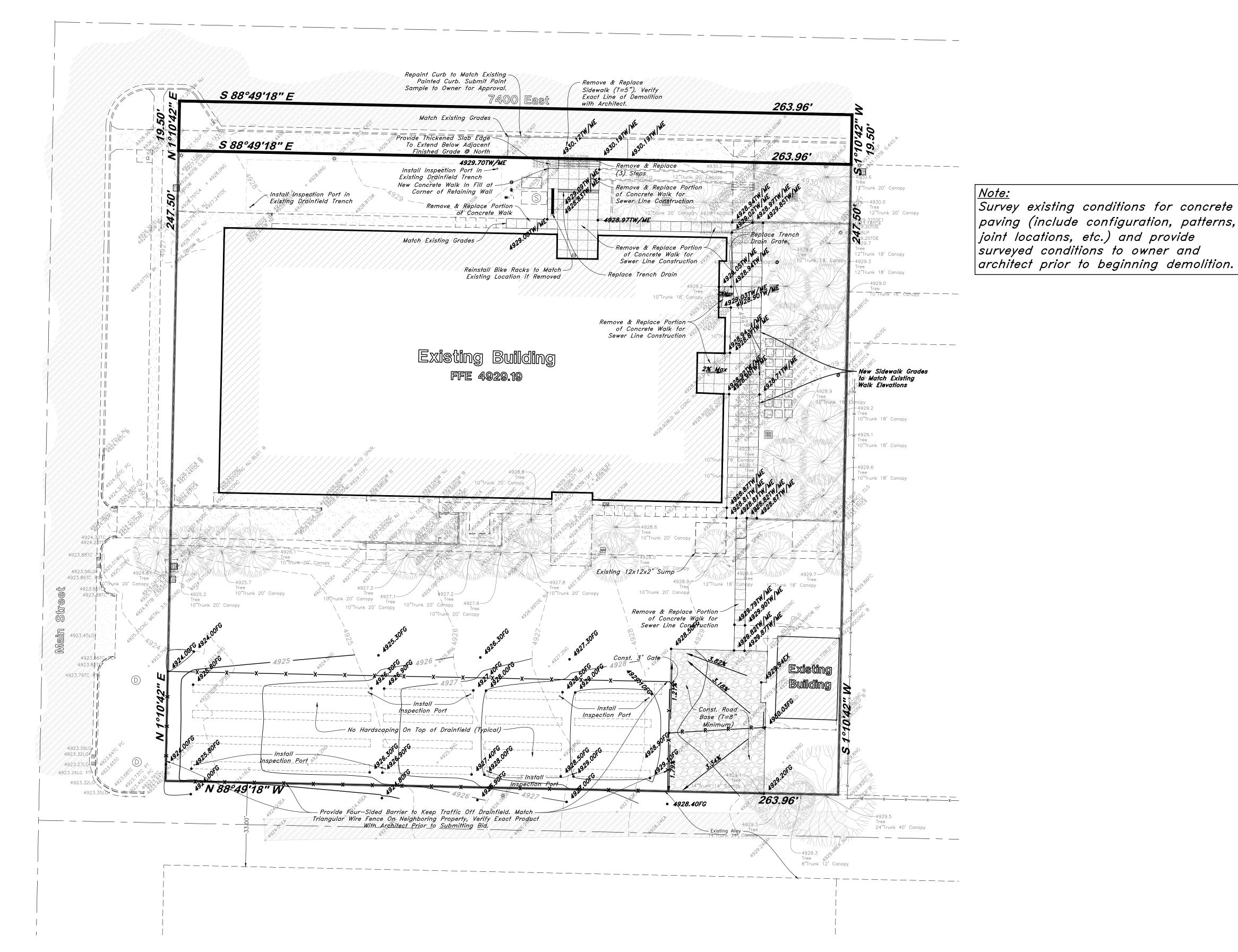
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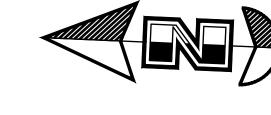
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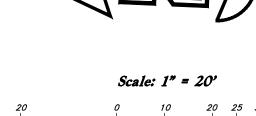
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Legend

