Yelm Community Center
Request for Solar Quote (RFQ)

Issued by Olympia Community Solar and The City of Yelm

RFP Point of Contact:

Cody Colt
Public Services Director, City of Yelm
(360) 458-8412
codyc@yelmwa.gov

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Olympia Community Solar
112 4th Ave E, STE 208 Olympia WA, 98501
(360) 481-4020
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Olympia Community Solar

REQUEST FOR QUOTES
FOR INSTALLATION OF A COMMERCIAL SOLAR PROJECT

Summary
The City of Yelm, with the support of Olympia Community Solar is seeking a turnkey proposal from a qualified firm to install a commercial solar energy installation, and potentially energy storage, on their Community Center. Olympia Community Solar is partnering with the City to help grant fund the solar project.

Energy Storage - The building currently does not have a backup power system and the City is interested in utilizing the community center for essential services during a power outage. Please quote energy storage as a separate line item. Including storage in your proposal is not required.

SITE VISIT

The City will host a site visit at 11:00am on the 3rd of May, 2022.

SITE ADDRESS

Yelm Community Center, 301 2nd St SE, Yelm, WA 98597

BASIC REQUIREMENTS FOR PROPOSING FIRMS

- Must be registered, or indicate that they will register, with the appropriate Business License divisions in Mason County and in good standing to be considered for this project.
- Must be a general contractor and must hold an active Contractor Registration with Washington State Department of Labor and Industries.
- Must prove and maintain Workers' Compensation and Employer's Liability insurance.

Site Assessment	5/3/2022 at 11:00AM
Proposals Due	5/20/2022 by 5:00PM
Firm Selected	The week of May 16th
Installation Work Start	3/31/2023

PROPOSAL FORMAT AND EVALUATION CRITERIA

Please create project proposals in 8½" x 11" document size using a minimum 12-point font size. Proposals shall not exceed 15 pages, including cover page, cover letter and any appendices and/ or attachments.

I. Cover letter

A. The cover letter shall discuss the highlights, key features and distinguishing points of the Proposal. The cover letter must be prepared and signed by a manager having the authority to make offers and enter into financial agreements on behalf of the firm.

II. Proposing firm profile

A. Detail the proposing firm's size and local organizational structure. Describe the demonstrated experience of the firm in designing and installing commercial solar electric systems. Please note any significant installations by the firm in Thurston County.

B. Please indicate your firm's existing installation commitments and crew availability.

C. Identify key personnel for this project including roles, experience, licenses, and certificates (e.g., NABCEP), with corresponding numbers as appropriate. Key personnel should include at a minimum: Owners/Principals; Project Managers; Designers; Installers.

III. Business practices

A. **Work practices**: Address the firm's health and safety record and practices. Identify any communications with the Washington State Department of Labor and Industries and state or federal human rights agencies regarding workplace issues in the last 3 years.

B. **Liability**: Provide information on the level of insurance the firm has and be prepared to provide copies of certificates.

C. **Workmanship Warranties:** Describe your workmanship warranties.

D. **Wages and Labor Practices:** Provide information about labor practices, including your commitment to providing family wages, benefits, apprenticeships, or mentoring programs.

IV. Work quality

A. Explain why the products included in the proposal are appropriate for this project.

B. Provide descriptions of warranties and support that ensure the long-term durability, operation, and maintenance of PV installations. Please describe any system monitoring capabilities or production gauges included. **Please attach the manufacturer's specification sheets and warranty**

information for each major piece of equipment.

C. Include a solar production estimate. If the proposal includes modules on multiple different roof orientations, please factor each orientation into your production estimate.

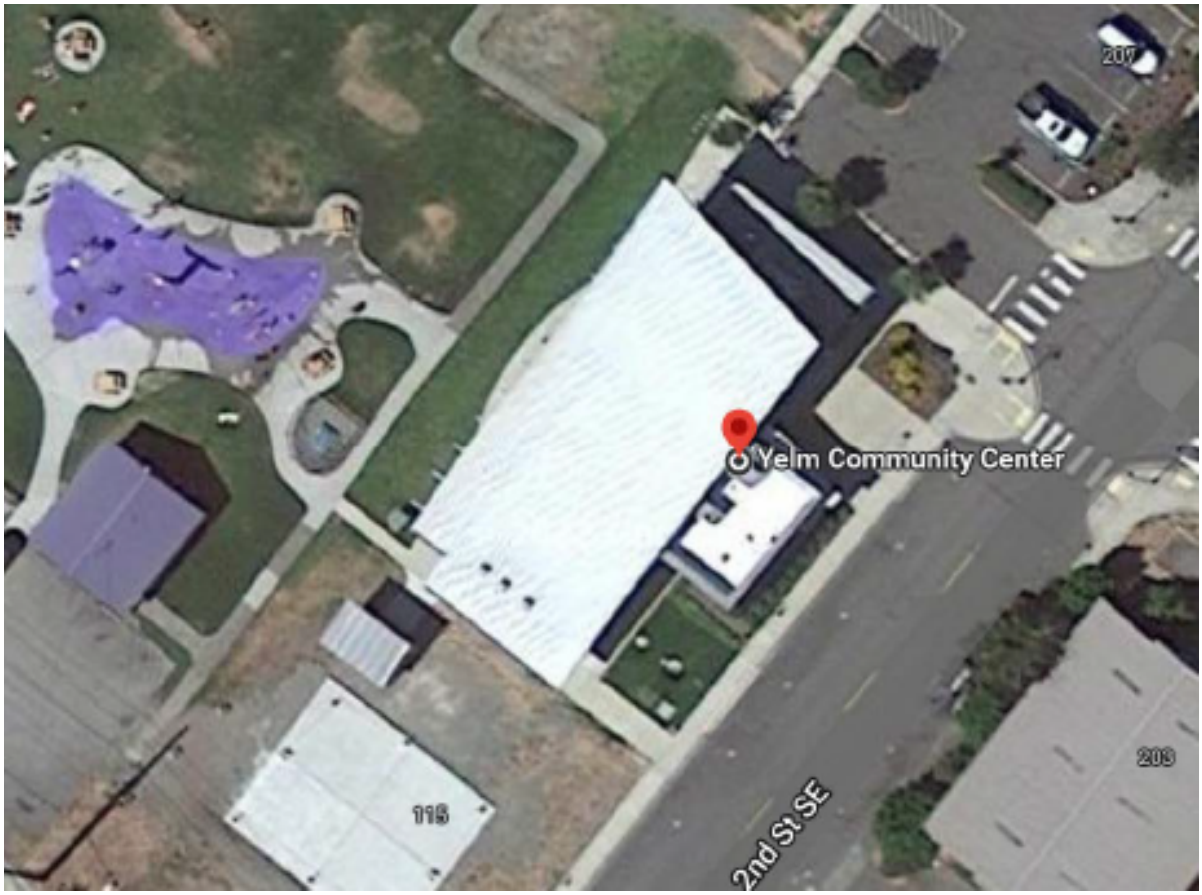
V. Customer service

A. Describe how the firm plans to handle incident reports (trouble, warranty, service calls, and inquiries). Discuss the firm's typical response time on calls, hours of coverage for customer service calls, and process for providing status reports after an incident is logged.

B. List any complaints received by the Better Business Bureau or the Washington Attorney General's office over the last 3 years.

C. Describe the training the firm provides the customer including materials or manuals, customer care books, and/or support for later questions and system performance.

Photo: The Community Center property.

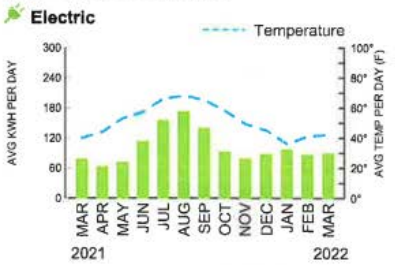


Yelm Community Center Power Bill

Your Electric Charge Details (31 days)	Rate x Unit		=	Charge
2,720 kWh used for service 2/6/2022 - 3/8/2022				
Basic Charge	$25.95	per month	$	25.95
Electric Energy Charge	0.103015	2,720 kWh		280.20
Other Electric Charges & Credits				
Electric Cons. Program Charge	0.003850	2,720 kWh		10.47
Power Cost Adjustment	0.005604	2,720 kWh		15.24
Merger Credit	0.000000	2,720 kWh		0.00
Federal Wind Power Credit	−0.001423	2,720 kWh		−3.87
Renewable Energy Credit	−0.000021	2,720 kWh		−0.06
Subtotal				327.93
Taxes				
State Utility Tax ($13.50 included in above charges)	3.873%			
Effect of Yelm City Tax	6.271%	$327.93		20.56
Current Electric Charges			**$**	**348.49**

Your Usage Information

Electric



	Last Year	This Year
Average daily kWh	76.13	**87.74**
Average daily cost	$9.22	**$11.24**
Days in billing cycle	31	**31**
Average temperature	40°F	**42°F**

YELM COMMUNITY CENTER

YELM, WA

OWNER:

CITY OF YELM
105 YELM AVE WEST
YELM, WA 98597
ATTN: STEPHANIE RAY
TELEPHONE: (360) 458-8414
EMAIL: stephanier@ci.yelm.wa.us

ARCHITECT:

BCRA
2106 PACIFIC AVENUE, SUITE 300
TACOMA, WA 98402

ATTN: KENT MCLAREN – SENIOR PROJECT MANAGER
TEL: (253) 627-4367
EMAIL: kmclaren@bcradesign.com

STRUCTURAL ENGINEER:

BCRA
2106 PACIFIC AVENUE, SUITE 300
TACOMA, WA 98402

ATTN: WILSON HU, PE, SE – DIRECTOR OF STRUCTURAL ENGINEERING
ATTO: (253) 627-4367
EMAIL: whu@bcradesign.com

CIVIL ENGINEER:

BCRA
2106 PACIFIC AVENUE, SUITE 300
TACOMA, WA 98402

ATTN: ANDY EPSTEIN, PE – PROJECT MANAGER
TEL: (253) 627-4367
EMAIL: aepstein@bcradesign.com

LANDSCAPE ARCHITECT:

BCRA
2106 PACIFIC AVENUE, SUITE 300
TACOMA, WA 98402

ATTN: DAREN CRABILL, PLA, ASLA–LANDSCAPE ARCHITECT
TEL: (253) 627-4367
EMAIL: adcrabill@bcradesign.com

MECHANICAL ENGINEER:

ENGINUITY SYSTEMS LLC
49 BROADWAY, SUITE 100
TACOMA, WA 98402-4122

ATTN: BRUCE J. GUSTAFSON – PRESIDENT
TELEPHONE: (253) 292-0357
FAX: (253) 292-0358
EMAIL: bruce@enginuitysys.com

ELECTRICAL ENGINEER:

TRES WEST ENGINEERS, INC
2702 SOUTH 42ND ST, SUITE 301
TACOMA, WA 98409

ATTN: SEAN ROY – PRINCIPAL
TELEPHONE: (253) 472-3300
EMAIL: sjr@treswest.com

PROJECT DESCRIPTION:

NEW SINGLE STORY, 4,934 COMMUNITY CENTER

PARCEL NUMBERS:

BUILDING, PARCEL #A – 6442-03-00700
PARKING, PARCEL #C – 6442-03-00800

CODE DATA:

SITE ADDRESS: 301 2ND STREET SE
YELM, WA 98597

LOCAL JURISDICTION: CITY OF YELM – YELM MUNICIPAL CODE (YMC)

CODES UTILIZED:
2012 INTERNATIONAL BUILDING CODE (IBC)
2012 INTERNATIONAL MECHANICAL CODE (IMC)
2012 INTERNATIONAL FIRE CODE (IFC)
2012 UNIFORM PLUMBING CODE (UPC)
2012 WASHINGTON STATE ENERGY CODE

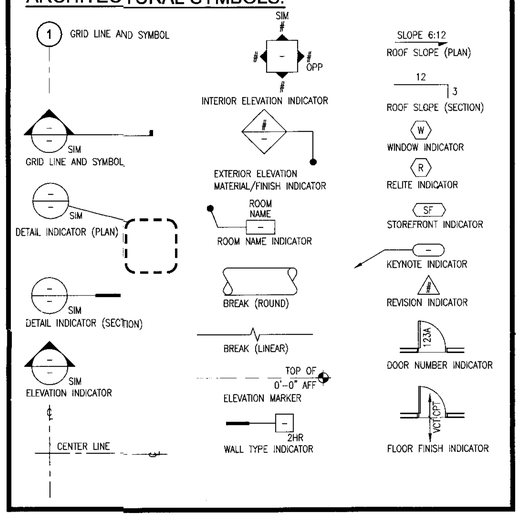
BUILDING DATA:

BUILDING AREA: 4,934 SF (GROSS)
BUILDING HEIGHT: 1 STORY, 29'-9" HIGH
OCCUPANCY TYPE: A-3
TYPE OF CONSTRUCTION: V-B
SPRINKLED: NO

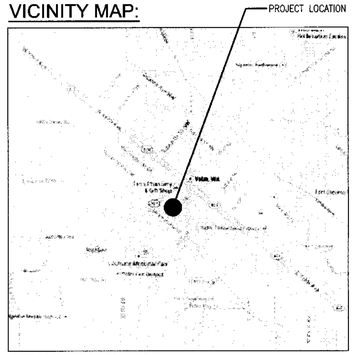
ABBREVIATIONS:

ADJ	ADJUSTABLE	N/A	NOT APPLICABLE
A.F.F.	ABOVE FINISH FLOOR	O.C.	ON CENTER
ALUM	ALUMINUM	OTS	OPEN TO STRUCTURE
ANOD	ANODIZED	PC	PRECAST
BOS	BOTTOM OF STRUCTURE	PLAM	PLASTIC LAMINATE
CLR	CLEAR	PLY	PLYWOOD
CONC	CONCRETE	PR	PAIR
CONT.	CONTINUOUS	PT-	PAINT
D	DEEP	PTD	PAINTED
DEMO	DEMOLISH/DEMOLISHED	RB	RUBBER BASE
DF	DRINKING FOUNTAIN	REQ'D	REQUIRED
DS	DOWNSPOUT	R.O.	ROUGH OPENING
ELEV	ELEVATION	SHT	SHEET
(E) OR EXIST	EXISTING	SM	SHEET METAL
FEC	FIRE EXTINGUISHER CABINET	SSL	STAINLESS STEEL
FIN	FINISH	SV	SHEET VINYL FLOORING
FV	FIELD VERIFY	TBD	TO BE DETERMINED
GALV	GALVANIZED	T.O.	TOP OF
GWB	GYPSUM WALL BOARD	TS	TUBE STEEL
H	HIGH	TYP	TYPICAL
HC	HOLLOW CORE	U.N.O.	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	V.I.F.	VERIFY IN FIELD
HR	HOUR	VCT	VINYL COMPOSITION TILE
MAT'L	MATERIAL	W	WIDE
MIN	MINIMUM	W/	WITH
MTL	METAL	WD	WOOD
		WRB	WEATHER RESISTIVE BARRIER
		WRGWB	WATER RESISTANT GWB

ARCHITECTURAL SYMBOLS:



VICINITY MAP:



GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE 2012 WASHINGTON STATE BUILDING CODE, WASHINGTON STATE BARRIER-FREE STANDARDS, WASHINGTON STATE ENERGY CODE AND ALL GOVERNING JURISDICTIONS' RULES, ORDINANCES, AND REGULATIONS.
   SEPARATE PERMITS ARE REQUIRED FOR: FIRE ALARM, SITE/ LANDSCAPING, PLUMBING PERMITS, MECHANICAL PERMITS, ELECTRICAL PERMITS
2. THE CONTRACTOR SHALL CONSULT PLANS OF ALL TRADES AND CONSULTANTS, INCLUDING DESIGN-BUILD DOCUMENTS TO VERIFY SIZE, LOCATION, WEIGHT, POWER AND OTHER REQUIREMENTS PRIOR TO BIDDING AND AGAIN PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS
4. PROVIDE A NEAT CUT WHERE UTILITIES PENETRATE RATED WALL AND FLOOR ASSEMBLIES. SEAL WITH FIRE-RATED, NON-COMBUSTABLE MATERIAL; IMPERVIOUS TO THE PASSAGE OF SMOKE, CONFORMING TO THE CODE AND BUILDING OFFICIAL'S REQUIREMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED BY THE GOVERNING JURISDICTIONS.
6. NO BUILDING OR PORTION OF THE BUILDING SHALL BE OCCUPIED OR USED FOR STORAGE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE BUILDING OR PORTION OF THE BUILDING.
7. PRIOR TO BEGINNING ANY WORK; THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND PROTECT THEM FROM DAMAGE.
8. ALL WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN A LEGAL MANNER.
9. SLOPE ALL WALKS AND DRIVEWAYS AWAY FROM THE BUILDING.
10. PROVIDE APPROVED FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE MARSHAL. VERIFY THE LOCATIONS INDICATED IN CONSTRUCTION DOCUMENTS WITH THE FIRE MARSHAL AND THE GENERAL CONTRACTOR PRIOR TO FRAMING.
11. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF STOREFRONT MULLION, FACE OF CMU OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
12. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
13. THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT.
14. VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO CONSTRUCTION.
15. REPORT ANY CONFLICTS WITH THE DRAWINGS BEFORE PROCEEDING. ANY WORK COMPLETED BY THE CONTRACTOR AFTER THE DISCOVERY OF CONFLICTING INFORMATION SHALL BE DONE AT THE CONTRACTOR'S RISK.
16. ALL BIDDERS SHALL VISIT THE SITE TO VERIFY CONDITIONS, AND SHALL OBTAIN COMPLETE SETS OF THE MOST RECENT CONSTRUCTION DOCUMENTS BEFORE SUBMITTING BIDS.
17. PROVIDE BLOCKING IN WALLS TO SUPPORT CABINETRY, SHELVING, BATHROOM FIXTURES, DISPLAY RAILS, AND OTHER IMPROVEMENTS AS REQUIRED.

