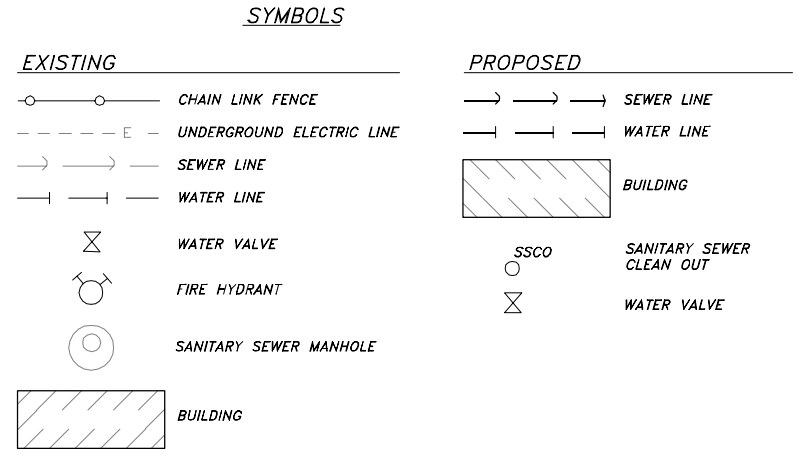
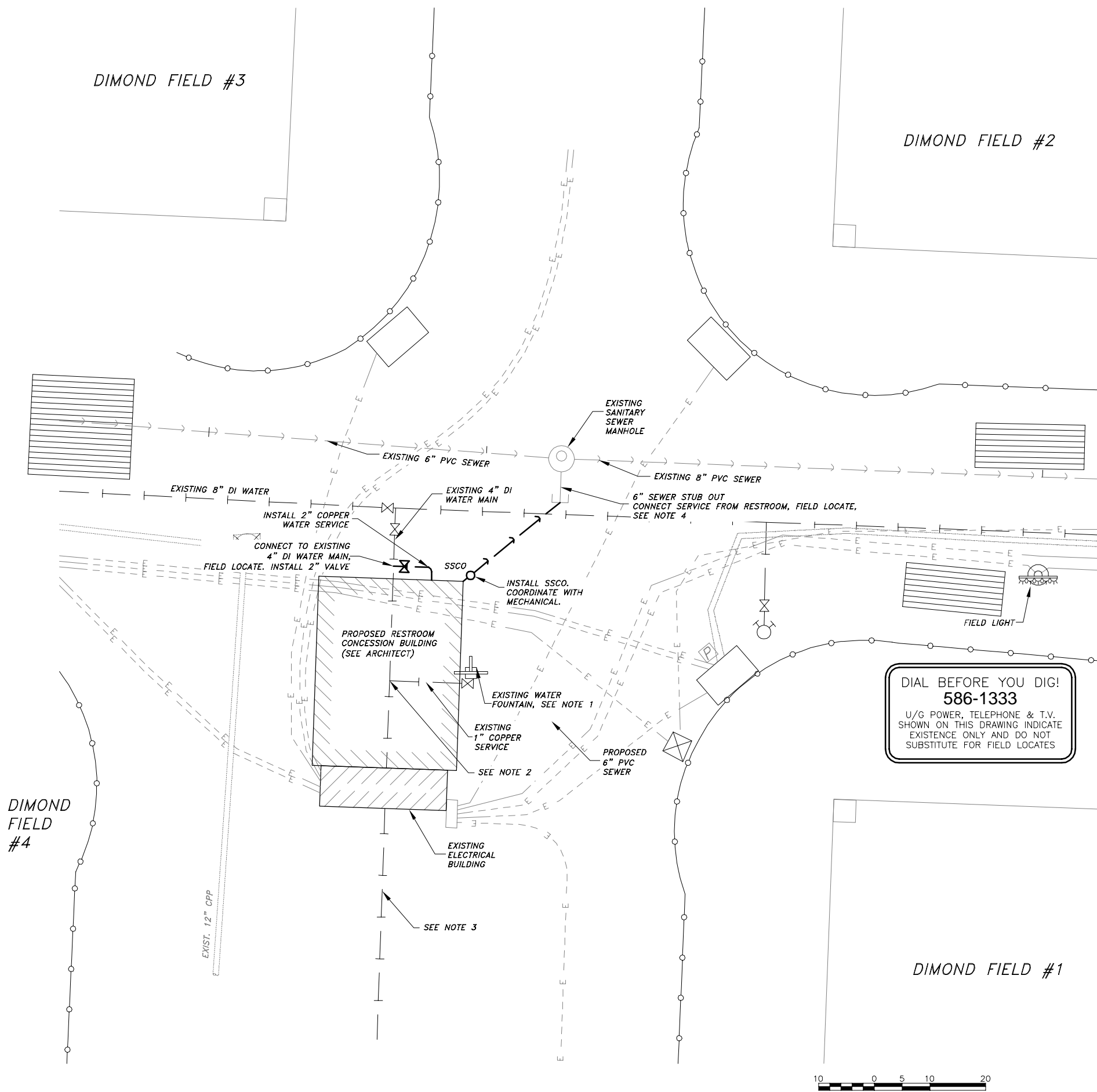


I:\2016\180501\RM\Drawings\180501\UTILITY COORDINATION LAYOUT.dwg PLOT: March 16, 2016 at 7:58am



- NOTES:**
- 1) REMOVE AND SALVAGE EXISTING DRINKING WATER FOUNTAIN. RETURN TO CBJ PARKS AND RECREATION VALLEY SHOP.
 - 2) CLOSE CORP STOP AT WATERLINE SERVICE FOR DRINKING FOUNTAIN. CAP WATER SERVICE AND COORDINATE WORK WITH CBJ WATER UTILITY DEPARTMENT.
 - 3) PROTECT AND MAINTAIN EXISTING 4" D.I. WATER MAIN DURING NEW BUILDING CONSTRUCTION. PLACE AND COMPACT ADDITIONAL BEDDING MATERIAL AT FOOTING CROSSINGS TO PROTECT PIPE.
 - 4) PROVIDE ALL ADAPTORS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS, CONNECT TO EXISTING.

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CITY & BOROUGH OF JUNEAU
CBJ PARKS RESTROOM AND CONCESSIONS IMPROVEMENTS
 Juneau, Alaska
 C.B.I Project No F16-165

CONSTRUCTION DOCUMENTS

REVISIONS

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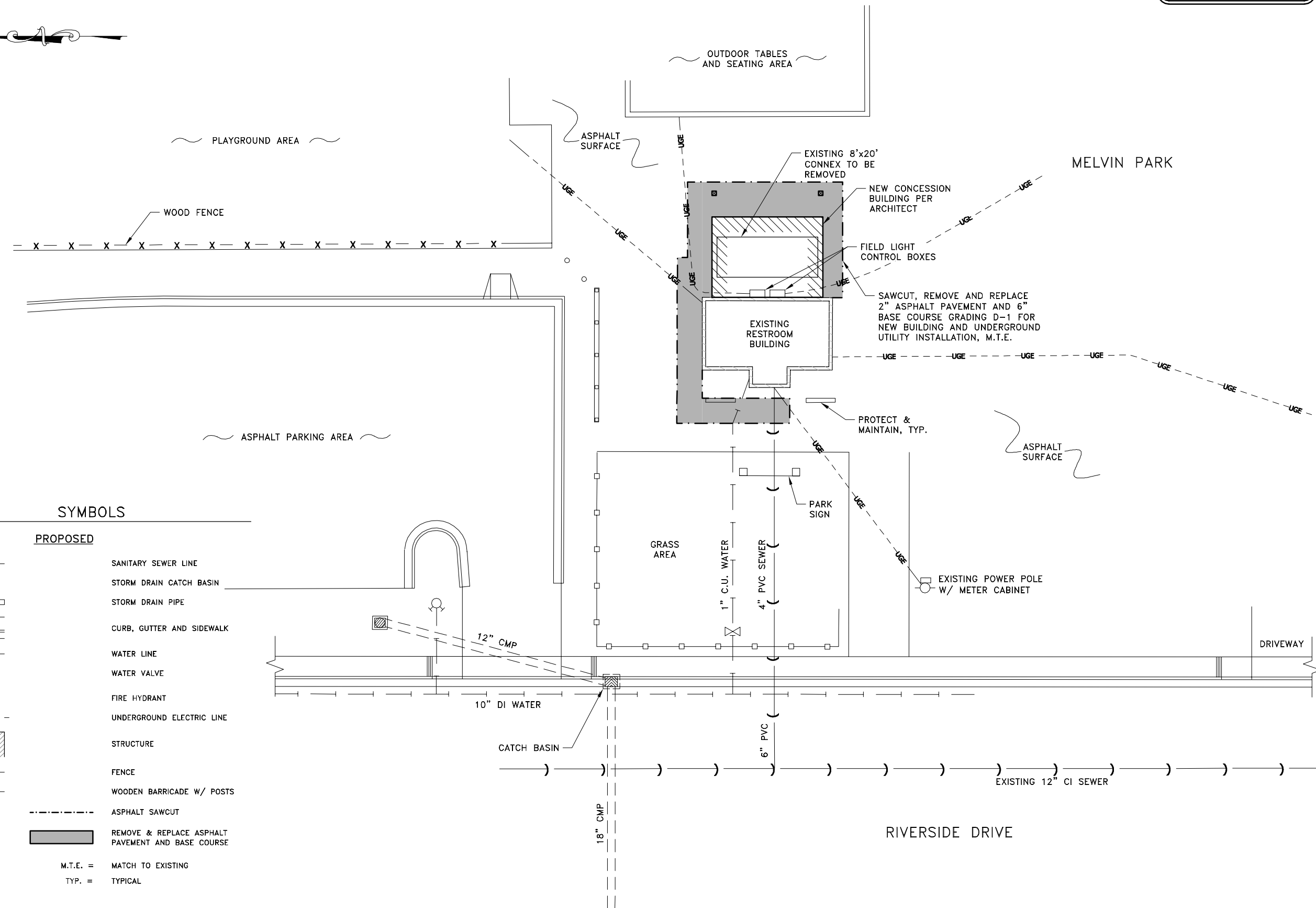
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SHEET TITLE
 DIMOND PARK EXISTING SITE CONDITIONS

DATE: MARCH 16, 2016
 FILE: 15023

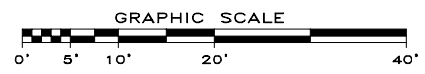
C101

DIAL BEFORE YOU DIG!
586-1333
 U/G POWER, TELEPHONE & T.V.
 SHOWN ON THIS DRAWING INDICATE
 EXISTENCE ONLY AND DO NOT
 SUBSTITUTE FOR FIELD LOCATES



SYMBOLS

EXISTING	PROPOSED	
		SANITARY SEWER LINE
		STORM DRAIN CATCH BASIN
		STORM DRAIN PIPE
		CURB, GUTTER AND SIDEWALK
		WATER LINE
		WATER VALVE
		FIRE HYDRANT
		UNDERGROUND ELECTRIC LINE
		STRUCTURE
		FENCE
		WOODEN BARRICADE W/ POSTS
		ASPHALT SAWCUT
		REMOVE & REPLACE ASPHALT PAVEMENT AND BASE COURSE
	M.T.E. =	MATCH TO EXISTING
	TYP. =	TYPICAL



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 Juneau, Alaska
 CBJ Project NO. E16-165

CONSTRUCTION DOCUMENTS
 REVISIONS
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 SHEET TITLE
 MELVIN PARK
 EXISTING
 SITE CONDITIONS
 DATE: MARCH 16, 2016
 FILE: 15023

C110

STRUCTURAL GENERAL NOTES

CRITERIA

CODE

2009 EDITION OF INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF ALASKA AND CITY AND BOROUGH OF JUNEAU

STRUCTURAL RISK CATEGORY: II

LOADS

SNOW

GROUND SNOW LOAD: 70 PSF
THERMAL COEFFICIENT, $C_t = 1.2$ (UNHEATED)
EXPOSURE COEFFICIENT, $C_e = 0.9$ (TERRAIN CATEGORY C, FULLY EXPOSED)
IMPORTANCE, $I_s = 1.0$ (OCCUPANCY CATEGORY II)
FLAT ROOF SNOW: 53 PSF

WIND LOADS:

WIND SPEED: 105 MPH (3-SECOND GUST)
EXPOSURE: C

SEISMIC LOADS

SITE CLASS: D
 $S_s = 0.64g$, $F_o = 1.29$, $S_{ds} = 0.55g$
 $S_1 = 0.30g$, $F_v = 1.80$, $S_{d1} = 0.36g$
DESIGN CATEGORY D
 $R = 5.0$ SPECIALLY REINFORCED CMU WALLS
IMPORTANCE, $I_e = 1.0$
 $C_s = 0.11g$

FOUNDATION

FOUNDATIONS FOR DIMOND PARK FACILITY HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL PRESSURE OF 2500 PSF BASED UPON A SOILS INVESTIGATION REPORT BY R&M ENGINEERS, DATED MAY 2001.

AT MELVIN PARK FOUNDATIONS ARE DESIGNED WITH THE SAME ALLOWABLE SOIL PRESSURE WITH THE ANTICIPATION THAT SIMILAR SOIL CONDITIONS AT THE LIMIT OF EXCAVATIONS WILL BE ENCOUNTERED. CONTRACTOR SHALL VERIFY THAT SOILS ARE POORLY GRADED, GRAVEL, SAND AND SILT OR A BETTER CONDITION AT THE LIMITS OF EXCAVATION.

DEWATER THE EXCAVATION AS NEEDED TO ENSURE THAT IN SITU SOILS WILL NOT PUMP OR GO QUICK WHEN COMPACTING.

EXCAVATE TO A DEPTH OF 5 FEET BELOW EXTERIOR GRADE AND PROOF COMPACT LIMIT OF EXCAVATION WITH A MINIMUM LEVEL OF EFFORT OF 8 PASSES WITH A WALK-BEHIND VIBRATORY PLATE COMPACTOR WITH A MINIMUM RATING OF 14000 LBS. AT THE LIMIT OF EXCAVATION, IF SOFT OR UNDESIRABLE SOILS SUCH AS ORGANICS, DEBRIS OR MUCK ARE ENCOUNTERED OVER-EXCAVATE TO A FIRM MINERAL BEARING LAYER AND REPLACE WITH WELL-GRADED SANDS AND GRAVELS.

STOCK PILE EXCAVATED SANDS AND GRAVELS FOR BACKFILL IF LESS THAN 6% OF THAT MATERIAL IS SILT.

AT A LEVEL OF 5 FEET BELOW FINAL GRADE PLACE A 2 FOOT LAYER OF 8 INCH MINUS SHOT ROCK IN THREE EQUAL LIFTS. COMPACT EACH LIFT WITH A MINIMUM LEVEL OF EFFORT OF 8 PASSES WITH A WALK-BEHIND VIBRATORY PLATE COMPACTOR WITH A MINIMUM RATING OF 14000 LBS.

BASE COURSE SHALL CONFORM TO GRADATION D1 OF CBJ STANDARD SPECIFICATIONS SECTION 02204. PLACE BASE COURSE IN ONE LIFT AND COMPACT WITH A MINIMUM LEVEL OF EFFORT OF 8 PASSES WITH A WALK BEHIND DOUBLE DRUM OR VIBRATORY PLATE COMPACTOR WITH A MINIMUM RATING OF 14,000 POUNDS.

USE STOCKPILED MATERIAL FOR BACK FILL, UNLESS DEEMED UNSUITABLE BY THE ENGINEER. MIX MATERIAL TO A WELL GRADED CONDITION AND PLACE IN LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS. COMPACT EACH LIFT PRIOR TO PLACING SUBSEQUENT LIFTS WITH A MINIMUM LEVEL OF EFFORT OF 8 PASSES WITH A WALK BEHIND DOUBLE DRUM OR VIBRATORY PLATE COMPACTOR WITH A MINIMUM RATING OF 14,000 POUNDS.

STRUCTURAL MATERIALS AND CONSTRUCTION

CONCRETE

MIXING, PLACING, AND CURING OF CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC. PROPORTIONS OF AGGREGATE, CEMENT AND WATER SHALL BE SUCH TO RESULT IN A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT EXCESS SURFACE WATER. A MIX DESIGN, WITH RECORDED CYLINDER TEST RESULTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO MOBILIZING CONCRETE EQUIPMENT TO THE SITE. MAXIMUM SLUMP SHALL BE 4 INCHES PRIOR TO ADDING PLASTICISERS OR WATER REDUCERS ON SITE. 28-DAY COMPRESSIVE STRENGTH (f_c') SHALL BE 4,000 PSI. CONCRETE SHALL BE ENTRAINED WITH AIR SO THAT AIR CONTENT WILL BE BETWEEN 5 AND 8 PERCENT.

CONCRETE REINFORCING SHALL COMPLY WITH ASTM A615 GRADE 60. LAP REINFORCING STEEL 50 BAR DIAMETERS UNLESS OTHERWISE NOTED. AT CORNERS ADD CORNER BARS AT EACH HORIZONTAL BAR WITH LEG LENGTH AT LEAST 50 DIAMETER LAP LENGTH OR EXTEND THE HORIZONTAL BARS WITH A 90 DEGREE HOOK WITH A 50 DIAMETER LAP LENGTH.

REINFORCING STEEL FABRICATION DRAWINGS SHALL BE PREPARED BY AN EXPERIENCED DETAILER CONFORMING TO STANDARD PRACTICE AS OUTLINED IN ACI 315. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION.

REINFORCING SHALL BE SUPPORTED AND SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT USING WELL-CURED CONCRETE BLOCKS OR APPROVED STEEL CHAIRS. WELDING OF REINFORCING IS PROHIBITED UNLESS SPECIFICALLY NOTED.

PROVIDE MINIMUM COVER AT REINFORCING BARS AS FOLLOWS: CAST AGAINST EARTH 3 INCHES, EXPOSED TO EARTH OR WEATHER 2 INCHES AND AT SLABS ON GRADE 1.5 INCHES.

MASONRY

MASONRY HAS BEEN DESIGNED TO HAVE A COMPRESSIVE STRENGTH OF $FM' = 1,500$ BASED ON A UNIT STRENGTH METHOD.

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. CONCRETE MORTAR SHALL BE MADE FROM A MASONRY CEMENT MIX, TYPE M OR S WITH NET AREA COMPRESSIVE STRENGTH OF 1,900 PSI. GROUT SHALL BE A PEA-GRAVEL (3/8 INCH MAXIMUM SIZE AGGREGATE) CONCRETE MIX WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND BE ENTRAINED WITH AIR BETWEEN 6½ TO 9½ PERCENT

STEEL REINFORCEMENT IN MASONRY SHALL CONFORM TO ASTM A15, GRADE 60. PLACE BARS WITH A MINIMUM CLEAR DISTANCE OF ½ INCH BETWEEN MASONRY UNIT WALL AND BAR OR AS NOTED ON THE PLANS.

SHEATHING

SHEATHING SHALL BE PLYWOOD AND SHALL CONFORM WITH APA PS 1, EXPOSURE 1 SHEATHING GRADE CC OR OF A BETTER GRADE.

TIMBER FRAMING

SPECIES AND GRADES: UNLESS NOTED OTHERWISE, ALL TIMBER 2 TO 4 INCHES THICK SHALL BE HEM FIR NO 2 GRADE, TIMBER 5 INCHES AND GREATER IN THICKNESS SHALL BE HEM FIR NO 1 GRADE OR OF A BETTER SPECIES AND GRADE, VISUALLY GRADED IN ACCORDANCE WITH THE WESTERN WOODS PRODUCTS ASSOCIATION, LATEST GRADING RULES. ALL SAWN FRAMING SHALL BE STAMPED WITH LUMBER SPECIES AND GRADE.

TIMBER SHALL BE FABRICATED AND JOINED TO CREATE SNUG TIGHT CONNECTIONS UNLESS NOTED OTHERWISE. BOLTS SHALL CONFORM TO ASTM A307 AND BE GALVANIZED. HOLES FOR BOLTS SHALL BE NO GREATER THAN THE BOLT DIAMETER PLUS 1/8 INCH. ALL BOLTS WITH HEAD OR NUT IN CONTACT WITH TIMBER SHALL BE INSTALLED WITH GALVANIZED WASHERS UNDER THE HEAD AND NUTS. ALL NAILED CONNECTIONS SHALL BE CONNECTED USING GALVANIZED BOX NAILS.

PRE-FABRICATED HANGERS AND CONNECTORS NOTED IN THE PLANS ARE THE PRODUCT OF THE SIMPSON STRONG-TIE COMPANY. HANGERS AND CONNECTORS MADE BY OTHER MANUFACTURER'S MAY BE CONSIDERED FOR SUBSTITUTION IF THE HANGER OR CONNECTOR HAS EQUAL OR GREATER LOAD CAPACITY, EQUAL OR GREATER CORROSION RESISTANCE AND BE OF AN APPROPRIATE EQUAL CONFIGURATION. SUBMIT ICBO ER FOR REVIEW AND APPROVAL WITH ANY REQUEST FOR SUBSTITUTION.

