

# WEBER COUNTY LIBRARY - OGDEN VALLEY BRANCH

## PHASE 2 IMPROVEMENTS

131 SOUTH 7400 EAST HUNTSVILLE, UTAH

BID PACKAGE #2  
06.13.2019

OWNER  
WEBER COUNTY LIBRARY  
2039 WEST 4000 SOUTH  
ROY, UT 84067  
801.337.2618 FAX 801.337.2615

ARCHITECT  
PRESCOTT MUIR ARCHITECT  
171 WEST PIERPONT AVENUE  
SALT LAKE CITY, UT 84101  
801.521.9111 FAX 801.521.9158

CIVIL ENGINEER  
GREAT BASIN ENGINEERING  
ATTN: MARK E. BARBITT  
5746 SOUTH 1475 EAST  
OGDEN, UTAH 84403  
801.394.4515

LANDSCAPE ARCHITECT  
ARCSITIO  
ATTN: RICHARD GILBERT  
1058 EAST 2100 SOUTH  
SALT LAKE CITY, UT 84106  
801.487.4923

STRUCTURAL ENGINEER  
ARW ENGINEERS  
ATTN: MCKAY PARRISH  
1594 PARK CIRCLE  
OGDEN, UT 84404  
801.782.6008

MECHANICAL ENGINEER  
SPECTRUM ENGINEERS  
ATTN: BENJAMIN SCHLUP  
324 SOUTH STATE STREET, SUITE 400  
SALT LAKE CITY, UT 84111  
801.328.5151

ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
ATTN: TYLER SQUIRE  
324 SOUTH STATE STREET, SUITE 400  
SALT LAKE CITY, UT 84111  
801.328.5151



VICINITY PLAN

NOT TO SCALE

SYMBOLS			
	INDICATES WALL TYPE		WINDOW NUMBER
	DOOR NUMBER		INDICATES GLASS TYPE
	INDICATES ELEVATION NO. INDICATES PAGE NO.		DIMENSION TO FACE OF GYP. BD., CONC. OR MASONRY
	INDICATES OBJECT INDICATES ELEVATION		DIMENSION TO CENTER LINE
	INDICATES FINISHED FLOOR TYPE		RIGID INSULATION
	INDICATES GRID NUMBER		BATT INSULATION
	KEYNOTE		FINISHED WOOD
	INDICATES ROOM NAME INDICATES ROOM NUMBER		BLOCKING
	REVISIONS		CONTINUOUS WOOD
	INDICATES SECTION NO. INDICATES PAGE NO.		METAL OR METAL STUDS
	INDICATES DETAIL NO. INDICATES PAGE NO.		WOOD WALL
	GLAZED MASONRY WALL		MASONRY WALL

ABBREVIATIONS			
A.B.	ANCHOR BOLT	HDR.	HEADER
A.C.	ASPHALTIC CONCRETE	INT.	INTERIOR
ADJ.	ADJUSTABLE	M.O.	MASONRY OPENING
B.O.	BOTTOM OF	M.R.	MOISTURE RESISTANT
C.B.	CATCH BASIN	N.I.C.	NOT IN CONTRACT
C.J.	CONTROL JOINT	OPP.	OPOSITE
CONC.	CONCRETE	P.C.J.	PLASTER CONSTRUCTION JOINT
CONT.	CONTINUOUS	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN AND FINISH SYSTEM	S.M.	SIMILAR
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	S.N.D.	SANITARY NAPKIN DISPOSAL STL
E.J.	EXPANSION JOINT	S.S.	STAINLESS STEEL
EL.	ELEVATION	T.A.	TOP OF ASPHALT
EQ.	EQUAL	T.G.	TOP OF GRATE
EXIST.	EXISTING	T.W.	TOP OF WALK
EXT.	EXTERIOR	T.O.C.	TOP OF CONCRETE
F.D.	FLOOR DRAIN	T.O.M.	TOP OF MASONRY
F.F.	FINISH FLOOR	T.O.S.	TOP OF STEEL
F.O.	FACE OF	T.O.W.	TOP OF WALL
F.O.M.	FACE OF MASONRY	TYP.	TYPICAL
F.S.R.	FLEXIBLE SHEET ROOFING	VIF.	VERIFY IN FIELD
F.T.	FIRE TREATED	U.N.O.	UNLESS OTHERWISE NOTED
GYP.BD.	GYP. BOARD	W/	WITH

INDEX OF DRAWINGS	
NO.	SHEET TITLE
PHASE 2: BID PACKAGE #2	
CIVIL	
C1	DEMOLITION PLAN
C2	SITE AND GRADING PLAN
C3	UTILITY PLAN
C4	DETAIL SHEET
ELECTRICAL	
EED 1	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EP1.1	FIRST LEVEL POWER PLAN
EP1.2	PAVILION POWER PLAN
EL1.1	FIRST LEVEL LIGHTING PLAN
EL1.2	PAVILION LIGHTING PLAN

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WEBER COUNTY LIBRARY  
OGDEN VALLEY BRANCH  
PHASE 2 IMPROVEMENTS  
131 SOUTH 7400 EAST HUNTSVILLE, UTAH

PROJECT NO.: 17110

DATE: 06.13.2019 PHASE: 1

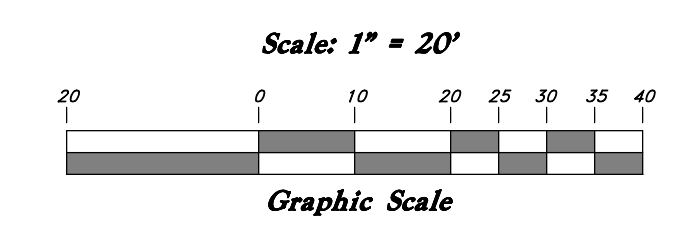
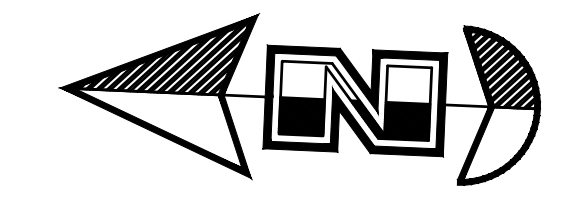
DRAWN BY: MH

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SHEET NO. T1

TITLE SHEET

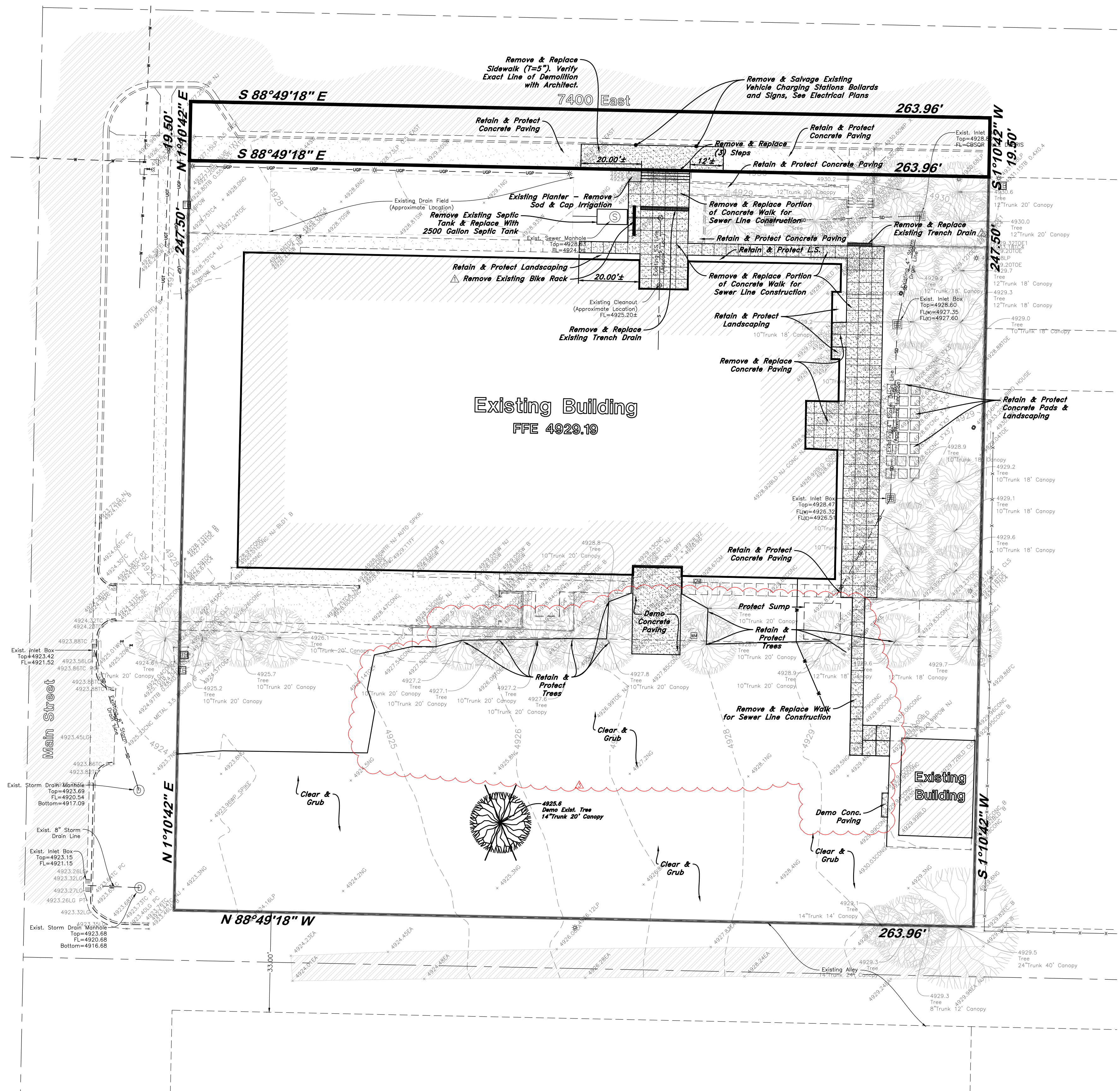




### Legend

(Note: All items may not appear on drawings)

San. Sewer Manhole	⊙
Water Manhole	⊙
Storm Drain Manhole	⊙
Cleanout	⊙
Electrical Manhole	⊙
Catch Basin	⊙
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	⊙
Telephone Line	⊙
Secondary Waterline	⊙
Power Line	⊙
Fire Line	⊙
Land Drain	⊙
Power pole w/guy	⊙
Light Pole	⊙
Fence	⊙
Flowline of ditch	⊙
Overhead Power line	⊙
Corrugated Metal Pipe	⊙
Reinforced Concrete Pipe	⊙
Cast Iron	⊙
Polyvinyl Chloride	⊙
Top of Asphalt	⊙
Edge of Asphalt	⊙
Centerline	⊙
Flowline	⊙
Finish Floor	⊙
Top of Curb	⊙
Top of Wall	⊙
Top of Walk	⊙
Top of Concrete	⊙
Natural Ground	⊙
Finish Grade	⊙
Match Existing	⊙
Fire Department Connection	⊙
Finch Contour	⊙
Exist. Contour	⊙
Finch Grade	⊙
Exist. Grade	⊙
Ridge Line	⊙
Direction of Flow	⊙
Existing Asphalt	⊙
New Asphalt	⊙
Heavy Duty Asphalt	⊙
Existing Concrete	⊙
New Concrete	⊙
Demo'd Road Base	⊙
Spill Curb & Gutter	⊙
Demo Tree	⊙
Tree To Remain in Place	⊙



**Note:**  
Survey existing conditions for concrete paving (include configuration, patterns, joint locations, etc.) and provide surveyed conditions to owner and architect prior to beginning demolition.

- GENERAL DEMOLITION NOTES:**
- Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
  - Refer to site improvement plans for more details on limits of removal.
  - 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.
  - 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.
  - Excavations and other excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner)
  - Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
  - DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
  - 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)
  - Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
  - 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.
  - 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.
  - Contractor shall be responsible for disposal of all waste material. Disposal shall be on an approved site for such material. Burning onsite is not permitted.
  - Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
  - Install traffic warning devices as needed in accordance with local standards.
  - 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 proposed improvements shown on the plans.

**PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**

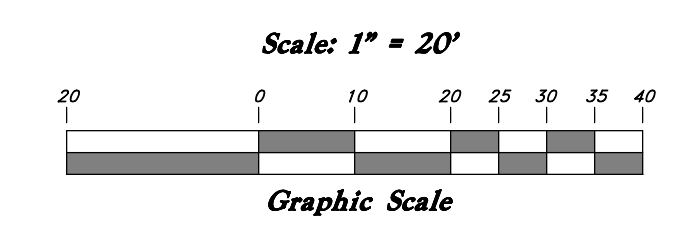
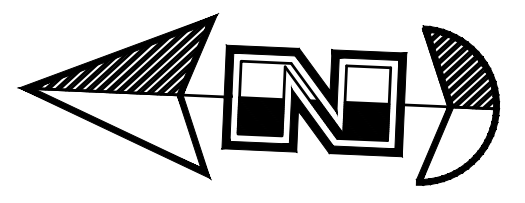
The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the 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

171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101  
 PRESCOTT MUIR ARCHITECT  
 OGDEN VALLEY BRANCH LIBRARY  
 SITE AND UTILITY IMPROVEMENTS  
 131 SOUTH 7400 EAST  
 HUNTSVILLE, UTAH

DATE: 12/07/18  
 SHEET NO: C1  
 PROJECT NO: 12092  
 01.23.19 ADDENDUM 1  
 06.13.19 PHASE 2  
 DEMOLITION PLAN



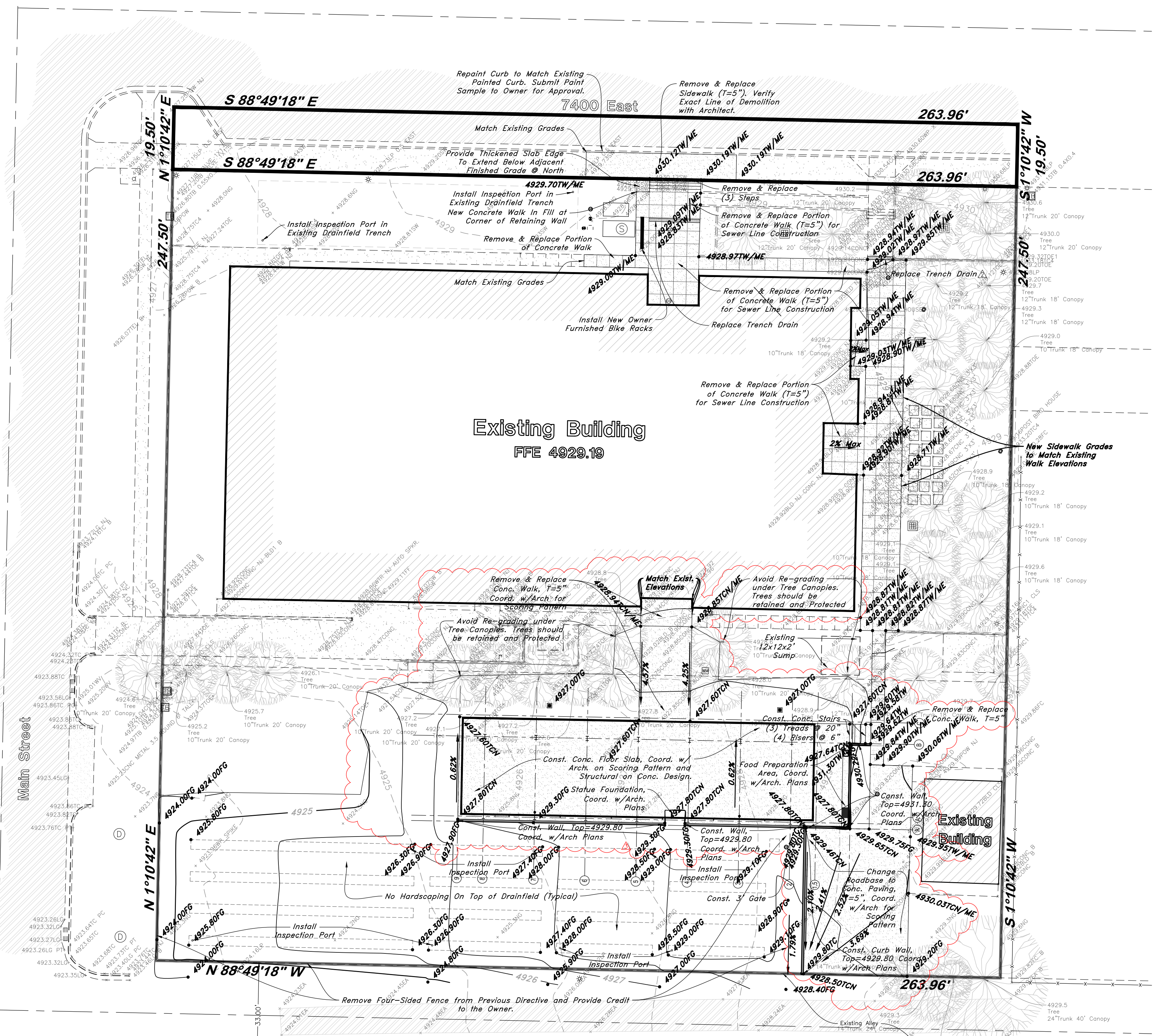


### Legend

(Note: All items may not appear on drawings)

- San. Sewer Manhole
  - Water Manhole
  - Storm Drain Manhole
  - Cleanout
  - Electrical Manhole
  - Catch Basin
  - Exist. Fire Hydrant
  - Fire Department Connection
  - Post Indicator Valve
  - Exist. Water Valve
  - Water Valve
  - Culinary Sewer
  - Irrigation Line
  - Storm Drain
  - Telephone Line
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  - Power Line
  - Fire Line
  - Land Drain
  - 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
  - Edge of Asphalt
  - Centerline
  - Flowline
  - Finish Floor
  - Top of Curb
  - Top of Wall
  - Top of Walk
  - Top of Concrete
  - Natural Ground
  - Finish Grade
  - Match Existing
  - Fire Department Connection
  - Exist. Contour
  - Exist. Grade
  - Ridge Line
  - Direction of Flow
- 
- Existing Asphalt
  - New Asphalt
  - Heavy Duty Asphalt
  - Existing Concrete
  - New Concrete
  - Demo'd Road Base
  - Spill Curb & Gutter
  - Demo Tree
  - Tree To Remain in Place

**Note:**  
Survey existing conditions for concrete paving (include configuration, patterns, joint locations, etc.) and provide surveyed conditions to owner and architect prior to beginning demolition.



- GENERAL GRADING NOTES:**
- All work shall be in accordance with the City Public Works Standards.
  - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
  - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
  - Fill shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
  - Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
  - Fill shall be benching into competent material as per specifications and geotechnical report.
  - All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
  - A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
  - The final composition 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 no soled for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
  - Dust shall be controlled by watering.
  - The location and protection of all utilities is the responsibility of the permittee.
  - Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
  - 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 city engineer.
  - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
  - The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
  - Aggregate base shall be compacted per the geotechnical report prepared for the project.
  - Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
  - 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

Date: 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.
  - Refer to the typical details for a standard and open face curb and gutter for dimensions.
  - 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 routes 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 TDM.

**PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**

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- GENERAL SITE NOTES:**
- Stalls designated as handicap will require a pointed handicap symbol and sign. (See details)
  - Fire line markings and signs to be installed as directed by the Fire Marshall.
  - Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
  - Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
  - All dimensions are to back of curb unless otherwise noted.

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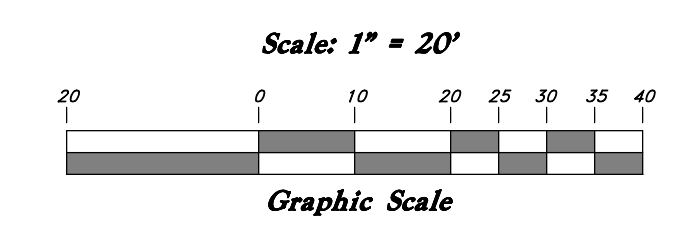
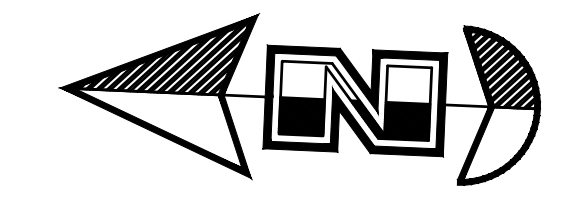
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SITE AND UTILITY IMPROVEMENTS  
131 SOUTH 7400 EAST  
HUNTSVILLE, UTAH

DATE: 12/07/18  
01/25/19 ADDENDUM 1  
06/13/19 PHASE 2

SHEET NO: C2

SITE AND GRADING PLAN



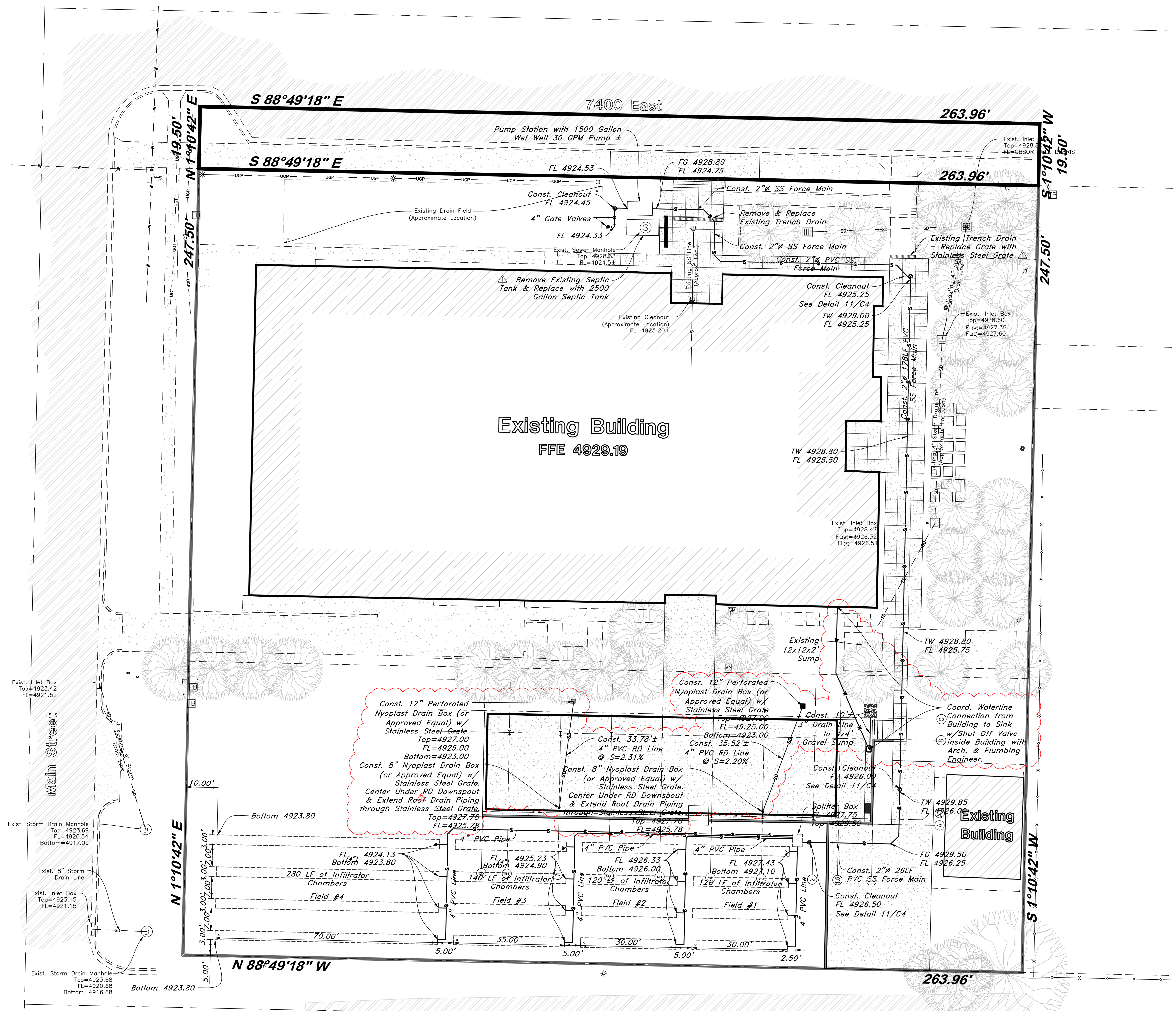


### Legend

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- Edge of Asphalt
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- Finish Floor
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- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finist Contour
- Exist. Contour
- Exist. Contour
- Exist. Grade
- Ridge Line
- Direction of Flow

Tree To Remain in Place



**Note:**  
Pump station and control panel to be connected to auxiliary power.

- Trench**
- Max Depth = 12" Deep
  - 0.45 Gal/SF Application Rate per Weber Morgan Health Department
- 30% Reduction for Chambers**
- 660 LF of 3' Wide Trench = 1980 SF Available
  - 30% Reduction → Absorption Area Equivalent = 2828 SF
  - 2828 SF x 0.45 Gal/SF = 1272 Gal/Day
- Septic Tank**
- 1.5 x 1272 = 1908 Gal
  - Use 2000 Gallon Tank (Liquid Capacity)
- Daily Fee Est.**
- 15gpd/Employee
  - 5gpd/Person - Auditorium/Church
  - 8 Employees @ 15gpd & 230 Patrons @ 5gpd → 1272gpd
- Need Pump Station with Dosing 4 Times Per Day**
- 1272/4 = 318 Gal/Dose
  - Wet Well size 2xDose = 636 Gal minimum size
  - 2" Force Main → 292 LF
  - Effluent in force main = 47.65 gallon
  - Total Dosing Rate = 47.65 + 318.0 = 365.65 gallon
- Pump Sizing**
- Pumping time 10 to 15 minutes
  - Pumping rate 366/15 to 366/10 = 24.4 to 36.6 gpm
  - Use pump rate of 30gpm ± (12.20 min/dose)

- GENERAL UTILITY NOTES:**
- Coordinate all utility connections to building with plumbing plans and building contractor. 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.
  - All catch basin and inlet box grates are to be bicycle proof.
  - 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.
  - Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
  - Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
  - Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
  - Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is 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.
  - 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 discrepancies.
  - 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**
- 3/4" to 2" diameter pipe - copper tube ASTM B, Type K, Soft Temper
  - Over 2" diameter pipe - AWWA C-900 Class 150 pipe
- WATER MAIN LINES AND FIRE LINES**
- Pipe material as shown on utility plan view or to meet city standards.
- SANITARY SEWER LINES**
- All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35
- STORM DRAIN LINES**
- 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
  - 12" or larger - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, 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.
- NATURAL GAS SERVICE LATERALS (QUESTAR)**
- 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 3408).
  - 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 piping.
  - 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 8 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.
  - Plastic pipe used underground for customer fuel lines must be approved polyethylene material 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, grilles, etc.) shall be installed a minimum of 8 inches below grade, provided such installation is approved and installed in locations not susceptible to physical damage.