ENERGY CODE NOTES (PER 2012 WSEC):

1. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO FULL DENSITIES AND PROPER CLEARANCES.
2. FACE STAPLE WALL BATT INSULATION.
3. PROVIDE VAPOR RETARDER APPLIED TOWARDS THE WARM SIDE OF THE INSULATION.
4. PROVIDE SEALING, CAULKING, GASKETING, AND WEATHERSTRIPPING AT DOORS, WINDOWS PENETRATIONS, SILL PLATES, BETWEEN WALLS AND ROOF AND WALL PANELS. OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS FLOORS AND ROOFS, AND ALL OTHER OPENINGS IN THE BUILDING ENVELOPE.
5. STOREFRONTS ARE TO BE ALUMINUM FRAME WITH THERMAL BREAK, DOUBLE PANE, ½" AIR SPACE, NO ARGON GAS, WITH LOW E, WITH U-VALUE OF .38 OR BETTER, WITH A SHADING COEFFICIENT = 0.35
6. ALL WORK SHALL MEET NREC REQUIREMENTS.
7. U AND R VALUES:
   ROOF, PER WALL SECTIONS: 6" RIGID INSULATION, R-30 MIN.
   WALLS, PER WALL SECTIONS: BATT INSULATION, R-21, R-30 MIN. – REFER TO A4.01
   SLAB, PER WALL SECTIONS: 2" RIGID INSULATION, R-10 MIN. 2' HORZ.
   STOREFRONT U-VAULE: 0.38 (SEE SHEET A3.01)
   HM DOOR U-VALUE: 0.37 MAX
8. HEATING SOURCE TO BE HEAT PUMP OR GAS. ELECTRIC HEAT SOURCE WILL NOT BE USED.

DRAWING INDEX:

BCRA
T 253.627.4367 F 253.627.4395 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

5328 REGISTERED ARCHITECT
KENT L. MCLAREN
STATE OF WASHINGTON

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

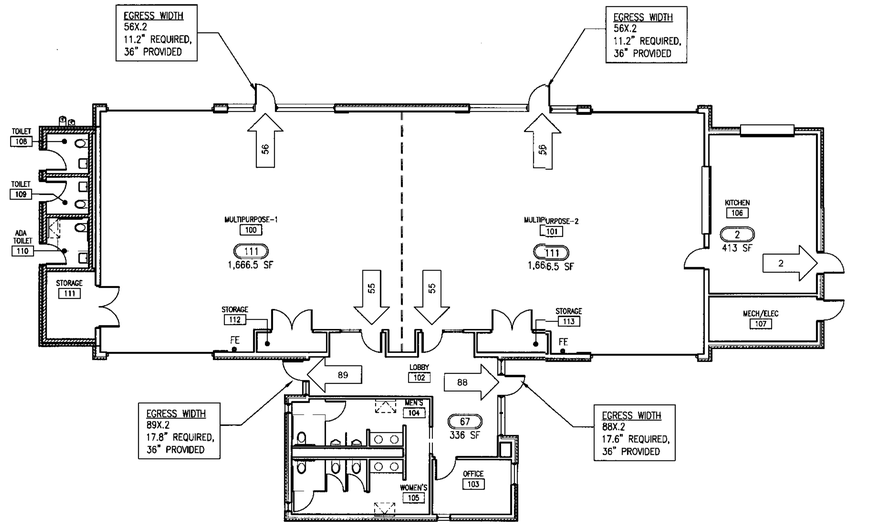
DATE
08.20.14
BCRA NO.
14013
CADD FILE
14013-G1.01.DWG
SHEET TITLE
GENERAL INFORMATION

APPROVED
2-2-2015

SHEET
G1.01

100% CD SET

Date Plotted: Aug 21, 2014 – 2:39pm Filename: 14013G1.01.dwg By: RRUIZ



1 CODE PLAN

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

SCALE: 3/32" = 1'-0"

NORTH

CODE PLAN SYMBOL LEGEND:

- OCCUPANT LOAD / AREA SQUARE FOOTAGE
- DIRECTION OF TRAVEL / NUMBER OF EXITING OCCUPANTS
- FE — FIRE EXTINGUISHER CABINET, 2A-10BC

BUILDING CODE INFORMATION

ACTUAL BUILDING INFORMATION:

BUILDING AREA:	4,934 SF (GROSS)
BUILDING HEIGHT:	1 STORY, 29'-9" HIGH
OCCUPANCY TYPE:	A-3
TYPE OF CONSTRUCTION:	V-B
SPRINKLED:	NO

ALLOWABLE AREA PER 2012 IBC TABLE 503:

AREA:	6,000 SF/FLOOR
HEIGHT:	1 STORY/ 40'-0" MAX. HEIGHT LIMIT

FIRE-RESISTIVE REQUIREMENTS PER 2012 IBC TABLE 601 AND 602:

PRIMARY STRUCTURAL FRAME:	0 HR (704.10)
BEARING WALLS (EXTERIOR):	0 HR (TABLE 602, 704.10)
BEARING WALLS (INTERIOR):	0 HR
NON-BEARING WALLS AND PARTITIONS (EXTERIOR):	0 HR (TABLE 602)
NON-BEARING WALLS AND PARTITIONS (INTERIOR):	0 HR
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:	0 HR
FOOF CONSTRUCTION AND SECONDARY MEMBERS:	0 HR

OCCUPANT LOADS SEE PLAN DIAGRAMS THIS SHEET:

	AREA	FACTOR	OCC LOAD
ASSEMBLY W/O FIXED SEATS	3,333 SF	15	222.2
ENTRY LOBBY	336 SF	5	67.2
KITCHEN	413 SF	200	2.1
STORAGE	174 SF	300	.6
TOTAL OCCUPANTS			292.1 OCC.

PLUMBING FIXTURE CALCULATIONS PER 2012 IBC TABLE 2902.1 AND WA STATE AMENDMENTS:
GROUP A-3: WATER CLOSETS = 1:125 SF FOR MALE AND 1:65 SF FEMALE
292 OCCUPANTS = 146 MEN + 146 WOMEN
REQUIRED WATER CLOSETS: MEN = 1.17, WOMEN = 2.25
PROVIDED WATER CLOSETS: MEN = 4, WOMEN = 4

LAVATORIES = 1:200 SF FOR MALE AND FEMALE
292 OCCUPANTS = 146 MEN + 146 WOMEN
REQUIRED LAVATORIES: MEN = 1, WOMEN = 1
PROVIDED LAVATORIES: MEN = 3, WOMEN = 4

BUILDING AIR BARRIER SYSTEM PERFORMANCE REQUIREMENTS:

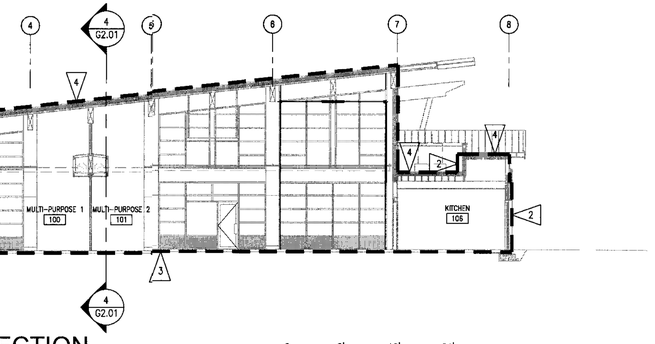
INSTALL A CONTINUOUS AIR BARRIER SYSTEM (PRESSURE BOUNDARY) OVER THE ENTIRE EXTERIOR ENVELOPE (ROOF, WALLS, AND FLOOR) SEPARATING THE INTERIOR CONDITIONED AIR FROM THE EXTERIOR UNCONDITIONED AIR WITH AN AIR LEAKAGE RATE NOT EXCEEDING 0.40 CFM PER SQUARE FOOT OF EXTERIOR ENVELOPE AREA AT 75 Pa OR 0.3 Wg. THE CONTINUOUS BUILDING AIR BARRIER SYSTEM INCLUDES AIR TIGHT CONNECTIONS TO ANY PENETRATIONS, WINDOWS, DOORS, LOUVERS, DUCTS, CONDUIT, ETC. AND BETWEEN ADJACENT DIFFERENT TYPES OF AIR BARRIER SYSTEMS. REFER TO ARCHITECTURAL DETAILS FOR AIR BARRIER SYSTEM CONNECTION DETAILS.

KEYNOTES:

1. EXTERIOR WALL – CMU WALL AIR BARRIER SYSTEM.
2. EXTERIOR WALL – AIR & WATER BARRIER SYSTEM.
3. FLOOR SLAB – CONCRETE SLAB AIR BARRIER SYSTEM.
4. ROOF – AIR/VAPOR BARRIER SYSTEM.

LEGEND:

PRESSURE BOUNDARY OUTLINE

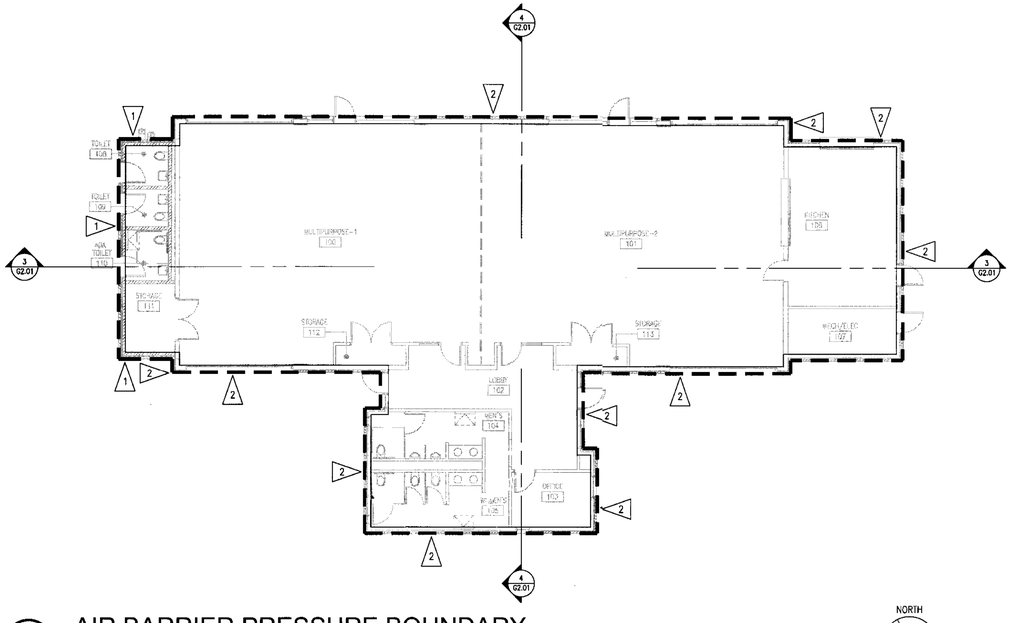


3 AIR BARRIER PRESSURE SECTION

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

SCALE: 3/32" = 1'-0"



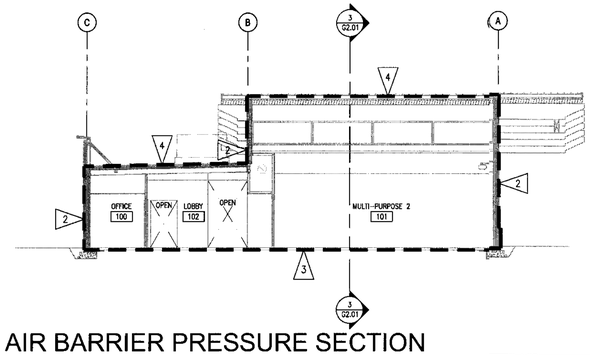
2 AIR BARRIER PRESSURE BOUNDARY

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

SCALE: 3/32" = 1'-0"

NORTH



4 AIR BARRIER PRESSURE SECTION

SCALE: 3/32" = 1'-0"

0 8' 16' 24'

SCALE: 3/32" = 1'-0"

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REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013-G2.01.DWG

SHEET TITLE
CODE INFORMATION
AIR BARRIER ANALYSIS

SHEET
G2.01

100% CD SET

Date Plotted: Aug 19, 2014 - 8:47am Filename: 1401362.01.dwg By: RRUIZ

ABBREVIATIONS

AC	ACRE	G	GAS	R	RADIUS
AP	ANGLE POINT	GA	GAUGE	RCP	REINFORCED CONCRETE
APPD	APPROVED	GRVL	GRAVEL	ROW	REVISED CODE OF WASHINGTON
APPROX	APPROXIMATELY	GV	GAS VALVE	RJ	RESTRAINED JOINT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	H	HEIGHT	ROW	RIGHT-OF-WAY
ARCH	ARCHITECTURAL	HDPE	HIGH DENSITY POLYETHYLENE	RPM	RAISED PAVEMENT MARKER
ASPH	ASPHALT	HMA	HOT MIX ASPHALT	RT	RIGHT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HORIZ	HORIZONTAL	S	SOUTH
AVE	AVENUE	IC	INTEGRAL CURB	SCH	SCHEDULE
BMP	BEST MANAGEMENT PRACTICE	ID	INSIDE DIAMETER	SD	STORM DRAIN
BLDG	BUILDING	IE	INVERT ELEVATION	SDMH	STORM DRAIN MANHOLE
BW	BACK OF WALK	INCH	INCH	SDR	STANDARD DIMENSION RATIO
		IRR	IRRIGATION	SF	SQUARE FEET
&	CENTERLINE			SPECS	SPECIFICATIONS
CB	CATCH BASIN	JBX	JUNCTION BOX	SQ YD	SQUARE YARD
CCCP	CEMENT CONCRETE PAVEMENT	L	LENGTH	SS	SANITARY SEWER
CF	CUBIC FEET	LAT	LATITUDE	ST	STREET
CI	CAST IRON	LF	LINEAR FEET	STA	STATION
CL	CLASS	LGT	LIGHT	STD	STANDARD
CMP	CORRUGATED METAL PIPE	LON	LONGITUDE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
CO	CLEAN OUT	LT	LEFT		
CONC	CONCRETE	MAX	MAXIMUM	T	TELEPHONE
COT	CITY OF TELM	MH	MANHOLE	TC	TOP OF CURB
CPEP	CORRUGATED POLYETHYLENE PIPE	MIN	MINIMUM	TEMP	TEMPORARY
CSTC	CRUSHED SURFACING TOP COURSE	MISC	MISCELLANEOUS	TESC	TEMPORARY EROSION & SEDIMENT CONTROL
		MJ	MECHANICAL JOINT	TMC	TACOMA MUNICIPAL CODE
DEC	DECIDUOUS	MON	MONUMENT	TP	TOP OF PAVEMENT
DEPT	DEPARTMENT			TRANS	TRANSITION
DI	DIAMETER	N	NORTH	TWLT	TWO-WAY LEFT TURN
		NC	NO CURB	TYP	TYPICAL
E	EAST	NO.	NUMBER		
EA	EACH	NTS	NOT TO SCALE	UG	UNDER GROUND
ECC	EXTRUDED CURB			UON	UNLESS OTHERWISE NOTED
EG	EXISTING GRADE	OC	ON CENTER	UP	UTILITY POLE
EJ	EXPANSION JOINT	OD	OUTSIDE DIAMTER		
ELEV	ELEVATION	OFF	OFFSET	V	VALVE
EP	EDGE OF PAVEMENT			VAR	VARIABLE
ESC	EROSION & SEDIMENT CONTROL	PC	POINT OF CURVE	VERT	VERTICAL
EXIST	EXISTING	PCC	POINT OF COMPOUND CURVE		
		PI	POINT OF INTERSECTION	W	WEST
FFE	FINISH FLOOR ELEVATION	PL	PROPERTY LINE	W/	WITH
FG	FINISHED GRADE	PP	POWER POLE	WAC	WASHINGTON ADMINISTRATIVE CODE
FH	FIRE HYDRANT	PRC	POINT OF REVERSE CURVE	WO	WORK ORDER
FL	FLOW LINE	PROP	PROPOSED	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
		PT	POINT OF TANGENT	WV	WATER VALVE
		PVC	POLYVINYL CHLORIDE		
		PVMT	PAVEMENT		

NOTES:

MANY SITE IMPROVEMENTS HAVE BEEN REMOVED SINCE PREPARATION OF BASE SURVEY AND THEREFORE CANNOT BE RELIED ON FOR REPRESENTING EXISTING CONDITIONS. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE SITE, AND IDENTIFY THE REMAINING SITE IMPROVEMENTS FOR DEMOLITION, AND OBTAIN A SURVEY IF DEEMED NECESSARY FOR BIDDING. REMOVE REMAINING SITE IMPROVEMENTS PER THE SPECIFICATIONS AND DEMOLITION NOTES.