TIMBER AND LUMBER NOTED AS TREATED SHALL BE PRESSURE PRESERVATIVE TREATED IN ACCORDANCE WITH AFWA C2 FOR IN GROUND CONTACT USING A PRESERVATIVE APPROVED BY THE ENGINEER. FIELD TREAT ALL DAMAGE TO PRESSURE TREATED ENDS AND SURFACES IN ACCORDANCE WITH AFWA M-4 USING 2 COATS OF COPPER NAPHTHANATE SOLUTION AT DAMAGE, CUTS, HOLES, CHAMFERS, DAPS, COUNTERSINKS, ETC.

TIMBER TONGUE AND GROOVE DECKING

TONGUE AND GROOVE DECKING SHALL BE DOUGLAS FIR, SELECT QUALITY DECKING, AS GRADED BY THE WEST COAST LUMBER INSPECTION BUREAU RULES AND CONFORMING TO AITC 112. PLACE DECKING IN A CONTROLLED RANDOM LAYOUT. ATTACH DECKING WITH ONE 16D FACE NAIL AND ONE 16 D NAIL THOUGH THE TONGUE AT EACH SUPPORT.

ABBREVIATIONS

@	AT
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
APPROX. or APPX.	APPROXIMATE
BLDG	BUILDING
BTM, BOT	BOTTOM
BTWN	BETWEEN
C&G	CURB & GUTTER
CB	CATCH BASIN
CBJ	CITY & BOROUGH OF JUNEAU
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CTR	CENTER
CY	CUBIC YARD
D/DIA/Ø	DIAMETER
DIM	DIMENSION
E	EAST
EA.	EACH
EG	EXISTING GRADE
EJ	EXPANSION JOINT
EXIST	EXISTING
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
MAX	MAXIMUM
MIN	MINIMUM
NO	NUMBER
OC	ON CENTER
PS	PRODUCT STANDARD
PSF	POUNDS PER SQUARE FOOT
STD	STANDARD
TYP	TYPICAL
WP	WORK POINT



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PNID Project No.: 152043



City & Borough of Juneau
**CBJ PARKS RESTROOM AND
CONCESSIONS IMPROVEMENTS**
Juneau, Alaska
CBJ Project NO. E16-165

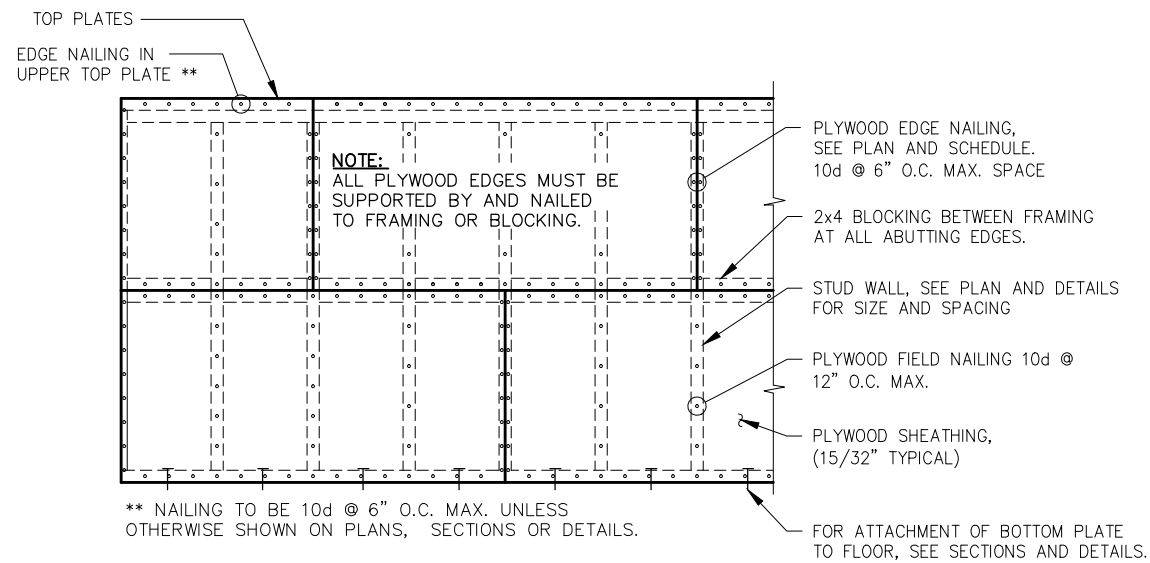
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SHEET TITLE
**STRUCTURAL
GENERAL
NOTES**

DATE: March 16, 2016
FILE: 15023

S100

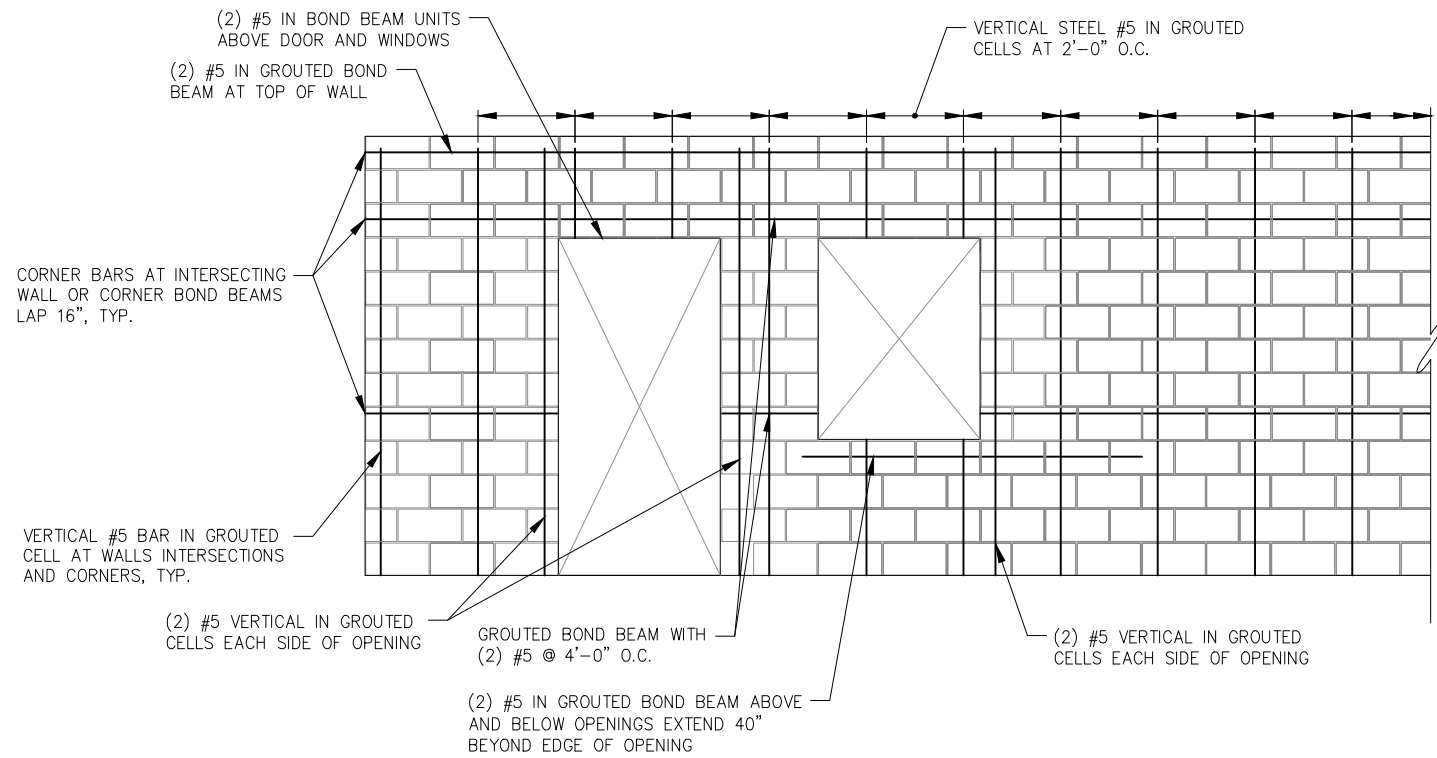


ELEVATION

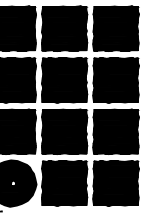
NOTES:

1. PLYWOOD IS SHOWN HORIZONTAL, IT MAY ALSO BE POSITIONED VERTICAL.
2. STAGGER PLYWOOD JOINTS A MINIMUM OF TWO STUD SPACES.
3. NAILS AT ABUTTING PLYWOOD EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING.
4. SEE TYPICAL WALL ELEVATIONS AND PLANS FOR HOLD DOWNS, STRAPS AND ADDITIONAL BLOCKING.

1 TYPICAL SHEAR WALL DETAIL



2 TYPICAL CMU WALL DETAIL 8" NOMINAL BLOCK



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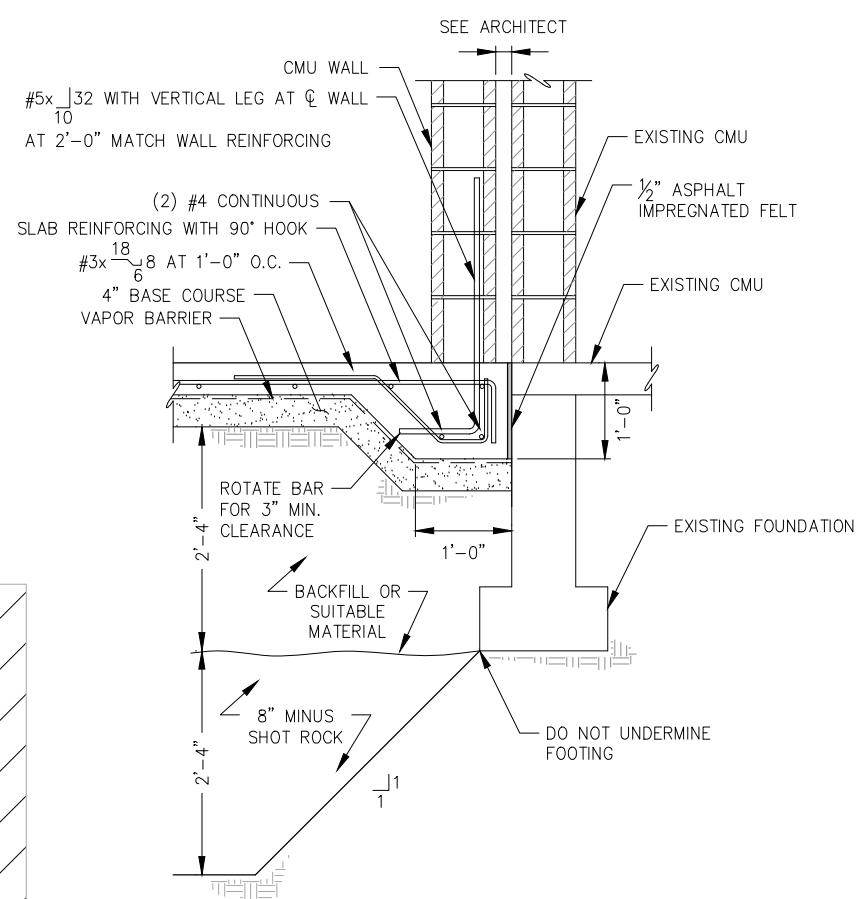
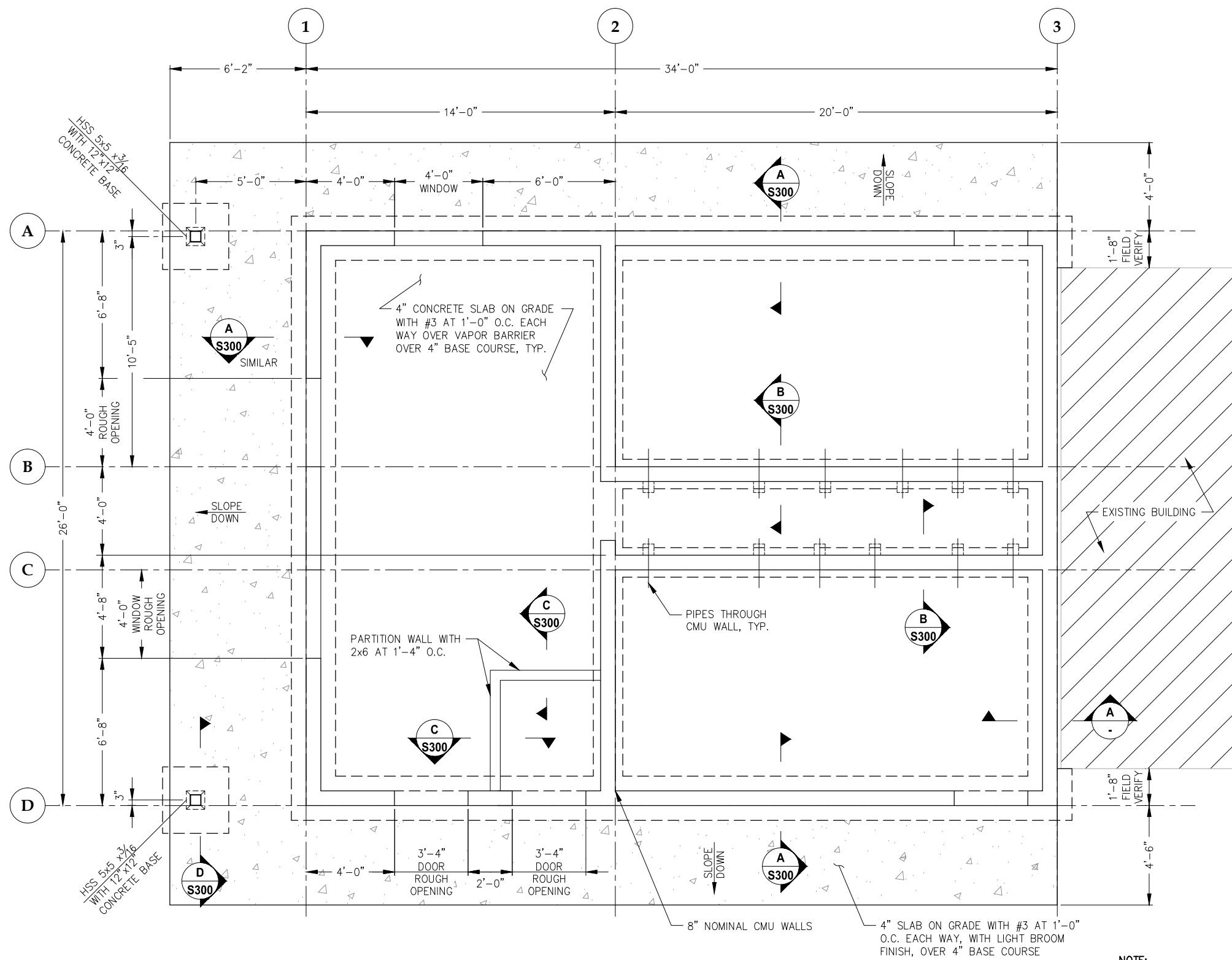
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SHEET TITLE
**TYPICAL
DETAILS**

DATE: March 16, 2016
FILE: 15023

S101



A SECTION AT EXISTING
SCALE: 0 6" 1' 2'

NOTE:
1. COORDINATE WITH ELECTRICAL FOR CONDUIT IN WALLS
2. COORDINATE WITH MECHANICAL FOR PIPES IN WALL

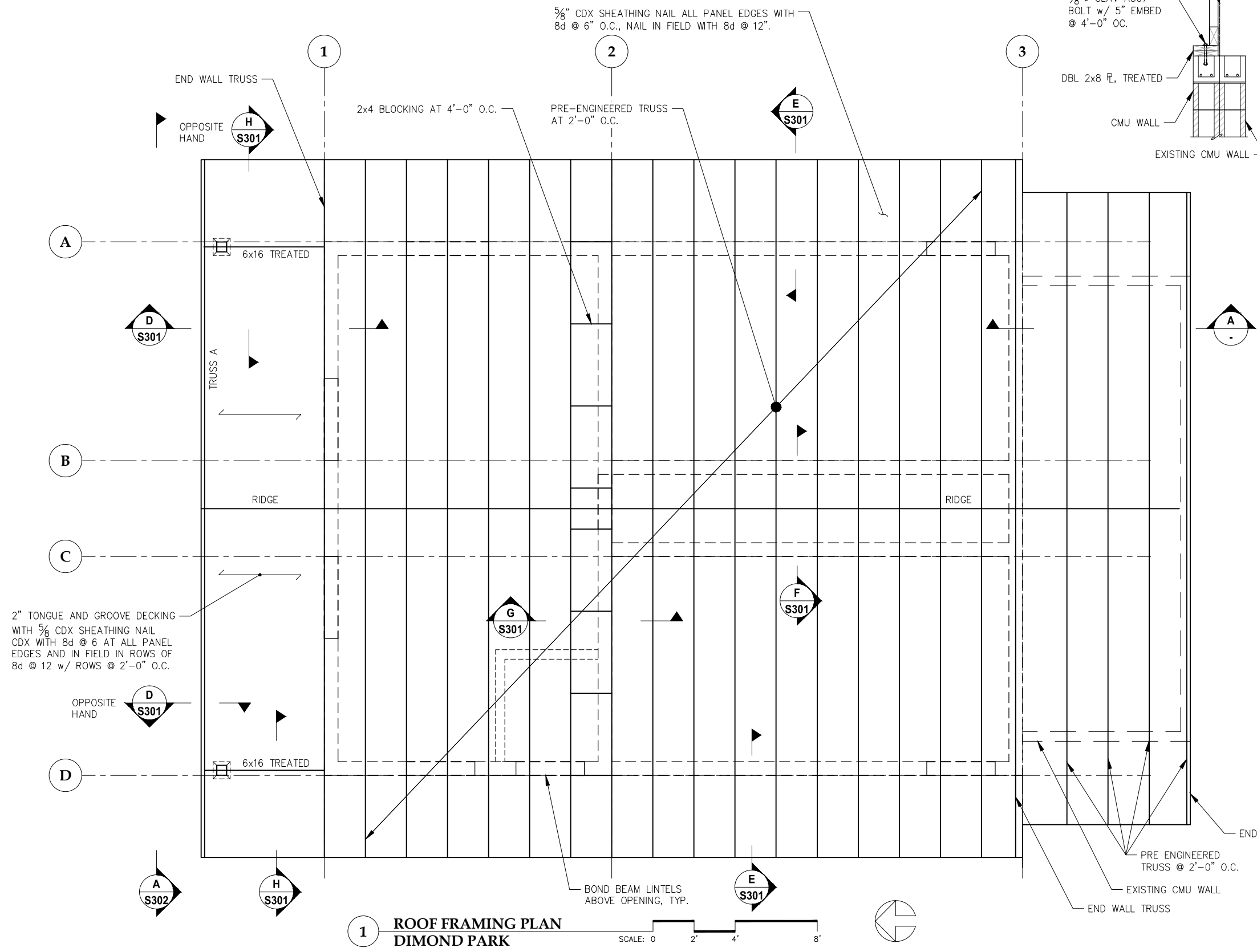
1 FOUNDATION AND FLOOR PLAN DIMOND PARK
SCALE: 0 2' 4' 8'

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SHEET TITLE
FOUNDATION-FLOOR PLAN DIMOND PARK

DATE: March 16, 2016
FILE: 15023



2" TONGUE AND GROOVE DECKING WITH 5/8" CDX SHEATHING NAIL CDX WITH 8d @ 6 AT ALL PANEL EDGES AND IN FIELD IN ROWS OF 8d @ 12 w/ ROWS @ 2'-0" O.C.

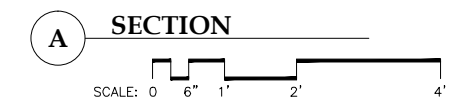
5/8" CDX SHEATHING NAIL ALL PANEL EDGES WITH 8d @ 6" O.C., NAIL IN FIELD WITH 8d @ 12".

15/32 CDX BLOCK ALL UNSUPPORTED EDGES. NAIL PANEL EDGES w/ 8d @ 6" O.C., NAIL IN FIELD w/ 8d @ 12" O.C.

5/8" GLAV A307 BOLT w/ 5" EMBED @ 4'-0" O.C.