Graphic Scale

San. Sewer Manhole Water Manhole Storm Drain Manhole Cleanout Electrical Manhole Catch Basins Exist. Fire Hydrant Fire Hydrant Fire Department Connection Post Indicator Valve Exist. Water Valve Water Valve Sanitary Sewer Culinary Water Irrigation Line
Irrigation Line
Storm Drain
Telephone Line
Secondary Waterline
Power Line
Fire Line
Land Drain
Power pole

Power pole
Power pole w/guy
Light Pole
Fence
Flowline of ditch
Overhead Power line
Corrugated Metal Pipe
Concrete Pipe
Reintic Iron

Reinforced Concrete Pipe RCP
Ductile Iron DI
Polyvinyl Chloride PVC
Top of Asphalt TA
Edge of Asphalt EA
Centerline FL
Finish Floor FF
Top of Curb TC
Top of Wall TWL
Top of Walk TW
Top of Concrete TCN
Natural Ground NG
Finish Grade FG
Match Existing FI
Exist. Contour — 90—
Exist. Contour
Finish Grade 95.337A
Exist. Grade 95.72TA
Ridge Line — R --90--**95.33TA**

Existing Asphalt

Heavy Duty Asphalt Existing Concrete

New Concrete Demo'd Road Base

Spill Curb & Gutter Demo Tree

Tree To Remain in Place

GENERAL GRADING NOTES: All work shall be in accordance with the City Public Works Standard.

Cut slopes shall be no steeper than 2 horizontal to 1 vertical. . Fill slopes shall be no steeper than 2 horizontal to 1 vertical. 4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer. 5. Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill. 6. Fills shall be benched into competent material as per specifications and geotechnical

7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code. 8. Å geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading. 9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the

accuracy of the maximum density curves used by the field technician. 10. Dust shall be controlled by watering. 11. The location and protection of all utilities is the responsibility of the permitee. 12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project. 13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them

as a result of the grading operation. Cleaning is to be done to the satisfaction of the 14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to 15. The contractor shall provide shoring in accordance with OSHA requirements for trench 16. Aggregate base shall be compacted per the geotechnical report prepared for the project.

17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon. 18. The recommendations in the following Geotechnical Engineering Report by AGEC Geotech are included in the requirements of grading and site preparation. The report is titled "PROPOSED PARKING IMPROVEMENTS OGDEN VALLEY BRANCH LIBRARY"

Job No.: 1120969 Address: 131 South 7400 East Huntsville, Utah Dated: August 7, 2013

19. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions. 20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

CURB AND GUTTER CONSTRUCTION NOTES: Open face gutter shall be constructed where drainage is directed away from curb. Open face gutter locations are indicated by shading and notes on site and grading plan. It is the responsibility of the surveyor to adjust top of curb grades at the time

construction staking. 4. Refer to the typical details for a standard and open face curb and gutter for 5. Transitions between open face and standard curb and gutter are to be smooth. Hand

form these areas if necessary.

ADA NOTES: Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routs must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately. The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHAA. PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

1. Stalls designated as handicap will require a painted handicap symbol and sign. (See

3. Aisle markings, directional arrows and stop bars will be painted at each driveway as

4. Building sidewalks, ramps, and bollards are building contractor responsible items. See

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited to

The Contractor agrees that he shall assume sole and complete responsibility for job site

normal working hours; and that the contractor shall defend, indemnify, and hold the owner

and the engineer harmless from any and all liability, real or alleged, in connection with

the performance of work on this project, excepting for liability arising from the sole

2. Fire lane markings and signs to be installed as directed by the Fire Marshall.

5. All dimensions are to back of curb unless otherwise noted.

GENERAL SITE NOTES:

shown on the plans.