SHEET NOTES:

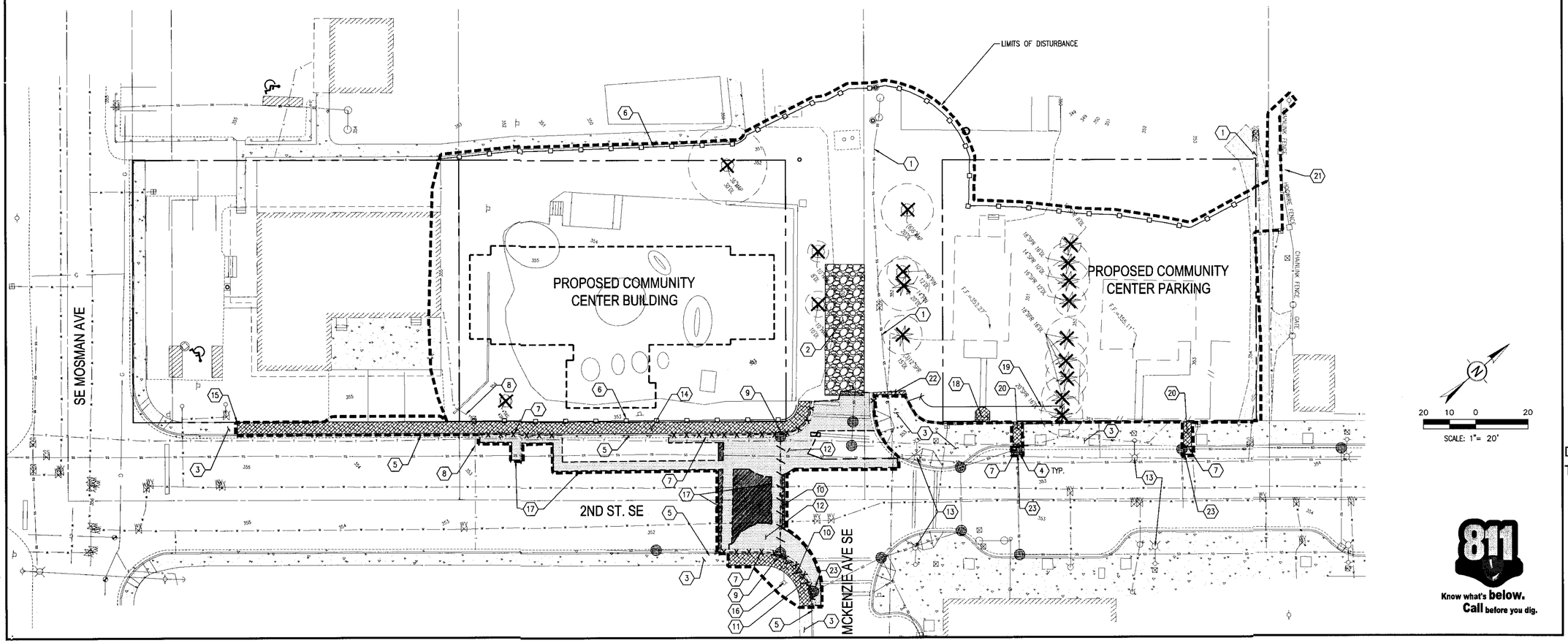
1. PROTECT SANITARY SEWER PRESSURE SERVICE LINE. LOCATION APPROXIMATE, CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING LINE AT CROSSINGS.
2. INSTALL CONSTRUCTION EXIT PER DETAIL.
3. PRESERVE AND PROTECT EXISTING SIDEWALK.
4. INSTALL CATCH BASIN INLET PROTECTION PER DETAIL.
5. PRESERVE AND PROTECT EXISTING CURB AND GUTTER.
6. INSTALL SILTATION FENCE PER DETAIL.
7. REMOVE EXISTING CURB AND GUTTER. REMOVE CURB TO NEAREST JOINT.
8. PRESERVE AND PROTECT EXISTING COMMUNICATION LINE.
9. REMOVE EXISTING CATCH BASIN.
10. REMOVE EXISTING STORM LINE.
11. REMOVE EXISTING SIDEWALK. REMOVE TO NEAREST JOINT WITH SAWCUT OR AT EXPANSION JOINT.
12. REMOVE EXISTING ASPHALT PAVEMENT SECTION.
13. PRESERVE AND PROTECT EXISTING LIGHT POLE.
14. REMOVE EXISTING SIDEWALK.
15. REMOVE SIDEWALK TO POINT OF NEW SIDEWALK IMPROVEMENTS BY OTHERS.
16. EXISTING POLE AND FOUNDATION TO BE REMOVED REFER TO SITE ELECTRICAL PLAN FOR IMPROVEMENTS.
17. SAW CUT NEAT UNIFORM VERTICAL EDGE FULL DEPTH OF EXISTING PAVEMENT SECTION REFER TO TRENCH PAVEMENT RESTORATION DETAIL.
18. REMOVE STAIRS AND RAILING.
19. REMOVE RAILING TO BE FLUSH WITH SIDEWALK. GRIND EXPOSED METAL PIPE SMOOTH. GROUT INSIDE OF METAL PIPE AS NEEDED SO THAT SURFACE IS FLUSH WITH SIDEWALK.
20. REMOVE EXISTING SIDEWALK WITH SAW CUT FOR PROPOSED SCUPPER.
21. PROTECT EXISTING FENCE.
22. SAW CUT AND REMOVE EXISTING SIDEWALK WHERE INDICATED FOR PROPOSED IMPROVEMENTS.
23. PROTECT EXISTING CATCH BASIN.

LEGEND

- PROPERTY LINE
- ROAD CENTERLINE
- LIMITS OF DISTURBANCE
- CONSTRUCTION EXIT
- CATCH BASIN INLET PROTECTION
- SILTATION FENCE
- -X-X-X-X-X-X- REMOVE EXISTING CURB
- -/-/-/-/-/-/- REMOVE EXISTING UTILITY
- PAVEMENT CUT
- REMOVE PAINT/ THERMOPLASTIC
- REMOVE ASPHALT PAVEMENT SECTION
- REMOVE EXISTING SIDEWALK/STAIRS
- 2" PLANE ASPHALT PAVEMENT
- REMOVE TREE

NOTES:

1. REFER TO SHEET C1.02 FOR DEMOLITION NOTES.



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AMDLEW B. EDELEAN — STATE OF WASHINGTON — 44321 — REGISTERED PROFESSIONAL ENGINEER

2014 12:57 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE	08.20.14
BCRA NO.	14013
CADD FILE	14013C-C1.01

SHEET TITLE

DEMOLITION AND TESC PLAN

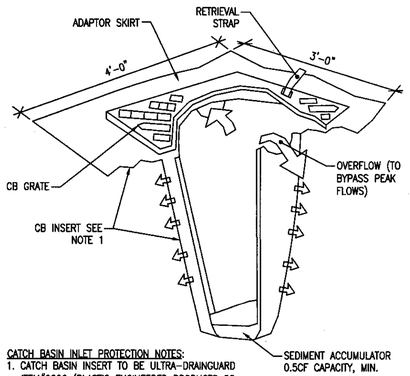
BCRA

SHEET

C1.01

PERMIT SET

Date Plotted: Aug 21, 2014 - 12:25pm Filename: 14013C-C1.01.dwg By: BREALS



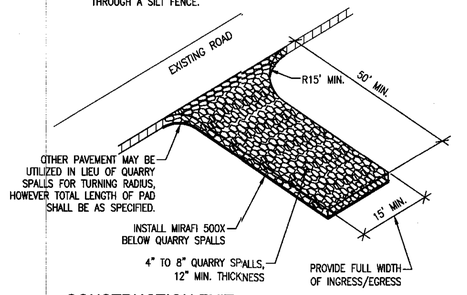
CATCH BASIN INLET PROTECTION NOTES:
1. CATCH BASIN INSERT TO BE ULTRA-DRAINGUARD ITEM#9226 (PLASTIC ENGINEERED PRODUCTS CO., 1-800-407-3726), OR APPROVED.
2. FILTERS SHALL BE REMOVED AND CLEANED OR REPLACED AFTER EACH STORM EVENT.

CATCH BASIN INLET PROTECTION

SCALE: NTS — 1

CONSTRUCTION EXIT NOTES:

1. MATERIAL SHALL BE 4-INCH TO 8-INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1-INCH TO 3-INCH ROCK.
2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.



CONSTRUCTION EXIT

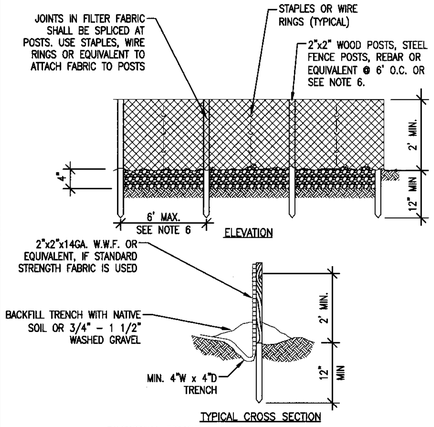
SCALE: NTS — 3

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING LOTS, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SATISFACTORY MATERIAL AND BROUGHT TO GRADE WITH SATISFACTORY COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY PURVEYOR. FEES ARE REIMBURSABLE PER CONTRACT.
4. THE LOCATION OF EXISTING UTILITIES SHOWN MAY DIFFER FROM ACTUAL LOCATION. CONTRACTOR SHOULD NOT ASSUME UTILITIES SHOWN WILL BE THE ONLY UTILITIES/OBSTACLES THAT MAY BE PRESENT ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE OWNER.
6. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
7. PRIOR TO DEMOLITION OCCURRING, EROSION CONTROL DEVICES ARE TO BE INSTALLED AS OUTLINED ON THIS PLAN.
8. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING STORM INLET STRUCTURES, ETC., THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
9. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
10. STRIP ALL EXISTING VEGETATION AND TOPSOIL WHERE GRADING WORK IS TO OCCUR, UNLESS OTHERWISE NOTED.
11. THE DEMOLITION SHOWN IS NOT INTENDED TO BE AN EXHAUSTIVE LIST OF ITEMS TO BE DEMOLISHED. DEMOLITION NOTES ARE FOR CLARIFICATION ONLY AND ARE SHOWN FOR THE CONTRACTOR'S BENEFIT. THE CONTRACTOR SHALL REMOVE/ABANDON OR RELOCATE ALL EXISTING ON-SITE FACILITIES NECESSARY TO ACCOMMODATE THE PROPOSED IMPROVEMENTS. NO CLEARING SHALL OCCUR OUTSIDE OF THE LIMITS OF DISTURBANCE.
12. CONTRACTOR SHALL REMOVE ALL EXISTING UTILITIES THAT WILL SERVE NO PURPOSE WITHIN AND 10' BEYOND THE PROPOSED BUILDING PAD AND APPURTENANCES. PIPES THAT WILL SERVE NO PURPOSE WITH THIS PROPOSED PROJECT WITH MORE THAN 3' OF COVER IN THE FINAL CONDITION AND DO NOT CONFLICT WITH NEW UTILITIES, STRUCTURES, ETC. MAY BE DECOMMISSIONED AND ABANDONED IN PLACE, PROVIDED THAT THESE ABANDONED UTILITIES ARE FILLED WITH SAND, GROUTED AND CAPPED OR AS REQUIRED BY UTILITY PURVEYOR. BACKFILL TRENCHES AND COMPACT TO 95% MAX DRY DENSITY, UNLESS OTHERWISE NOTED. COORDINATE WITH UTILITY PURVEYORS TO ADDRESS CONNECTIONS AT MAINS PER UTILITY PURVEYOR STANDARDS.
13. CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURES, VALVE BOXES, VAULT LIDS AND UTILITY ACCESS STRUCTURES THAT WILL BE PRESERVED TO FINISH GRADE WITHIN AREAS AFFECTED BY CONSTRUCTION.
14. LIMITS OF DISTURBANCE ARE SHOWN PAST THE PROPERTY LINE FOR CLARITY. LAND DISTURBING ACTIVITY SHOULD NOT EXTEND ONTO ADJACENT PROPERTIES UNLESS OTHERWISE NOTED.

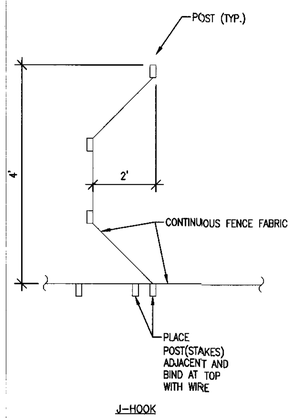
EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL NOT BE ALLOWED.
3. THE CONTRACTOR SHALL MAKE A DAILY SURVEILLANCE OF ALL EROSION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS OR ADDITIONS TO THE EROSION CONTROL MEASURES AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED NECESSARY BY THE INSPECTOR AND/OR PROJECT ENGINEER. FAILURE TO COMPLY WITH ALL LOCAL AND STATE EROSION CONTROL REQUIREMENTS MAY RESULT IN CIVIL PENALTIES BEING LEVIED AGAINST THE CONTRACTOR.
4. DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30TH), ALL DISTURBED SOILS SHALL BE STABILIZED WITHIN 48 HOURS AFTER STOP OF WORK. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, COVERING THE AFFECTED AREA (INCLUDING SPOIL PILES WITH PLASTIC SHEETING, STRAW MATTING, JUTE MATTING, STRAW MULCH, OR WOOD CHIPS). SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE AS WEATHER PERMITS.
5. TRACKING OF SOIL, MUD, OR DEBRIS OFF SITE WILL NOT BE ALLOWED. IF SOIL, MUD, OR DEBRIS IS TRACKED ONTO A PUBLIC ROADWAY, THEN IT SHALL BE REMOVED IMMEDIATELY. TO PREVENT THE TRACKING OF SOIL, MUD, OR DEBRIS ONTO PUBLIC ROADWAYS, SWEEPING OR WASHING OF THE VEHICLE'S TIRES MAY BE REQUIRED PRIOR TO ENTERING A PUBLIC ROADWAY.
6. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT STREAMS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES.
7. ALL STORM SEWER INLETS RECEIVING RUNOFF FROM THE PROJECT DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL BE FILTERED BEFORE ENTERING THE CONVEYANCE SYSTEM.
8. ALL OFF-SITE CATCH BASINS IMMEDIATELY ADJACENT TO THE PROPOSED SITE SHALL BE PROTECTED FROM SILTATION-EXISTING AND NEW.
9. ALL DISTURBED AREAS SHALL BE PERMANENTLY LANDSCAPED UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF THE VEGETATION IS ESTABLISHED.



SILTATION FENCE NOTES:

1. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS, OR WHERE THIS IS NOT PRACTICAL J-HOOKS SHALL BE INSTALED PER DETAIL TO THE RIGHT.
2. CONTRIBUTING LENGTH TO FENCE WILL NOT BE GREATER THAN 100 FEET.
3. DO NOT INSTALL BELOW OUTLET PIPE OR WEIR.
4. INSTALL DOWNSLOPE OF EXPOSED AREAS.
5. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.
6. POST SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.