2x6 @ BRACE w/ SIMPSON A35 EA END (3) 16d EA SIDE

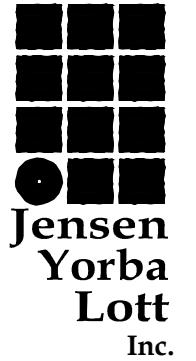
SIMPSON GBC
DOUBLE 2x TREATED PLATE
5/8" GALV ROD w/ 5" EMBED IN HILT HIT HY200 @ 2'-0"
EXISTING CMU WALL



A SECTION

SCALE: 0 6" 1' 2' 4'

1 ROOF FRAMING PLAN DIMOND PARK SCALE: 0 2' 4' 8'



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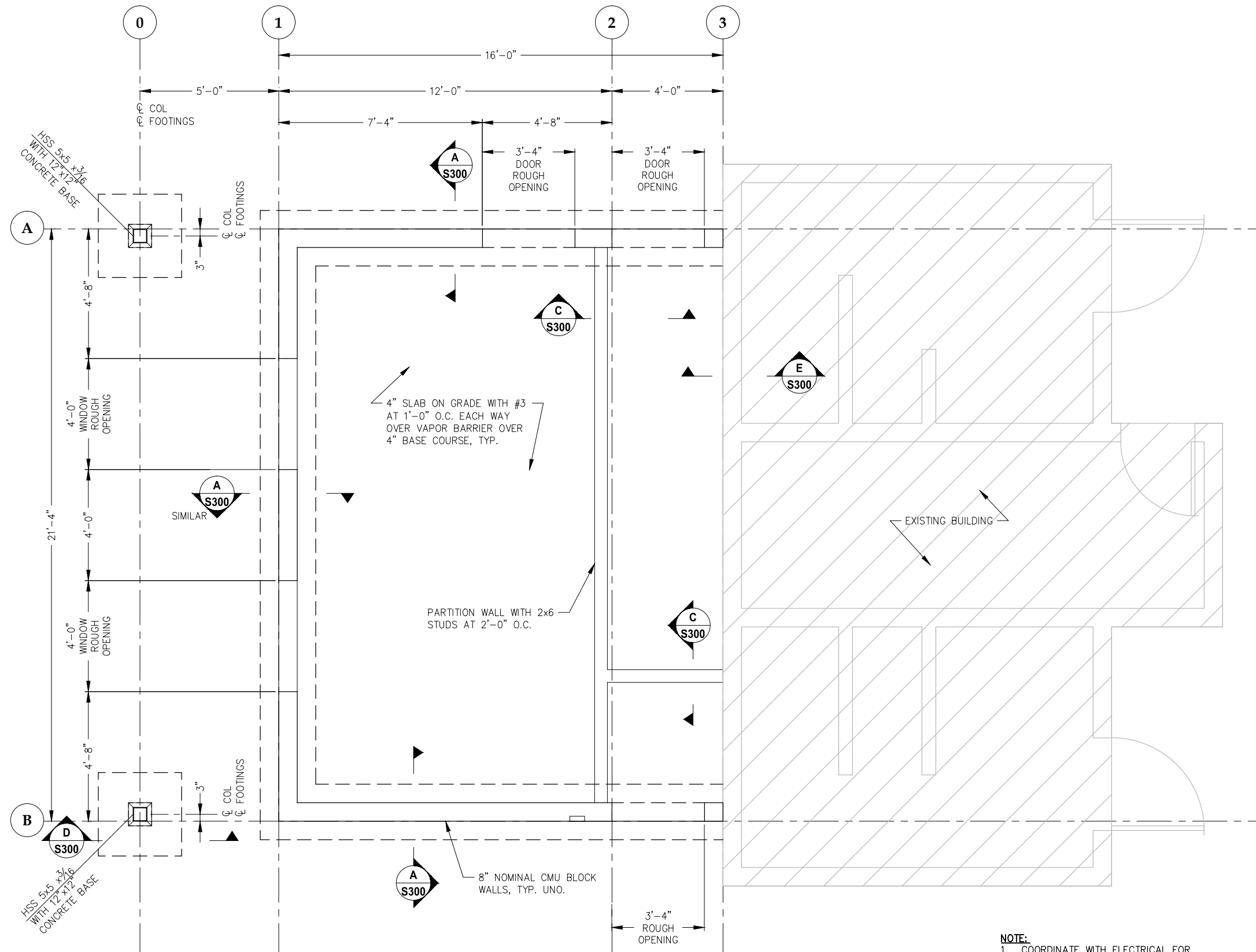
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SHEET TITLE
ROOF FRAMING DIMOND PARK

DATE: March 16, 2016
FILE: 15023

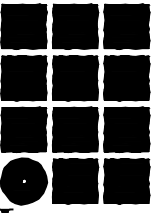
S202



- NOTE:**
- COORDINATE WITH ELECTRICAL FOR CONDUIT IN CMU WALLS
 - COORDINATE WITH MECHANICAL FOR PIPES IN CMU WALLS

1 FOUNDATION AND FLOOR PLAN MELVIN PARK

SCALE: 0 1' 2' 4'



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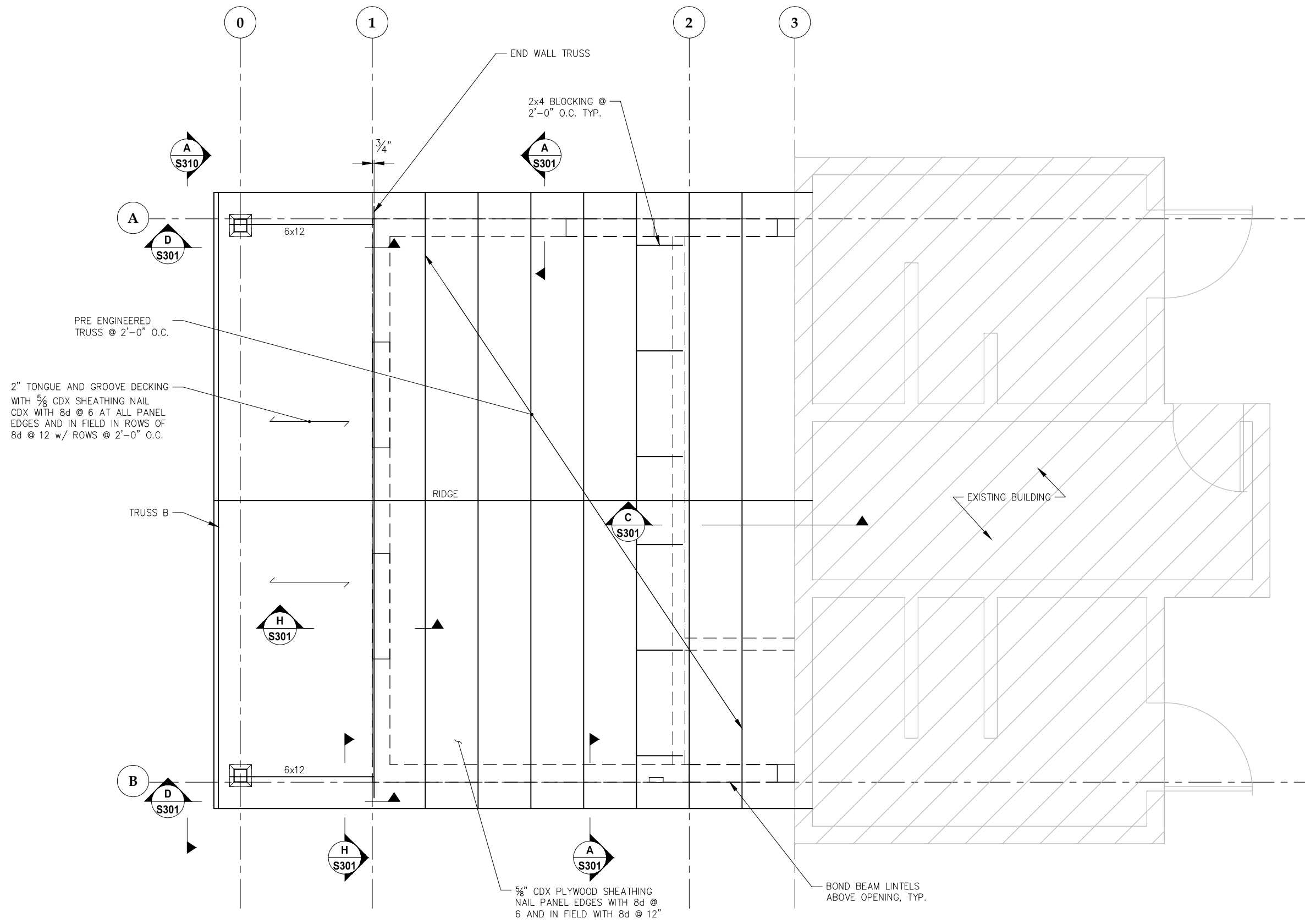
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SHEET TITLE
**FOUNDATION AND
FLOOR PLAN
MELVIN PARK**

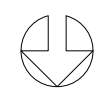
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S210

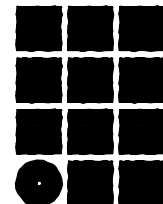
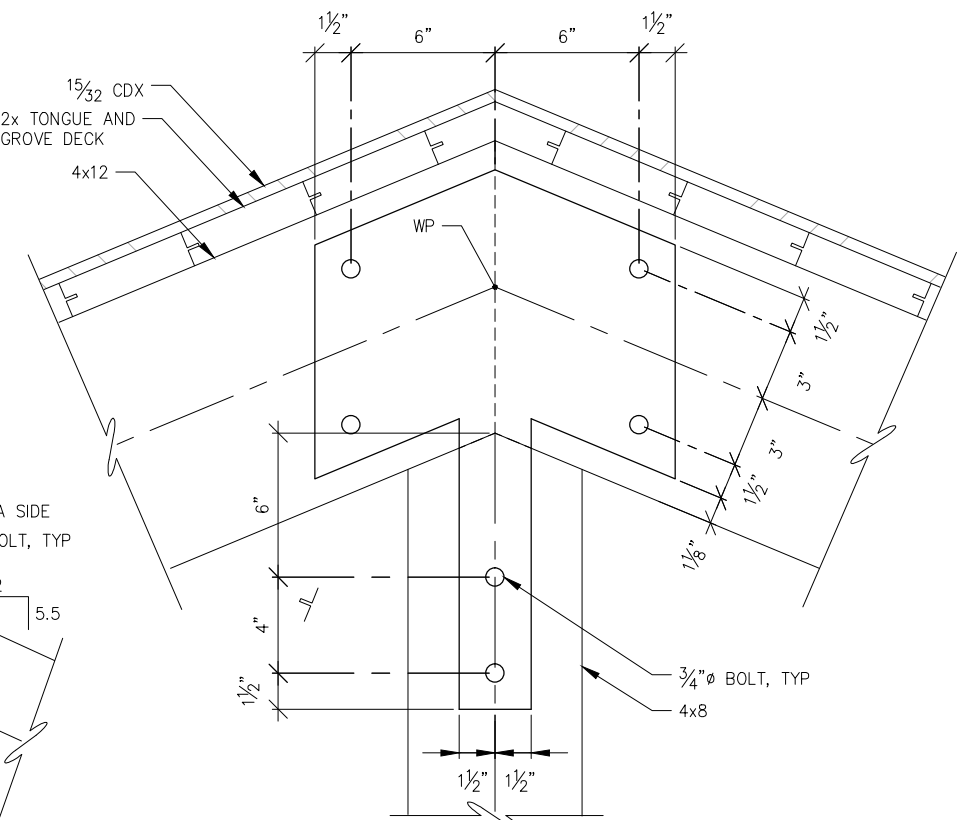
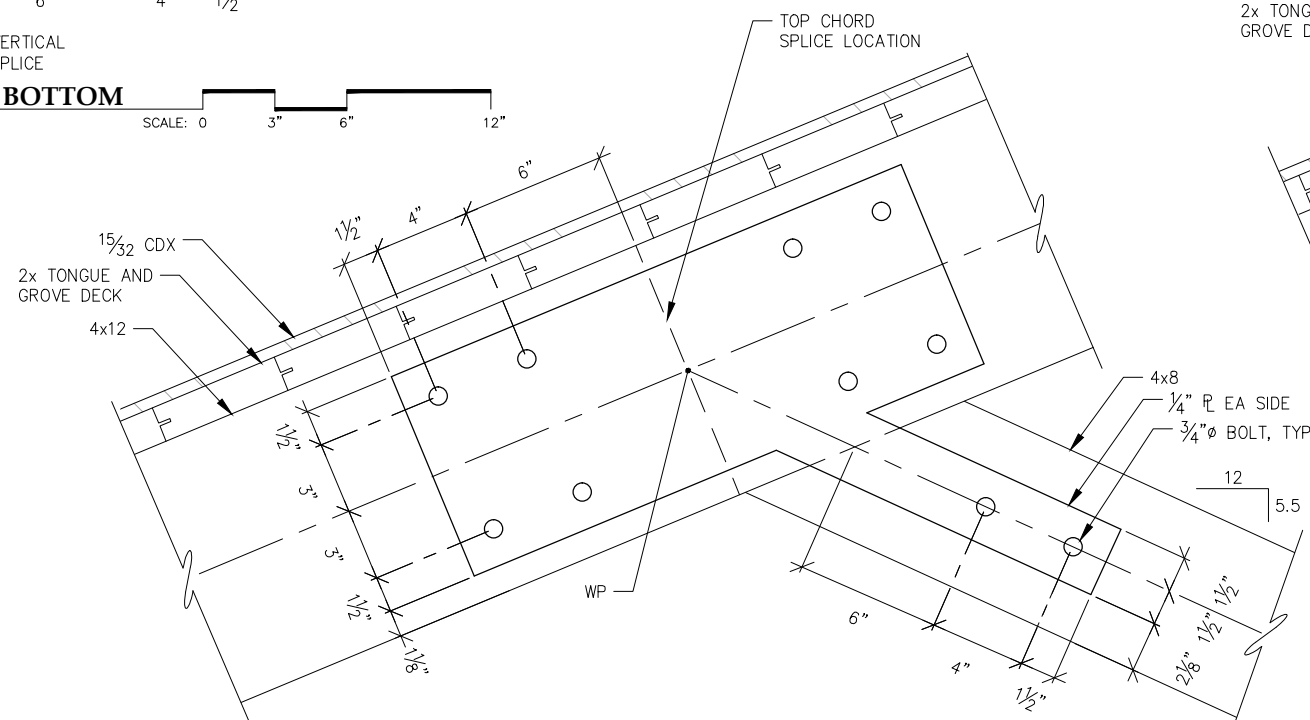
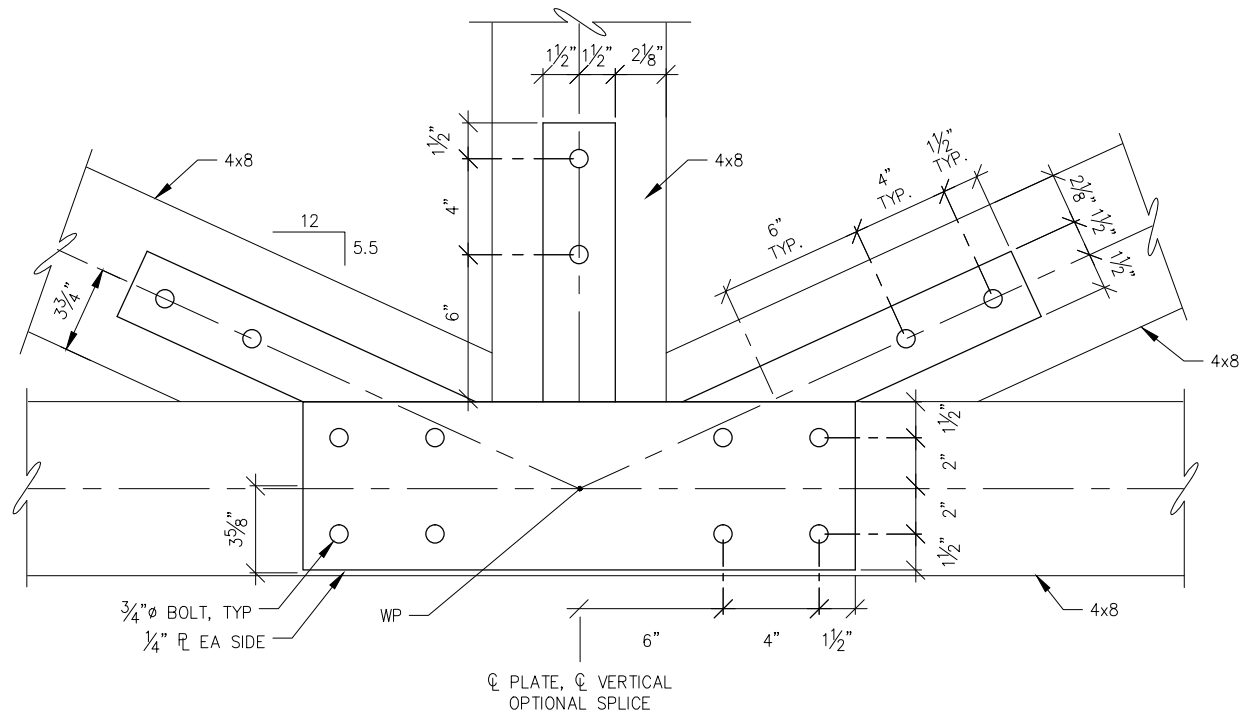
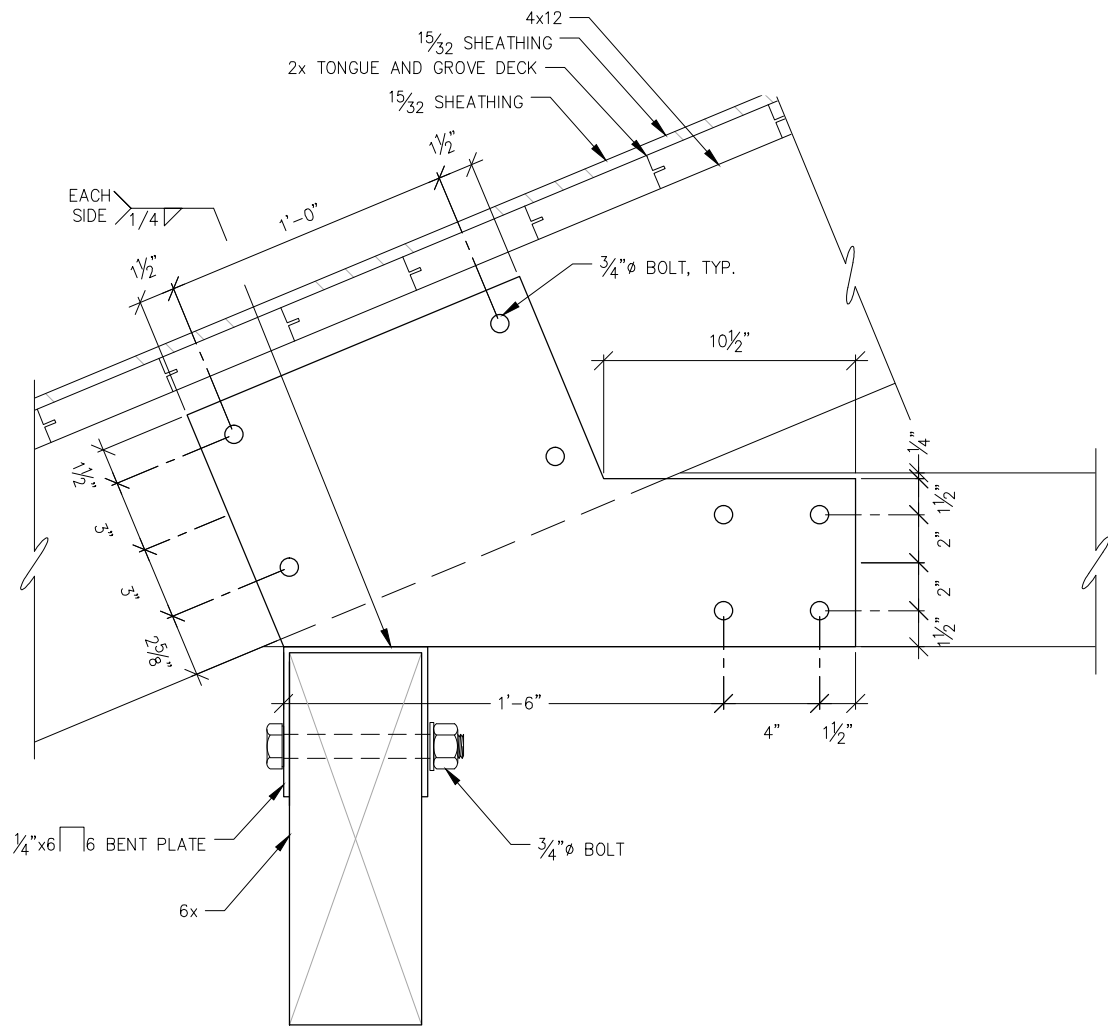
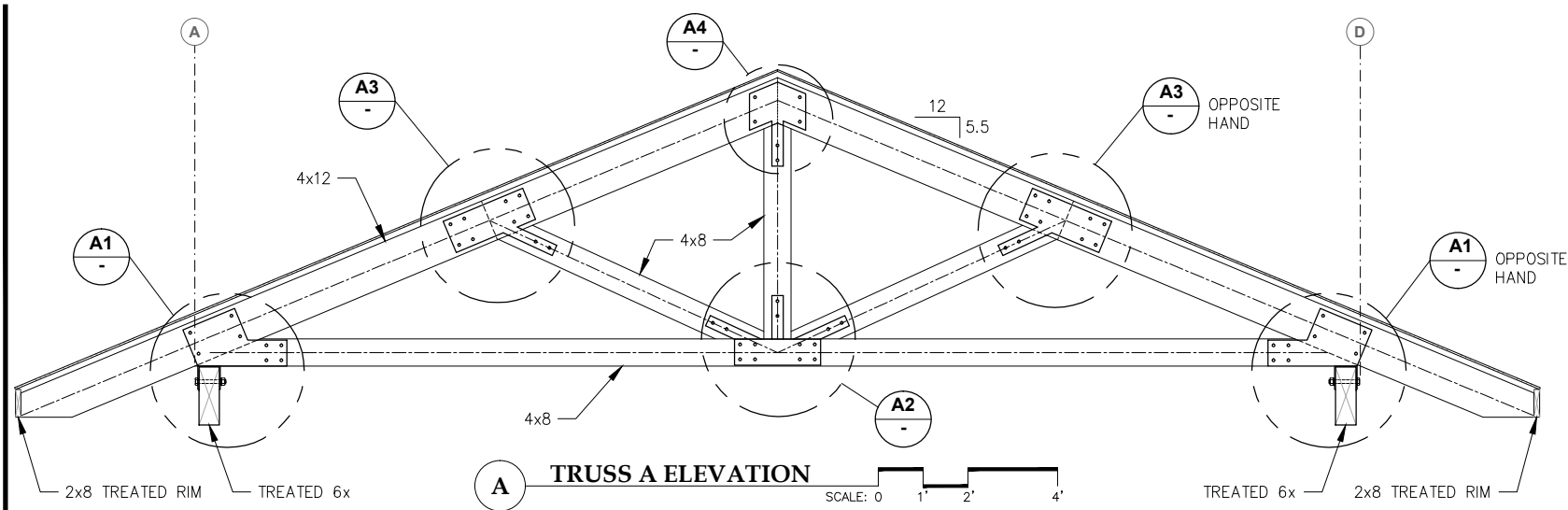