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

171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101  
 PRESCOTT MUIR ARCHITECT

UTILITY PLAN

OGDEN VALLEY BRANCH LIBRARY  
 SITE AND UTILITY IMPROVEMENTS  
 131 SOUTH 7400 EAST  
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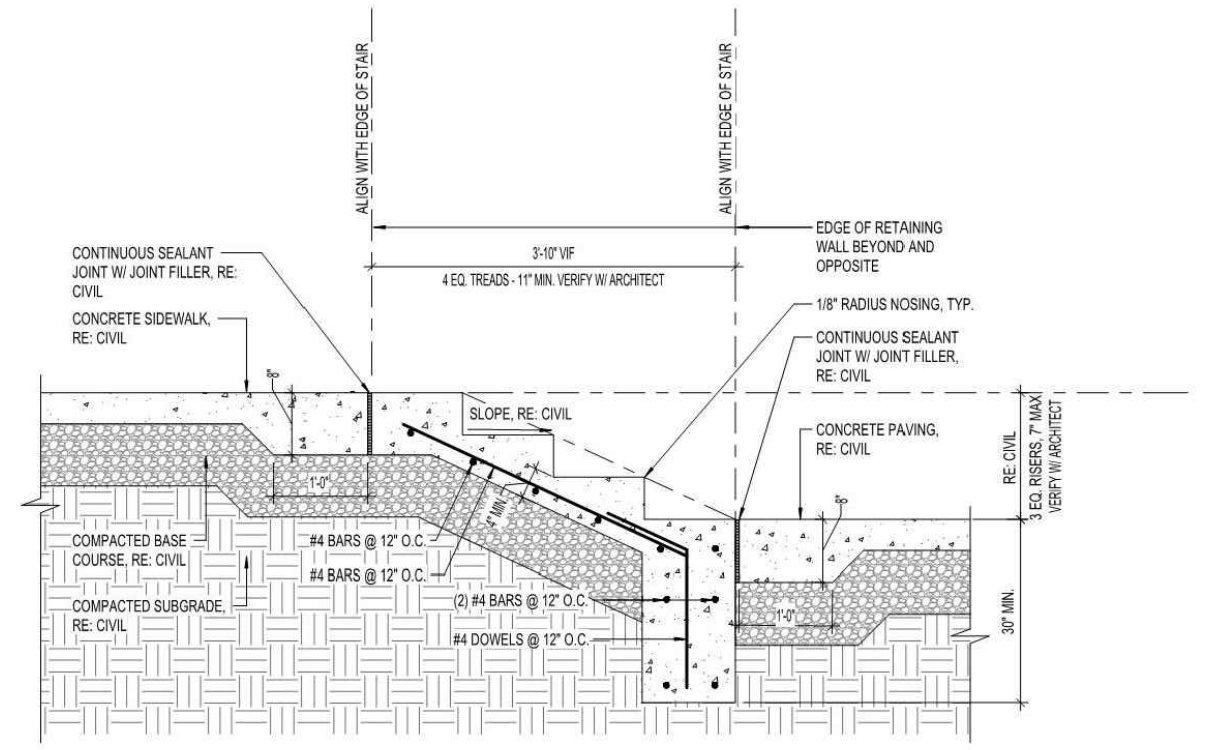
DATE: 12/07/18  
 01/25/19 ADDENDUM 1  
 06/13/19 PHASE 2

SHEET NO: C3  
 PROJECT NO: 17092

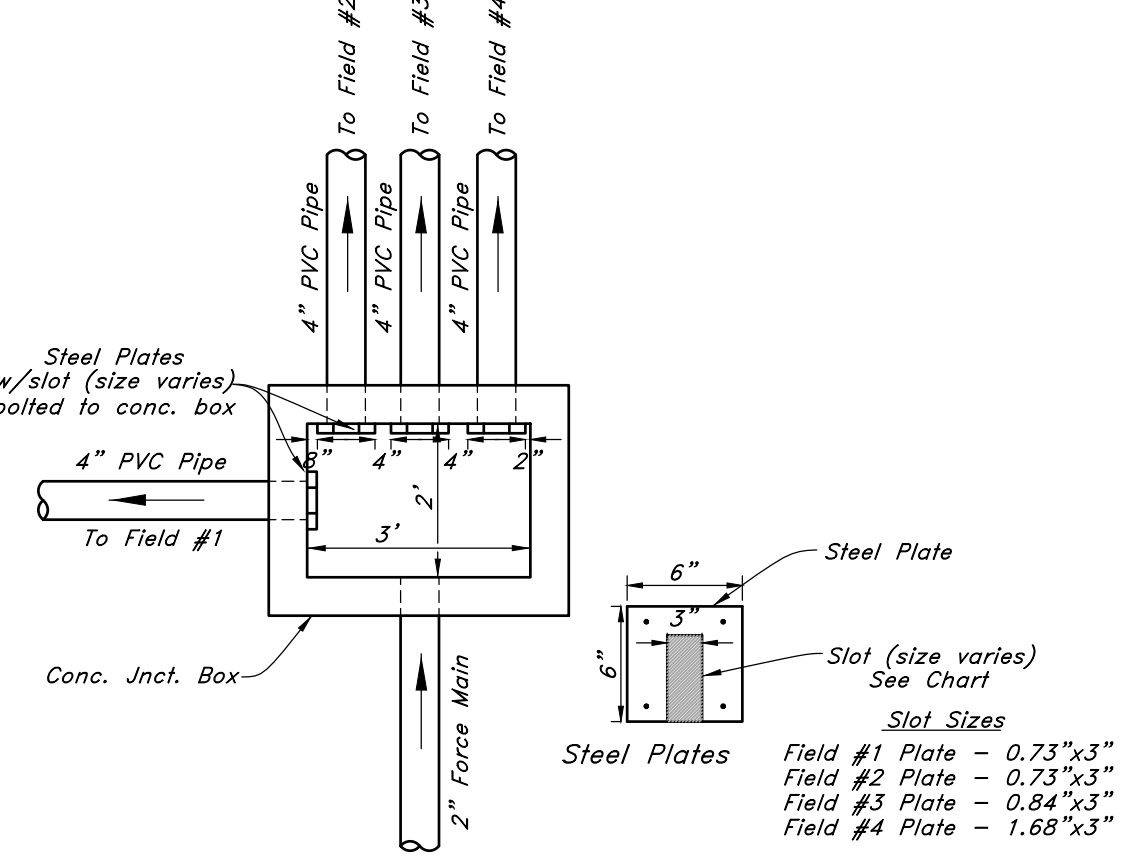




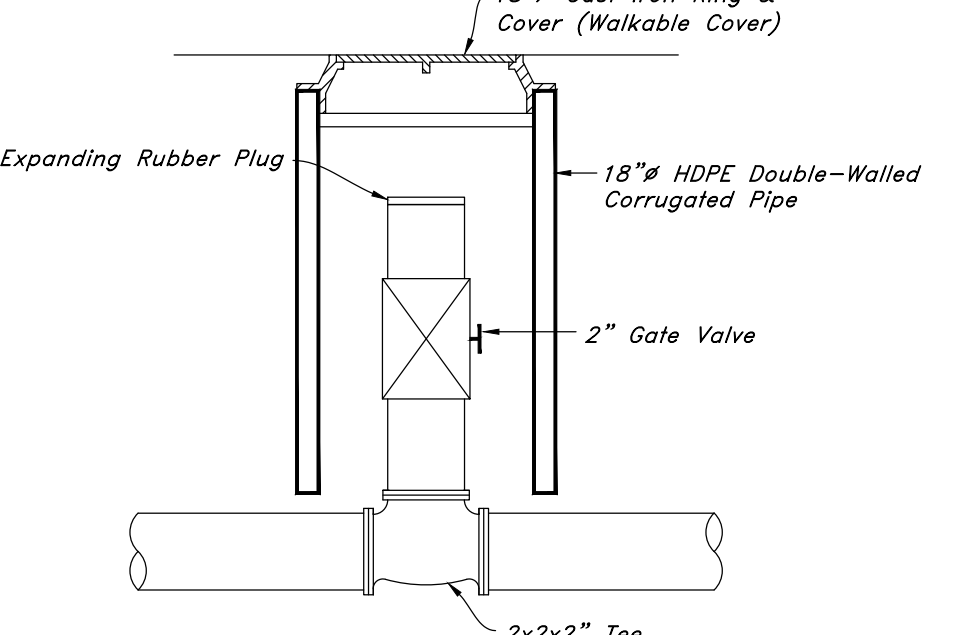
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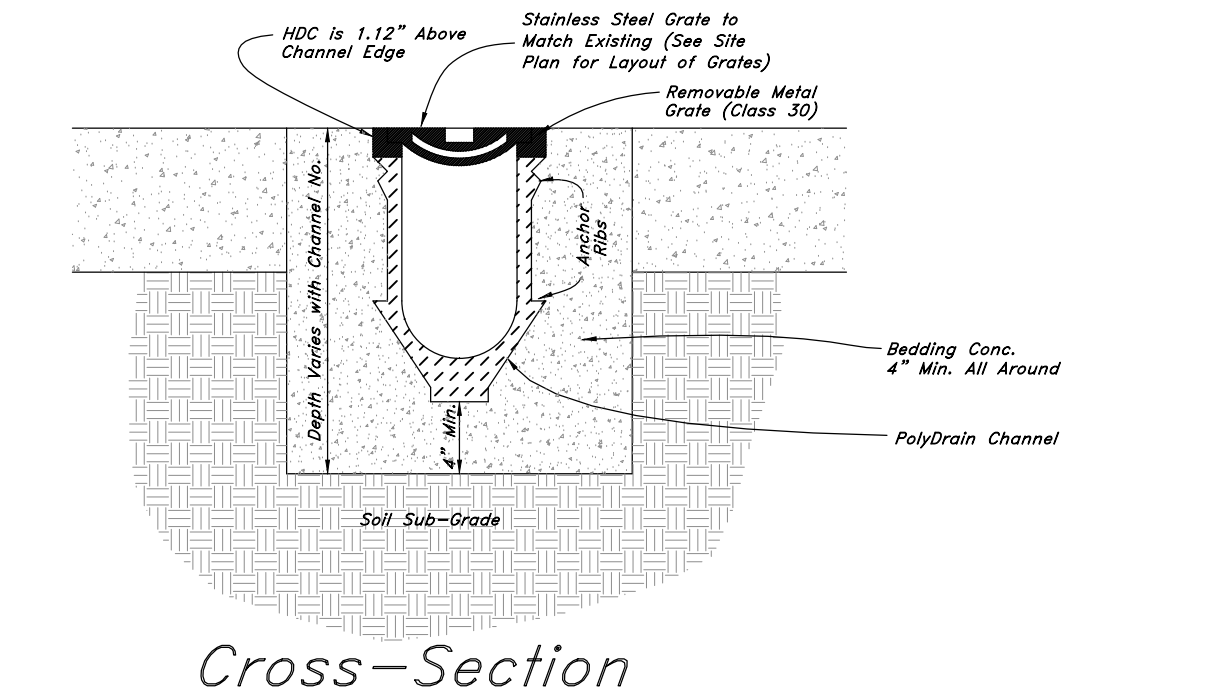
9 Concrete Stair Detail  
Not to Scale