SILTATION FENCE

SCALE: NTS — 2

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CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

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08.20.14
BCRA NO.
14013
CADD FILE
14013C-SITE-PLAN
SHEET TITLE

TESC DETAILS

SHEET
C1.02
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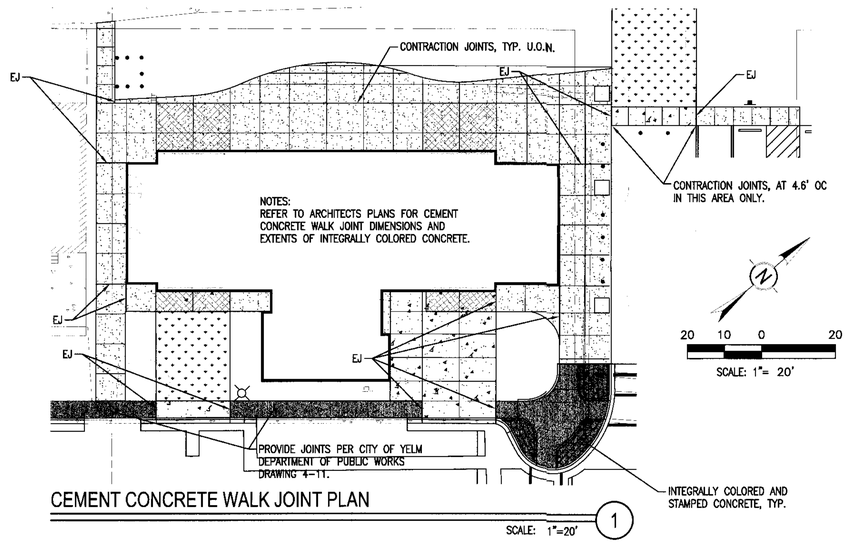


CEMENT CONCRETE WALK JOINT PLAN

SCALE: 1"=20' (1)

SHEET NOTES:

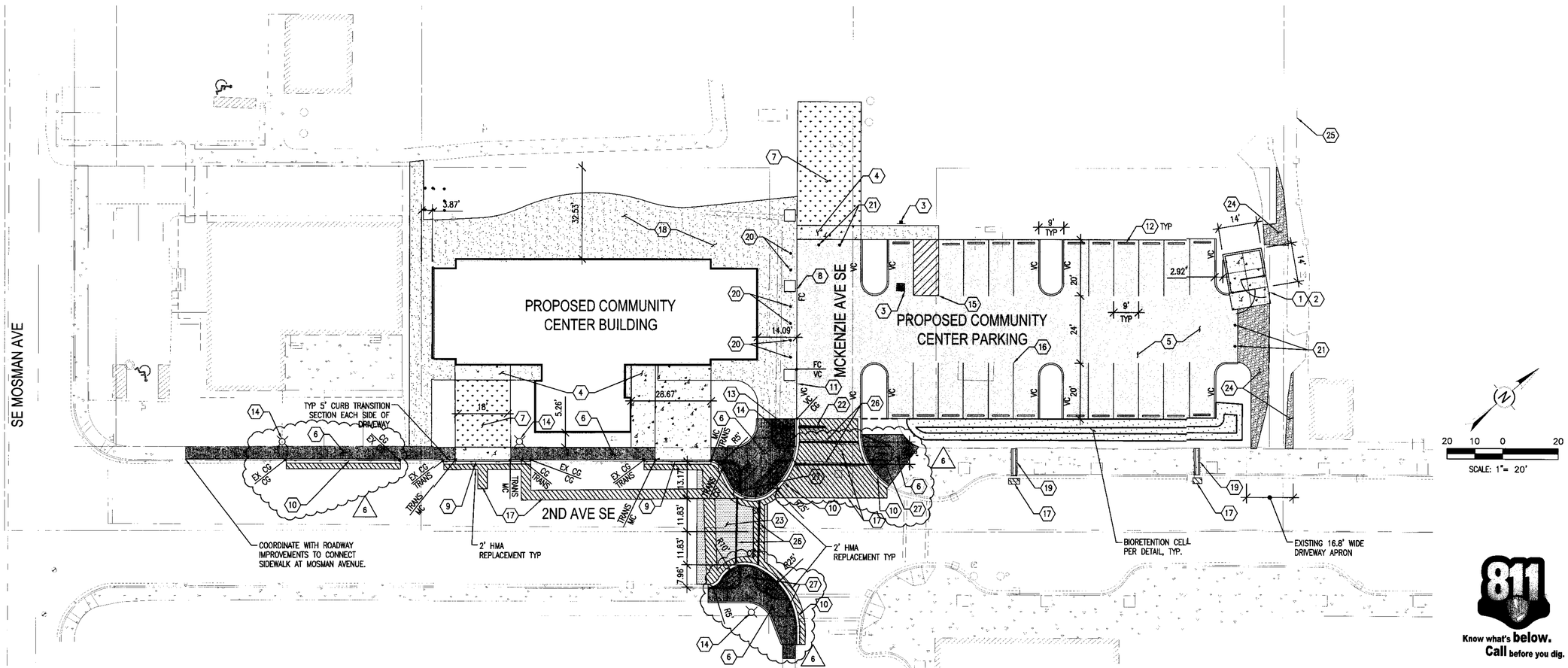
1. TRASH ENCLOSURE PER DETAIL ON ARCHITECTS PLANS.
2. TRASH ENCLOSURE SLAB PER CEMENT CONCRETE PAVEMENT DETAIL.
3. ADA PARKING STALL SIGN AND PAINTED SYMBOL PER DETAILS.
4. CEMENT CONCRETE PAVEMENT PER DETAIL.
5. HMA PAVEMENT PER DETAIL.
6. CEMENT CONCRETE SIDEWALK PER CITY OF YELM DEPT. OF PUBLIC WORKS DWG 4-11. AND STORM DRAINAGE AND GRADING PLAN.
7. GRASSPAVE² PER MANUFACTURES DETAILS.
8. FLUSH CURB PER DETAIL.
9. MOUNTABLE CURB PER DETAIL.
10. CURB AND GUTTER PER CITY OF YELM DEPT. OF PUBLIC WORKS DWG 4-13.
11. VERTICAL CURB PER CITY OF YELM DEPT. OF PUBLIC WORKS DWG 4-13.
12. WHEEL STOP PER DETAIL, TYP.
13. STOP SIGN PER DETAIL.
14. NEW LIGHT POLE AND BASE. REFER TO ELECTRICAL PLANS FOR SIGHT LIGHTING.
15. PASSENGER LOADING ZONE – 4" WIDE WHITE 45° DIAGONAL STRIPING AT 2 FEET O.C., TYP.
16. PARKING STALL – 4" WIDE SOLID WHITE LINE, TYP.
17. REPLACE HMA PAVEMENT FOR UTILITY TRENCH WORK AND ALL OFFSITE HMA PAVEMENT INDICATED TO BE REPLACED PER "TRENCH–PAVEMENT RESTORATION DETAIL" SEE CITY OF YELM DEPT. OF PUBLIC WORKS DWG 4-11.
18. CEMENT CONCRETE WALK PER DETAIL.
19. CEMENT CONCRETE DRAINAGE SCUPPER PER DETAIL.
20. PIPE BOLLARD SPACING AT 6' O.C.
21. REMOVABLE BOLLARDS
22. REPLACE STOP BAR WITH 8" WIDE THERMOPLASTIC.
23. OVERLAY PAVEMENT PER DETAIL.
24. PROVIDE MIN. 6" THICK CRUSHED SURFACING TOP COURSE PER WSDOT STANDARD SPEC. 4-04.
25. REPAIR EXISTING FENCE DAMAGED BY UTILITY WORK.
26. REPLACE CROSS WALK WITH 8" WIDE SOLID WHITE STRIPE AS INDICATED.
27. PERPENDICULAR CURB RAMPS PER DETAIL.

LEGEND

- PROPERTY/BOUNDARY LINE
- BUILDING FOOTPRINT
- CEMENT CONCRETE WALK
- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT – ON SITE
- HMA PAVEMENT – OFF SITE
- HMA PAVEMENT OVERLAY
- GRASSPAVE²
- BIORETENTION CELL
- CURB AND GUTTER
- VC — VERTICAL CURB
- FC — FLUSH CURB
- CG — CURB & GUTTER
- MC — MOUNTABLE CURB
- EC / VC — CURB TYPE CHANGING POINT
- SIGN
- BOLLARD

SITE AND SURFACING NOTES:

1. THE EXISTING SITE SOILS REQUIRE PROPER COMPACTION PRIOR TO PLACEMENT OF BUILDING, PAVING, AND UTILITY IMPROVEMENTS.
2. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING OR CENTER OF STRIPING UNLESS OTHERWISE NOTED.



SCALE: 1"= 20'

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STATE OF WASHINGTON
44221
REGISTERED PROFESSIONAL ENGINEER
May 13 2015 2:01 PM

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS
6 CCD 4 – 05.13.15

DATE
02.17.15
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CADD FILE
14013C-C2.01
SHEET TITLE
SITE PLAN

SHEET C2.01

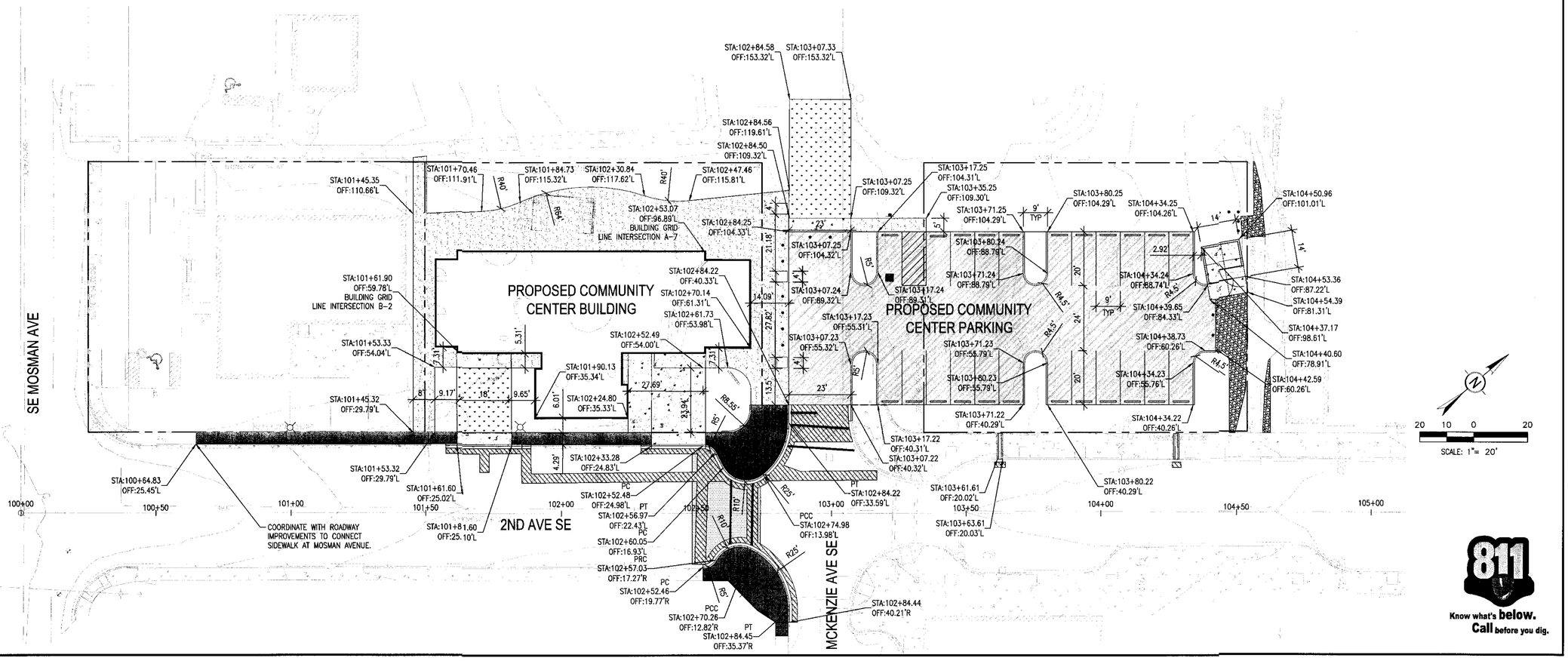
Date Plotted: May 13, 2015 – 1:34pm Filename: 14013C-C2.01.dwg By: BBEALS

LEGEND

- PROPERTY/BOUNDARY LINE
- BUILDING FOOTPRINT
- CEMENT CONCRETE WALK
- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT
- HMA PAVEMENT OVERLAY
- GRASSPAVE²
- CURB AND GUTTER

HORIZONTAL CONTROL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING OR CENTER OF STRIPING UNLESS OTHERWISE NOTED.



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YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013C-C2.02