**1 ROOF FRAMING PLAN
MELVIN PARK**

SCALE: 0 1' 2' 4'



CD's
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SHEET TITLE
ROOF FRAMING
DATE: March 16, 2016
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City & Borough of Juneau
**CBJ PARKS RESTROOM AND
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Juneau, Alaska
CBJ Project NO. E16-165

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 SHEET TITLE
TRUSS DETAILS

DATE: March 16, 2016
FILE: 15023

S302

SYMBOLS

	CW COLD WATER		THERMOMETER		AFF ABOVE FINISHED FLOOR
	HW HOT WATER		T&P TEMPERATURE AND PRESSURE RELIEF VALVE		BDD BACK DRAFT DAMPER
	V VENT		WHA WATER HAMMER ARRESTOR		CO CLEANOUT
	W WASTE		ET-1 COMPRESSION TANK		CU COPPER
	CAPPED		ACCESS DOOR		DF DRINKING FOUNTAIN
	DV DRAIN VALVE		BELOW GROUND		EF EXHAUST FAN
	BALL VALVE		CONNECTION POINT		FD FLOOR DRAIN
	PITCHED DOWN				HB HOSE BIBB
	WATER METER				HWT HOT WATER TANK
	TYPICAL PIPING JOINTS				L LAVATORY
	FCO FLOOR CLEANOUT				O.C. ON CENTER

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET, FLUSH VALVE	-	1-1/2	3	2
URINAL	-	3/4	2	2
PRIMING LINE	-	1/2	-	-
LAVATORY	-	1/2	1-1/2	1-1/4
HOSE BIBB	-	3/4	-	-
FLOOR DRAIN	-	-	2	1-1/2
DRINKING FOUNTAIN	-	1/2	1-1/2	1-1/4
TRIPLE POT SINK	1/2 (2)	1/2 (2)	2	2
HAND WASH SINK	1/2	1/2	2	1-1/2
SERVICE SINK	1/2	1/2	3	2

EQUIPMENT SCHEDULE - DIMOND

EQUIPMENT	MANUFACTURER	MODEL	CONTROLS/OPTIONS
HOT WATER TANK HWT-1	EEMAX	PA028240T2T	ON DEMAND ELECTRIC HOT WATER HEATER 27-28.5 KW INPUT, 240 VOLT, 1-PHASE. 2.5 GPM FLOW AT 45F GROUND WATER TEMPERATURE AND 70F RISE. LED TEMPERATURE CONTROL PANEL.
COMPRESSION TANK, ET-1	AMTROL	THERM-X-TROL ST-5-C	PRE-PRESSURIZED BUTYL DIAPHRAGM THERMAL EXPANSION CHAMBER, ADJUSTABLE, FACTORY CHARGED TO 40 PSI, SEALED AIR CUSHION. FDA COMPLIANT FOR DOMESTIC HOT WATER USE. ASME RATED. MINIMUM VOLUME 2.0 GALLONS.
WATER HAMMER ARRESTOR, WHA	AMTROL, ZURN	Z1700	ANSI A1126.1; STAINLESS STEEL CONSTRUCTION, BELLOWS TYPE. SIZED IN ACCORDANCE WITH PDI WH-201. WHA-1 SIMILAR TO ZURN 100 WITH 3/4-INCH THREADED CONNECTIONS; WHA-2 SIMILAR TO ZURN 200 WITH 1-INCH THREADED CONNECTIONS. A. PRE-CHARGED SUITABLE FOR OPERATION IN TEMPERATURE RANGE -100 TO 300 DEGREES F AND MAXIMUM 150 PSI WORKING PRESSURE. SIZED PER MANUFACTURER'S RECOMMENDATIONS FOR FIXTURES SERVED.
TRAP PRIMER VALVE	PPP, INC.	PR 500	ALL BRASS, 1/2-INCH IPS, SPRING-LOADED, PRESSURE DIFFERENTIAL ACTIVATED WITH VACUUM BRAKING MEANS. MULTIPLE OUTLETS AS REQUIRED AND APPROVED.

EXHAUST FAN SCHEDULE - DIMOND

EQUIPMENT	AREA SERVED	CFM	TSP, INCHES OF WATER	DESIGN MANUFACTURER AND MODEL	MINIMUM HORSEPOWER ELECTRICAL CHARACTERISTICS	FEATURES AND ACCESSORIES
EF-1	WOMENS	210	0.25	GREENHECK SP-A250	1/4 HP, 120 VOLT	CEILING MOUNTED, WALL CAP, CONTROLLED BY OCCUPANCY SENSOR WITH TIME DELAY.
EF-2	MENS	140	0.25	GREENHECK SP-A200	1/4 HP, 120 VOLT	CEILING MOUNTED, WALL CAP, CONTROLLED BY OCCUPANCY SENSOR WITH TIME DELAY.
EF-3	JANITOR	60	0.25	GREENHECK SP-A90	1/4 HP, 120 VOLT	CEILING MOUNTED, WALL CAP, CONTROLLED BY WALL SWITCH.

PLUMBING EQUIPMENT SCHEDULE - DIMOND

EQUIPMENT	MANUFACTURER	MODEL	CONTROLS/OPTIONS	ADA COMPATIBLE
LAVATORY L-1	ACORN WILLOUGHBY	1652FA-1-04-M	WALL HUNG, STAINLESS STEEL. SELF-CLOSE PUSH-BUTTON SUPPLY FITTING HOT AND COLD ACTUATION VALVE, SUPPLY FITTING CHICAGO HC 807E12-669, MOUNTED IN THE MIDDLE PUNCHING OF THE LAVATORY. ADDITIONAL PUNCHINGS PLUGGED WITH CLOSURE BUTTONS. GLOBE VALVE STOP INSTALLED IN THE PIPE SPACE. ACORN MODEL ST 70 LAV TEMPERING VALVE.	YES
URINAL U-1	ACORN WILLOUGHBY	2162-W-1-FV	WASHOUT TYPE, STAINLESS STEEL WITH BACK SPUD AND TRAP. RECESSED ELECTRONIC FLUSH VALVE ASSEMBLY FOR 8-INCH CONCRETE WALL, INCLUDING STOP, VACUUM BREAKER, OVERRIDE PUSH BUTTON, TUBE AND FITTINGS, AND TAILPIECE.	YES
WATER CLOSET WC WC-1 WC-2 (ADA HEIGHT)	ACORN WILLOUGHBY	2105-W-1-FVT	WALL HUNG, STAINLESS STEEL WITH BACK SPUD AND TRAP. SIPHON JET TYPE RECESSED ELECTRONIC FLUSH VALVE ASSEMBLY FOR 8-INCH CONCRETE WALL, INCLUDING STOP, VACUUM BREAKER, OVERRIDE PUSH BUTTON, TUBE AND FITTINGS, AND TAILPIECE.	YES
HOSE BIBB HB	ZURN	Z-1321	BRONZE OR BRASS WITH INTEGRAL MOUNTING FLANGE, REPLACEABLE HEXAGONAL DISC, HOSE THREAD SPOUT, CHROME PLATED WHERE EXPOSED WITH LOCK SHIELD AND REMOVABLE KEY, INTEGRAL VACUUM BREAKER. AUTOMATIC DRAINING. PROVIDE SPARE KEY.	NO
DRINKING FOUNTAIN DF-1 DF-2 (ADA HEIGHT)	MDF	MODEL 10485WM	WALL HUNG 16 GAGE 304 STAINLESS STEEL. PUSH BUTTON PNEUMATIC ACTUATION VALVE WITH LESS THAN 5 POUNDS PUSH TO ACTIVATE VALVE. DF SHALL BE FURNISHED WITH BUBBLER. BUBBLER SHALL HAVE A SOLID MOUTH GUARD AND A WALL MOUNT CARRIER PLATE.	YES
FLOOR DRAIN FD	ZURN	ZN-415	LACQUERED CAST-IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMP COLLAR, 1/2-INCH TRAP PRIMER CONNECTION, AND ROUND ADJUSTABLE NICKEL-BRONZE 6-INCH DIAMETER STRAINER WITH SQUARE HOLES, WITH VANDAL PROOF SECURE TOP.	-
TRIPLE POT SINK S-2	JUST	NSF-354	INSTITUTIONAL GRADE SCULLERY SINK TRIPLE COMPARTMENT. STAINLESS STEEL 57"x27"x12" DEEP, WITH 12" HIGH BACKSPASH AND DRAIN BOARDS ON LEFT SIDE. TRIM 8" CHROME PLATED TUBE SPOUT WITH AERATOR, TWO REQUIRED. CHROME PLATED CAST BRASS BODY. TWIST HANDLE DRAIN WITH BRONZE BODY, STAINLESS STEEL FLAT GRID STRAINER FOR EACH COMPARTMENT.	NO
SERVICE SINK SS-1	JUST	A-18665-TVB	20"x15"x12" DEEP STAINLESS STEEL WALL MOUNTED SERVICE SINK. WALL MOUNTED RIGID BRASS SPOUT WITH INDIVIDUAL HANDLES AND PAIL HOOK, VACUUM BREAKER, SOLID CAST BRASS BODY. POLISHED CHROME FINISH. OPEN GRID STAINLESS STEEL STRAINER.	NO
HAND WASH SINK S-1	JUST	A-544-FS	16"x12"x6" DEEP STAINLESS STEEL HAND WASH SINK. TRIM: GOOSENECK FAUCET WITH 4-INCH WRISTBLADE HANDLES 8-INCH CENTERS, STAINLESS STEEL FLAT GRID STRAINER.	NO

* SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND MANUFACTURERS.

CODE NOTES:

- THE MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODES, THE 2009 UNIFORM PLUMBING CODE, THE 2011 NATIONAL ELECTRICAL CODE, THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION, STATE OF ALASKA AND CITY & BOROUGH OF JUNEAU (CBJ) REQUIREMENTS. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE U.L. LABEL. COORDINATE WITH BUILDING OFFICIAL HAVING AUTHORITY FOR ALL REQUIRED PERMIT SUBMITTALS, TESTING, AND INSPECTIONS.
- ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE CROSS CONTAMINATION AND BACKFLOW PREVENTION REQUIREMENTS OF CBJ. ALL DOMESTIC WATER DRAIN VALVES AND HOSE BIBBS SHALL HAVE VACUUM BREAKERS.
- ALL SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST SMACNA REQUIREMENTS AND THE STATE OF ALASKA AND CBJ REQUIREMENTS. VENTILATION IS TO BE DONE VIA A COMBINATION OF NATURAL VENTILATION FOR THE CONCESSION AREAS AND MECHANICAL VENTILATION FOR TOILET ROOMS AND JANITOR ROOMS. TESTING AND BALANCE WORK AND REPORTS OF THE MECHANICAL SYSTEMS ARE REQUIRED.
- KITCHEN ASSUMPTIONS: CONCESSIONS AREA IS INTENDED FOR SALE OF PACKAGED AND WARM-UP STYLE FOOD PRODUCTS UTILIZING A MICRO WAVE OVEN. NO COOKING SURFACES ARE INTENDED AND THUS NO KITCHEN HOODS ARE INCLUDED IN THE PROJECT. NO GREASE INTERCEPTOR IS INCLUDED IN THE PROJECT AS USE OF TRIPLE POT SINK IS ASSUMED TO BE MINIMAL. CHEMICAL DISINFECTION OF KITCHEN WARE IS INTENDED FOR CLEANING PURPOSES WITH 120F HOT WATER SUPPLIED.

SHEET NOTES:

- THE WORK CONSISTS OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS IN ACCORDANCE WITH THE DRAWINGS OR SPECIFICATIONS, OR BOTH, TOGETHER WITH ANY INCIDENTAL ITEMS NOT SHOWN OR SPECIFIED WHICH CAN BE REASONABLY INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM DESCRIBED OR SHOWN AS INTENDED. EQUIPMENT INSTALLED SHALL BE IDENTICAL AND OF EQUAL QUALITY AS SPECIFIED.
- THE PLUMBING SYSTEMS AND MECHANICAL SYSTEMS SHALL BE INSTALLED FOR THE GREATEST ACCESSIBILITY FOR SERVICE AND MAINTENANCE. THE PLUMBING SYSTEMS SHALL BE INSTALLED TO BE DRAINED AT LOW POINTS, AND UTILIZED FOR SEASONAL USE. COORDINATE RELATED MECHANICAL SCOPE AND TASKS WITH OTHER TRADES AS REQUIRED PRIOR TO PERFORMING WORK.
- PROVIDE OPERATING AND MAINTENANCE MANUALS FOR THE MECHANICAL SYSTEMS. PROVIDE AS-BUILT DRAWINGS OF THE MECHANICAL WORK. PROVIDE TRAINING ON MECHANICAL SYSTEMS.

MECHANICAL SHEET LIST

NUMBER	TITLE
M100	SYMBOLS & SCHEDULES
M201	MELVIN MECHANICAL - FOUNDATION & FLOOR PLAN
M301	DIMOND MECHANICAL - FOUNDATION PLAN
M302	DIMOND MECHANICAL - FLOOR PLAN
M501	DETAILS

EQUIPMENT SCHEDULE - MELVIN

EQUIPMENT	MANUFACTURER	MODEL	CONTROLS/OPTIONS
HOT WATER TANK HWT-2	EEMAX	PA019240TC	ON DEMAND ELECTRIC HOT WATER HEATER 18-19 KW INPUT, 240 VOLT, 1-PHASE. 1.5 GPM FLOW AT 45F GROUND WATER TEMPERATURE AND 70F RISE. LED TEMPERATURE CONTROL PANEL.
COMPRESSION TANK, ET-1	AMTROL	THERM-X-TROL ST-5-C	PRE-PRESSURIZED BUTYL DIAPHRAGM THERMAL EXPANSION CHAMBER, ADJUSTABLE, FACTORY CHARGED TO 40 PSI, SEALED AIR CUSHION. FDA COMPLIANT FOR DOMESTIC HOT WATER USE. ASME RATED. MINIMUM VOLUME 2.0 GALLONS.
LAV MIXING VALVE, TV-1	SELECTRONIC	1070	ROUGH CHROME TEMPERATURE MIXING VALVES. TEMPERATURE LIMITING AND PRESSURE BALANCING WITH COMBINATION STRAINER, CHECK STOPS, 3/4" INLET AND OUTLET SIZE. SEAT AT DISCHARGE TEMPERATURE OF 115°F AND RECORDED FOR O&M. DATA REQUIRED. THERMOSTATIC MIXING VALVES MEETING ASSE 1070. 8" DECK PLATE.
TRAP PRIMER VALVE	PPP, INC.	PR 500	ALL BRASS, 1/2-INCH IPS, SPRING-LOADED, PRESSURE DIFFERENTIAL ACTIVATED WITH VACUUM BRAKING MEANS. MULTIPLE OUTLETS AS REQUIRED AND APPROVED.

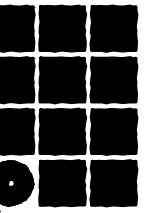
EXHAUST FAN SCHEDULE - MELVIN

EQUIPMENT	AREA SERVED	CFM	TSP, INCHES OF WATER	DESIGN MANUFACTURER AND MODEL	MINIMUM HORSEPOWER ELECTRICAL CHARACTERISTICS	FEATURES AND ACCESSORIES
EF-4	JANITOR	60	0.25	GREENHECK SP-A90	1/8 HP, 30 WATTS, 120 VOLT	CEILING MOUNTED, WALL CAP SIMILAR TO GREENHECK WC-10x3, CONTROLLED BY WALL SWITCH.
EF-5	MECH	300	0.25	GREENHECK SBE-1H20-4	1/4 HP, 120 VOLT	WALL MOUNT PROPELLER TYPE. BELT DRIVE, SAFETY CAGE. CONTROLLED BY WALL SPEED CONTROL SWITCH.

PLUMBING EQUIPMENT SCHEDULE - MELVIN

EQUIPMENT	MANUFACTURER	MODEL	CONTROLS/OPTIONS	ADA COMPATIBLE
LAV FAUCET F-1	AMERICAN STANDARD	1340.119	METERING PILLAR TAP FAUCET. VANDAL RESISTANT SOLID BRASS CONSTRUCTION. PUSH BUTTON HANDLE, 0.5 GPM, ADJUSTABLE FLOW CYCLE CONTROL.	YES
HOSE BIBB HB	ZURN	Z-1321	BRONZE OR BRASS WITH INTEGRAL MOUNTING FLANGE, REPLACEABLE HEXAGONAL DISC, HOSE THREAD SPOUT, CHROME PLATED WHERE EXPOSED WITH LOCK SHIELD AND REMOVABLE KEY, INTEGRAL VACUUM BREAKER. AUTOMATIC DRAINING. PROVIDE SPARE KEY.	NO
FLOOR DRAIN FD	ZURN	ZN-415	LACQUERED CAST-IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMP COLLAR, 1/2-INCH TRAP PRIMER CONNECTION, AND ROUND ADJUSTABLE NICKEL-BRONZE 6-INCH DIAMETER STRAINER WITH SQUARE HOLES, WITH VANDAL PROOF SECURE TOP.	-
TRIPLE POT SINK S-2	JUST	NSF-354	INSTITUTIONAL GRADE SCULLERY SINK TRIPLE COMPARTMENT. STAINLESS STEEL 57"x27"x12" DEEP, WITH 12" HIGH BACKSPASH AND DRAIN BOARDS ON LEFT SIDE. TRIM 8" CHROME PLATED TUBE SPOUT WITH AERATOR, TWO REQUIRED. CHROME PLATED CAST BRASS BODY. TWIST HANDLE DRAIN WITH BRONZE BODY, STAINLESS STEEL FLAT GRID STRAINER FOR EACH COMPARTMENT.	NO
SERVICE SINK SS-1	AMERICAN STANDARD	FLORWELL	BOWL FLOOR MOUNTED: 28 x 28 x 8 INCH HIGH ENAMELED CAST IRON CORNER DESIGN, WITH RIM GUARD AND 3 INCH DRAIN. STAINLESS STEEL STRAINER. TRIM: ASME A112.18.1 EXPOSED WALL TYPE COMBINATION SUPPLY WITH LEVER HANDLES, SPOUT WALL BRACE, VACUUM BREAKER, HOSE END SPOUT, STRAINERS, ECCENTRIC ADJUSTABLE INLETS, INTEGRAL SCREWDRIER STOPS WITH COVERING CAPS AND ADJUSTABLE THREADED WALL FLANGES. ACCESSORIES FOR SS-1: 5 FEET OF 1/2-INCH DIAMETER PLAIN END REINFORCED RUBBER HOSE. HOSE CLAMP HANGER. PAIL HOOK. MOP HANGER.	NO
HAND WASH SINK S-1	JUST	A-544-FS	16"x12"x6" DEEP STAINLESS STEEL HAND WASH SINK. TRIM: GOOSENECK FAUCET WITH 4-INCH WRISTBLADE HANDLES 8-INCH CENTERS, STAINLESS STEEL FLAT GRID STRAINER.	NO

* SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND MANUFACTURERS.