architectural plans.

negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

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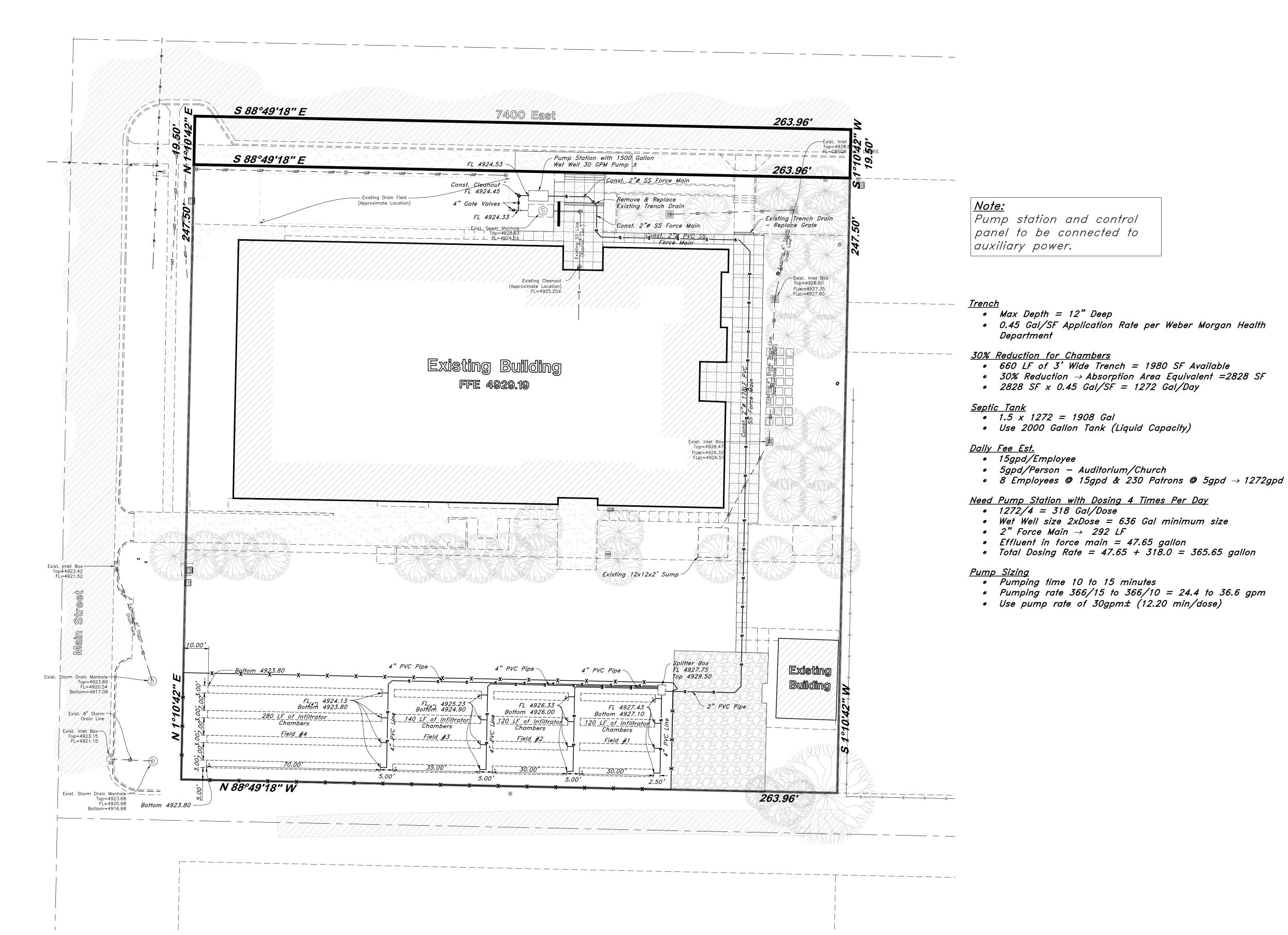
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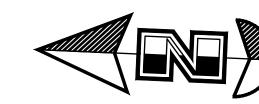
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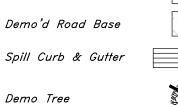
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Legend