SHEET TITLE
HORIZONTAL CONTROL PLAN

SHEET
C2.02

PERMIT SET

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Know what's **below.**
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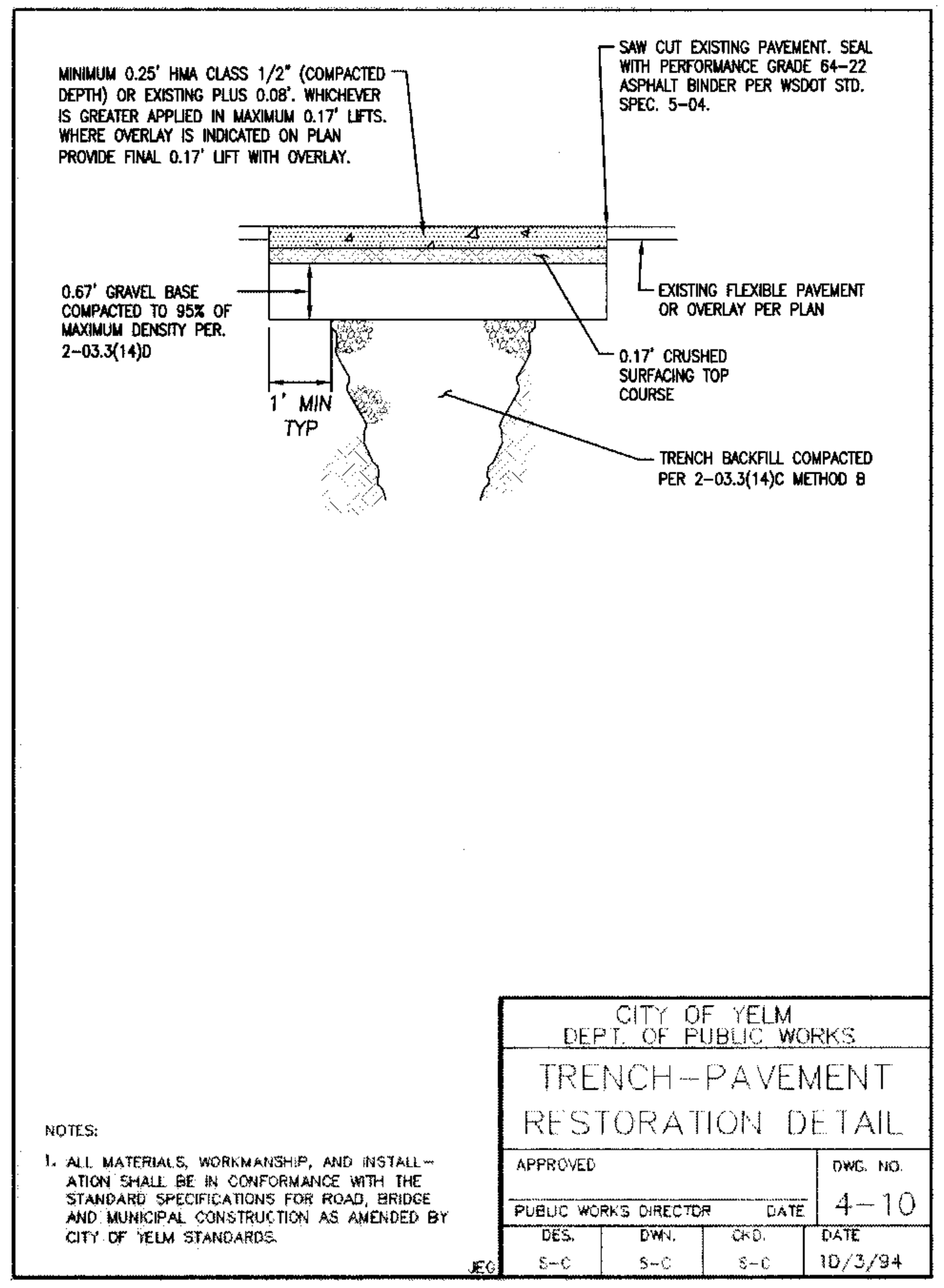
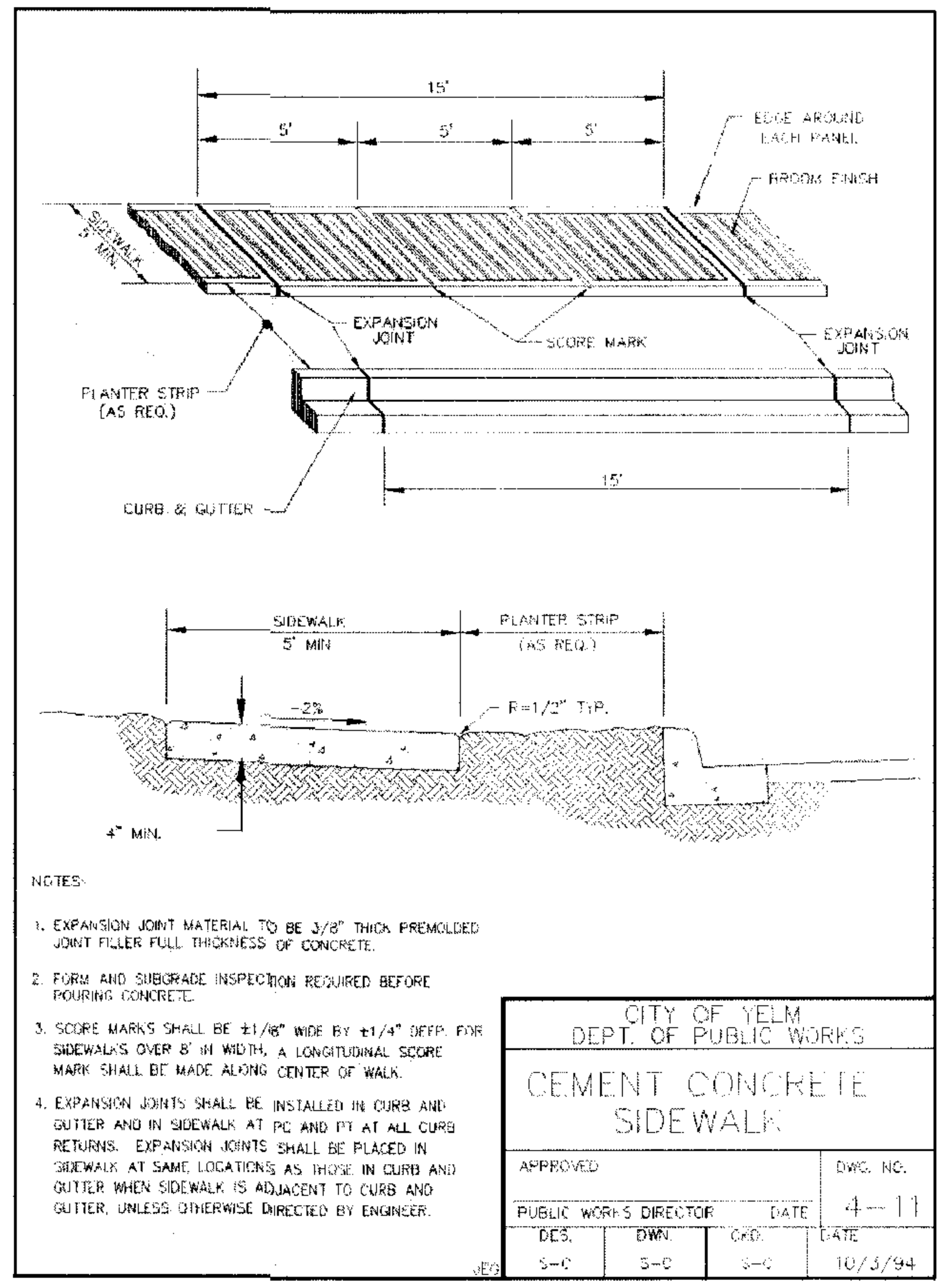
Date Plotted: Aug 21, 2014 - 12:26pm Filename: 14013C-C2.02.dwg By: BBEALS


MINIMUM 0.25' HMA CLASS 1/2" (COMPACTED DEPTH) OR EXISTING PLUS 0.08', WHICHEVER IS GREATER APPLIED IN MAXIMUM 0.17' LIFTS. WHERE OVERLAY IS INDICATED ON PLAN PROVIDE FINAL 0.17' LIFT WITH OVERLAY.
SAW CUT EXISTING PAVEMENT, SEAL WITH PERFORMANCE GRADE 64-22 ASPHALT BINDER PER WSDOT STD. SPEC. 5-04.
0.67' GRAVEL BASE COMPACTED TO 95% OF MAXIMUM DENSITY PER. 2-03.3(14)D
EXISTING FLEXIBLE PAVEMENT OR OVERLAY PER PLAN
0.17' CRUSHED SURFACING TOP COURSE
1' MIN TYP
TRENCH BACKFILL COMPACTED PER 2-03.3(14)C METHOD B
NOTES:
1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF YELM STANDARDS.
CITY OF YELM DEPT. OF PUBLIC WORKS
TRENCH-PAVEMENT RESTORATION DETAIL
APPROVED
DWG. NO.
PUBLIC WORKS DIRECTOR
DATE
4-10
DES.
DWN.
CKD.
DATE
10/3/94

TRENCH PAVEMENT RESTORATION (1)

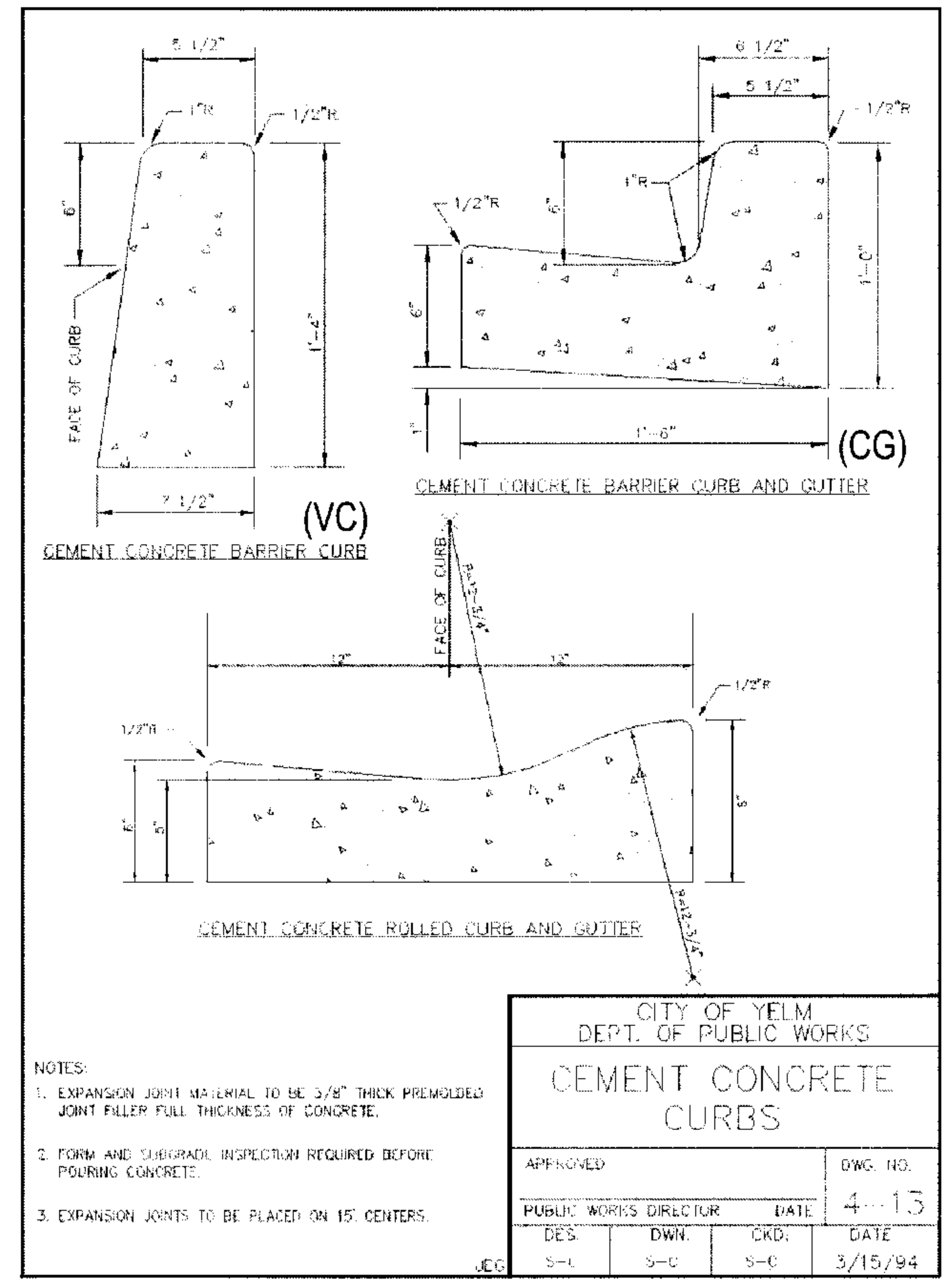
REVISED BY BCRA

SCALE: NTS


15'
5'
5'
5'
EDGE AROUND EACH PANEL
BROOM FINISH
EXPANSION JOINT
SCORE MARK
EXPANSION JOINT
PLANTER STRIP (AS REQ.)
CURB & GUTTER
15'
SIDEWALK
5' MIN
PLANTER STRIP (AS REQ.)
R=1/2" TYP.
4" MIN.
NOTES:
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SCORE MARKS SHALL BE ±1/8" WIDE BY ±1/4" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY ENGINEER.
CITY OF YELM DEPT. OF PUBLIC WORKS
CEMENT CONCRETE SIDEWALK
APPROVED
DWG. NO.
PUBLIC WORKS DIRECTOR
DATE
4-11
DES.
DWN.
CKD.
DATE
10/3/94

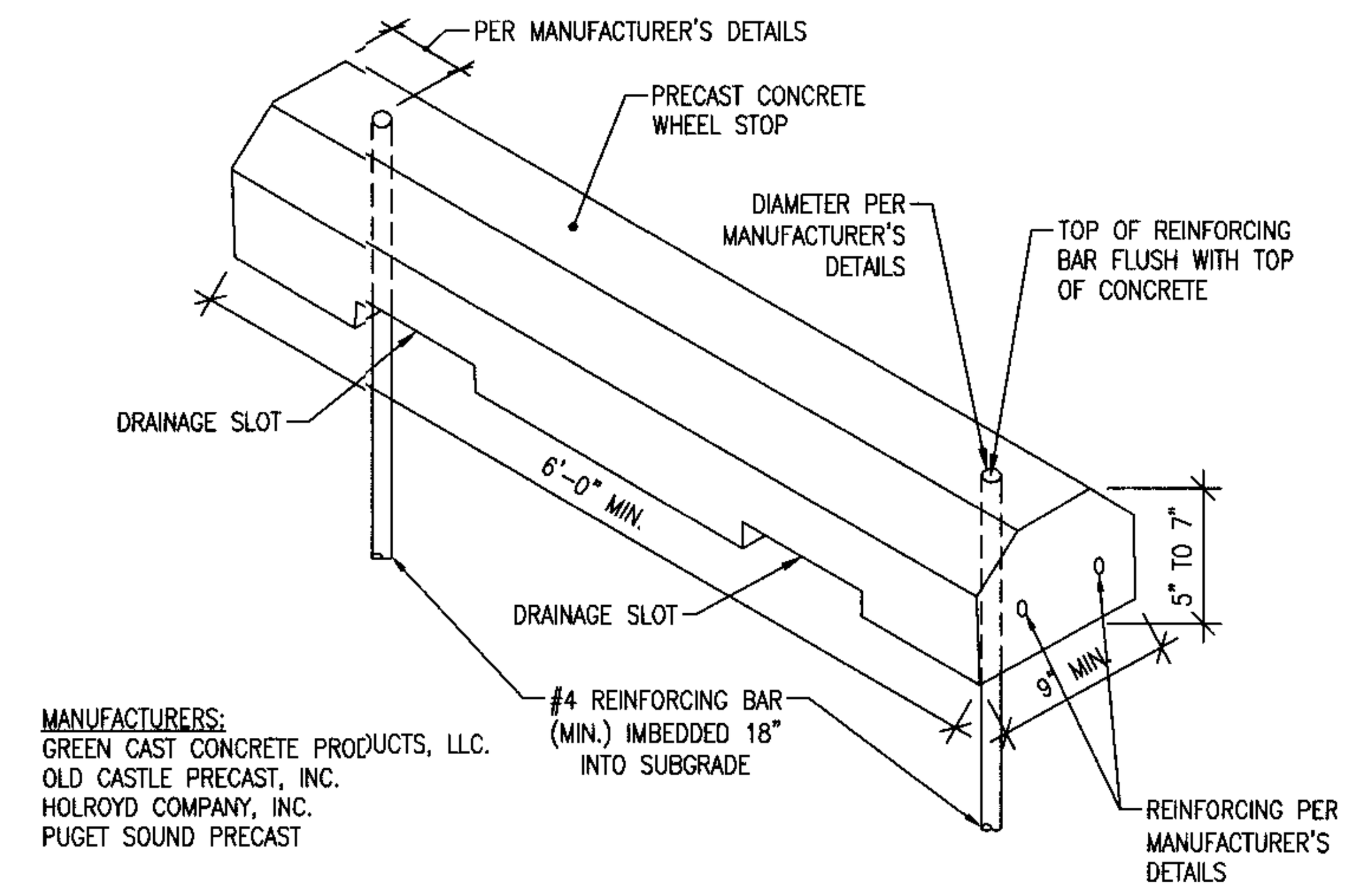
CEMENT CONCRETE SIDEWALK (2)

SCALE: NTS


(VC)
CEMENT CONCRETE BARRIER CURB
(CG)
CEMENT CONCRETE BARRIER CURB AND GUTTER
CEMENT CONCRETE ROLLED CURB AND GUTTER
FACE OF CURB
NOTES:
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. EXPANSION JOINTS TO BE PLACED ON 15' CENTERS.
CITY OF YELM DEPT. OF PUBLIC WORKS
CEMENT CONCRETE CURBS
APPROVED
DWG. NO.
PUBLIC WORKS DIRECTOR
DATE
4-13
DES.
DWN.
CKD.
DATE
3/15/94

CEMENT CONCRETE CURBS (3)

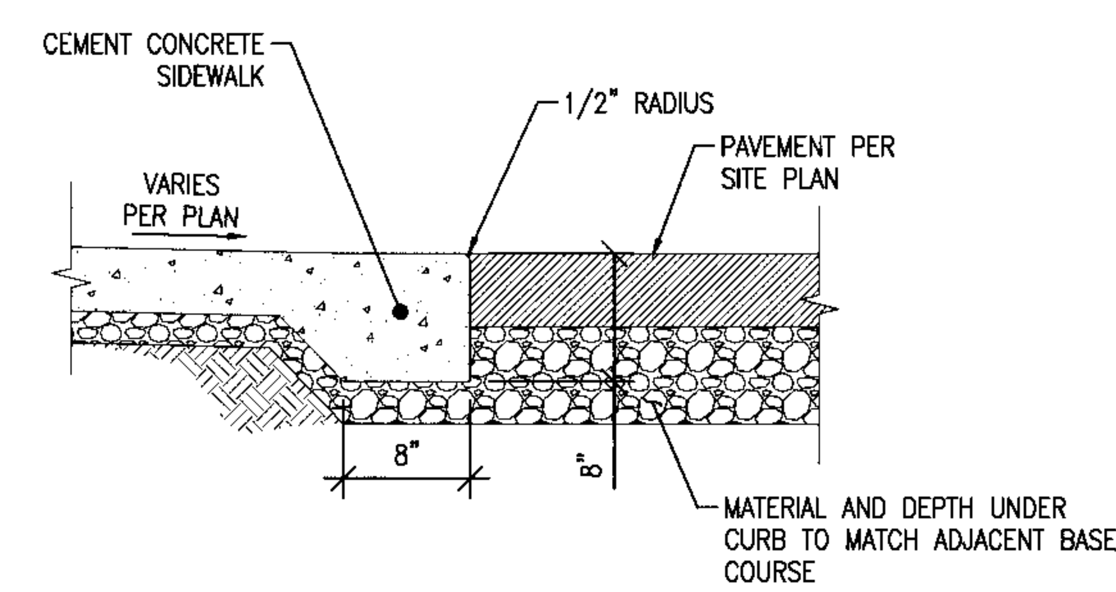
SCALE: NTS


PER MANUFACTURER'S DETAILS
PRECAST CONCRETE WHEEL STOP
DIAMETER PER MANUFACTURER'S DETAILS
TOP OF REINFORCING BAR FLUSH WITH TOP OF CONCRETE
DRAINAGE SLOT
6'-0" MIN.
DRAINAGE SLOT
5" TO 7"
#4 REINFORCING BAR (MIN.) IMBEDDED 18" INTO SUBGRADE
9" MIN.
REINFORCING PER MANUFACTURER'S DETAILS