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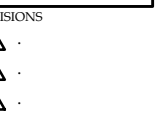
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MURRAY & ASSOCIATES P.C.
CONSULTING ENGINEERS



City & Borough of Juneau
CBJ PARKS RESTROOM AND CONCESSIONS IMPROVEMENTS
 Juneau, Alaska
 CBJ Project NO. E16-165

CONSTRUCTION DOCUMENTS



SHEET TITLE
SYMBOLS & SCHEDULES

DATE: March 16, 2016
FILE: 15023

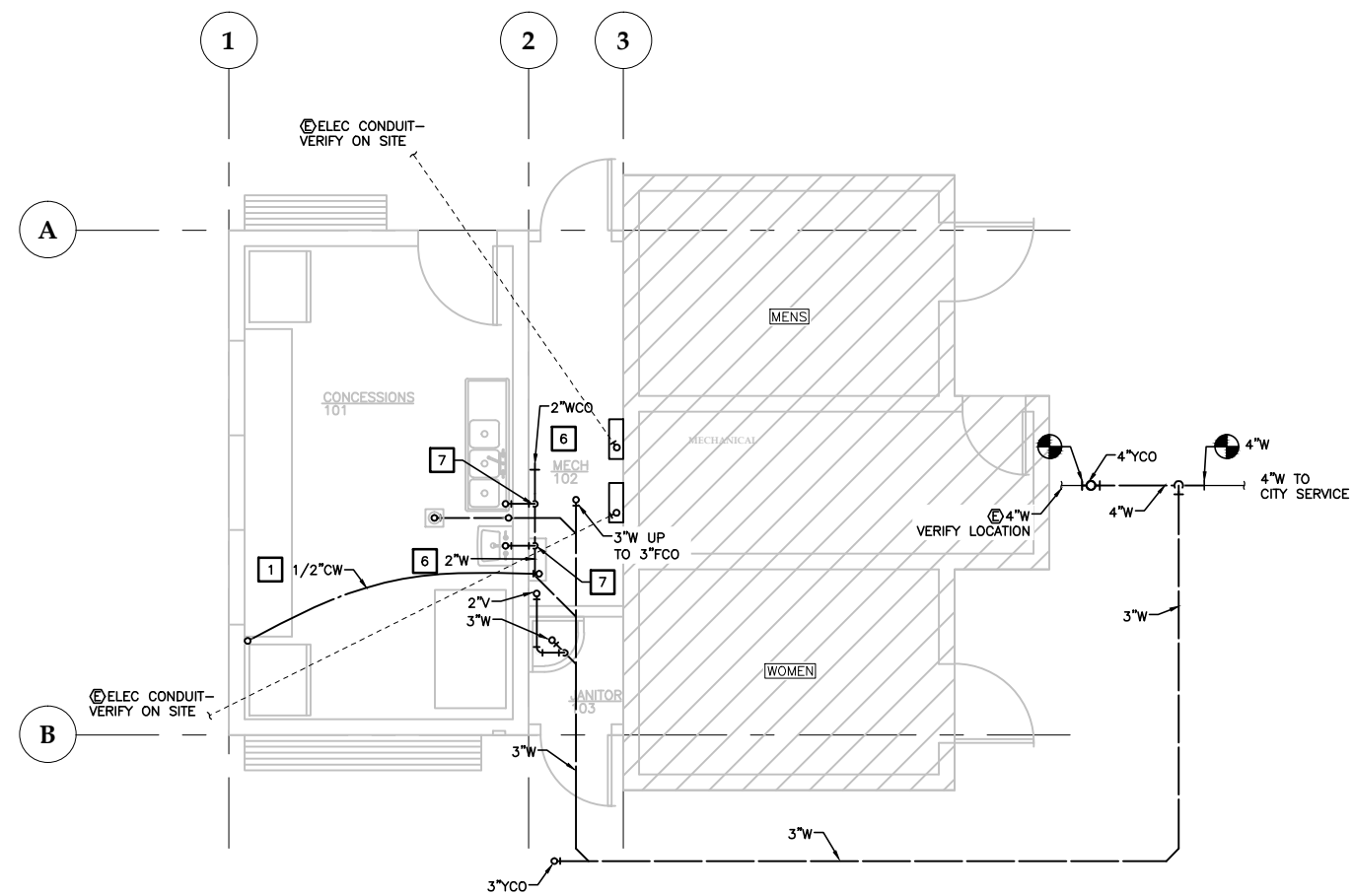
M100

CONSTRUCTION NOTES:

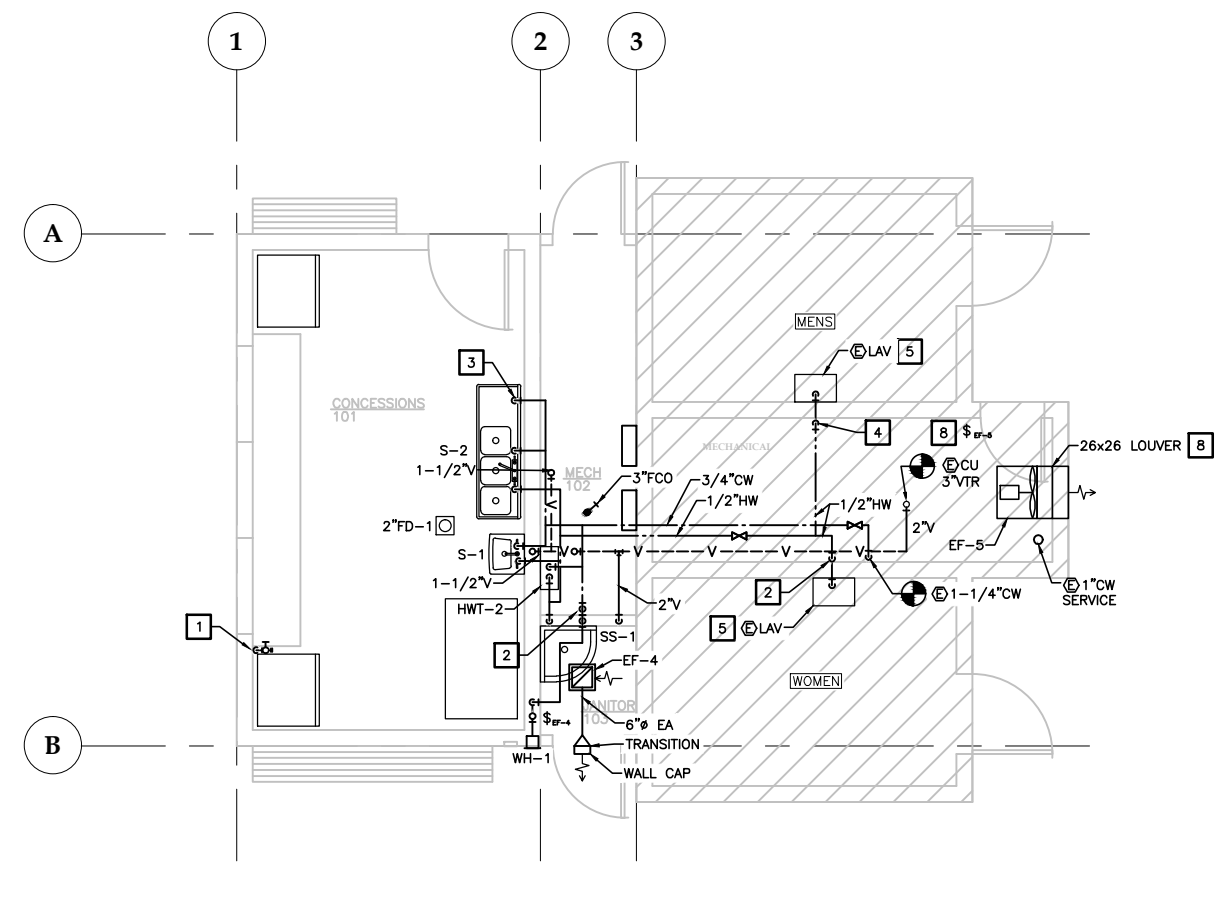
- 1 1/2" CW STOP INSTALL AT 2'-6" AFF.
- 2 1/2" CW DOWN TO TRAP PRIMER. 1/2" DRAIN VALVE INSTALLED BELOW PRIMER FOR DRAINING.
- 3 LOCATE CW HB-1 AT 2'-0" AFF. FOR SERVICE AND DRAINING OF WATER SYSTEM.
- 4 INSTALL MIXING VALVE FOR F-1 FAUCET INSIDE MECHANICAL ROOM ON WALL. CONNECT MIXING VALVE TO EXISTING 1/2" CW FEED TO LAV AND NEW 1/2" HW. CONNECT DISCHARGE TO FAUCET F-1.
- 5 REMOVE & REPLACE FAUCET F-1.
- 6 PIPING ABOVE GRADE, SECURED TO WALL.
- 7 2" W DN, 1-1/2" V UP
- 8 INSTALL EF-5 HIGH ON WALL, CONNECT TO LOUVER OPENING WITH SHEET METAL TRANSITION. INSTALL SPEED CONTROL SWITCH ON WALL. LOCATE OPENING AS HIGH AS POSSIBLE.

SHEET NOTES:

- 1. INSTALL PLUMBING SYSTEM PER UPC REQUIREMENTS. SLOPE WATER PIPING TO DRAIN AT SINGLE LOW POINT WITH DRAIN VALVE. FOR SEASONAL USE. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL CONNECTIONS.
- 2. WATER AND VENT PIPING INSTALLED WHERE SHOWN SUPPORTED FROM CHANNEL FRAMING SECURED FLOOR, AND WALL. CAN BE SECURED TO WALL. HORIZONTAL VENT PIPING INSTALLED AT MINIMUM 8'-0" ABOVE FINISHED FLOOR.
- 3. ALL DRAIN VALVES AND HOSE BIBBS ARE TO HAVE A VACUUM BREAKER AND CAP.
- 4. PIPES ARE SHOWN STAGGERED FOR CLARITY. PIPING TO BE STACKED VERTICALLY ON WALL IN MECHANICAL OR WERE POSSIBLE.
- 5. INSTALL SHUTOFF VALVES FOR CW MAIN FOR CONCESSION (3/4"), AND HW MAIN (1/2").
- 6. PIPING ARRANGED TO BE DRAINED ON A SEASONAL BASIS.



1 MELVIN PARK - LOWER LEVEL/FOUNDATION SCALE: 0 2' 4' 8'



2 MELVIN PARK - FLOOR PLAN SCALE: 0 2' 4' 8'

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STATE OF ALASKA

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 MECHANICAL ENGINEERING
 STATE OF ALASKA
 ISSUE DATE: 03/16/2016

City & Borough of Juneau
CBJ PARKS RESTROOM AND CONCESSIONS IMPROVEMENTS
 Juneau, Alaska
 CBJ Project NO. E16-165

CONSTRUCTION DOCUMENTS

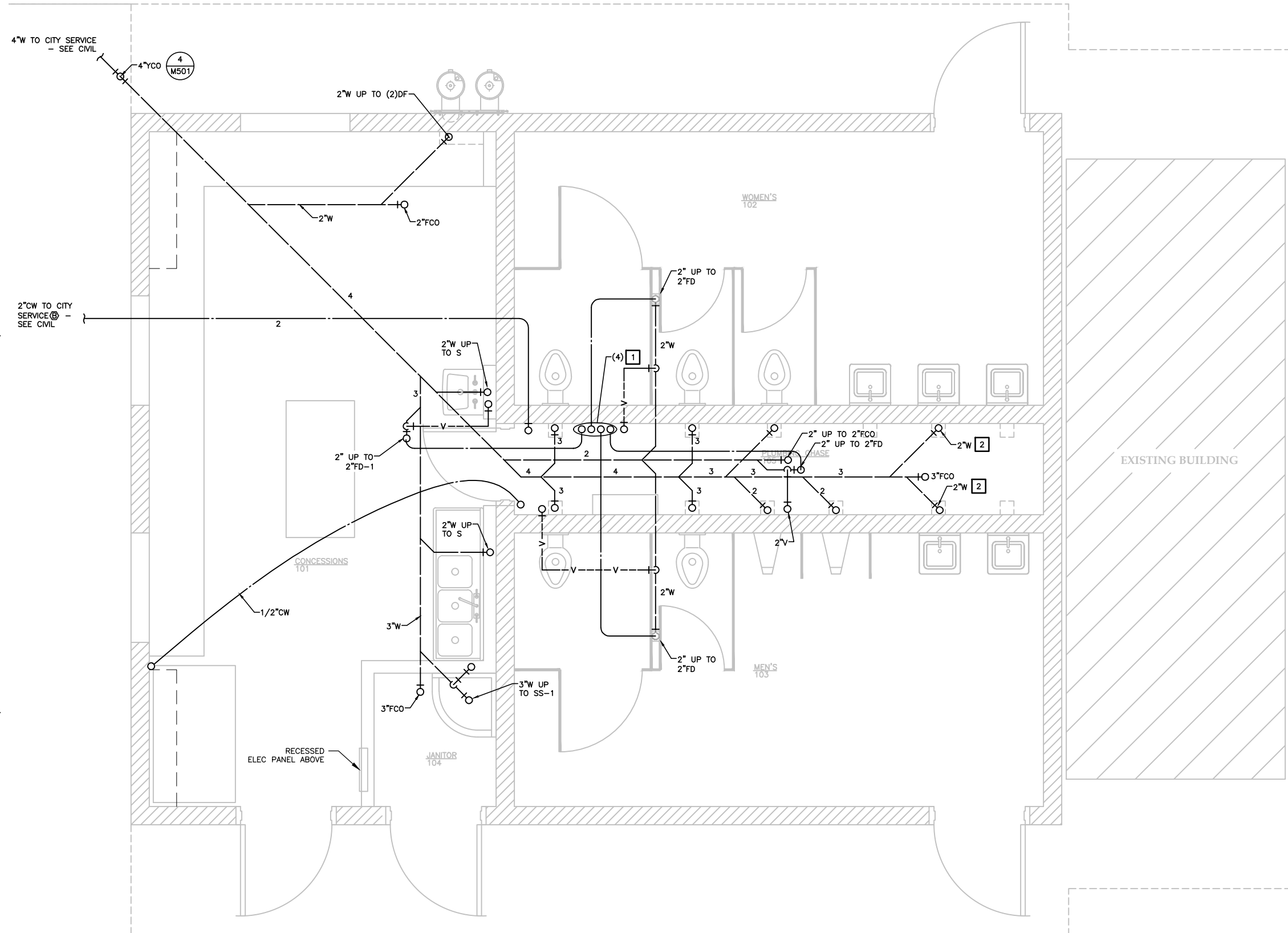
REVISIONS

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SHEET TITLE
 MELVIN MECHANICAL - FOUNDATION & FLOOR PLAN

DATE: March 16, 2016
 FILE: 15023

M201



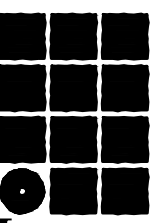
SHEET NOTES:

1. INSTALL PLUMBING SYSTEM PER UPC REQUIREMENTS. SLOPE WATER PIPING TO DRAIN AT SINGLE LOW POINT WITH DRAIN VALVE, FOR SEASONAL USE. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL CONNECTIONS.
2. ALL PIPING SHOWN IS BELOW FLOOR LEVEL

CONSTRUCTION NOTES:

- 1 1/2" CW UP TO TRAP PRIMER.
- 2 PIPE SERVES MULTIPLE FIXTURES.

1 DIMOND PARK - LOWER LEVEL/FOUNDATION



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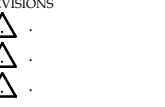
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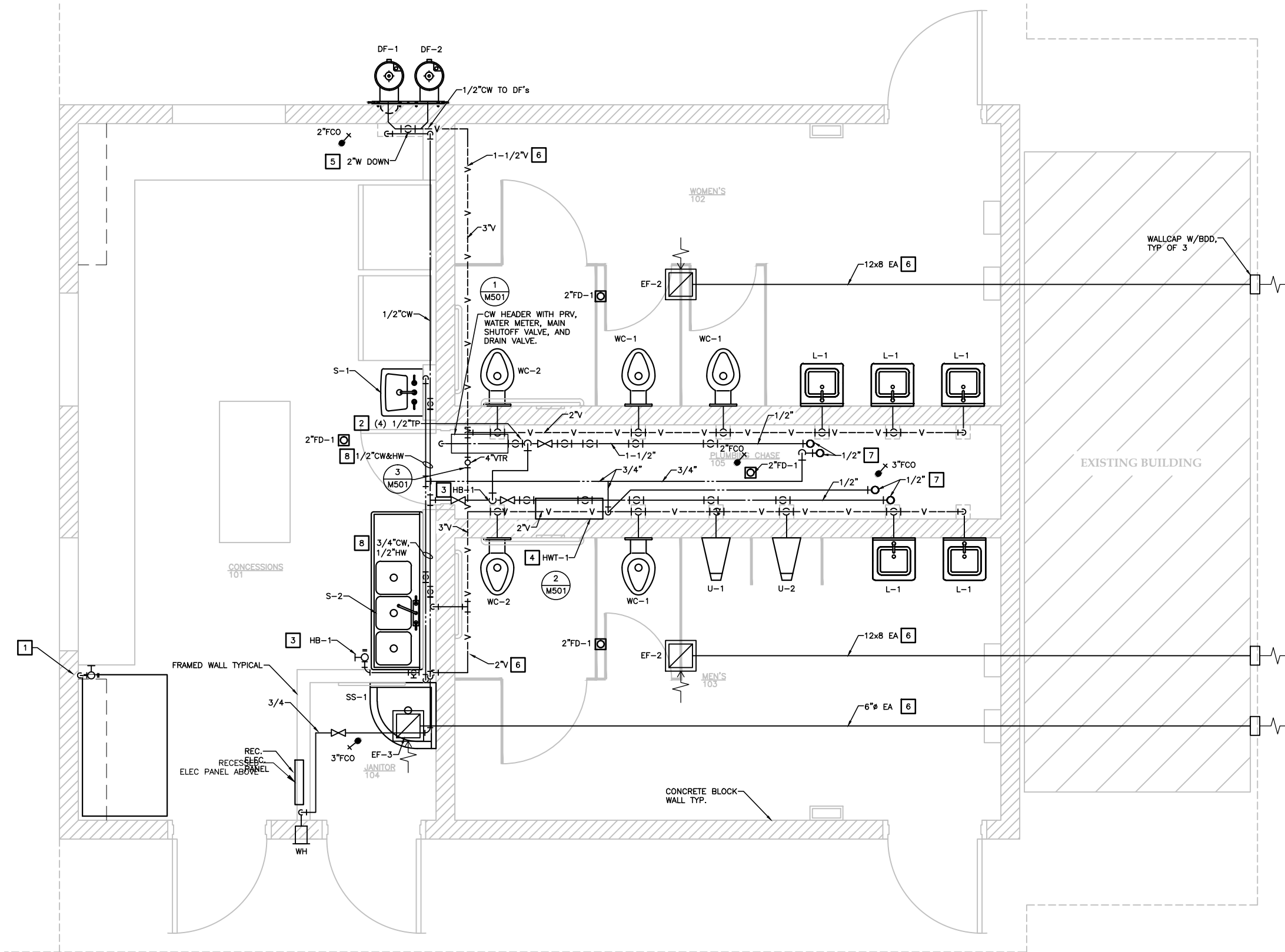
CONSTRUCTION
DOCUMENTS



SHEET TITLE
DIMOND
MECHANICAL -
FOUNDATION
PLAN

DATE: March 16, 2016
FILE: 15023

M301

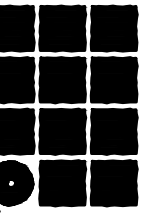


SHEET NOTES:

1. SEE PLUMBING DIAGRAM FOR COMPLETE CONFIGURATION, PIPING, SIZES, VALVES AND APPURTENANCES. SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL CONNECTION SIZES.
2. WATER AND VENT PIPING INSTALLED AS SHOWN SUPPORTED FROM CHANNEL FRAMING SECURED HORIZONTAL VENT PIPING INSTALLED AT MINIMUM 7'-0" ABOVE FINISHED FLOOR.
3. ALL DRAIN VALVES AND HOSE BIBBS ARE TO HAVE A VACUUM BREAKER AND CAP.
4. PIPES ARE SHOWN STAGGERED FOR CLARITY. PIPING TO BE STACKED VERTICALLY ON WALL IN PLUMBING CHASE.
5. INSTALL SHUTOFF VALVES FOR CW MAIN FOR BUILDING SHUTOFF (2"), MENS (1-1/2"), WOMENS (1-1/2"), AND CONCESSION (3/4").
6. PIPING ARRANGED TO BE DRAINED ON A SEASONAL BASIS.

CONSTRUCTION NOTES:

- 1 1/2" CW STOP AND RB FOR COUNTER USE AT 3'-0" AFF OR ABOVE COUNTER HEIGHT.
- 2 1/2" CW DOWN TO TRAP PRIMER.
- 3 LOCATE CW HB-1 AT 2'-0" AFF.
- 4 INSTALL HWT ON WALL AT APPROX. 4'-0" AFF, PIPE RELIEF VALVE TO FLOOR.
- 5 OFFSET (2) WASTES AND INSTALL (2) P-TRAP UNDER CONCESSION COUNTER AND IN ENCLOSURE (IAW)
- 6 IN ATTIC.
- 7 COMMON UP TO MULTIPLE FIXTURES. SEE PLUMBING DIAGRAM
- 8 PIPING IN WALL.