San. Sewer Manhole Water Manhole Storm Drain Manhole Cleanout Electrical Manhole Catch Basins Exist. Fire Hydrant Fire Hydrant Fire Department Connection Post Indicator Valve Exist. Water Valve Irrigation Line Storm Drain Telephone Line Secondary Waterline
Power Line
Fire Line
Land Drain Overhead Power line Corrugated Metal Pipe Concrete Pipe Reinforced Concrete Pipe Reintorced Concret Ductile Iron Polyvinyl Chloride Top of Asphalt Edge of Asphalt Centerline Flowline Finish Floor Top of Curb Top of Walk Top of Concrete Natural Ground Natural Ground NG
Finish Grade FG
Match Existing ME
Fire Department Connection FDC
Finish Contour — 90—
Exist. Contour — 90—
Finish Grade 95.72TA
Pidae Line Existing Asphalt Heavy Duty Asphalt





GENERAL UTILITY NOTES:

. Coordinate all utility connections to building with plumbing plans and building contractor. 2. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made. 3. All catch basin and inlet box grates are to be bicycle proof. 4. All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.

Existing Concrete

New Concrete

6. Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise

7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required. 8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is

5. Refer to the site electrical plan for details and locations of electrical lines, transformers and

responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spools to proper grade. 9. Field verify all existing and/or proposed Roof Drain/Roof Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any

10. All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.

UTILITY PIPING MATERIALS:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc. CULINARY SERVICE LATERALS

1. 3/4" to 2" diameter pipe — copper tube ASTM B, Type K, Soft Temper 2. Over 2" diameter pipe — AWWA C—900 Class 150 pipe

WATER MAIN LINES AND FIRE LINES 1. Pipe material as shown on utility plan view or to meet city standards.

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35 2. 12" or larger — Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover,

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet. 1. PLASTIC PIPING MATERIAL: Plastic polyethylene pipe materials and compression couplings must be approved for natural gas applications and must be installed underground. All plastic pipe

and fittings must conform to ASTM D2513 (60 psi and above high density pipe approved 2. Plastic pipe must be joined by individuals qualified in the heat fusion method of connecting pipe and fittings or approved mechanical fittings. A minimum number 18 insulated yellow copper tracer wire shall be installed with underground nonmetallic gas piping and shall terminate above grade at each end. Tracer wire shall not come in contact with plastic

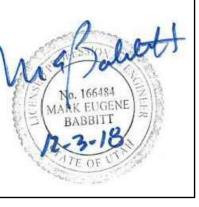
3. Risers and prefabricated risers inserted with plastic pipe shall conform to ASTM D2513, shall be metallic, have a space of 10 inches from the bottom of the service valve and grade, and shall be wrapped or coated to a point at least 6 inches above grade or protected in an approved manner. When a riser connects underground to plastic pipe, the underground horizontal metallic portion of the riser shall extend at least 12 inches before connecting to the plastic pipe by means of an approved transition fitting, adapter or heat fusion.

4. Plastic pipe used underground for customer fuel lines must be approved polyethylene materia and be buried a minimum of 12 inches. It shall not be used inside buildings or above ground. PVC (Polyvinyl Chloride) is not approved for piping systems in Questar Gas's service area. Individual gas lines (metallic or plastic) to single outside appliance (outside lights, arilles etc.) shall be installed a minimum of 8 inches below grade provided such instal is approved and installed in locations not susceptible to physical damage.