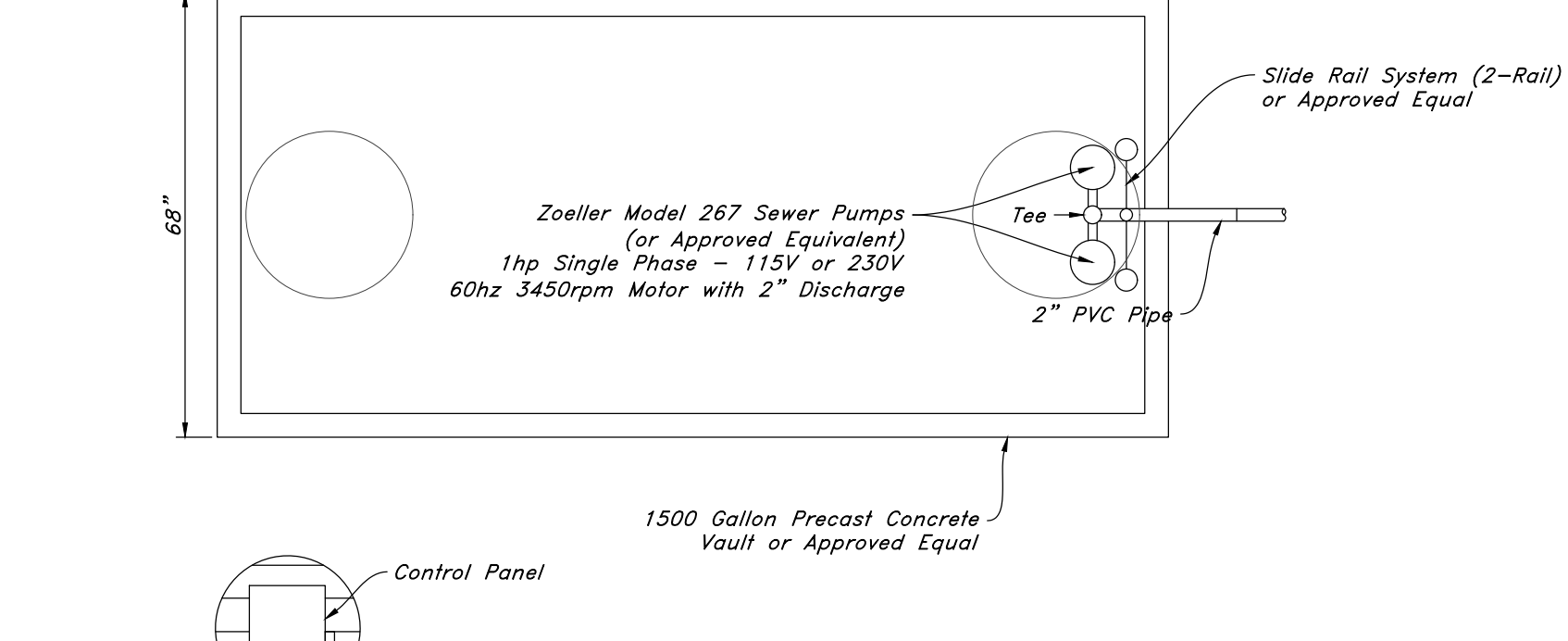
10 SPLITTER BOX DETAIL  
Not to Scale



11 Force Main Sewer Cleanout Detail  
NOT TO SCALE



8 Trench Drain Detail  
Not to Scale



6 Precast Concrete Duplex Pump Station Detail - 1500 Septic Tank (Wet Well)  
Not to Scale

**Note:**  
Pump station and control panel to be connected to auxiliary power.

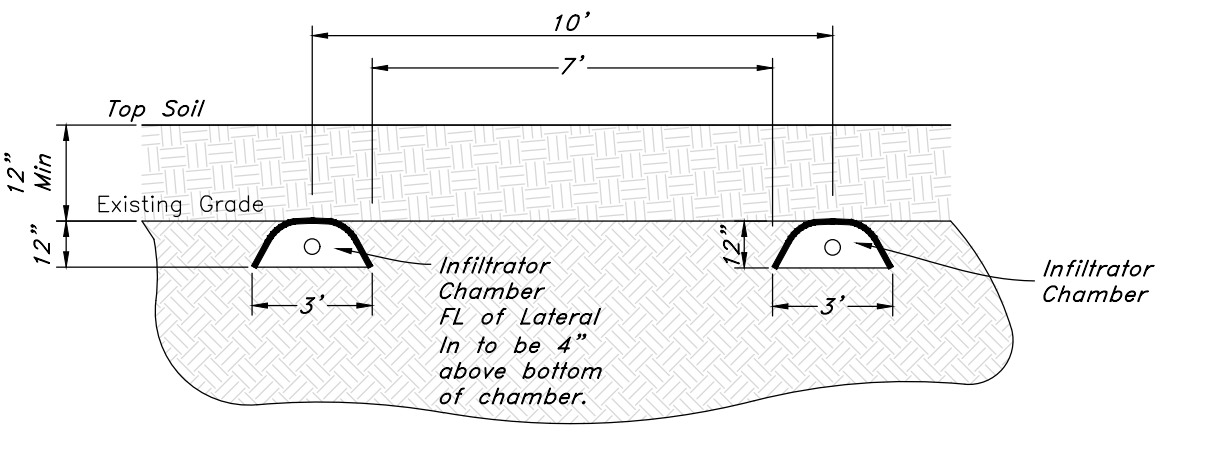
1500 Gallon Septic Tank/Pump Chamber:  
Dead Space = 6" = 208.4 Gallons  
Dosing Volume = 9.2" = 318.35 Gallons  
Pipe Volume = 1.3" = 47.65 Gallons  
Dosing + Pipe Vol. = 10.5" = 366.0 Gallons  
Surge Volume = 9.2" = 318 Gallons  
Emergency Storage = 14.3" = 497 Gallons  
1389.3 Gallons (at 6" from top)

Inside Dimensions: 118"x68"x46" = 1597.7 Tank Capacity

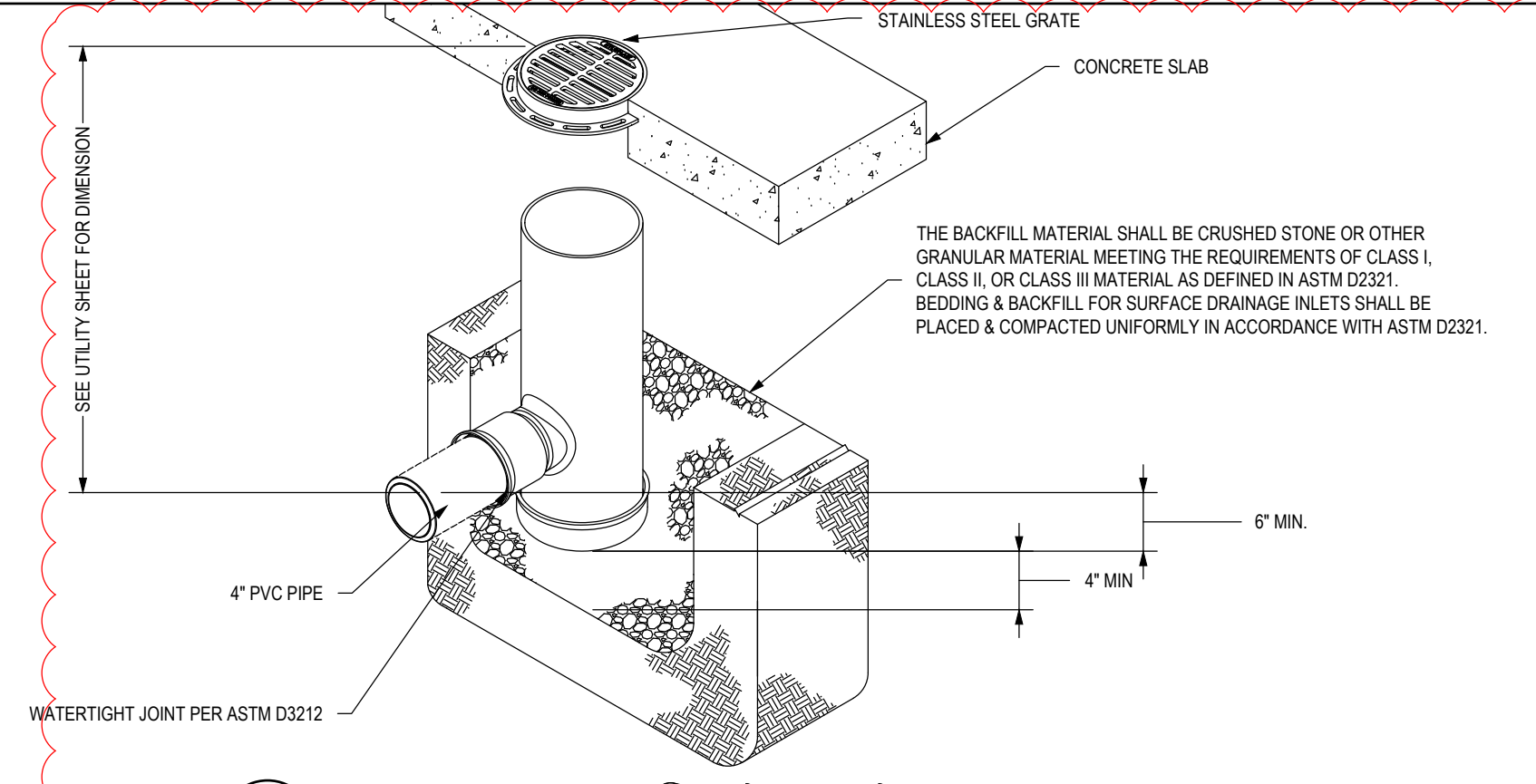
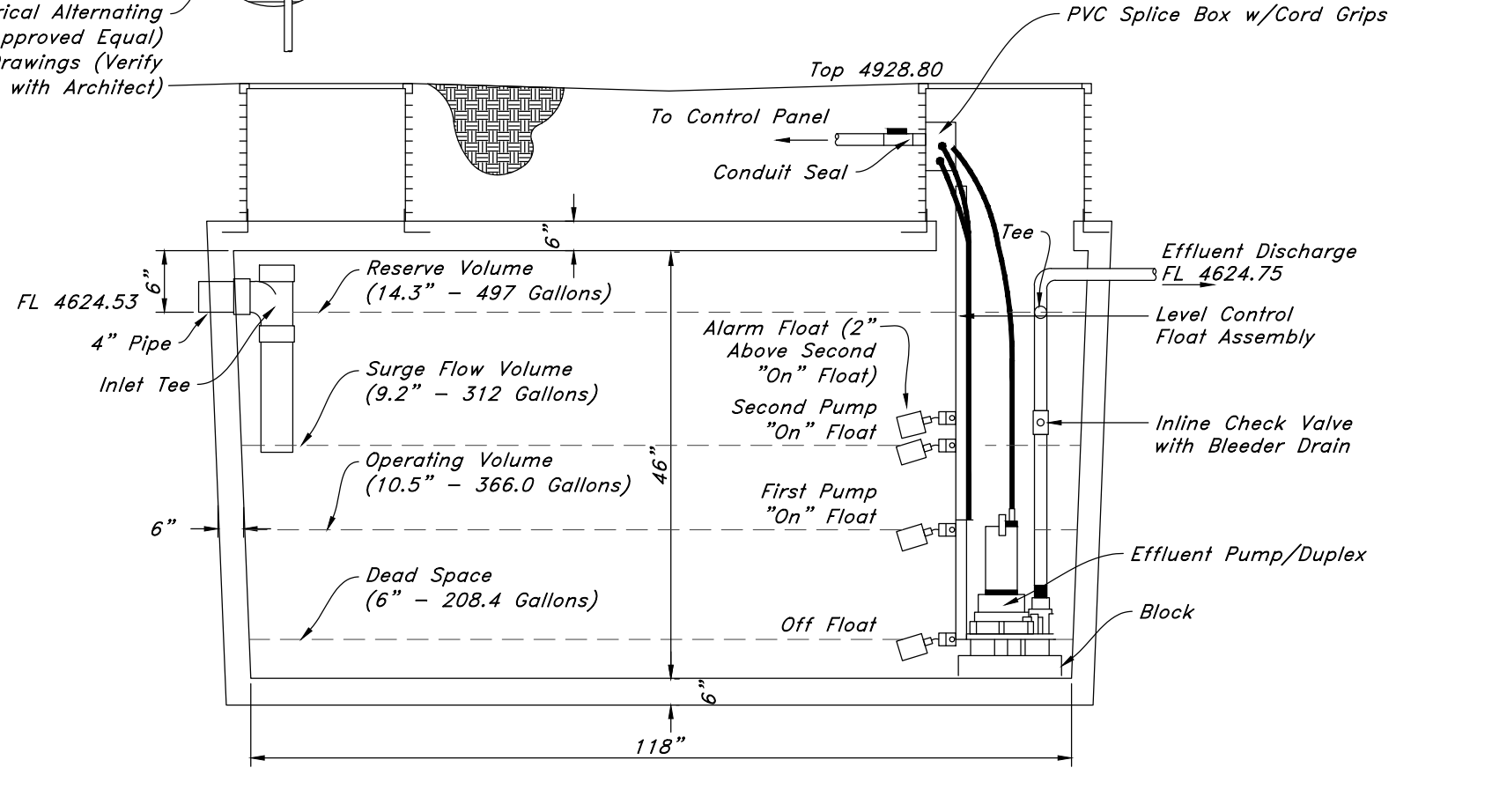
Pump Sizing  
Minimum Requirements  
30.0 gpm @ 17.0 TDH  
Single Phase Pumps

Duplex Pumping System  
30 gpm

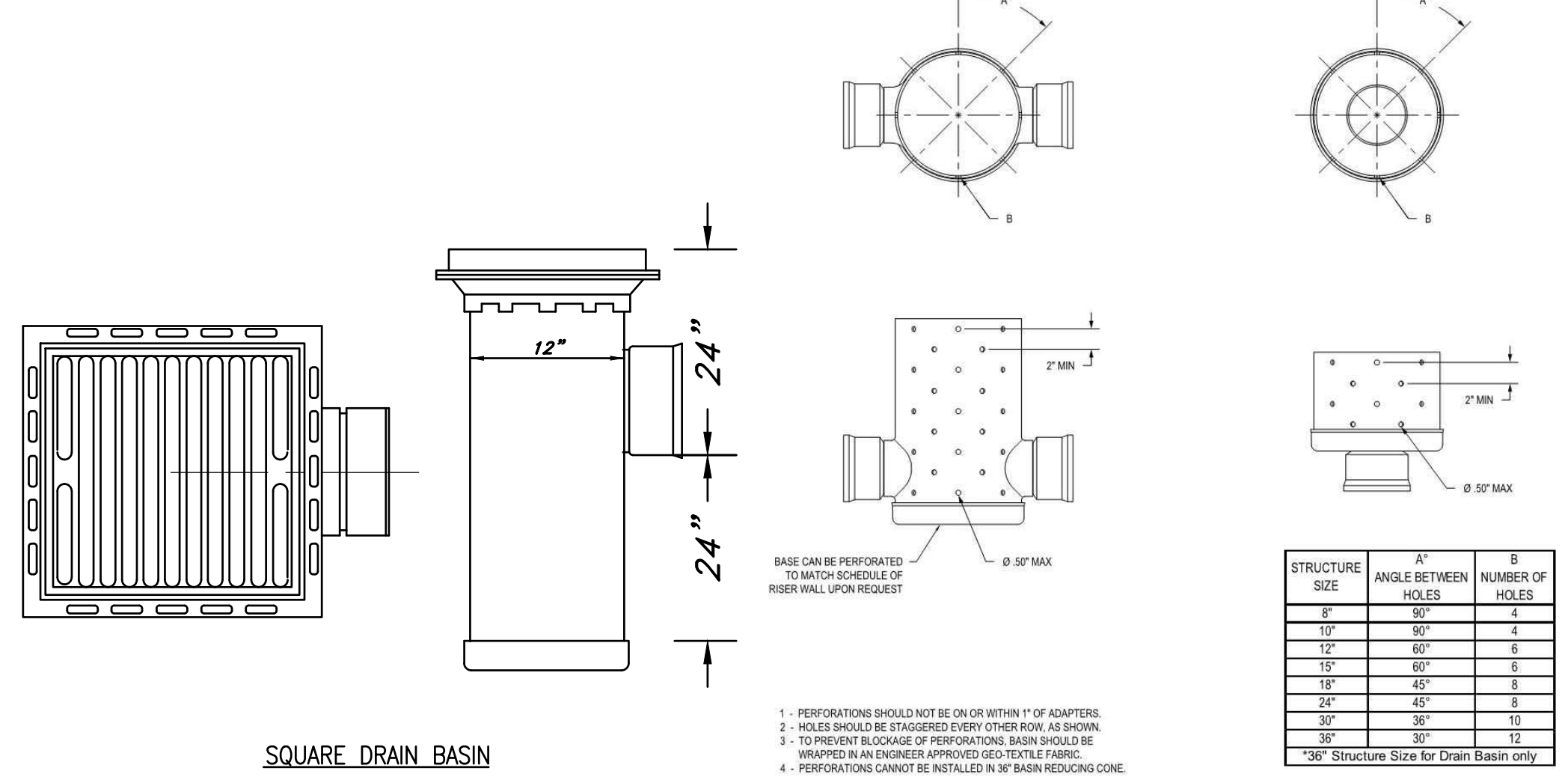
Head Loss:  
-3.30 Elevation  
+2.83 Lift From Bottom Pump  
+8.76 Head Loss (30ft/1000ft = 2" Pipe @ 30gpm)  
+2.00 (Elbows & Bends)  
16.89 TDH