MANUFACTURERS:
GREEN CAST CONCRETE PRODUCTS, LLC.
OLD CASTLE PRECAST, INC.
HOLROYD COMPANY, INC.
PUGET SOUND PRECAST

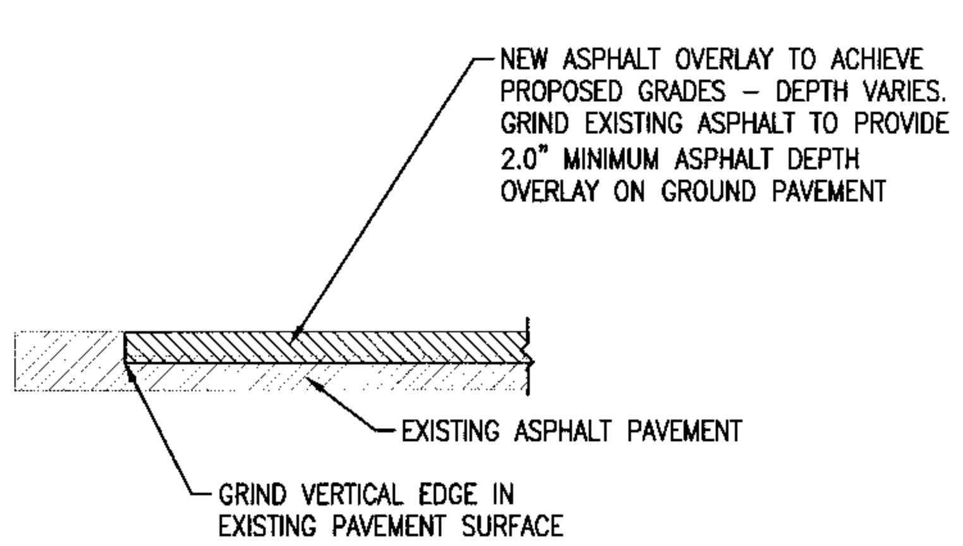
WHEEL STOP (4)

SCALE: NTS



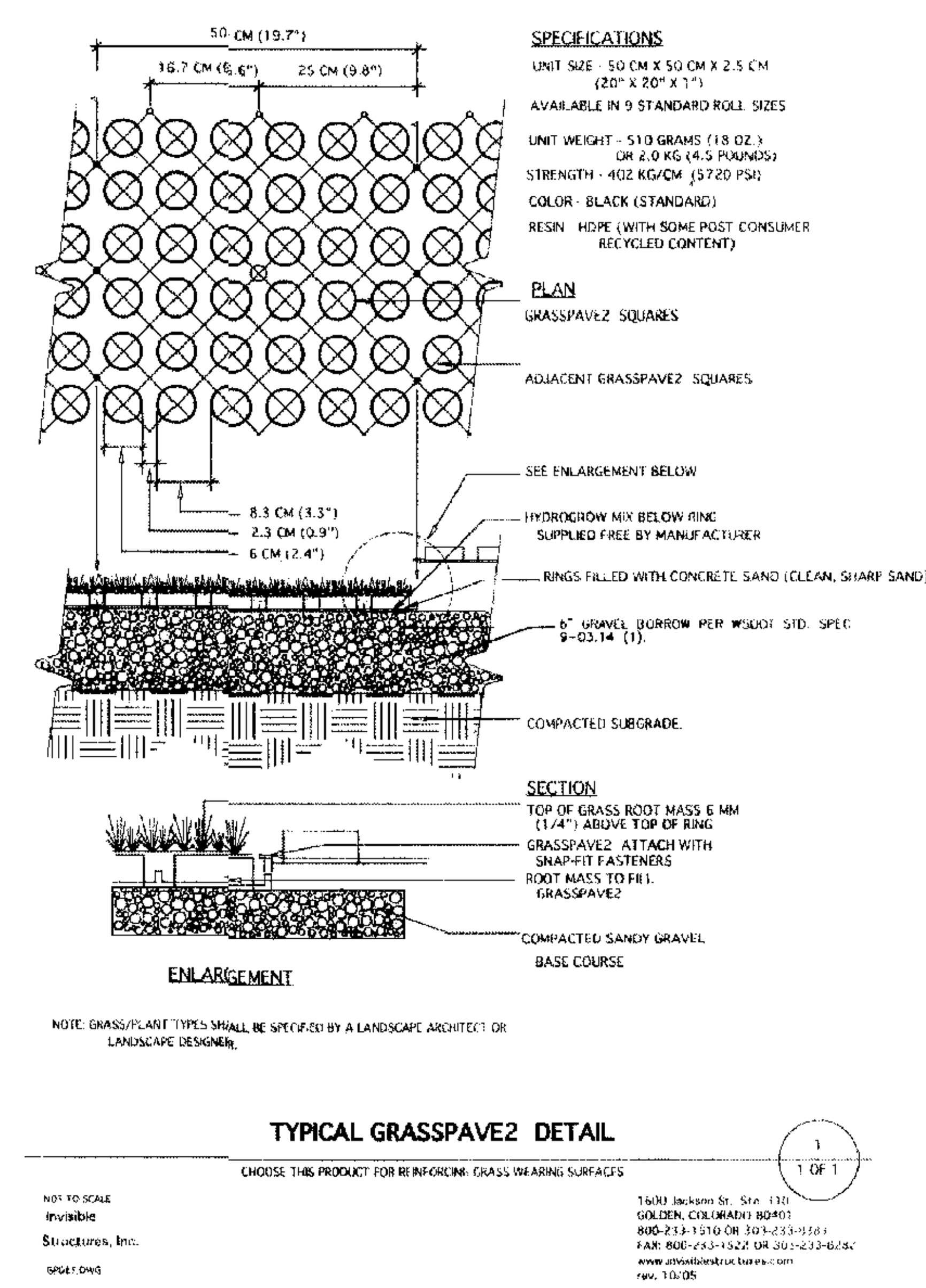
FLUSH CURB (FC) (5)

SCALE: NTS



ASPHALT OVERLAY (6)

SCALE: NTS



GRASSPAVE2 DETAIL (7)

SCALE: NTS

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ANDREW B. EPSTEIN, STATE OF WASHINGTON, 44221, REGISTERED PROFESSIONAL ENGINEER — 2014-12-08 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013C-C2.03

SHEET TITLE
SITE AND SURFACING DETAILS

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SHEET
C2.03

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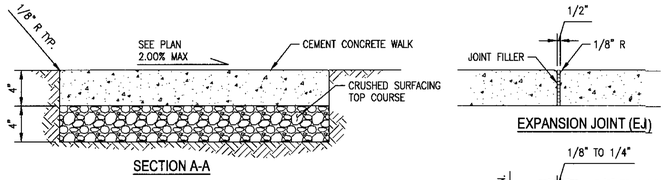
Date Plotted: Aug 21, 2014 – 12:26pm Filename: 14013C-C2.03.dwg By: BBEALS

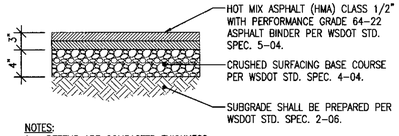


SECTION A-A

NOTES:
1. COMPACTED SUBGRADE/CRUSHED SURFACING TOP COURSE FOR CURBS & WALKS TO BE 95% OF THE MAXIMUM DENSITY.
2. DEPTHS SHOWN ARE COMPACTED THICKNESS.
3. PROVIDE 1/2" EXPANSION JOINT BETWEEN WALK AND ALL FIXED OBJECTS.

CEMENT CONCRETE WALK

SCALE: NTS — 1

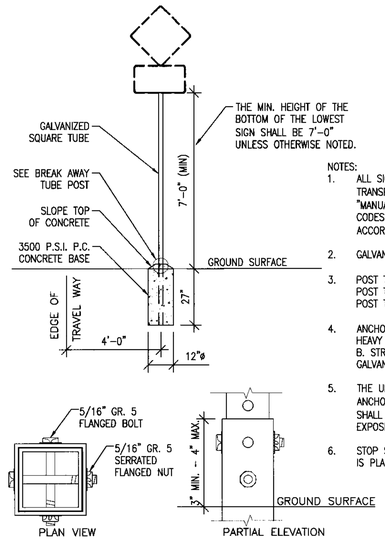


NOTES:
1. DEPTHS ARE COMPACTED THICKNESS.

PAVEMENT SECTION

HMA PAVEMENT - ON SITE

SCALE: NTS — 2



SQUARE TUBE BREAK AWAY POST
N.T.S.

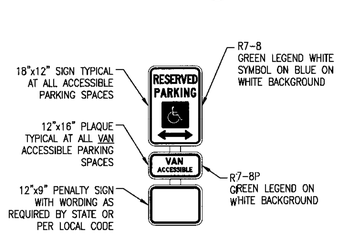
NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE
3. POST TUBES – 2"x2"x3/16" 14ga
   POST TUBE SHALL MEET ASTM A1011 GRADE 50.
   POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.
4. ANCHOR TUBE – 2-1/4"x2-1/4"x3/16" 14ga
   HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B. STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.
5. THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.
6. STOP SIGN MUST BE ON TOP WHEN MORE THAN ONE SIGN IS PLACED ON THE SAME POST.

SIGN MOUNTING AND BASE DETAIL

SCALE: NTS — 3

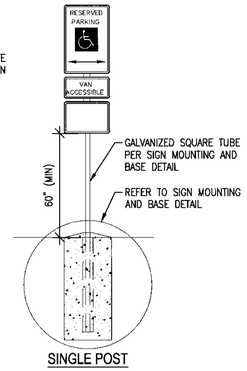
STOP SIGN

SCALE: NTS — 4



ACCESSIBLE PARKING SIGN

NOTES:
1. SEE SITE PLANS FOR ACCESSIBLE PARKING LOCATIONS.
2. LOCATE SIGN AT END OF STALL AT CENTER LINE 2.5' BEYOND FACE OF CURB
3. THE MIN. HEIGHT OF THE BOTTOM OF THE LOWEST SIGN SHALL BE 60".



SINGLE POST

ACCESSIBLE PARKING SIGN

SCALE: NTS — 5

NOTES:
1. DEPTHS ARE COMPACTED THICKNESS.
2. ALL BASE (INCLUDING SUBBASE AND BASE MATERIAL) SHALL BE COMPACTED TO 95% DRY DENSITY PER ASTM D-1557. IF COMPACTION IS NOT MET, OVEREXCAVATE AND REPLACE WITH 6" GRAVEL BASE PER WSDOT 4-02 TO ACHIEVE A FIRM AND UNYIELDING SUBGRADE.

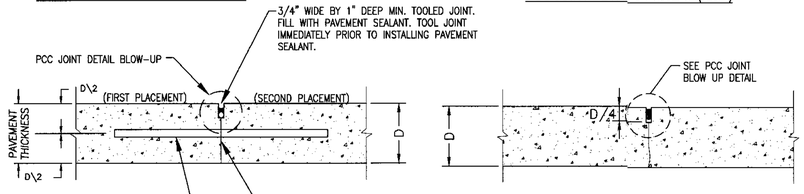
LIGHT-TRUCK DRIVEWAY SECTION

NOTE:
1. DUMPSTER SLAB SHALL BE THE SAME AS THE SECTION ABOVE, EXCEPT THAT PCC AND CSBC SHALL BE 5" AND 2" DEEP RESPECTIVELY.

TRASH ENCLOSURE SLAB SECTION

NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

PCC JOINT DETAIL BLOW-UP (TYP.)



CONSTRUCTION JOINT

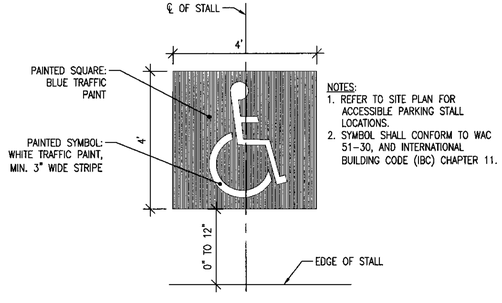
CONTRACTION JOINT

CEMENT CONCRETE PAVEMENT

SCALE: NTS — 6

MOUNTABLE CURB AND GUTTER (MC)

SCALE: NTS — 7



NOTES:
1. REFER TO SITE PLAN FOR ACCESSIBLE PARKING STALL LOCATIONS.
2. SYMBOL SHALL CONFORM TO WAC 51-30, AND INTERNATIONAL BUILDING CODE (IBC) CHAPTER 11.

ADA STALL PAINTED SYMBOL

SCALE: NTS — 8

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2014 12:08 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

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BCRA NO.
14013
CADD FILE
14013C-C2.04

SHEET TITLE
SITE AND SURFACING DETAILS

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C2.04
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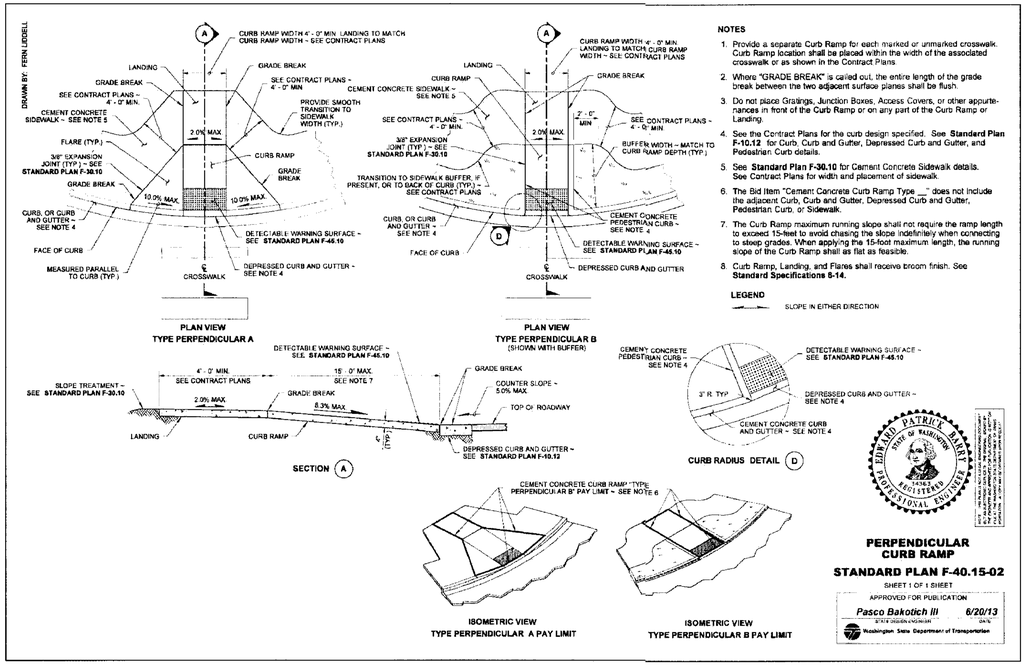
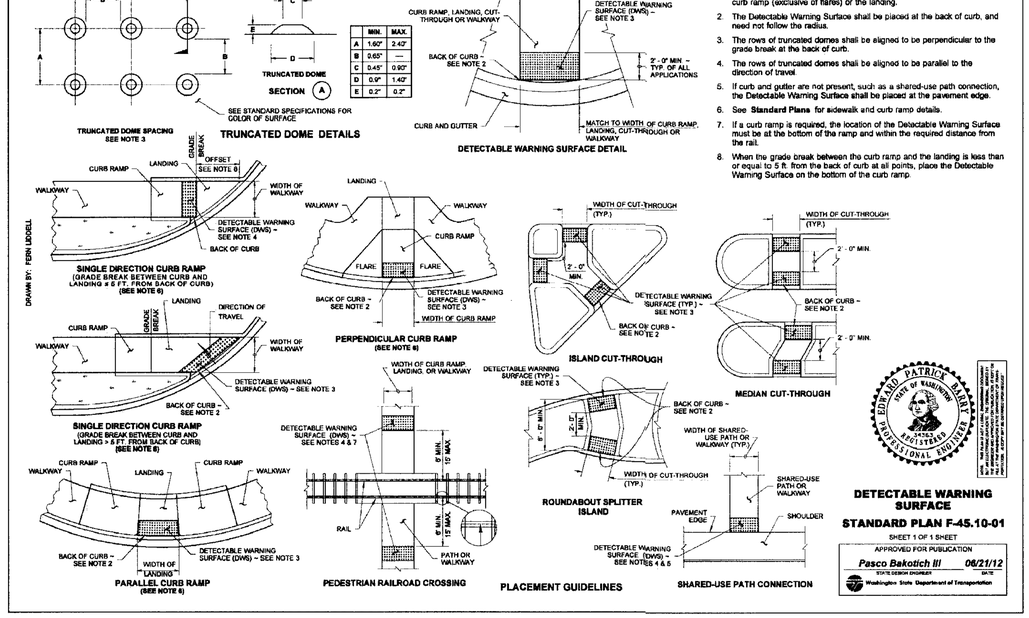
Date Plotted: Aug. 21, 2014 - 12:26pm Filename: 14013C-C2.04.dwg By: BBEALS