CAUTION NOTICE TO CONTRACTOR The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited t normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY



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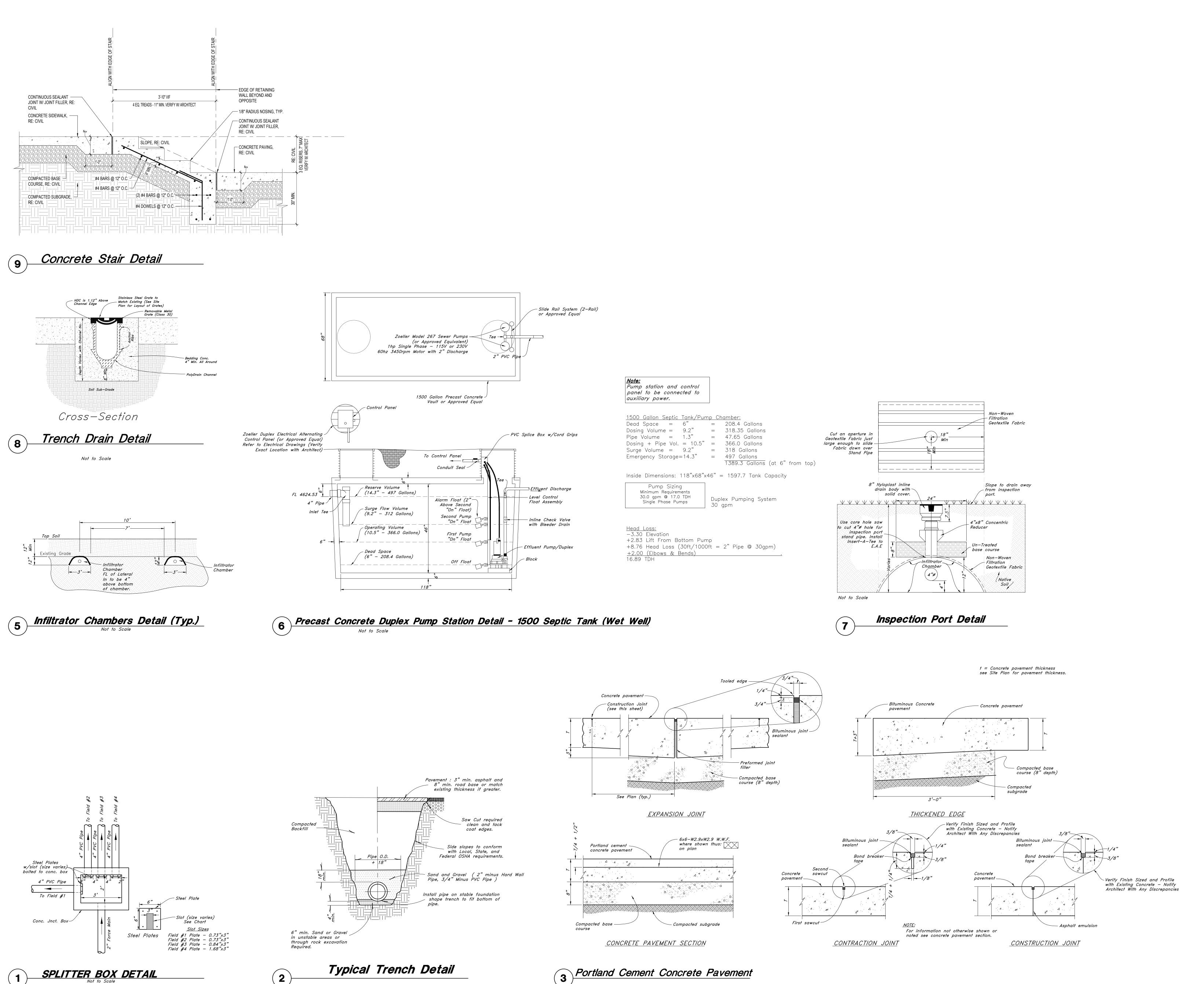
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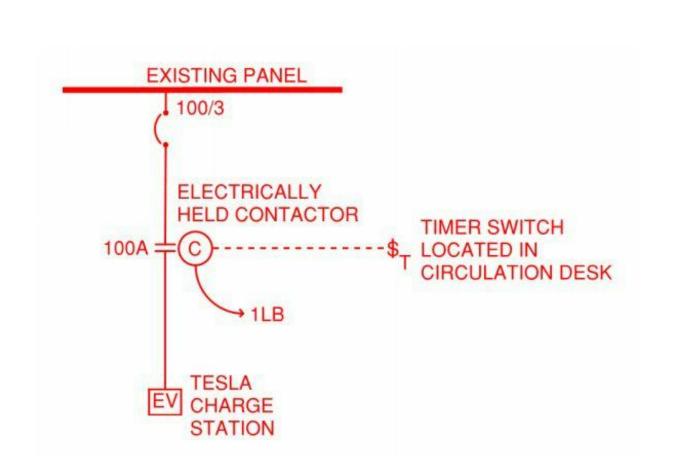
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20/20	08V, 3	PH 4 W	RE 2	2" W >	6" D,	6" D, BOLT-ON 100 AMPERE MAIN LUGS					SURFACE										
CCE	SSOR	IES:	P	ANEL	DIRE	CTORY, IDENTIFICATION, GROU	NDING	BAF	R						AIC	RATI	NG : 0				
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7	20	1				SPARE	0	.0 (0.0					SPA	ARE				1	20	8
9	20	1				SPARE				0.0	0.0			SPA	ARE				1	20	10
11	20	1				SPARE						0.0	0.0	SPA	ARE				1	20	12
OTA	LS:					CONNECTED kVA PER PHA	SE	2	2 0 CONNECTED TOTAL kVA =			VA =	4								
						CONNECTED AMPS PER PHA	SE	17		1	7	2	2	AVERAGE CONNECTED AMPS PER PHASE = 10							
EC [DIVER	SIFIED	OAD	CALC	ULAT	TONS															
LIGH	LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL kVA = 4						4														
			RECI	EPTA(CLES:	-	FIRST	10k	VA @	a @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = 12											
	MOTOR TOTALS INCLLIDED IN ALL OTHER LOADS WITH																				
ALL OTHER LOADS @ 100% : 4.2 kVA - LARGEST MOTOR CALCULATED @ 125% PER NEC																					