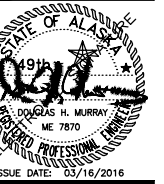


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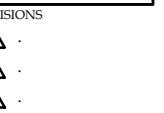
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CONSTRUCTION
DOCUMENTS

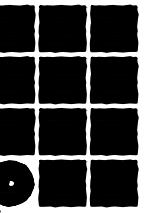


SHEET TITLE
DIMOND
MECHANICAL -
FLOOR PLAN

DATE: March 16, 2016
FILE: 15023

M302





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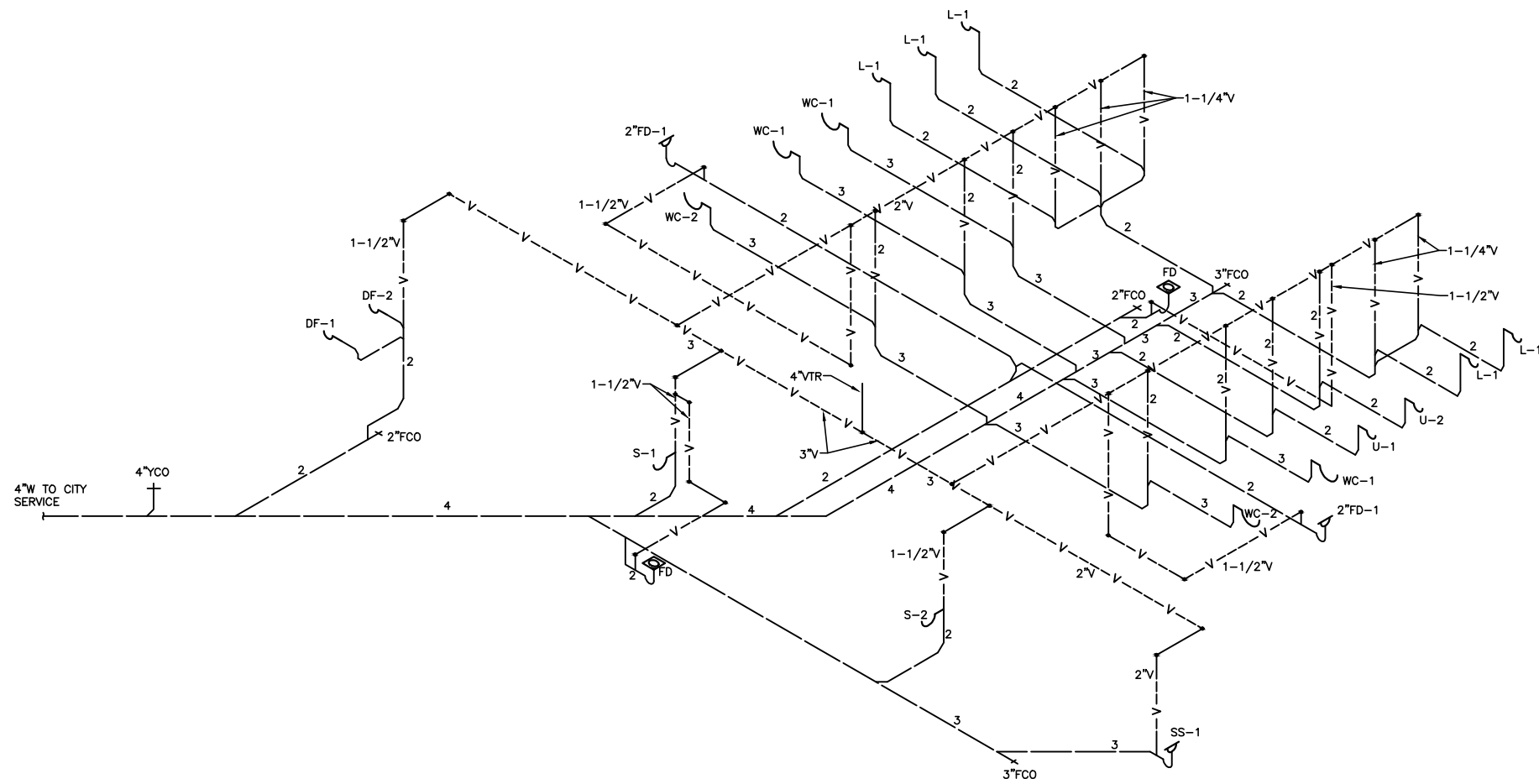


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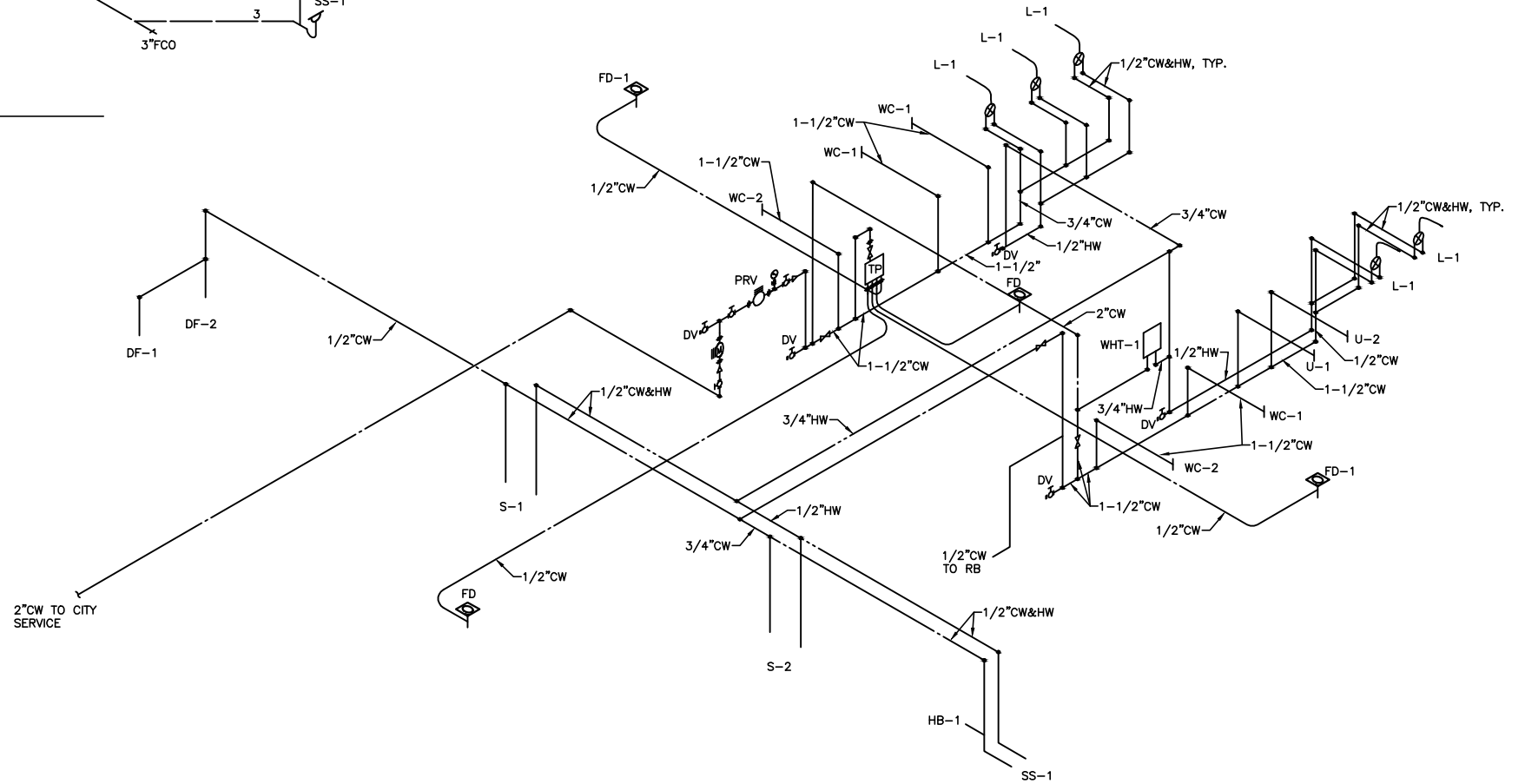


SHEET NOTES:

1. PITCH PIPING AND ADD DRAIN VALVES TO AID IN SEASONAL PLUMBING PIPE SYSTEM DRAINAGE.
2. ALL DRAIN VALVES AND HOSE BIBBS ARE TO HAVE A VACUUM BREAKER AND CAP.
3. PIPING TO BE STACKED VERTICALLY ON WALL IN MECHANICAL OR WERE POSSIBLE.
4. INSTALL SHUTOFF VALVES FOR CW MAIN FOR CONCESSION (3/4"), AND HW MAIN (1/2").



1 DIMOND PARK PLUMBING DIAGRAM - WASTE & VENT PIPING
NO SCALE



2 DIMOND PARK PLUMBING DIAGRAM - DOMESTIC PIPING
NO SCALE

City & Borough of Juneau
**CBJ PARKS RESTROOM AND
CONCESSIONS IMPROVEMENTS**
Juneau, Alaska
CBJ Project NO. E16-165

CONSTRUCTION
DOCUMENTS

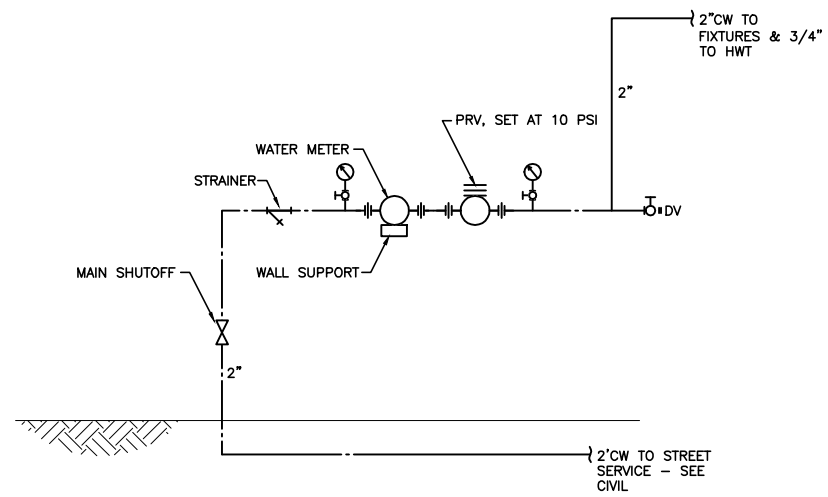
REVISIONS

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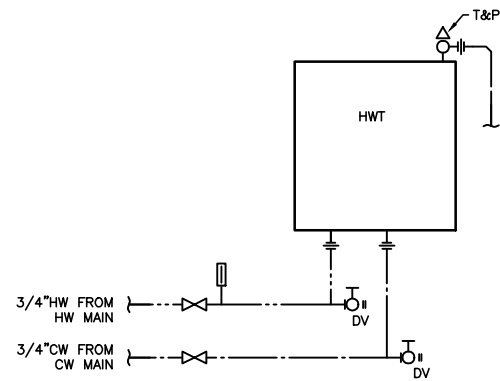
SHEET TITLE
PLUMBING
DIAGRAMS

DATE: March 16, 2016
FILE: 15023

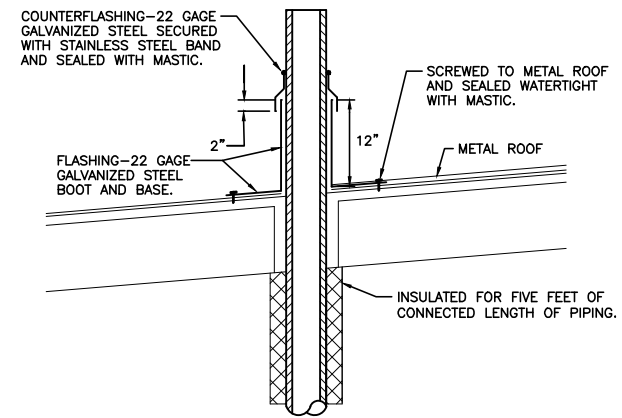
M401



1 WATER SERVICE DIAGRAM

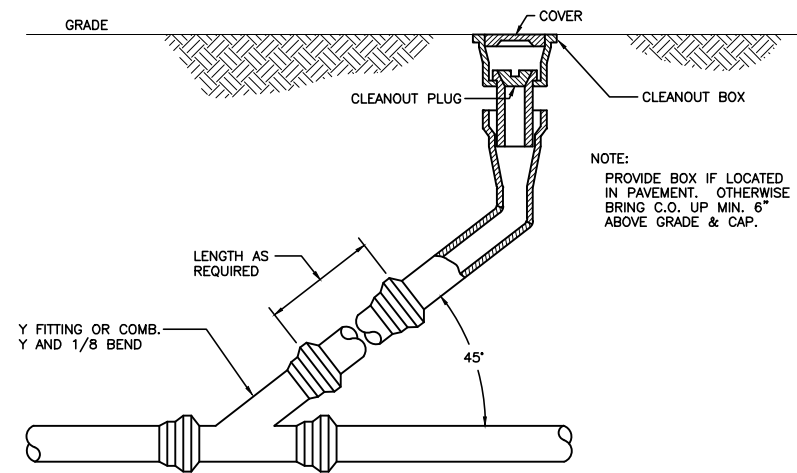


2 HWT DETAIL

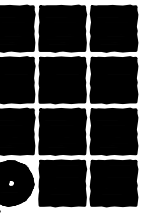


3 VENT PIPING LESS THAN 4-INCH SIZE

3 VENT THROUGH ROOF
NO SCALE



4 YARD CLEANOUT DETAIL
NO SCALE



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ASSOCIATES P.C.
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ENGINEERS



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JUNEAU, AK 99802
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SHEET TITLE

DATE: March 16, 2016
FILE: 15023

M501

LEGEND

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
GFI	GROUND FAULT INTERRUPTED
PE	PHOTOELECTRIC CELL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER

SHEET NOTE SYMBOLS:

ⓔ	EXISTING TO REMAIN
Ⓝ	NEW
Ⓡ	RELOCATE EXISTING
ⓧ	REMOVE EXISTING

POWER:

○	SINGLE RECEPTACLE
○	DUPLEX RECEPTACLE
○	DOUBLE DUPLEX RECEPTACLE
○	DUPLEX RECEPTACLE, ABOVE COUNTER
○	DOUBLE DUPLEX RECEPTACLE, ABOVE COUNTER
○	RECEPTACLE RACEWAY
○	EQUIPMENT CONNECTION
○	JUNCTION BOX
○	MOTOR CONNECTION

POWER (CONT):

⊠	MOTOR STARTER
□	DISCONNECT
Ⓣ	THERMOSTAT
▬	ELECTRIC HEATER

SERVICE EQUIPMENT:

▬	PANELBOARD
---	------------

LIGHTING:

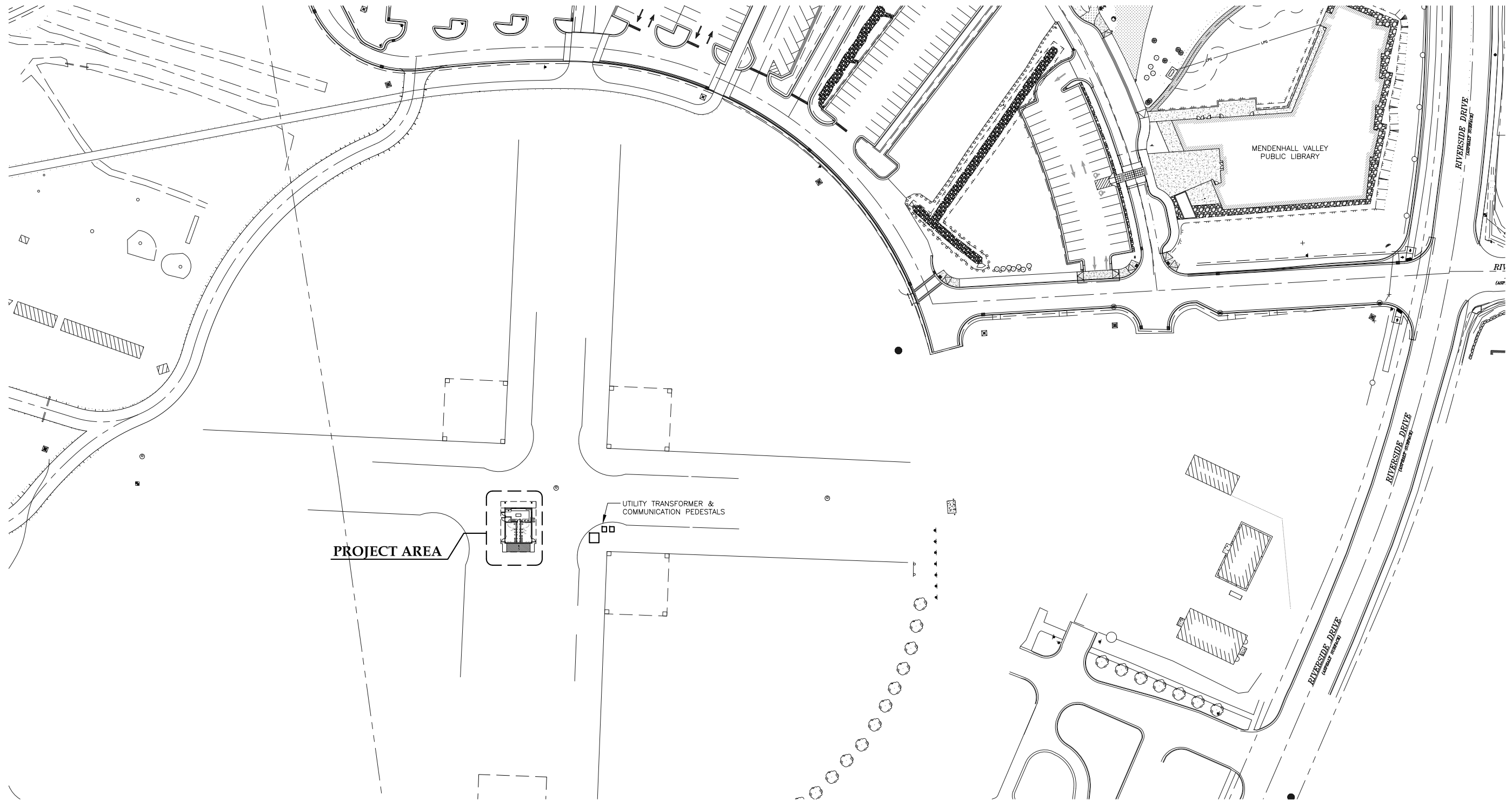
○	SURFACE OR SUSPENDED LINEAR LUMINAIRE
—	LED STRIP LUMINAIRE
○	EXTERIOR WALL MOUNTED LUMINAIRE

LIGHTING CONTROLS:

S	SINGLE POLE SWITCH
◇ W	OCCUPANCY SENSOR: W=WALL SWITCH, U=ULTRASONIC, D=DUAL TECH

CONDUIT & CONDUCTORS:

—	HOME RUN
—	CONDUIT: 1/2" UON.
—	UNGROUND CONDUCTORS (#12 AWG)
—	NEUTRAL: #10 WITH DOT #12 OTHERWISE
—	GROUND CONDUCTOR
—	CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED
---	CONDUIT IN FLOOR OR UNDERGROUND
~	FLEXIBLE CONDUIT
---	TYPE MC CABLE

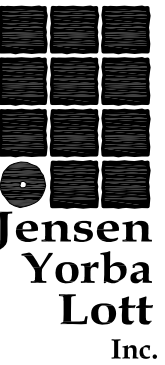


1 SITE PLAN - DIMOND PARK

SCALE: 0' 25' 50' 100'



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CBJ Project NO. E16-165

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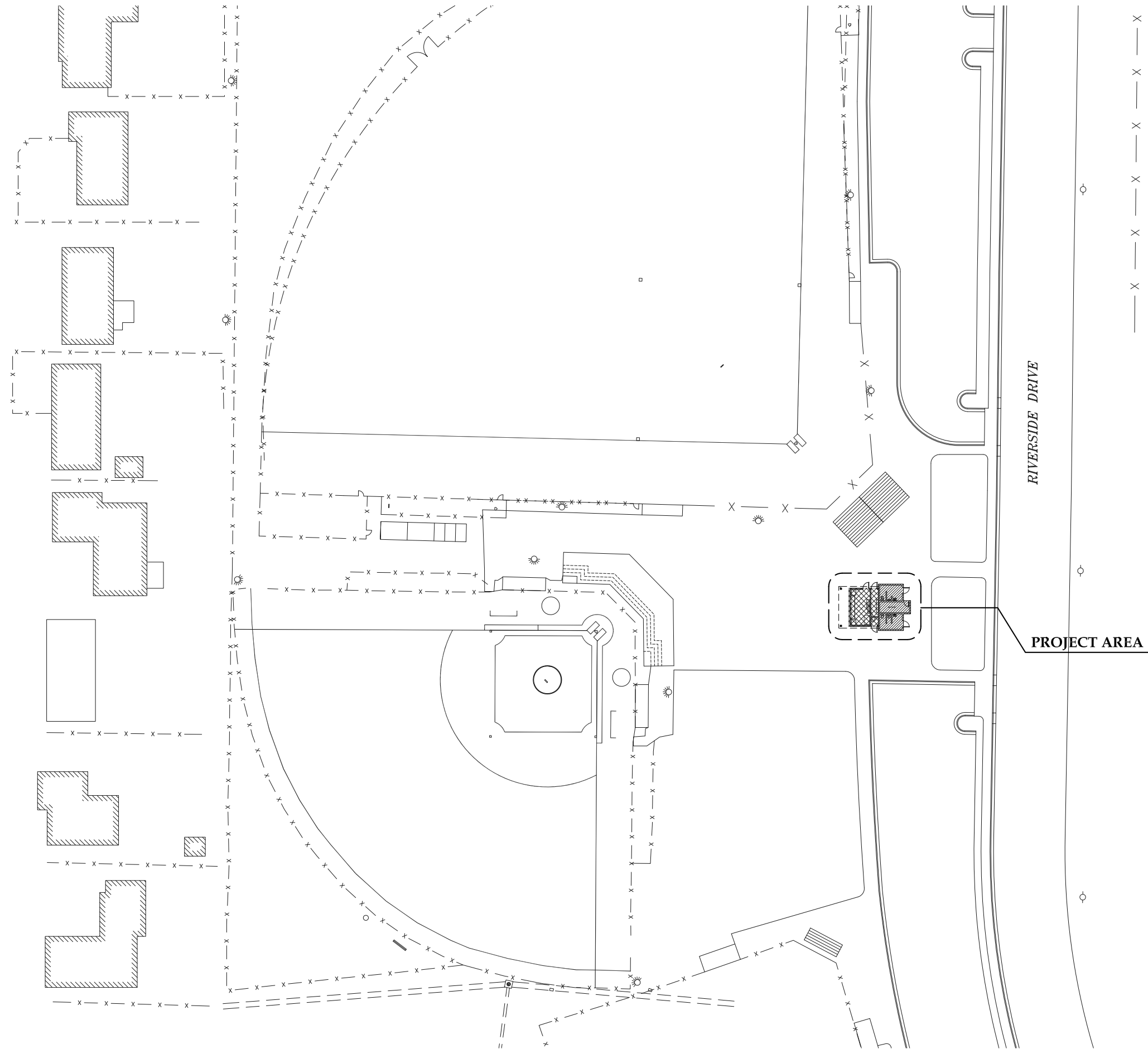
REVISIONS