CURB RAMP DETAILS

SCALE: NTS (1)



	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

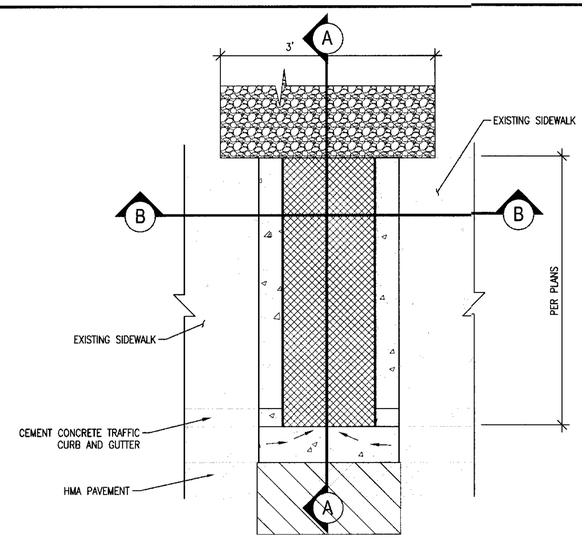
DRAWN BY: FERN LEDELL

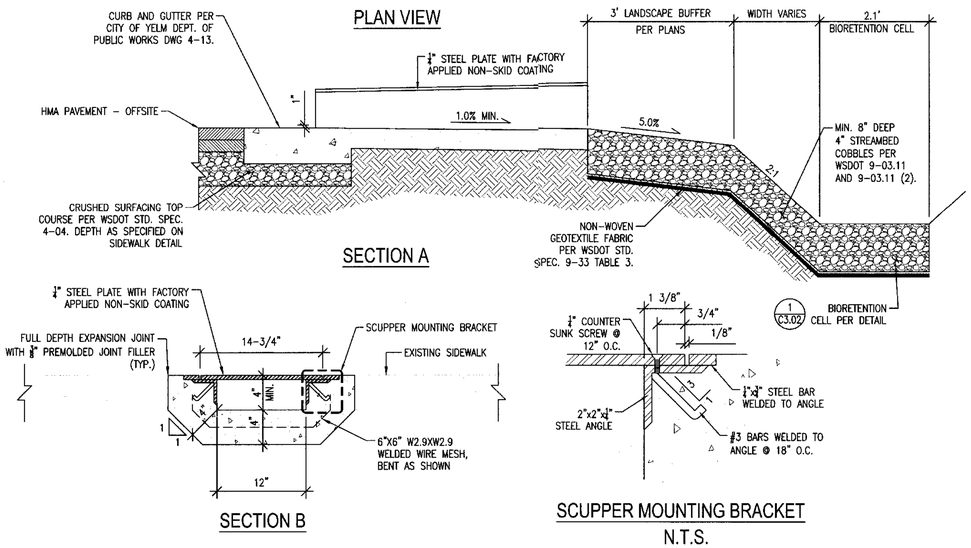
EDWARD PATRICK BARRY STATE OF WASHINGTON 24363 REGISTERED PROFESSIONAL ENGINEER

DETECTABLE WARNING SURFACE
STANDARD PLAN F-45.10-01
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 06/21/12
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

DETECTABLE WARNING

SCALE: NTS (2)





NOTES:
1. STEEL PLATE AND SCUPPER MOUNTING BRACKETS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111.
2. SCREWS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.

CEMENT CONCRETE SCUPPER WITH STEEL COVER

SCALE: NTS (3)

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YELM COMMUNITY CENTER
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YELM, WA

REVISIONS

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08.20.14

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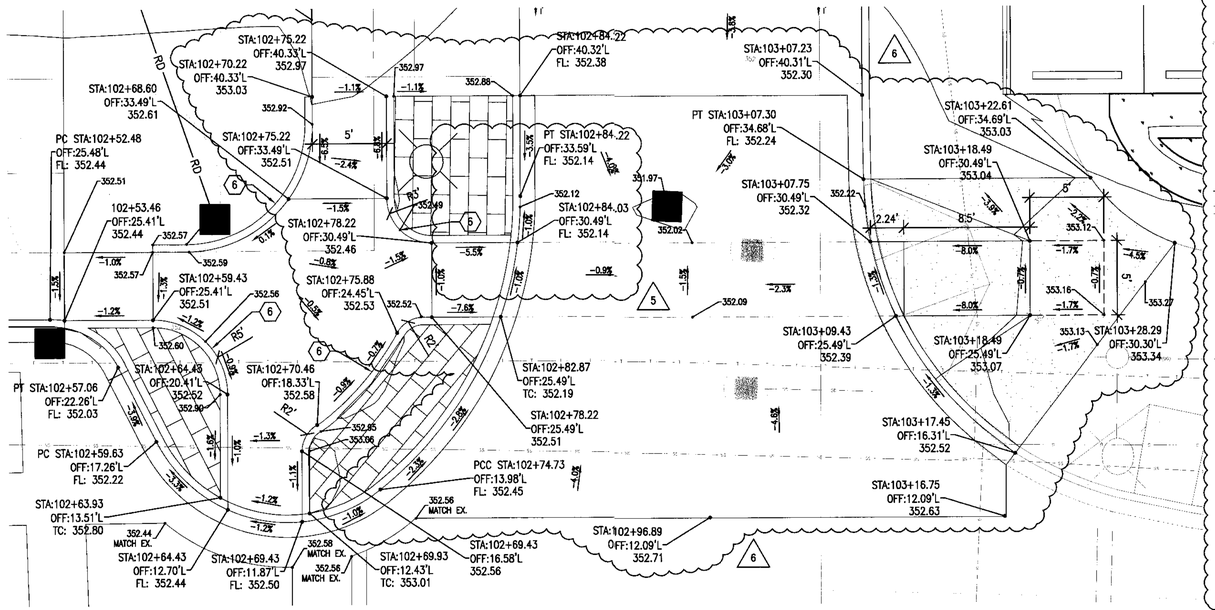
14013C-C2.05

SHEET TITLE
SITE AND SURFACING DETAILS

SHEET
C2.05

PERMIT SET

Date Plotted: Aug 21, 2014 - 12:26pm Filename: 14013C-C2.05.dwg By: BBEALS



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May 13 2015 2:01 PM

PROJECT
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301 2nd STREET SE
YELM, WA

REVISIONS	
1	ADDENDUM 1 – 09.18.14
5	CCD 3 – 03.19.15
6	CCD 4 – 05.13.15

DATE
02.17.15
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14013
CADD FILE
14013C-C3.01
SHEET TITLE

GRADING AND DRAINAGE PLAN

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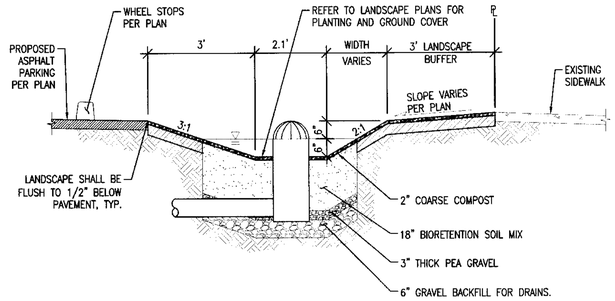
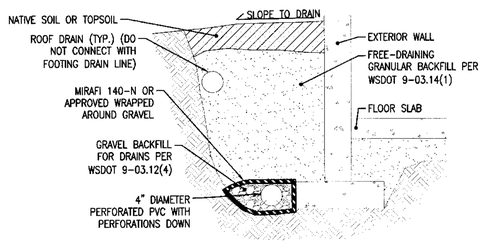
SHEET
C3.01
AS1 #1

Date Plotted: May 13, 2015 – 9:35am Filename: 14013C-C3.01.dwg By: BBEALS



BIORETENTION CELL

SCALE: NTS (1)

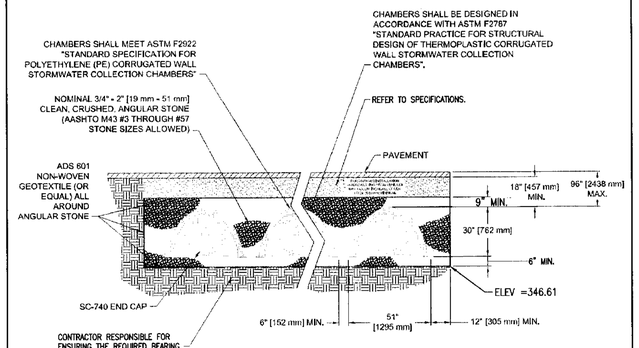


FOOTING DRAIN NOTES:

1. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.

FOOTING DRAIN SECTION

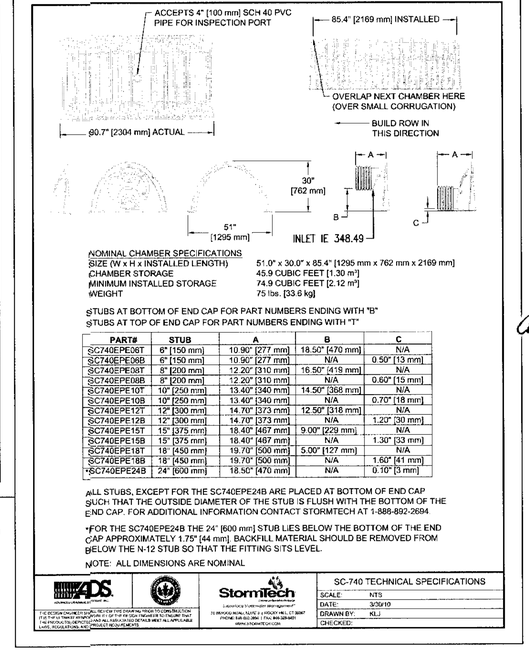
SCALE: NTS (2)



SC-740 STORMTECH CHAMBER CROSS SECTION

REVISED BY BCRA

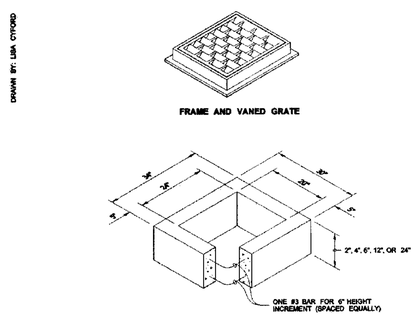
SCALE: NTS (3)



PART#	STUB	A	B	C
SC740EPE06T	6" [150 mm]	10.90" [277 mm]	18.50" [470 mm]	N/A
SC740EPE06B	6" [150 mm]	10.90" [277 mm]	N/A	0.50" [13 mm]
SC740EPE08T	8" [200 mm]	12.20" [310 mm]	16.50" [419 mm]	N/A
SC740EPE08B	8" [200 mm]	12.20" [310 mm]	N/A	0.60" [15 mm]
SC740EPE10T	10" [250 mm]	13.40" [340 mm]	14.50" [368 mm]	N/A
SC740EPE10B	10" [250 mm]	13.40" [340 mm]	N/A	0.70" [18 mm]
SC740EPE12T	12" [300 mm]	14.70" [373 mm]	12.50" [318 mm]	N/A
SC740EPE12B	12" [300 mm]	14.70" [373 mm]	N/A	1.20" [30 mm]
SC740EPE15T	15" [375 mm]	18.40" [467 mm]	9.00" [229 mm]	N/A
SC740EPE15B	15" [375 mm]	18.40" [467 mm]	N/A	1.30" [33 mm]
SC740EPE18T	18" [450 mm]	19.70" [500 mm]	5.00" [127 mm]	N/A
SC740EPE18B	18" [450 mm]	19.70" [500 mm]	N/A	1.60" [41 mm]
*SC740EPE24B	24" [600 mm]	18.50" [470 mm]	N/A	0.10" [3 mm]

SC-740 STORMTECH CHAMBER

SCALE: NTS (2)

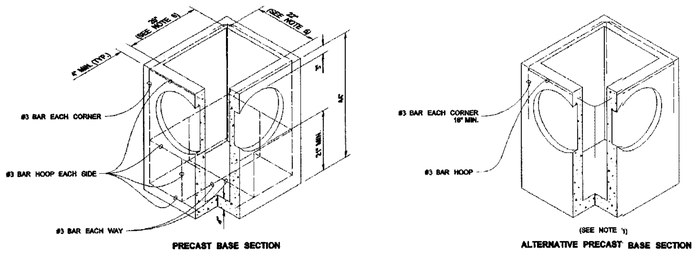


PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP ★ (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

★ CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the Precast Base Section.
7. All pickup holes shall be grouted full after the basin has been placed.



CASEY M. KRAMER, STATE OF WASHINGTON, 24139, REGISTERED PROFESSIONAL ENGINEER

CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

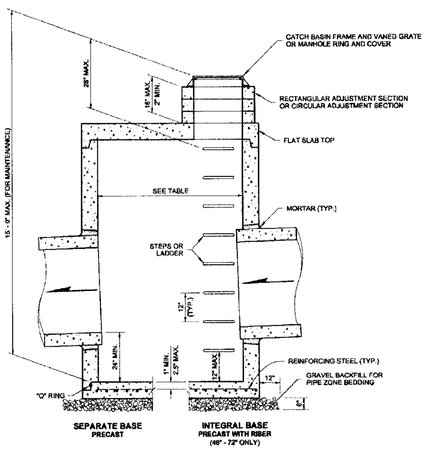
Pasco Bakotich III 06-16-11

STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

CATCH BASIN - TYPE 1

SCALE: NTS (5)



NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification 9-04.3.**

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	8"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

① Corrugated Polyethylene Storm Sewer Pipe (Standard Specification 9-05.20)
② (Standard Specification 9-05.12(1))
③ (Standard Specification 9-05.12(2))

CASEY M. KRAMER, STATE OF WASHINGTON, 24139, REGISTERED PROFESSIONAL ENGINEER

CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-01

SHEET 1 OF 1 SHEET

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CATCH BASIN - TYPE 2

SCALE: NTS (6)

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2014 12:38 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

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14013

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14013C-C2.02

SHEET TITLE
GRADING AND DRAINAGE DETAILS

BCRA

SHEET
C3.02

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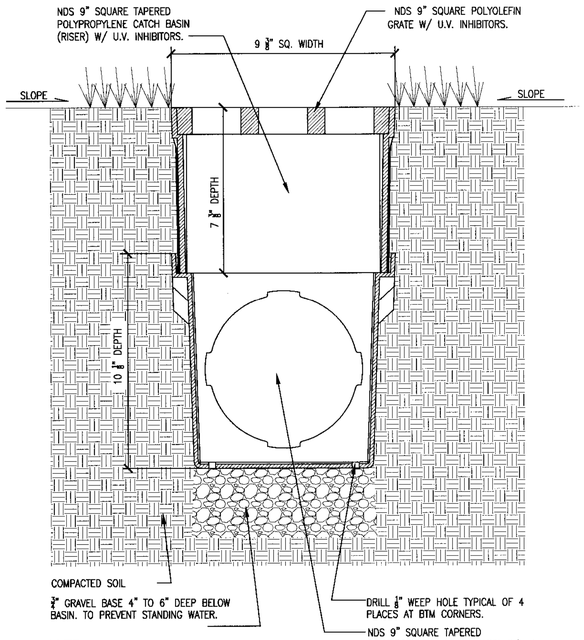


NOTE:

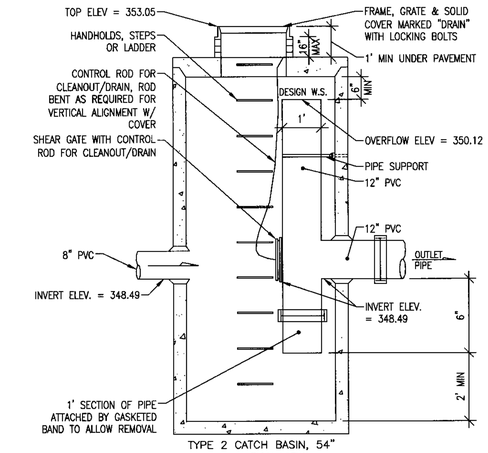
- GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
- RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
- DO NOT USE OVER 5 RISERS WITH CATCH BASIN.