	SYMBOLS LEGEND
SYMBOL	DESCRIPTION
REFERENC	CE AND LINE SYMBOLS
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING ME	ETHODS
	WIRING.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
Ф	JUNCTION BOX.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.



1 TESLA EV TIMER SWITCH

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

ITEM DESCRIPTION

DUPLEX PUMP

DUPLEX PUMP

EQUIPMENT SCHEDULE KEY

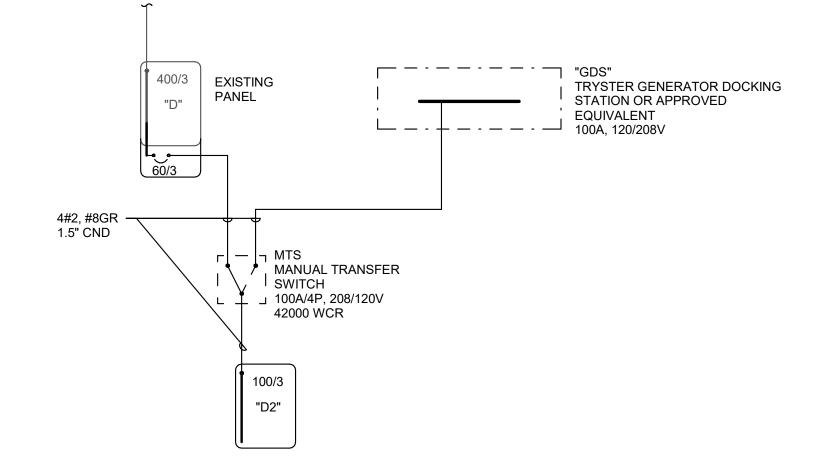
MARK QTY

P-1a

P-1b

E - FURNISHED BY ELECTRICAL

Q - FURNISHED WITH EQUIPMENT



DISCONNECT

30A/2P

NF

30A/2P

DEVICE LOCATION BY DEVICE LOCATION BY DEVICE SIZES SWITCH

ADJ TO

EQUIP

ADJ TO

EQUIP

Q

Q FVNR



1. NEMA 3R

LOAD DATA

8.8 | 208 | 1

8.8 | 208 | 1 | 60

HP | kW | MCA | FLA | T | PH

PARTIAL ONE-LINE DIACEANA (2) SCALE: NTS

OVERCURRENT

20/2

CB

20/2

CB

WIRE AND

CONDUIT SIZE

2 #12, #12 GR

0.75" CND

2 #12, #12 GR 0.75" CND

FURN

BY

PROTECTION

TIAL ONE-LINE DIAGRAM	

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
REFERENC	CE AND LINE SYMBOLS
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING ME	ETHODS
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF

AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING	MCC	MOTOR CONTROL CENTER
	CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MG	MOTOR GENERATOR
ANN	ANNUNCIATOR	MH	MANHOLE
AP	ACCESS POINT (WIRELESS	MIN	MINIMUM
	DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT
ASC	AMPS SHORT CIRCUIT	I WOO!	PROTECTION
		NIA	
ATS	AUTOMATIC TRANSFER SWITCH	NA	NOT APPLICABLE
		NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIOANL ELECTRICAL
BB	BUCK-BOOST TRANSFORMER		MANUFACTURERS
XFMR			ASSOCIATION
С	CEILING MOUNTED	NFC	NATIONAL FIRE CODE
CATV	COMMUNITY ANTENNA	NFPA	NATIONAL FIRE PROTECTION
CAIV	TELEVISION	1911 7	ASSOCIATION
0.0		.	