5 Infiltrator Chambers Detail (Typ.)  
Not to Scale

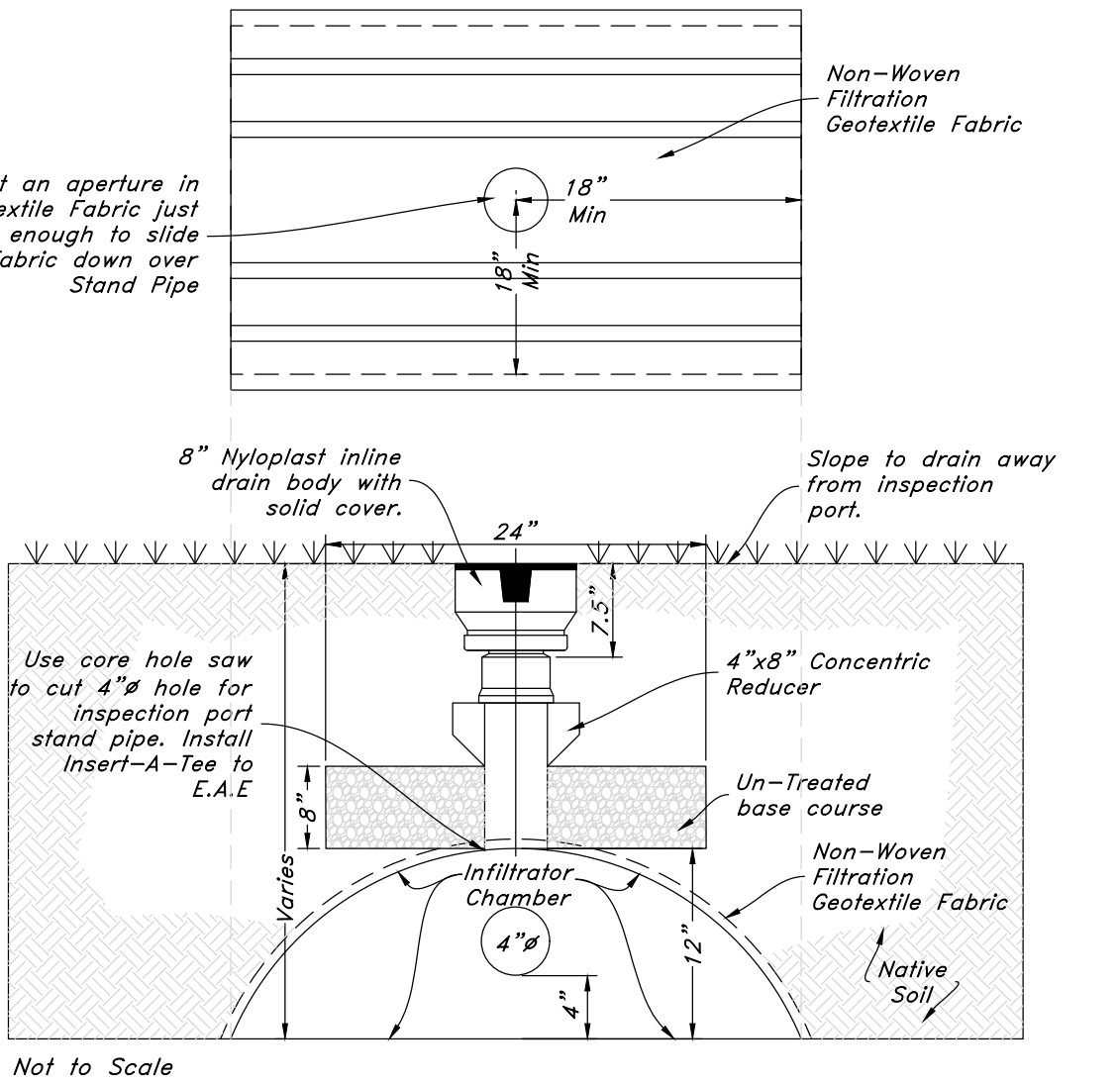


13 Nyloplast 8" Drain Basin  
Not to Scale

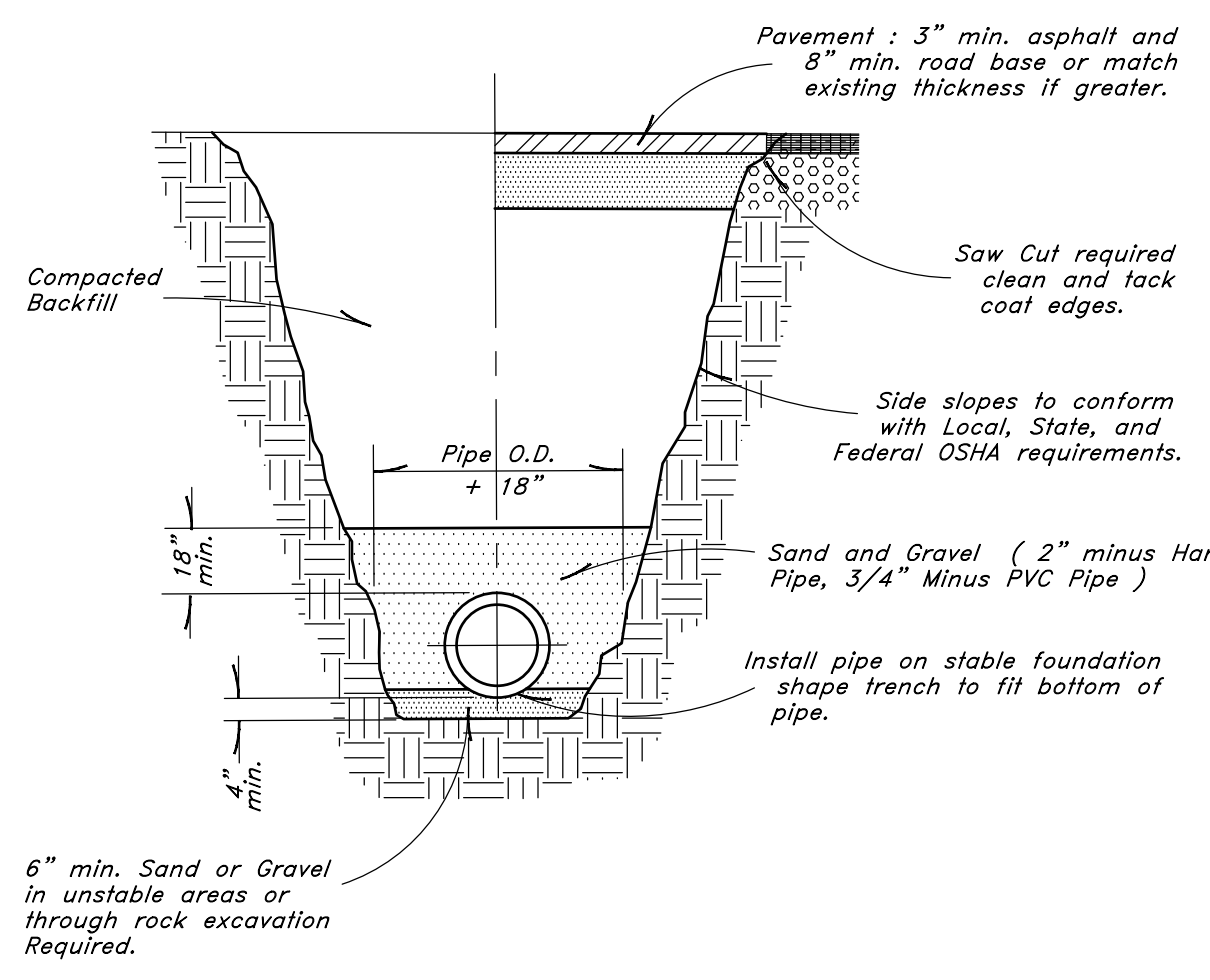


\*NOTE: MAXIMUM OPENING IN GRATES SHALL BE 3/8" WIDE - ALL GRATES SHALL BE RATED FOR PEDESTRIAN & BICYCLE APPLICATIONS

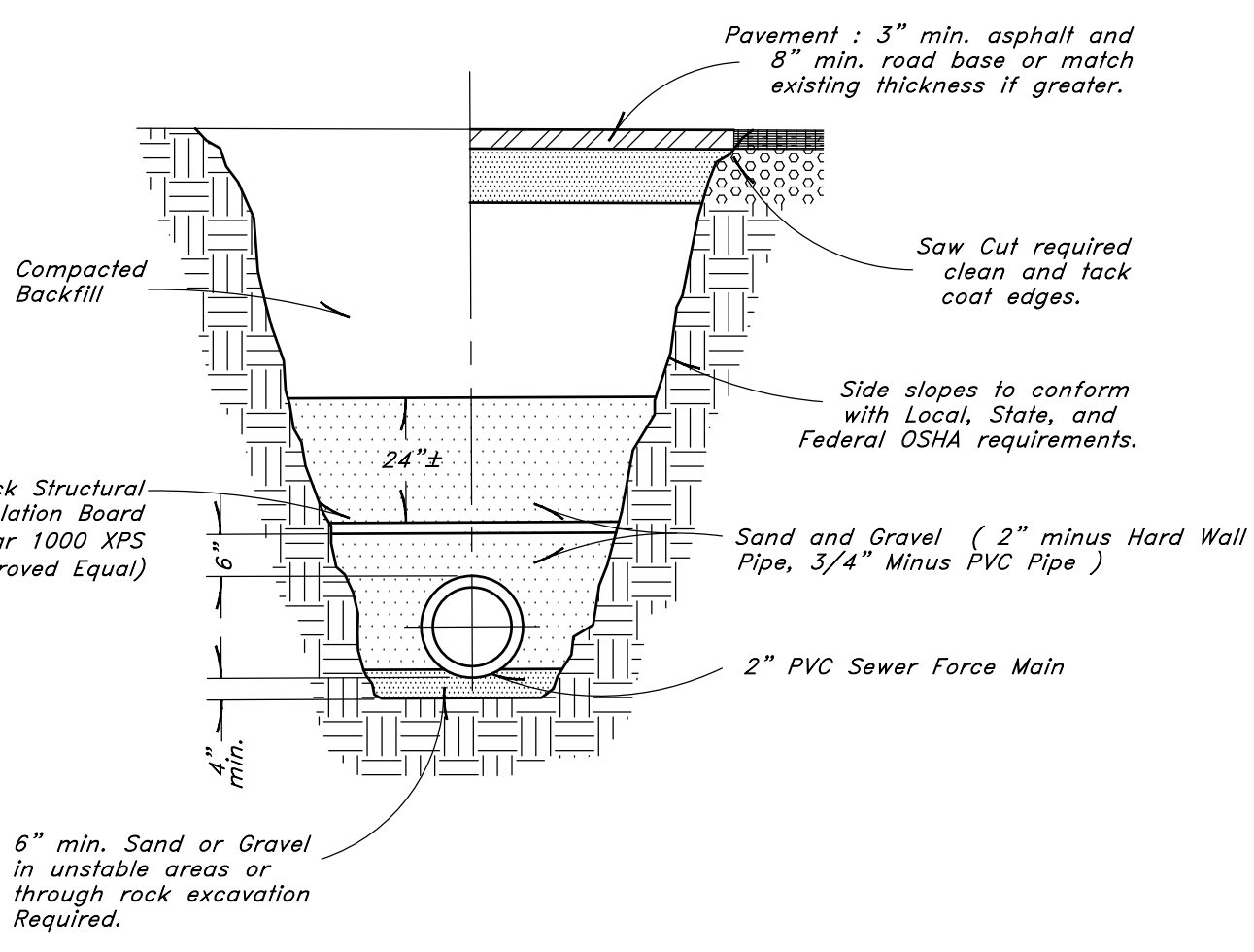
12 Nyloplast Perforated Area Drain  
Not to Scale