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SHEET TITLE
SITE PLAN - DIMOND PARK

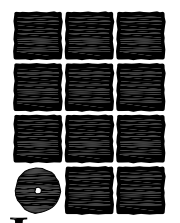
DATE: March 16, 2016
FILE: 15023

E101



1 SITE PLAN - MELVIN PARK

SCALE: 0' 15' 30' 60'



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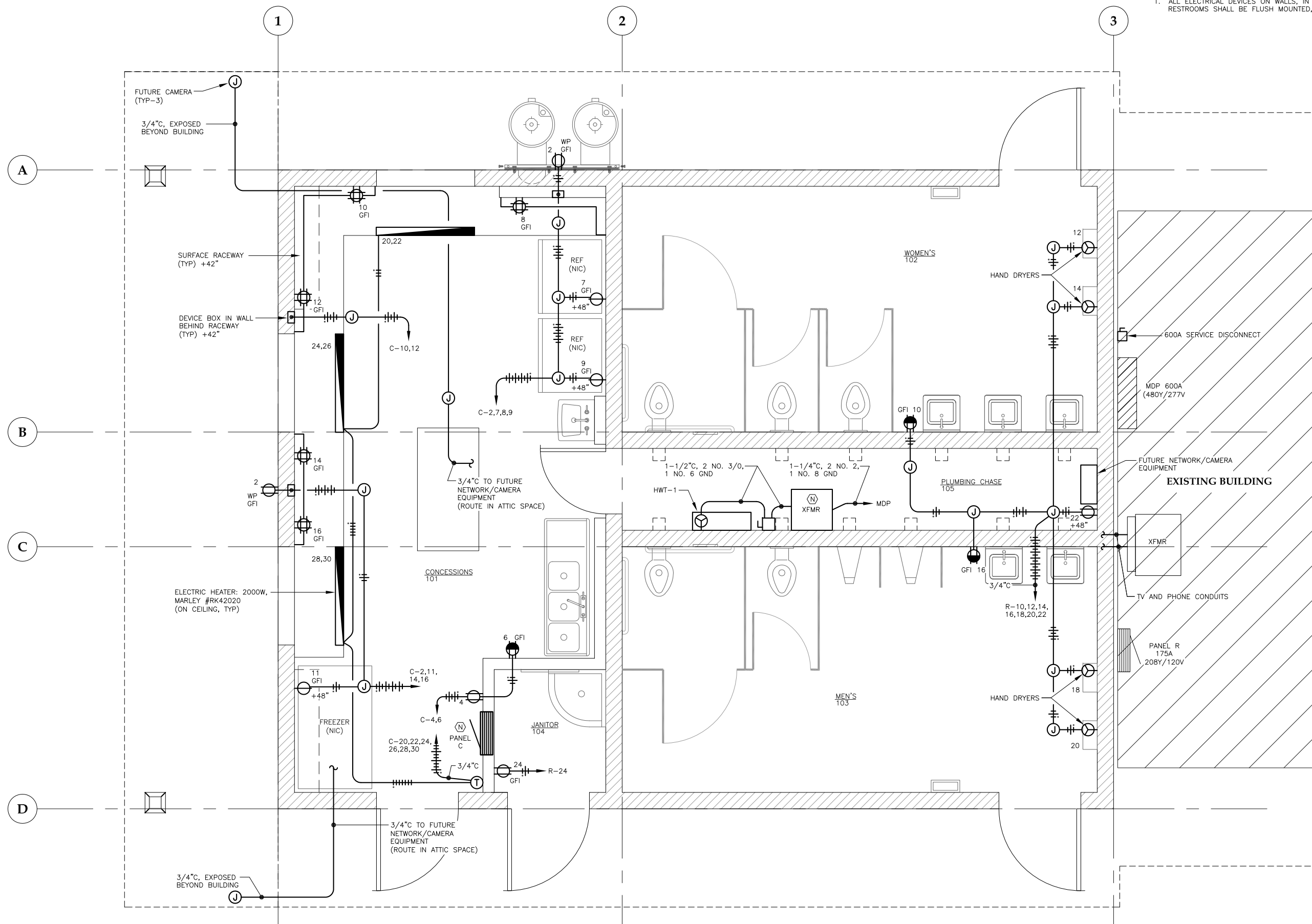
- REVISIONS
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SHEET TITLE
**SITE PLAN -
MELVIN PARK**

DATE: March 16, 2016
FILE: 15023

E110

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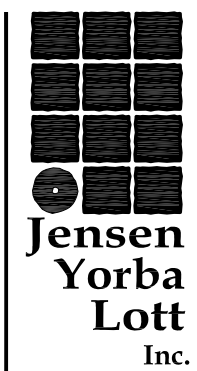


NOTES:

1. ALL ELECTRICAL DEVICES ON WALLS, IN CONCESSIONS 101, AND RESTROOMS SHALL BE FLUSH MOUNTED, UON.

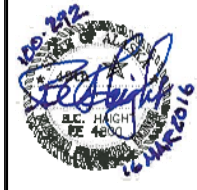
1 DIMOND PARK FLOOR PLAN - POWER

SCALE: 0 1' 2' 4'



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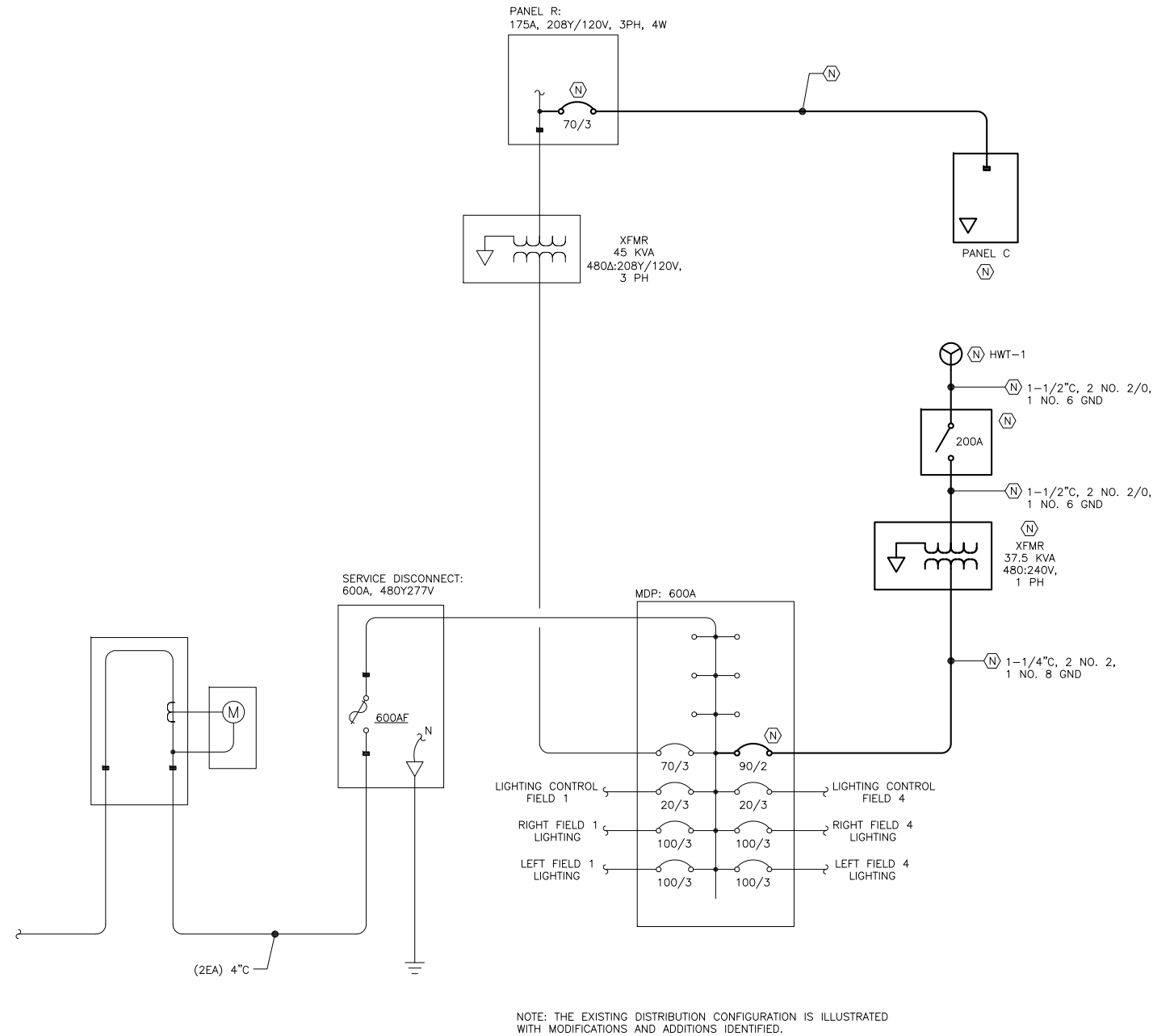
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SHEET TITLE
**DIMOND PARK
FLOOR PLAN -
POWER**

DATE: March 16, 2016
FILE: 15023

E201

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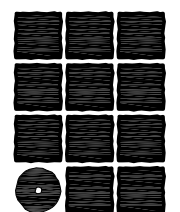
NOTE: THE EXISTING DISTRIBUTION CONFIGURATION IS ILLUSTRATED WITH MODIFICATIONS AND ADDITIONS IDENTIFIED.

1 SINGLE LINE DIAGRAM - POWER DISTRIBUTION SYSTEM

PANEL R		SIZE	VOLTS/PHASE			MAIN		LOCATION		MOUNT
		225 AMPS	208Y/120V, 3 PH			MLO		EXISTING BUILDING		SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA			BREAKER AMP/ POLE	DESCRIPTION	C K T NO		
			CKT	AØ	BØ				CØ	
1	EXTG LOAD - SCOREBOARD FIELD ONE	20/1	0.0	0.0		0.0	20/1	EXTG LOAD - INSIDE LIGHTS	2	
3	EXTG LOAD - SCOREBOARD FIELD ONE	20/1	0.0			0.0	20/1	EXTG LOAD - RECEPTACLES	4	
5	EXTG LOAD - FIELD ONE SCORE-KEEPER BLDG	20/1	0.0			0.0	20/1	EXTG LOAD - HEATER	6	
7	EXTG LOAD - FIELD ONE SCORE-KEEPER BLDG	20/1	0.0	0.0		0.0	20/1	EXTG LOAD - HEATER	8	
9	EXTG LOAD - FIELD TWO SCORE-KEEPER BLDG	20/1	0.0		0.2	0.2	20/1	WOMEN'S 102	10	
11	EXTG LOAD - FIELD TWO SCORE-KEEPER BLDG	20/1	0.0			1.2	20/1	WOMEN'S 102 HAND DRYER	12	
13	EXTG LOAD - FIELD THREE SCORE-KEEPER BLDG	20/1	0.0	1.2		1.2	20/1	WOMEN'S 102 HAND DRYER	14	
15	EXTG LOAD - FIELD THREE SCORE-KEEPER BLDG	20/1	0.0		0.2	0.2	20/1	MEN'S 103	16	
17	EXTG LOAD - FIELD FOUR SCORE-KEEPER BLDG	20/1	0.0			1.2	20/1	MEN'S 103 HAND DRYER	18	
19	EXTG LOAD - FIELD FOUR SCORE-KEEPER BLDG	20/1	0.0	1.2		1.2	20/1	MEN'S 103 HAND DRYER	20	
21	EXTERIOR BUILDING MOUNTED	LTG	20/1	0.1	0.2	0.1	20/1	PLUMBING CHASE 105	22	
23	WOMEN'S 102, EF-2, PLUMBING 105		20/1	0.3		0.5	0.2	20/1	JANITOR 104	24
25	MEN'S 103, EF-1, JANITOR 104, EF-3		20/1	0.4	0.4		0.0	20/1		26
27			20/1	0.0		0.0	0.0	20/1		28
29			20/1	0.0			0.0	20/1		30
31			20/1	0.0	0.0		0.0	20/1		32
33			20/1	0.0		0.0	0.0	20/1		34
35			20/1	0.0			0.0	20/1		36
37			20/1	0.0	5.8		5.8	70/3	PANEL C	38
39			20/1	0.0		5.3		5.3	---	40
41			20/1	0.0			5.3	5.3	---	42
BALANCED CONNECTED LOAD: 22.7 KVA / 63.1 AMPS				8.6	5.9	8.2				
MAXIMUM PHASE LOAD: 8.6 KVA / 72.0 AMPS										

PANEL C		SIZE	VOLTS/PHASE			MAIN		LOCATION		MOUNT	
		100 AMPS	208Y/120V, 3 PH			MLO		CONCESSIONS 101		FLUSH	
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA			BREAKER AMP/ POLE	DESCRIPTION	C K T NO			
			CKT	AØ	BØ				CØ		
1	CONCESSIONS 101	LTG	20/1	0.3	0.7	0.4	20/1	BUILDING EXTERIOR	2		
3			20/1	0.0		0.2	20/1	CONCESSIONS 101	4		
5			20/1	0.0			1.2	20/1	CONCESSIONS 101	6	
7	CONCESSIONS 101 N. REFRIGERATOR		20/1	0.7	1.9		1.2	20/1	CONCESSIONS 101 N. COUNTER	8	
9	CONCESSIONS 101 S. REFRIGERATOR		20/1	0.7		1.9	1.2	20/1	CONCESSIONS 101 N. COUNTER	10	
11	CONCESSIONS 101 FREEZER		20/1	0.9			2.1	1.2	20/1	CONCESSIONS 101 W. COUNTER	12
13			20/1	0.0	1.2			1.2	20/1	CONCESSIONS 101 W. COUNTER	14
15			20/1	0.0		1.2		1.2	20/1	CONCESSIONS 101 W. COUNTER	16
17			20/1	0.0			0.0	0.0	20/1		18
19			20/1	0.0	1.0			1.0	20/2	CONCESSIONS 101 N. ELECTRIC HEATER	20
21			20/1	0.0		1.0		1.0	---	---	22
23			20/1	0.0			1.0	1.0	20/2	CONCESSIONS 101 N.W. ELECTRIC HEATER	24
25			20/1	0.0	1.0			1.0	---	---	26
27			20/1	0.0		1.0		1.0	20/2	CONCESSIONS 101 S.W. ELECTRIC HEATER	28
29			20/1	0.0			1.0	1.0	---	---	30
31			20/1	0.0	0.0			0.0	20/1		32
33			20/1	0.0		0.0		0.0	20/1		34
35			20/1	0.0			0.0	0.0	20/1		36
37			20/1	0.0	0.0			0.0	20/1		38
39			20/1	0.0		0.0		0.0	20/1		40
41			20/1	0.0			0.0	0.0	20/1		42
BALANCED CONNECTED LOAD: 16.4 KVA / 45.6 AMPS				5.8	5.3	5.3					
MAXIMUM PHASE LOAD: 5.8 KVA / 48.3 AMPS											

MECHANICAL EQUIPMENT SCHEDULE																
DESIGNATION			LOAD					CIRCUITING				CONTROL				
ITEM	DESCRIPTION	LOCATION	HP	KW	AMPS	VOLTS	PHASE	RATING	CONDUCTORS			DISCONNECT SWITCH	FUSE	STARTER SIZE	CONTROL	REMARKS
EF-1	EXHAUST FAN	MEN'S 103			0.77	120	1	20/1	2 NO. 12, 1 NO. 12 GND							
EF-2	EXHAUST FAN	WOMEN'S 102			0.43	120	1	20/1	2 NO. 12, 1 NO. 12 GND							
EF-3	EXHAUST FAN	JANITOR 104			0.34	120	1	20/1	2 NO. 12, 1 NO. 12 GND							
HWT-1	INSTANT WATER HEATER	PLUMBING CHASE 105		27		240	1	90/2	2 NO. 3/0, 1 NO. 6 GND							



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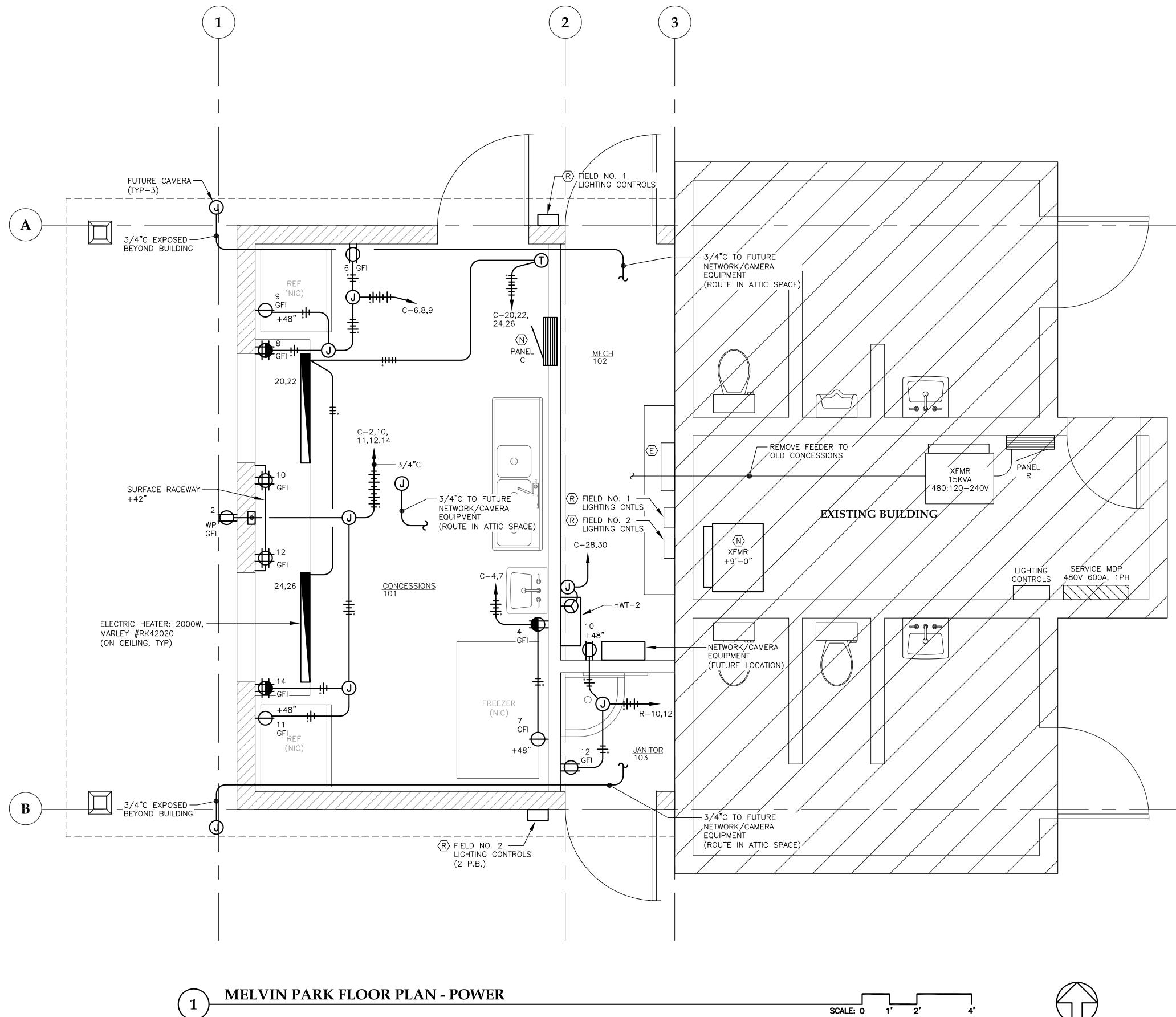
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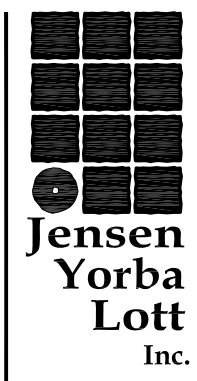
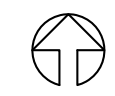
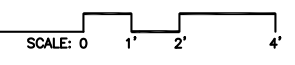
SHEET TITLE
DIMOND PARK SINGLE LINE DIAGRAM PANEL SCHEDULES
DATE: March 16, 2016
FILE: 15023