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED	NL	NIGHT LIGHT
	BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/	oc	ON CENTER
	CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
CF/OI	CONTRACTOR FURNISHED/		
01701	OWNER INSTALLED	OF/CI	OWNER FURNISHED/
CFBA	CUSTOM FINISH AS SELECTED		CONTRACTOR INSTALLED
CFBA	BY ARCHITECT	OF/OI	OWNER FURNISHED/ OWNER
0.7			INSTALLED
CKT	CIRCUIT	OFP	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OH DR	OVERHEAD (COILING) DOOR
CND	CONDUIT	OL	OVERLOAD
co	CONVENIENCE OUTLET		
COR	CONTRACTING OFFICER'S	PB	PUSHBUTTON
0010	REPRESENTATIVE	PF	POWER FACTOR
CP	CONTROL PANEL	PH	PHASE
_		PNL	PANEL
CT	CURRENT TRANSFORMER	PT	POTENTIAL TRANSFORMER
CTV	CABLE TELEVISION	PTZ	PAN/TILT/ZOOM
CU	COPPER		
dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE, DOUBLE	R	REMOVE
5, 5,	THROW	RCP	REFLECTED CEILING PLAN
DS	DISCONNECT SWITCH	RMC	RIGID METAL CONDUIT
		RNC	RIGID NONMETAL CONDUIT
EA	EACH	RPM	REVOLUTIONS PER MINUTE
EM	EMERGENCY	RR	REMOVE AND RELOCATE
EMT	ELECTRICAL METALLIC TUBING		
ENT	ELECTRIC NONMETALLIC	S/S	START/STOP
	TUBING	SCA	SHORT CIRCUIT AMPS
EPO	EMERGENCY POWER OFF	SCBA	STANDARD COLOR AS
EQUIP	EQUIPMENT		SELECTED BY ARCHITECT
		SF	SQUARE FOOT (FEET)
EX	EXISTING	SFBA	STANDARD FINISH AS
F	FURNITURE MOUNTED	0.5/	SELECTED BY ARCHITECT
FA	FIRE ALARM	SPD	SURGE PROTECTIVE DEVICE
FCP	FIRE ALARM CONTROL PANEL		
FLA	FULL LOAD AMPS	SPDT	SINGLE POLE, DOUBLE THROW
FMC	FLEXIBLE METAL CONDUIT	SPEC	SPECIFICATION
		SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	ST	SINGLE THROW
FVNR	FULL VOLTAGE	SWBD	SWITCHBOARD
	NON-REVERSING		
FVR	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR
G	GROUND	TL	TWIST LOCK
GEN	GENERATOR	TP	TELEPHONE POLE
GFCI	GROUND FAULT INTERRUPTER	TP	TWISTED PAIR
		l ttb	TELEPHONE TERMINAL BOARD
GFP	GROUND FAULT PROTECTION	TV	TELEVISION
HD	HEAVY DUTY	TVCC	TRANSIENT VOLTAGE SURGE