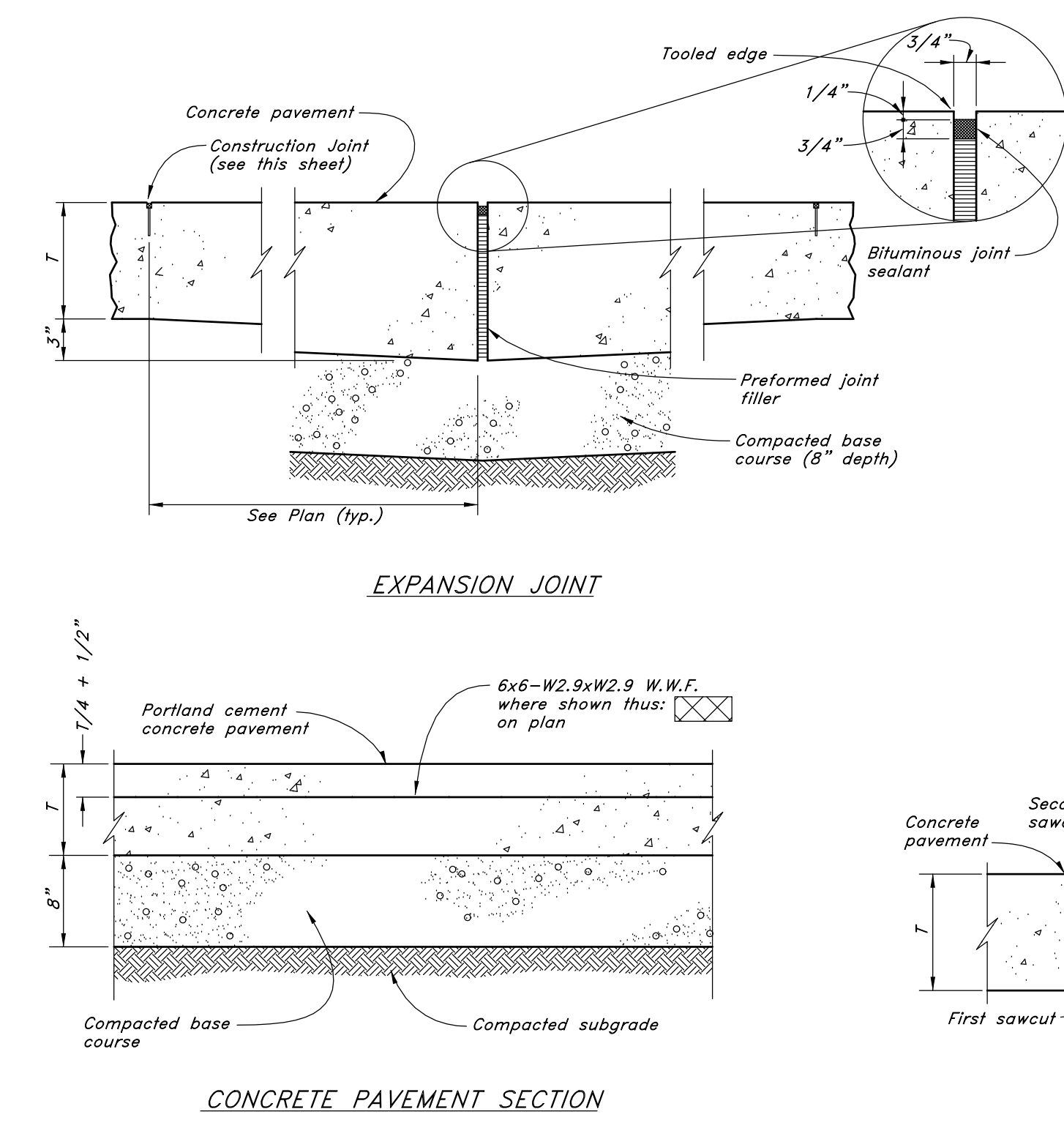
7 Inspection Port Detail  
1 = Concrete pavement thickness see Site Plan for pavement thickness.



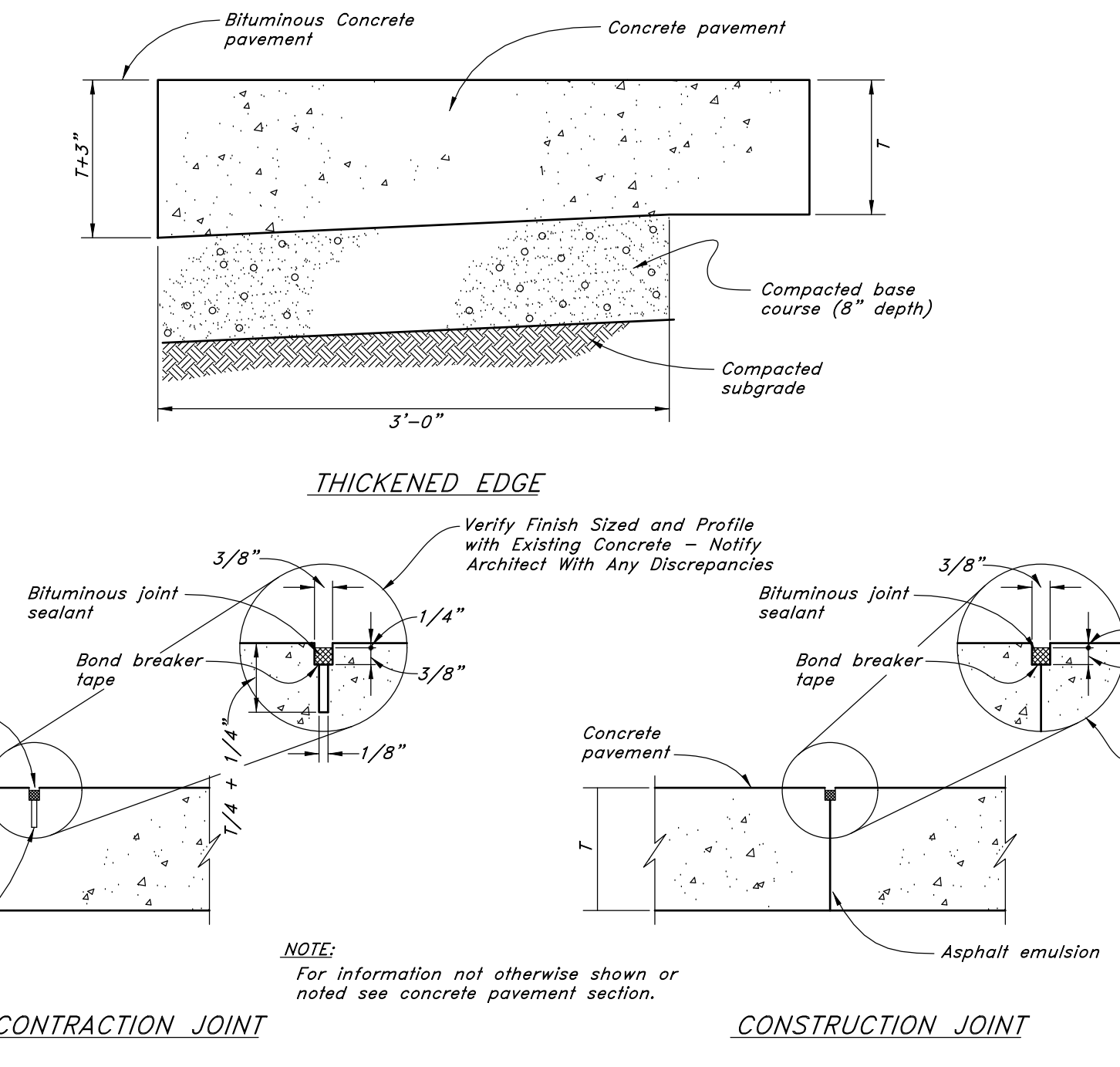
1 Typical Trench Detail



2 Force Main Trench with Insulation



3 Portland Cement Concrete Pavement



CONSTRUCTION JOINT



## SYMBOLS LEGEND

SYMBOL	DESCRIPTION
<b>LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)</b>	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED. (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
<b>LIGHTING CONTROL</b>	
*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
**	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
(P)	PHOTOCELL.
<b>STRUCTURED CABLING</b>	
(W)	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE.
ASC	OUTLET, DATA COMMUNICATION (*X INDICATES QUANTITY OF CABLES).
ATS	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
LAN	LAN RACK, FLOOR STANDING.
<b>WIRING DEVICES</b>	
(D)	RECEPTACLE, DUPLEX: NEMA 5-20R.
(D) A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
(D) W	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
(D)	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
(D)	RECEPTACLE, QUADRUPLEX: NEMA 5-20R.
(D)	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
(S)	SWITCH, SINGLE POLE (*X INDICATES FIXTURES CONTROLLED).
(D)	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
<b>WIRING METHODS</b>	
(W)	WIRING.
(W)	WIRING TURNED UP OR TOWARDS OBSERVER.
(W)	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
(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.
(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. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
(E)	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
<b>REFERENCE AND LINE SYMBOLS</b>	
ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
(K)	KEYNOTE INDICATOR.
(R)	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.
(—)	NEW LINE: MEDIUM LINE.
(—)	EXISTING TO REMAIN LINE: THIN LINE.
(- - - - -)	DEMOLITION LINE: DASHED, MEDIUM LINE.

## ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	KWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3WAY	THREE-WAY	LFCM	LIQUID TIGHT FLEXIBLE METAL CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LFS	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4PDT	FOUR-POLE DOUBLE THROW	LPS	LOW PRESSURE SODIUM
4PST	FOUR-POLE SINGLE THROW	LRA	LOCKED ROTOR AMPS
4WAY	FOUR-WAY	LTG	LIGHTING
A	ABOVE COUNTER	LV	LOW VOLTAGE
AC	ARMORED CABLE	MATV	MASTER ANTENNA TELEVISION SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT	MC	MINIMUM
ADJ	ADJACENT	MC	METAL CLAD
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MCC	MOTOR CONTROL CENTER
ALUM	ALUMINUM	MCP	MOTOR CIRCUIT PROTECTION
AMP	AMPERE	MDP	MAIN DISTRIBUTION PANEL
ANN	ANNUNCIATOR	MG	MOTOR GENERATOR
AP	ACCESS POINT (WIRELESS DATA)	MH	MANHOLE
AR	AS REQUIRED	MIN	MINIMUM
ASC	AMPS SHORT CIRCUIT PROTECTION	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION
AV	AUDIO VISUAL	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	NC	NORMALLY CLOSED
BB	BUCK-BOOST TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
BFMR	C	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CEILING MOUNTED	NFC	NATIONAL FIRE CODE
CAT	COMMUNITY ANTENNA TELEVISION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OC	ON CENTER
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OCP	OVER CURRENT PROTECTION
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CF/OI	OWNER FURNISHED/ OWNER INSTALLED	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CKT	CIRCUIT	OPF	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OH DR	OVERHEAD (COILING) DOOR
CON	CONDUIT	OL	OVERLOAD
CO	CONVENIENCE OUTLET	PB	PUSHBUTTON
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PF	POWER FACTOR
CP	CONTROL PANEL	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTV	CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
CJ	COPPER	PTZ	PAN/TILT/ZOOM
dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE, DOUBLE THROW	R	REMOVE
DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
EA	EACH	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NONMETAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EMT	ELECTRIC NONMETALLIC TUBING	RR	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF EQUIPMENT	SIS	START/STOP
EQ	EQUIPMENT	SCBA	SHORT CIRCUIT AMPS
EX	EXISTING	SCA	STANDARD COLOR AS SELECTED BY ARCHITECT
FA	FIRE ALARM	SF	SQUARE FOOT (FEET)
FAL	FIRE ALARM CONTROL PANEL	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FLA	FULL LOAD AMPS	SPD	SURGE PROTECTIVE DEVICE
FMC	FLEXIBLE METAL CONDUIT	SPDT	SINGLE POLE, DOUBLE THROW
FOB	FREIGHT ON BOARD	SPEC	SPECIFICATION
FVNR	FULL VOLTAGE NONREVERSING	SPST	SINGLE POLE, SINGLE THROW
FVR	FULL VOLTAGE REVERSING	ST	SINGLE THROW
G	GROUND	SWBD	SWITCHBOARD
GEN	GENERATOR	SWGR	SWITCHGEAR
GFCI	GROUND FAULT INTERRUPTER	TL	TWIST LOCK
GFP	GROUND FAULT PROTECTION	TP	TELEPHONE POLE
HD	HEAVY DUTY	TP	TWISTED PAIR
HID	HIGH INTENSITY DISCHARGE	TTB	TELEPHONE TERMINAL BOARD
HQA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	V	VOLTS
IO	INPUT/OUTPUT	VA	VOLT AMPERE
IG	ISOLATED GROUND	VFC/VF	VARIABLE FREQUENCY MOTOR
IMC	INTERMEDIATE METAL CONDUIT	W	WITH
INIS	INSULATED/ ISOLATED	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	XFMR	TRANSFORMER

## 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.

**DIRECTED:** TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

**APPROVED:** THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND 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."

**INSTALL:** THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.

**PROVIDE:** THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE 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.

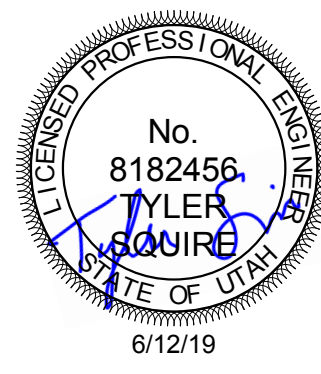
**TECHNOLOGY SYSTEMS:** THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS,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

## GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT 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.
- 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.
  - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
  - 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.
  - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF 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 OPERATIONS.
- 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 A.H.U.