E202

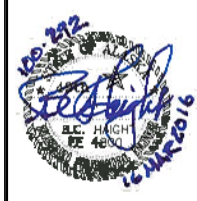
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1 MELVIN PARK FLOOR PLAN - POWER



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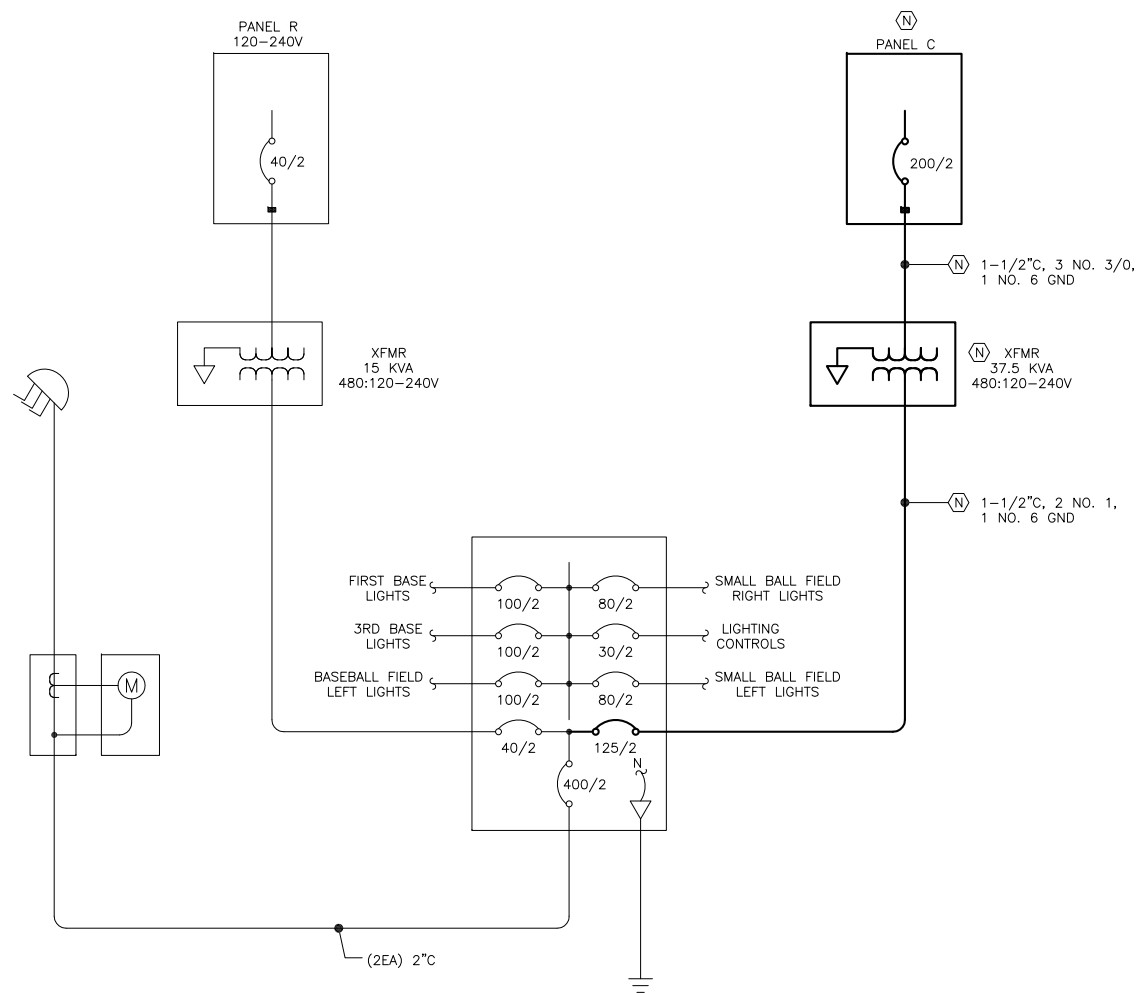


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 Juneau, Alaska
 CBJ Project NO. E16-165

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MELVIN PARK FLOOR PLAN - POWER	
DATE: March 16, 2016	
FILE: 15023	

E210

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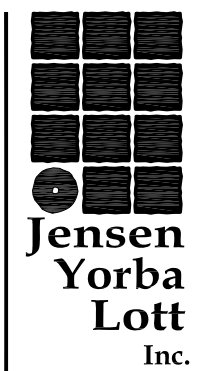
NOTE: THE EXISTING DISTRIBUTION CONFIGURATION IS ILLUSTRATED WITH MODIFICATIONS AND ADDITIONS IDENTIFIED.

1 SINGLE LINE DIAGRAM - POWER DISTRIBUTION SYSTEM

PANEL R		SIZE	VOLTS/PHASE			MAIN	LOCATION	MOUNT
		225 AMPS	120/240V, 1 PH			MLO	ELECTRICAL ROOM	SURFACE
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA			BREAKER AMP/ POLE	DESCRIPTION	C K T NO
			CKT	AØ	BØ			
1	EXTG LOAD - OUTSIDE LIGHTS	20/1	0.0	0.0	0.0	?	EXTG LOAD - MAIN	2
3	EXTG LOAD - INSIDE LIGHTS, EF-5 (1/4 HP)	20/1	0.7		0.7	---	---	4
5	EXTG LOAD - RECEPTACLE NEXT TO LIGHT	20/1	0.0	0.0	0.0	20/2	EXTG LOAD - SPARE	6
7	SPARE	20/1	0.0		0.0	---	---	8
9	EXTG LOAD - TRAP HEATERS	20/1	0.0	0.2	0.2	20/1	MECH 102	10
11	EXTG LOAD - RECEPTACLE BELOW PANEL	20/1	0.0		0.2	20/1	JANITOR 103	12
13	EXTG LOAD - HAND DRYERS	20/2	0.0	0.0	0.0	20/1	EXTG LOAD - CONCESSION	14
15	----	---	0.0		0.0	20/1	EXTG LOAD - CONCESSION	16
17	EXTG LOAD - HAND DRYERS	20/1	0.0	0.0	0.0	20/1	EXTG LOAD - GFCI OUTSIDE BACK WALL	18
19	EXTG LOAD - TIME CLOCK FIELD NO. 2	20/1	0.0		0.0	20/1	EXTG LOAD - GFCI OUTSIDE BACK WALL	20
21	EXTERIOR BUILDING MOUNTED	LTG	20/1	0.1	0.1		SPACE	22
23	MECH. 102, JANITOR 103, EF-4	LTG	20/1	0.1	0.1	0.0	SPACE	24
NEW TOTAL CONNECTED LOAD: 1.3 KVA / 5.4 AMPS			0.3	1.0				
NEW LOAD MAXIMUM PHASE LOAD: 1.0 KVA / 8.3 AMPS								

PANEL C		SIZE	VOLTS/PHASE			MAIN	LOCATION	MOUNT
		200 AMPS	120/240V, 1 PH			200/2	CONCESSIONS 101	FLUSH
C K T NO	DESCRIPTION	BREAKER AMP/ POLE	KVA			BREAKER AMP/ POLE	DESCRIPTION	C K T NO
			CKT	AØ	BØ			
1	CONCESSIONS 101	LTG	20/1	0.3	0.5	0.2	EXTERIOR BUILDING	2
3			20/1	0.0		0.2	CONCESSIONS 101 E. WALL	4
5			20/1	0.0	0.2		CONCESSIONS 101 N. WALL	6
7	CONCESSIONS 101 FREEZER		20/1	0.9		2.1	CONCESSIONS 101 N. COUNTER	8
9	CONCESSIONS 101 N. REFRIGERATOR		20/1	0.7	1.9	1.2	CONCESSIONS 101 CENTER COUNTER	10
11	CONCESSIONS 101 S. REFRIGERATOR		20/1	0.7		1.9	CONCESSIONS 101 CENTER COUNTER	12
13	SPACE		20/1	0.0	1.2	1.2	CONCESSIONS 101 S. COUNTER	14
15			20/1	0.0		0.0		16
17			20/1	0.0	0.0	0.0		18
19			20/1	0.0		1.0	CONCESSIONS 101 N. ELECTRIC HEATER	20
21			20/1	0.0	1.0	1.0	----	22
23			20/1	0.0		1.0	CONCESSIONS 101 S. ELECTRIC HEATER	24
25			20/1	0.0	1.0	1.0	----	26
27			20/1	0.0		9.0	MECH 102 HWT-2	28
29			20/1	0.0	9.0	9.0	----	30
TOTAL CONNECTED LOAD: 30.0 KVA / 125.0 AMPS				14.8	15.2			
LOAD MAXIMUM PHASE LOAD: 15.2 KVA / 127.0 AMPS								

MECHANICAL EQUIPMENT SCHEDULE															
DESIGNATION			LOAD				CIRCUITING				CONTROL				
ITEM	DESCRIPTION	LOCATION	HP	KW	AMPS	VOLTS	PHASE	RATING	CONDUCTORS		DISCONNECT SWITCH	FUSE	STARTER SIZE	CONTROL	REMARKS
EF-4	EXHAUST FAN	MEN'S 103			0.34	120	1	20/1	2 NO. 12, 1 NO. 12 GND						
EF-5	EXHAUST FAN	WOMEN'S 102	1/4			120	1	20/1	2 NO. 12, 1 NO. 12 GND						
HWT-2	INSTANT WATER HEATER	PLUMBING CHASE 105		18		240	1	90/2							



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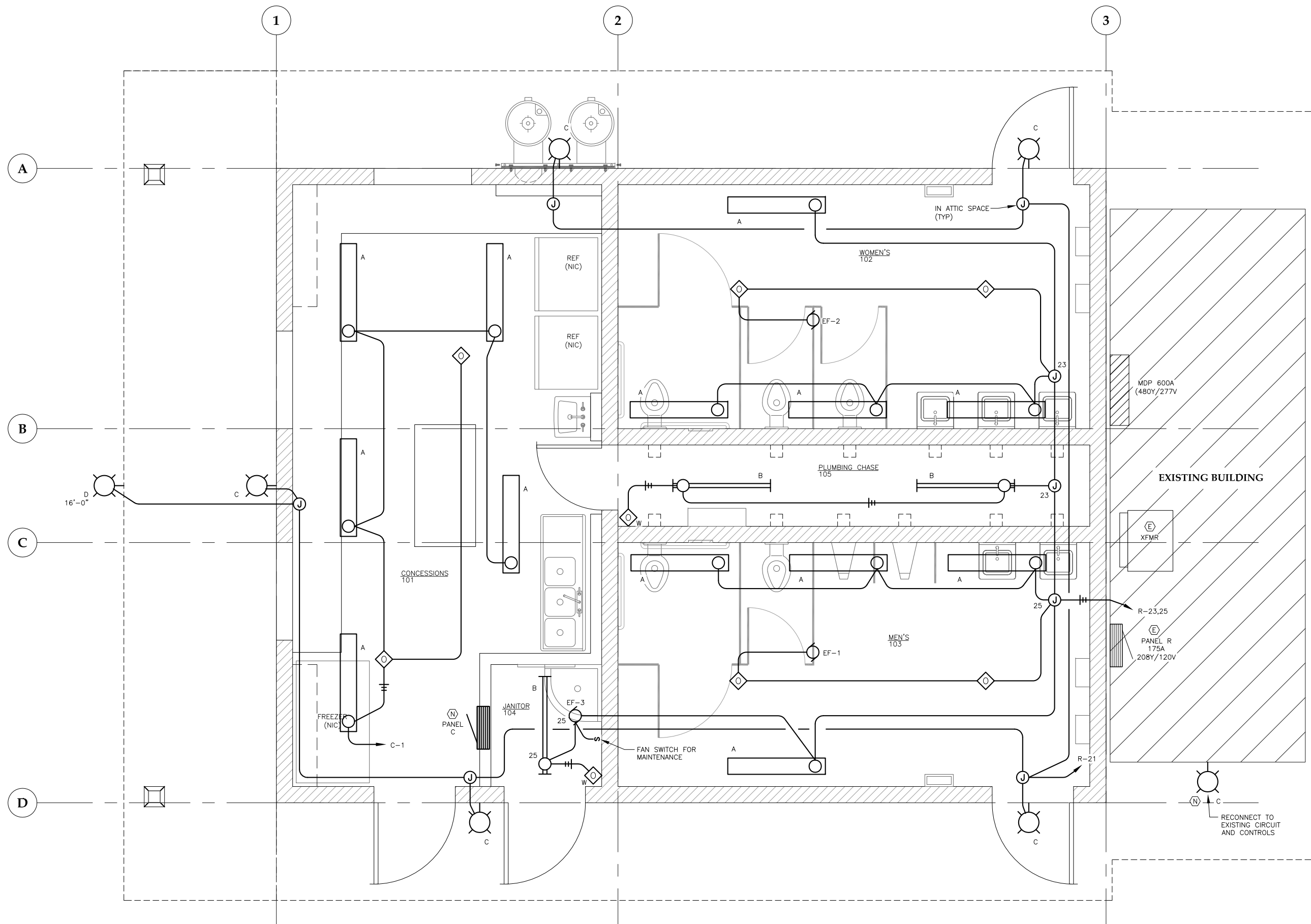
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SHEET TITLE
MELVIN PARK
SINGLE LINE
DIAGRAM

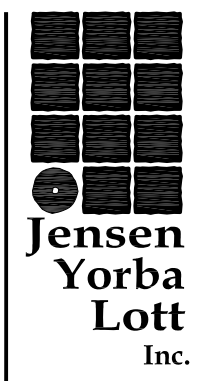
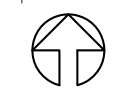
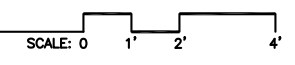
DATE: March 16, 2016
FILE: 15023

E211

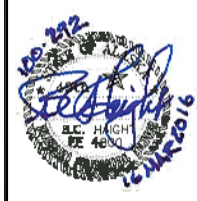
Plotted 3/16/2016 9:20 AM by Peggy Leslie F:\PROJECTS\100 JENSEN YORBA LOTT INC\292 CBJ PARK CONCESSIONS & RESTROOMS\DRAWINGS\WORKING\E301.DWG



1 DIMOND PARK FLOOR PLAN - LIGHTING



**Jensen
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City & Borough of Juneau
**CBJ PARKS RESTROOM AND
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Juneau, Alaska
CBJ Project NO. E16-165

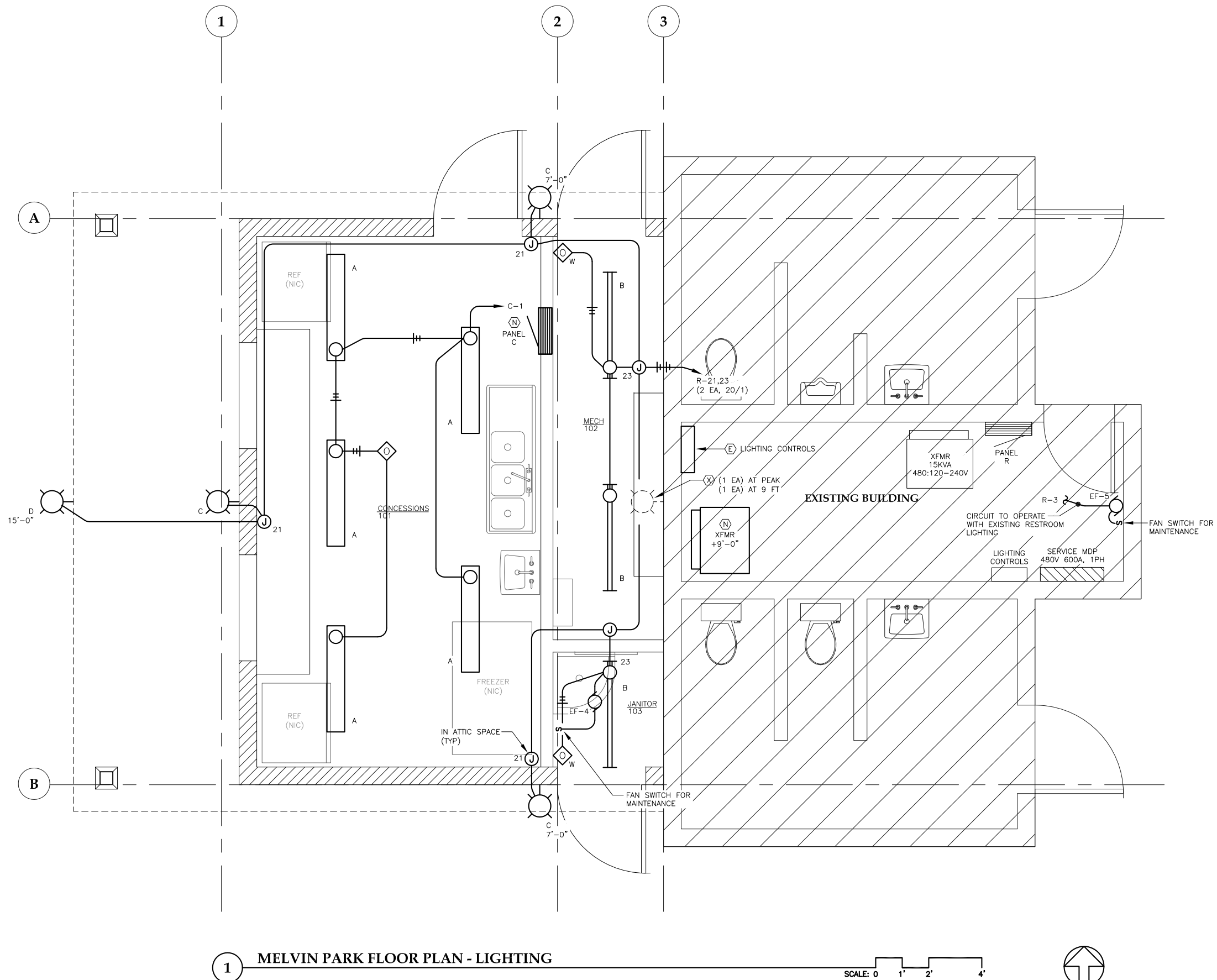
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SHEET TITLE
**DIMOND PARK
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LIGHTING**

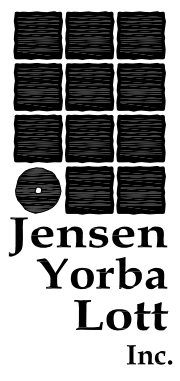
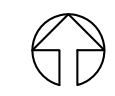
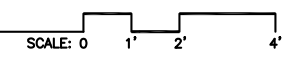
DATE: March 16, 2016
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E301

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1 MELVIN PARK FLOOR PLAN - LIGHTING



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SHEET TITLE
**MELVIN PARK
FLOOR PLAN -
LIGHTING**

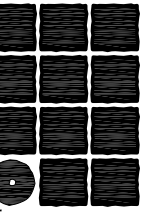
DATE: March 16, 2016
FILE: 15023

E310

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	4' CEILING MOUNTED LINEAR LED WRAPAROUND, STEEL HOUSING, PEARLESCENT POLYCARBONATE DIFFUSER, INTEGRAL ELECTRONIC DIMMING DRIVER, 120/277V, 3920 LUMENS, WHITE FINISH	KENALL ES3 1-45L35K DC DV 2H PP	50W WHITE LED 3500K, CRI 82	
B	4' CEILING MOUNT LINEAR LED STRIP, STEEL HOUSING, SNAP ON FROSTED ACRYLIC DIFFUSER, INTEGRAL ELECTRONIC DRIVER, 120/277V, 3000 LUMENS, WHITE FINISH	LITHONIA LIGHTING ZL1N L48 3000LM FST MVOLT 35K 80CRI WH	33W WHITE LED 3500K, CRI 80	
C	EXTERIOR LED WALL SCONCE, DIE CAST ALUMINUM HOUSING, CLEAR GLASS LENS, INTEGRAL ELECTRONIC DRIVER, 120V, 1271 LUMENS, BUTTON PHOTOCELL, DARK BRONZE FINISH	LITHONIA LIGHTING OLWX1LED 13W 40K 120 PE	13W WHITE LED 4000K, CRI 76	MOUNT @ 8'-0" AFG TO BOTTOM OF LUMINAIRE, UON.
D	EXTERIOR LED WALL SCONCE, DIE CAST ALUMINUM HOUSING, TYPE 4 DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, 120/277V, 1609 LUMENS, MOTION RESPONSE BI-LEVEL DIMMING, BRONZE PAINT FINISH	GARDCO 121-MR-4-18LA-NW-UNIV- BLP	18W WHITE LED 4000K, CRI 70	MOUNTING HEIGHT SHOWN ON PLAN.
◇	OCCUPANCY SENSOR, DUAL TECHNOLOGY, CEILING MOUNTED, LINE VOLTAGE, WHITE FINISH	SENSOR SWITCH CMR PDT 9	--	
◇ W	OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, LINE VOLTAGE 120/277V, IVORY FINISH	SENSOR SWITCH WSX PDT IV	--	

NOTE: ALL LUMINAIRE MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED AND OR APPLICABLE.



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SHEET TITLE
SCHEDULES

DATE: March 16, 2016
 FILE: 15023

E501