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

kV KILOVOLT

kW KILOWATT

LTG LIGHTING

MAX MAXIMUM

MC METAL CLAD

LV LOW VOLTAGE

SYSTEM

MCA MINIMUM CIRCUIT AMPS

MCB MAIN CIRCUIT BREAKER

kVA KILOVOLT AMPERE

kWh KILOWATT HOUR

CONDUIT

LED LIGHT EMITTING DIODE

LFNC LIQUID TIGHT FLEXIBLE

LPS LOW PRESSURE SODIUM

LRA LOCKED ROTOR AMPS

kVAR KILOVOLT AMPERE REACTIVE

LFMC LIQUID TIGHT FLEXIBLE METAL

NONMETALLIC CONDUIT

MATV MASTER ANTENNA TELEVISION

SINGLE POLE

2/C TWO-CONDUCTOR

3/C THREE-CONDUCTOR

40UT QUADRUPLE RECEPTACLE

4PDT FOUR-POLE DOUBLE THROW

4PST FOUR-POLE SINGLE THROW

ABOVE COUNTER

ARMORED CABLE

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

HORSE POWER

HIGH VOLTAGE

INPUT/ OUTPUT

ISOLATED GROUND

INTERMEDIATE METAL

NORMALLY NORMALLY PHASE

LAMP CONTACT CONTACT

CLOSED FAILURE

YES

YES

HERTZ

CONDUIT

IR INFRARED

STARTER

SELECTOR PILOT OPEN

J-BOX JUNCTION BOX

IN/IS INSULATED/ ISOLATED

HIGH INTENSITY DISCHARGE

TYPICAL

SUPPLY

VOLTS

WITH

WP WEATHERPROOF

XFMR TRANSFORMER

W/O WITHOUT

VA VOLT AMPERE

UPS UNINTERRUPTIBLE POWER

CONTROLLER

VFC/VF VARIABLE FREQUENCY MOTOR

WCL - OGDEN VALLEY BRANCH

MARK

P-1b

HAND-OFF-AUTOMATIC

HIGH POWER FACTOR

HIGH PRESSURE SODIUM

ADA AMERICANS WITH DISABILITIES

1WAY ONE-WAY

2WAY TWO-WAY

3WAY THREE-WAY

4W FOUR-WIRE

4WAY FOUR-WAY

ADJ ADJACENT

SINGLE-PHASE

EE001 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES ES101 ELECTRICAL SITE PLAN EP101 LEVEL 1 POWER PLAN EVICE THROW HROW BOARD TRANSIENT VOLTAGE SURGE SUPPRESSER UNDERFLOOR UGND UNDERGROUND

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS." PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY

2

91

52

LL.

9

52

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UTAH

CITY,

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四 迈

AVE

PIERPONT

171

ARCHITECT

SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

GENERAL ELECTRICAL NOTES

THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS,

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE

CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

ELECTRICAL SHEET INDEX

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE

THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION,

AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE

OPERATIONS THEY ARE ENGAGED TO PERFORM. SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

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