## ELECTRICAL SHEET INDEX

EEO.1	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EP1.1	FIRST LEVEL POWER PLAN
EP1.2	PAVILION POWER PLAN
EL1.1	FIRST LEVEL LIGHTING PLAN
EL1.2	PAVILION LIGHTING PLAN



TEL: 801.521.9111 FAX: 801.321.9158

SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

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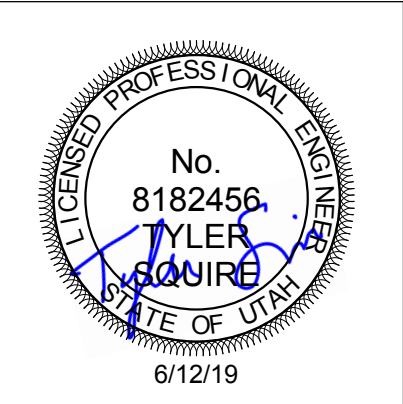
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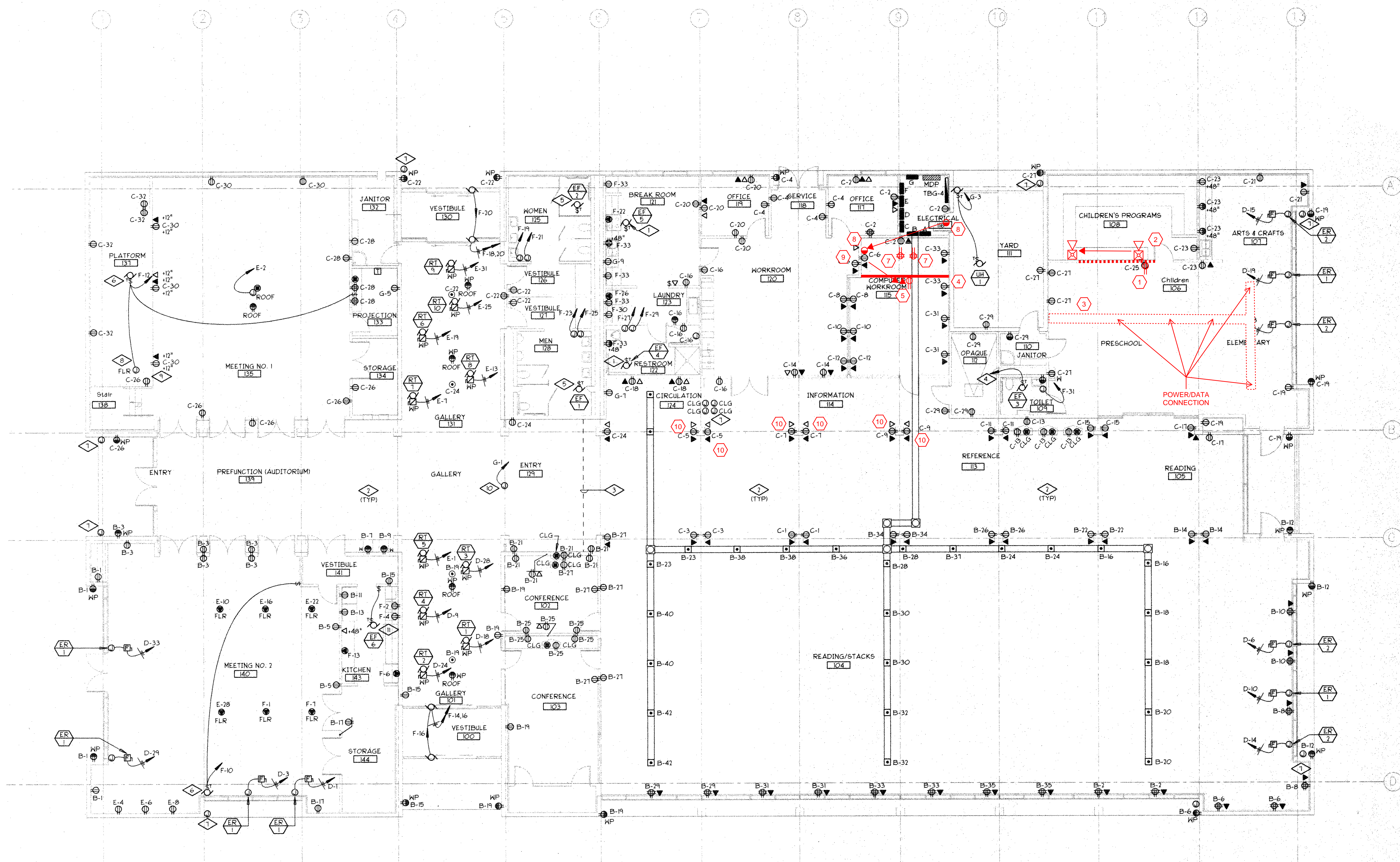


### GENERAL SHEET NOTES

- NEW SCOPE OF WORK IS SHOWN IN RED OVER THE ELECTRICAL RECORD DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS ON-SITE.

### SHEET KEYNOTES

- REMOVE EXISTING ELECTRICAL RECEPTACLE FROM WALL TO BE REMOVED. MAINTAIN CIRCUITING TO DEVICES THAT REMAIN, IF APPLICABLE.
- REMOVE AND RELOCATE EXISTING FIRE ALARM NOTIFICATION DEVICE AS INDICATED. MAINTAIN CONTINUITY OF FIRE ALARM CIRCUIT AND RE-TEST FIRE ALARM SYSTEM ONCE RELOCATION HAS BEEN COMPLETED.
- PROVIDE NEW IN-GRADE DUAL-COMPARTMENT WALKER DUCT SYSTEM FOR POWER AND DATA FEEDS TO SYSTEM FURNITURE. CONFIRM EXACT LOCATION AND EXTENT OF DUCT SYSTEM WITH ARCHITECTURAL PLANS AND THE RUNITURE VENDOR. SAW-CUT CONCRETE FLOOR FOR DUCT INSTALLATION. PATCH AND REPAIR CONCRETE AFTER INSTALLATION HAS BEEN COMPLETED. PROVIDE (2) 1/2" CONDUITS FOR DATA FROM WALKER DUCT STUBBED TO THE ACCESSIBLE CEILING. PROVIDE (3) 1/2" 20A ELECTRICAL CIRCUITS FOR CONNECTIONS TO THE SYSTEM FURNITURE.
- APPROXIMATE LOCATION OF NEW WALL FROM NEW SERVER ROOM. REFER TO ARCHITECTURAL DRAWINGS FOR MORE EXACT INFORMATION.
- RELOCATE DEDICATED ELECTRICAL CIRCUIT AND DATA DEVICE FOR COPIER TO NEW LOCATION AS SHOWN. EXTEND CIRCUITING AS REQUIRED.
- PROVIDE 120V ELECTRICAL CONNECTIONS TO TRANSFER FANS. PROVIDE 20A TOGGLE SWITCH DISCONNECT ADJACENT TO THE EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS.
- PROVIDE ELECTRICAL RECEPTACLES FOR RELOCATED TELECOM RACK. CONFIRM EXACT LOCATIONS WITH RACK INSTALLERS PRIOR TO ROUGH-IN. CIRCUIT EACH QUADRIPLEX TO DEDICATED 20A/120V ELECTRICAL CIRCUIT IN EXISTING PANELBOARD. PROVIDE UPDATED TYPED WRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.
- REMOVE AND RELOCATE ELECTRICAL CONNECTIONS TO THE EXISTING INDOOR AIR CONDITIONING UNIT FROM THE EXISTING ELECTRICAL ROOM TO THE NEW SERVER ROOM. PROVIDE CONDUIT AND CONTROL WIRING BETWEEN THE INDOOR UNIT AS REQUIRED BY THE MANUFACTURER'S WRITTEN INSTRUCTIONS. EXTEND EXISTING ELECTRICAL CIRCUIT TO NEW LOCATION.
- REMOVE POWER AND DATA DEVICES FROM WALL TO BE REMOVED FOR NEW TOOR TO TELECOM ROOM. MAINTAIN EXISTING ELECTRICAL CIRCUITS. EXTEND CONDUCTORS AS REQUIRED.
- EXISTING ELECTRICAL AND DATA DEVICES ARE MOUNTED IN THE CIRCULATION DESK AND NEED TO BE REMOVED AND REINSTALLED TO ACCOMMODATE THE NEW CIRCULATION DESK. COORDINATE SCOPE AND TIMING WITH MILLWORK VENDOR. MAINTAIN EXISTING CIRCUITS AND REUSE EXISTING DEVICES WHEREVER POSSIBLE.



**1 LEVEL 1 POWER PLAN**  
SCALE: NTS

PRESCOTT MUIR ARCHITECT 171 WEST PIERPONT AVE. SALT LAKE CITY, UTAH 84101 TEL: 801.521.9111 FAX: 801.521.9158

FIRST LEVEL POWER PLAN

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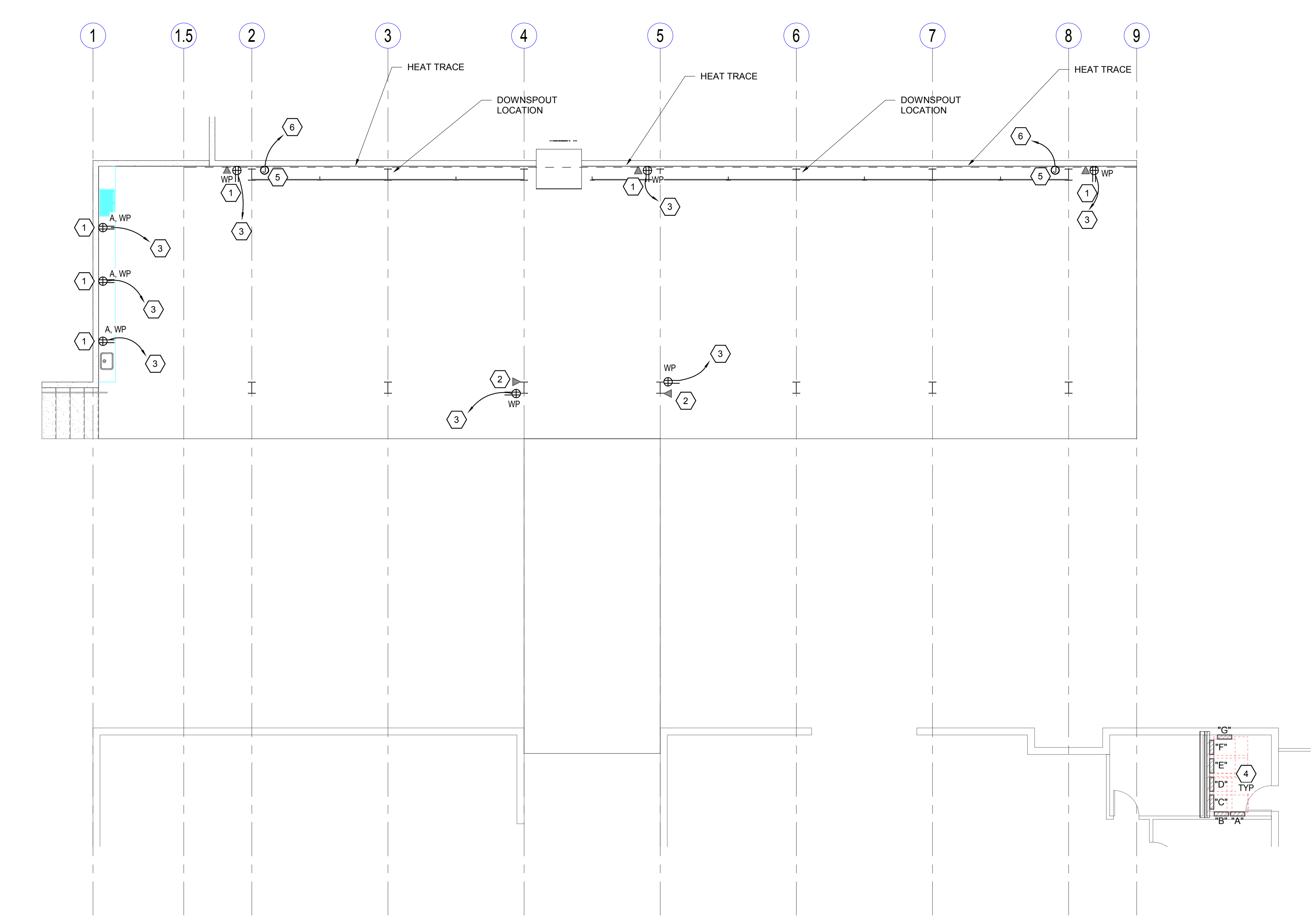
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SHEET NO. **EP1.1**





**1 PAVILION POWER PLAN**  
SCALE: NTS

**GENERAL SHEET NOTES**

- ALL EXTERIOR RECEPTACLES SHALL BE GFCI PROTECTED WITH CAST-IRON WEATHERPROOF-IN-USE COVER.
- REFER TO ARCHITECTURAL ELEVATIONS FOR THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES.
- ELECTRICAL DEVICES SHALL BE RECESSED IN THE CONCRETE WALLS. NO SURFACE MOUNTED CONDUIT OR BOXES WILL BE ACCEPTED IN THESE LOCATIONS.
- RIGID CONDUIT MUST BE USED WHEREVER EXPOSED. PAINT CONDUIT TO MATCH ADJACENT SURFACES.

**SHEET KEYNOTES**

- MOUNT ELECTRICAL DEVICES IN SHORT RETAINING WALL. CENTER DEVICES IN WALL. REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EXACT LOCATION WITH ARCHITECT.
- MOUNT ELECTRICAL DEVICES IN STEEL COLUMN POCKET. SURFACE MOUNT CONDUIT TIGHT TO COLUMN. PAINT CONDUIT AND BOXES TO MATCH STEEL SURFACES AND COORDINATE EXACT LOCATION WITH ARCHITECT.
- CIRCUIT TO SPARE 20A1P CIRCUIT BREAKER IN EXISTING ELECTRICAL PANEL. FIELD VERIFY AVAILABLE CIRCUIT BREAKERS. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT AND PROVIDE REDLINED AS-BUILT DRAWINGS WITH CIRCUIT NUMBERS TO THE ARCHITECT/ENGINEER/OWNER AT THE COMPLETION OF THE PROJECT.
- LOCATION OF EXISTING ELECTRICAL ROOM AND ELECTRICAL PANELS. FIELD VERIFY EXACT LOCATION AND AVAILABLE CIRCUIT BREAKERS.
- PROVIDE 208V HEAT TRACE ALONG THE FULL LENGTH OF THE GUTTER AND DOWNSPOUTS. PROVIDE RAY-CHEM SELF-REGULATING HEAT TRACE SYSTEM WITH MOISTURE AND TEMPERATURE SENSORS MOUNTED ON THE ROOF OR SUBMIT EQUIVALENT PRODUCT FOR THE ENGINEER'S APPROVAL.
- CIRCUIT TO EXISTING CIRCUIT BREAKER. PROVIDE NEW 30A2P GFI CIRCUIT BREAKER WITH 30 MILLI-AMP TRIP RATING. CIRCUIT WITH 2 #10, #10G IN 3/4" CONDUIT. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.



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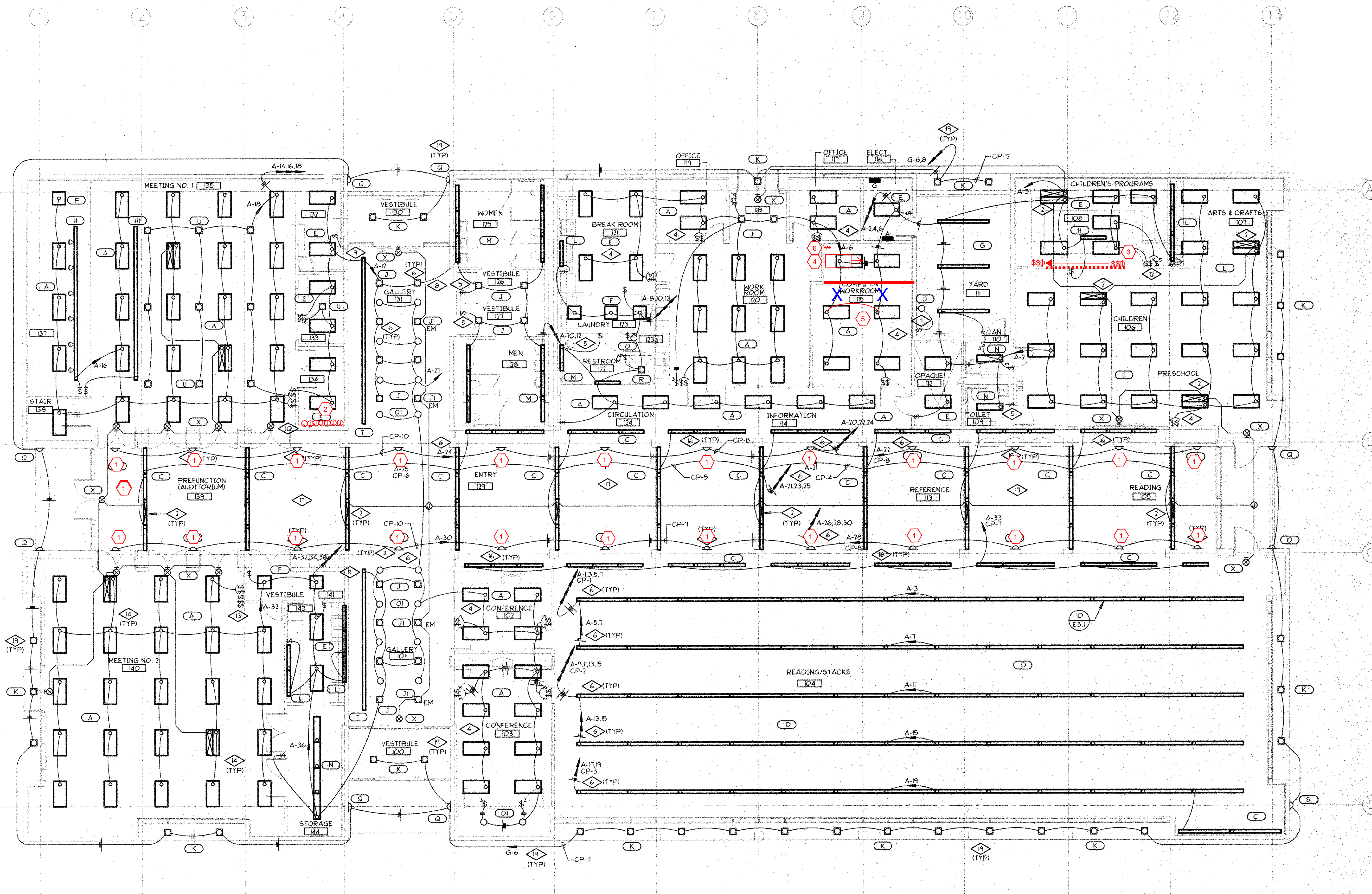
1 PHOTO1 - BALLAST WALL  
SCALE: NTS



2 PHOTO2 - CHILDREN'S AREA WALL  
SCALE: NTS



3 PHOTO3 - EXISTING UPLIGHT  
SCALE: NTS



4 LEVEL 1 LIGHTING PLAN  
SCALE: NTS

GENERAL SHEET NOTES

- 1 NEW SCOPE OF WORK IS SHOWN IN RED OVER THE ELECTRICAL RECORD DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS ON-SITE.

SHEET KEYNOTES

- 1 REMOVE AND REPLACE EXISTING 400W METAL-HALIDE FIXTURES UPLIGHTING ATRIUM. REPLACE FIXTURES WITH NEW FIXTURE TYPE (AS-1) AS SHOWN ON THE INTERIOR LIGHTING FIXTURE SCHEDULE. GENERAL CONTRACTOR SHALL PATCH AND REPAINT WALL WHERE FIXTURES HAVE BEEN REMOVED PER THE ARCHITECTURAL DRAWINGS.
- 2 REMOVE EXISTING METAL-HALIDE BALLASTS, MOUNTING HARDWARE AND PLYWOOD BACKBOARD FOR EXISTING UPLIGHT FIXTURES THAT ARE BEING REPLACED. RELOCATE EXPOSED JUNCTION BOXES TO BE CONCEALED ABOVE THE ACCESSIBLE CEILING. MAINTAIN EXISTING CIRCUITING.
- 3 REMOVE AND RELOCATE EXISTING SWITCHES FROM WALL TO BE REMOVED. RELOCATE AND REINSTALL SWITCHES IN EXISTING WALL TO REMAIN WHERE SHOWN. CONFIRM EXACT LOCATIONS WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 4 RELOCATE EXISTING FIXTURE 2 TO THE NORTH. EXTEND CIRCUITING AS REQUIRED.
- 5 DISCONNECT FIXTURES TO BE LOCATED IN NEW SERVER ROOM FROM THE EXISTING SWITCH ZONE. RE-CIRCUIT FIXTURES TO MAINTAIN SWITCHING WITHIN EACH ROOM.
- 6 PROVIDE NEW DIGITAL TIMER SWITCH FOR FIXTURES IN NEW SERVER ROOM. MOUNT SWITCH ADJACENT TO THE LATCH SIDE OF THE ENTRY DOOR.



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FIRST LEVEL LIGHTING PLAN

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## INTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS		GENERAL NOTES		
<b>MOUNTING</b> B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL	<b>LUMINAIRE OPTIONS</b> ARHR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EOC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STATIC WG - WIRE GUARD WL - WET LOCATION	<b>FINISH</b> MW - MATTE WHITE BL - BLACK SL - SILVER EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST SCA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 205D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED	<b>DIFFUSER/LENS</b> #A - ACRYLIC #THICK #CA - ACRYLIC #THICK (OPAL) #C - GLASS (CLEAR) #G - GLASS (OPAL) #F - GLASS (FROSTED) #GL - SOFT GLOW LENS #HPL - HIGH PERFORMANCE LENS #DO - DROP OPAL #CGL - CONVEX GLASS LENS #S - SATIN LENS	<b>REFLECTOR</b> OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (BISM SPECULAR) SILVER LI - LOW IREDESCENT IR - IREDESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK
		<b>NOTES</b> 1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING. THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. 9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.		

ID	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSERS/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
		LENGTH	DEPTH	H-HEIGHT	DIAMETER/APERTURE														OPTION 1	OPTION 2	OPTION 3	
(AS-1)	REPLACE EXISTING LED UPLIGHT FIXTURE. REMOVE AND REPLACE EXISTING UPLIGHT FIXTURES IN EXACT SAME LOCATIONS.	23"	14"	9" HEIGHT	6"	W	LED	4000K		LED DRIVER (0-10V DIMMING)	UNV	214	MW	19929						AMETRIX (ASYX-WM-L4-ID-U-W-40-1-UNV-W-R-STD)		
(OF-1)	DIE-CAST ALUMINUM LED SPOTLIGHT. MEDIUM DISTRIBUTION. LOUVERS AND 360 DEGREE GLARE SHIELD.				6"	C	LED	4000K		LED DRIVER (0-10V DIMMING)	UNV	20	MW	0						BEGA (77701-70796-70720)		
(W-1)	SURFACE MOUNT VANDAL RESISTANT LED LINEAR FIXTURE.	4"	8"	4"		C	LED	4000K		LED DRIVER (0-10V DIMMING)	UNV		MW									

### GENERAL SHEET NOTES

- 1 REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL FIXTURES.
- 2 CIRCUIT ALL PAVILION LIGHTING TO ONE 20A CIRCUIT BREAKER. PROVIDE CONTROLS AS DESCRIBED IN THE KEYNOTES BELOW.
- 3 RIGID CONDUIT MUST BE USED WHEREVER EXPOSED. PAINT CONDUIT TO MATCH ADJACENT SURFACES.
- 4 RUN CONDUIT TO THE SURFACE MOUNTED LIGHT FIXTURES ON THE DECK FLUTES ABOVE THE STEEL STRUCTURE. NO CONDUIT SHALL BE MOUNTED UNDER THE STEEL STRUCTURE. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT SURFACES.

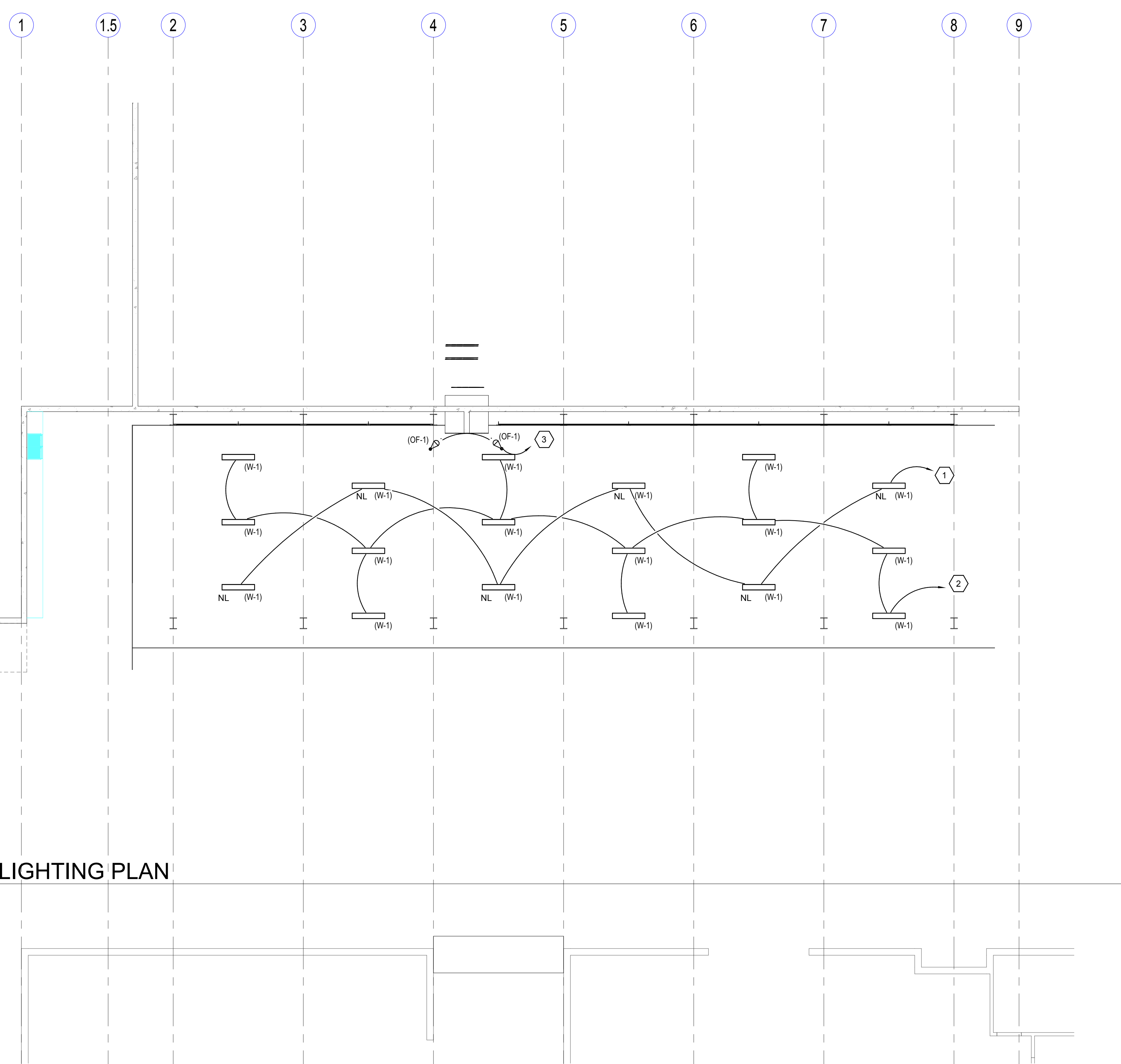
### SHEET KEYNOTES

- 1 PAVILION NIGHT-LIGHTS. CIRCUIT THROUGH PROGRAMMABLE TIME-CLOCK TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.
- 2 PAVILION GENERAL AREA LIGHTS. CIRCUIT THROUGH DIGITAL TIMER SWITCH MOUNTED IN THE CIRCULATIONS DESK. CONFIRM EXACT LOCATION OF THE SWITCH WITH THE ARCHITECT/OWNER. PROVIDE SWITCH WITH 30 MINUTES, 1 HOUR, 2 HOUR, AND 4 HOUR PUSHBUTTON OPTIONS. CIRCUIT TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.
- 3 PAVILION SCULPTURE LIGHTS. CIRCUIT THROUGH PROGRAMMABLE TIME-CLOCK TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.



PAVILION LIGHTING PLAN

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**1 PAVILION LIGHTING PLAN**  
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