NDS 9" sq.™ CATCH BASIN WITH RISER INSTALLATION.

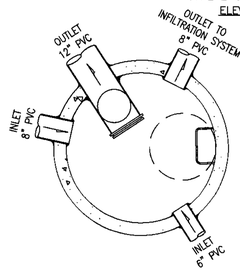
LANDSCAPE APPLICATION.

AREA DRAIN

SCALE: NTS (1)



TYPE 2 CATCH BASIN, 54"
ELEVATION VIEW



NOTES:
1. PIPE SIZES & SLOPES, PER PLANS
2. OUTLET CAPACITY NOT LESS THAN COMBINED INLETS
3. METAL PARTS:
   A. CORROSION RESISTANT OR GALVANIZED OR ALUMINUM TYPE 2
   B. IF GALVANIZED STEEL PIPE, HAVE ASPHALT TREATMENT 1
4. FRAME & LADDER OR STEPS OFFSET SO:
   A. CLEANOUT GATE IS VISIBLE FROM TOP
   B. CLIMBDOWN SPACE IS CLEAR OF RISER & CLEANOUT GATE.
5. STRUCTURE SHALL BE A 54" TYPE 2 CATCH BASIN.

CB #1 CONTROL STRUCTURE DETAIL

SCALE: NTS (2)

Date Plotted: Aug 21, 2014 - 12:27pm Filename: 14013C-C3.02.dwg By: BEALS

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SEAL

ANDREW B. BEALS
STATE OF WASHINGTON
14201
REGISTERED PROFESSIONAL ENGINEER
2014 12:28 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013C-C2.02

SHEET TITLE
GRADING AND DRAINAGE DETAILS

SHEET
C3.03

PERMIT SET

GENERAL UTILITY NOTES:

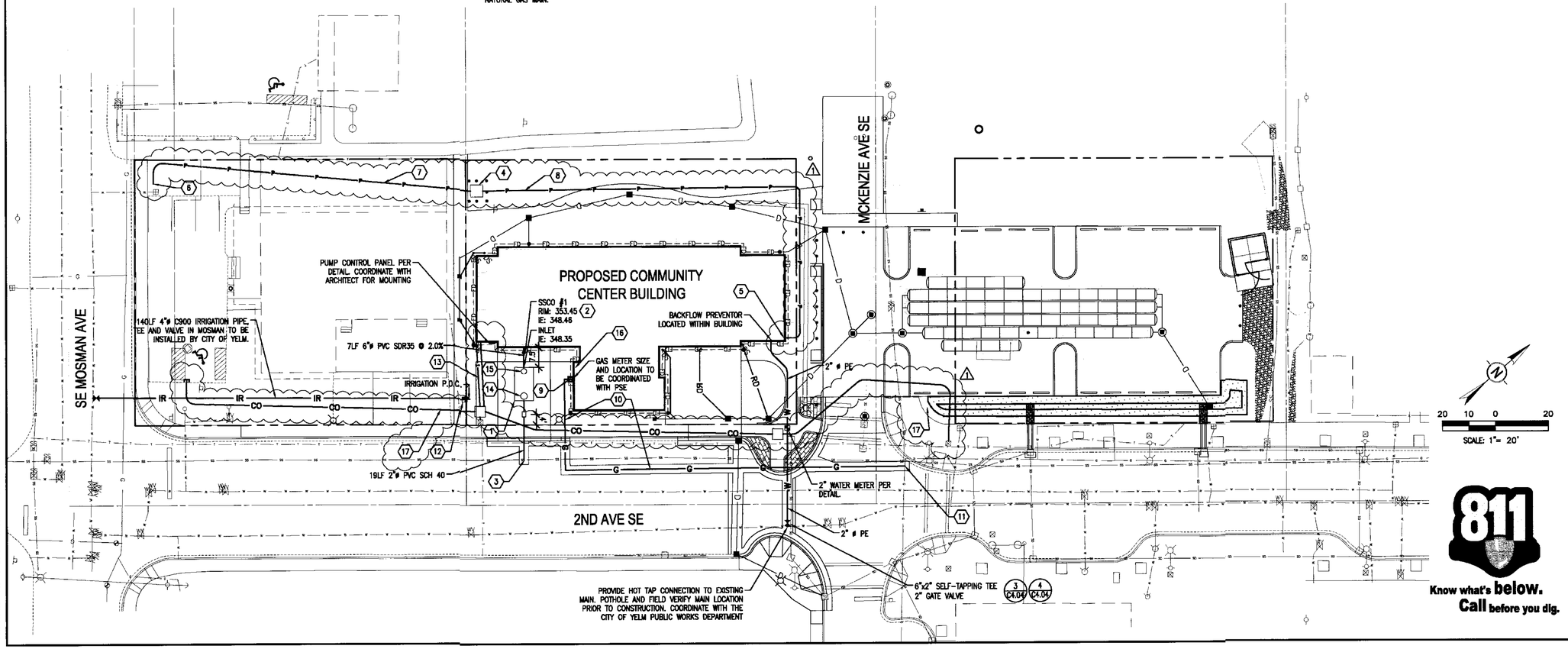
1. BACKFLOW PREVENTION DEVICE FOR DOMESTIC SERVICE TO BE LOCATED WITHIN THE BUILDING.
2. ALL EXISTING WATER SERVICE LINES AND METERS THAT WILL NOT BE UTILIZED ARE TO BE RETIRED PER CITY OF YELM WATER SPECIFICATIONS. COORDINATE WORK WITH CITY OF YELM WATER.
3. PROPOSED POWER LINE ROUTING AND POLE LOCATIONS SHOWN FOR REFERENCE ONLY.
4. ALL PROPOSED POWER SERVICE IMPROVEMENTS AND PERMITTING TO BE COORDINATED WITH PUGET SOUND ENERGY.
5. COORDINATE SEWER CONNECTION WITH THE CITY OF YELM.
6. REFER TO MECHANICAL PLUMBING AND ELECTRICAL PLANS FOR HORIZONTAL AND VERTICAL LOCATION OF UTILITY STUBS FROM BUILDING.
7. REFER TO UTILITY DETAIL SHEETS FOR SANITARY SEWER AND WATER NOTES.

SHEET NOTES:

1. SEPTIC TANK EFFLUENT PUMP SYSTEM WITH 3,000 GALLON TANK WITH DUPLEX PUMP AND TRAFFIC BEARING LID PER DETAILS. FURNISH AND INSTALL TRANSFER SWITCH MODEL DT 323 URK AS MANUFACTURED BY CUTLER HAMMER AND MALE PLUG MODEL 70530 MBWP MANUFACTURED BY BRYANT. (1/C4.02) (4/C4.03) (2/C4.03) (5/C4.03) (6/C4.03) (2/C4.04)
2. PROVIDE 6" DOUBLE SWEEPING CLEANOUT WITH HEAVY DUTY FRAME AND COVER PER DETAILS. (4/C4.02) (3/C4.03)
3. PROVIDE SERVICE CONNECTION PER CITY OF YELM DEPT. OF PUBLIC WORKS DRAWING 7-1 (1/C4.03)
4. PROVIDE ELECTRICAL TRANSFORMER, VAULT AND BOLLARD PROTECTION PER PUGET SOUND ENERGY STANDARDS. COORDINATE WORK WITH PUGET SOUND ENERGY. COORDINATE EXACT LOCATION OF VAULT WITH PSE TO AVOID BOLLARDS IN WALKWAY. ⚠1
5. POWER ENTRY INTO BUILDING.
6. CONTRACTOR TO COORDINATE PRIMARY POWER TIE-IN WITH PUGET SOUND ENERGY (PSE). TRANSITION FROM OVERHEAD POWER TO UNDERGROUND AT EXISTING POLE. EXACT LOCATION OF EXISTING POLE TO BE FIELD LOCATED. ⚠1
7. APPROXIMATE ROUTE OF PRIMARY POWER TRENCH. WORK SHALL BE COMPLETED PER DESIGN BY (PSE) AND PER (PSE) STANDARDS FOR PRIMARY POWER.
8. APPROXIMATE ROUTE OF SECONDARY POWER TRENCH. REFER TO ELECTRICAL PLANS.
9. GAS ENTRY WITH GAS METER. CONTRACTOR IS RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AT METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYING OF INDIVIDUAL METER.
10. CONTRACTOR IS RESPONSIBLE FOR, TRENCHING, BEDDING, SHADING, BACKFILL, PAVEMENT RESTORATION, TRAFFIC CONTROL AND COORDINATION OF WORK BY PUGET SOUND ENERGY. COORDINATE WITH GAS COMPANY REGARDING SIZE AND INSTALLATION OF GAS SERVICE LINE.
11. CONTRACTOR TO COORDINATE CONNECTION TO EXISTING NATURAL GAS MAIN.
12. 4"X2" REDUCER AND A 2" METER FOR IRRIGATION SYSTEM PER DETAIL.
13. CONTRACTOR IS RESPONSIBLE FOR BEDDING, CONDUIT TRENCHING, BACKFILL, PAVEMENT RESTORATION AND COORDINATION OF WORK BY COMMUNICATIONS PURVEYOR. COORDINATE WITH THE PURVEYOR FOR LOCATION OF SERVICE LINES TO BUILDING.
14. PROVIDE 30"ø RISER PER DETAIL. (1/C4.02)
15. PROVIDE 24"ø RISER PER DETAIL. (1/C4.02)
16. HOSE BIB - REFER TO PLUMBING PLAN.
17. FIBER SHOWN ON THIS PLAN FOR REFERENCE ONLY, REFER TO ELECTRICAL PLANS. ⚠1

LEGEND

P	POWER LINE ⚠1
CO	FIBER OPTIC LINE
W	WATER MAIN LINE
⧈	WATER METER
D	STORM DRAIN LINE
RD	ROOF DRAIN LINE
▪DS	DOWNSPOUT
■	CATCH BASIN TYPE 1
Ⓡ	CATCH BASIN TYPE 2
S	SANITARY SEWER LINE
SS	SANITARY SEWER SERVICE LINE
G	GAS LINE
⧈	GAS METER
◨	GAS VALVE



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Date Plotted: Feb 19, 2015 - 9:15am Filename: 14013C-C4.01.dwg By: AGRILLO

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SEAL

ANDREW B. EISTEN — STATE OF WASHINGTON — 44251 — REGISTERED PROFESSIONAL ENGINEER

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS
⚠1 REVISED POWER AND COMM ROUTING 02/17/15

DATE
02.17.15
BCRA NO
14013
CADD FILE
14013C-C4.01

SHEET TITLE
UTILITY PLAN

SHEET
C4.01
AS1 #1

GENERAL UTILITY NOTES:

1. BACKFLOW PREVENTION DEVICE FOR DOMESTIC SERVICE TO BE LOCATED WITHIN THE BUILDING.
2. ALL EXISTING WATER SERVICE LINES AND METERS THAT WILL NOT BE UTILIZED ARE TO BE RETIRED PER CITY OF YELM WATER SPECIFICATIONS. COORDINATE WORK WITH CITY OF YELM WATER.
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7. REFER TO UTILITY DETAIL SHEETS FOR SANITARY SEWER AND WATER NOTES.

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1. SEPTIC TANK EFFLUENT PUMP SYSTEM WITH 3,000 GALLON TANK WITH DUPLEX PUMP AND TRAFFIC BEARING LID PER DETAILS. FURNISH AND INSTALL TRANSFER SWITCH MODEL DT 323 URK AS MANUFACTURED BY CUTLER HAMMER AND MALE PLUG MODEL 70530 MBMP MANUFACTURED BY BRYANT. (1/C4.02) (4/C4.03) (2/C4.03) (5/C4.03) (6/C4.03) (2/C4.04)
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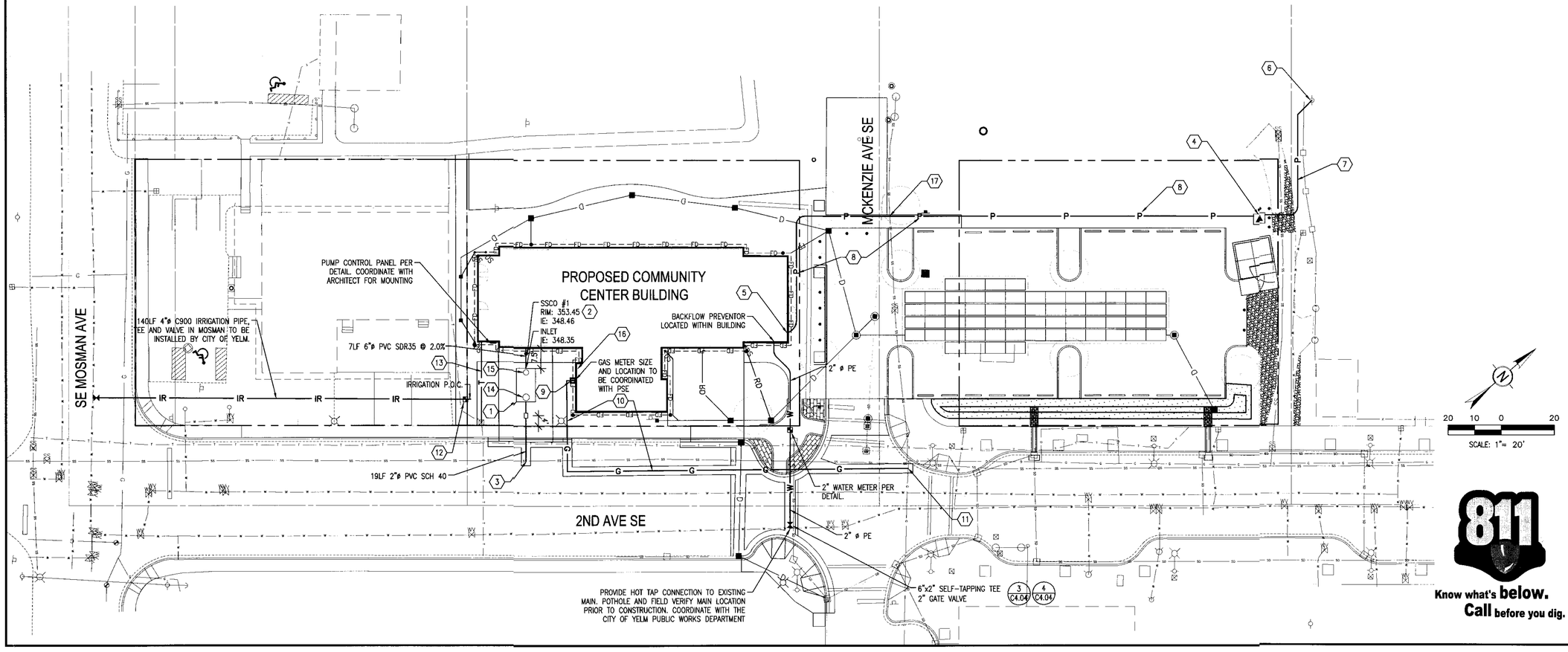
15. PROVIDE 24"ø RISER PER DETIAL. (1/C4.02)
16. HOSE BIB - REFER TO PLUMBING PLAN.
17. PROVIDE 6" CLEAR BETWEEN POWER CONDUITS AND SANITARY SEWER LINE.

LEGEND

P	POWER LINE
W	WATER MAIN LINE
	WATER METER
D	STORM DRAIN LINE
RD	ROOF DRAIN LINE
DS	DOWNSPOUT
	CATCH BASIN TYPE 1
	CATCH BASIN TYPE 2
S	SANITARY SEWER LINE
SS	SANITARY SEWER SERVICE LINE
G	GAS LINE
	GAS METER
	GAS VALVE



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SEAL

ANDREW B. EPSTEIN STATE OF WASHINGTON 44221 REGISTERED PROFESSIONAL ENGINEER

2014 12:28 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013C-C4.01

SHEET TITLE
UTILITY PLAN

BCRA

SHEET
C4.01

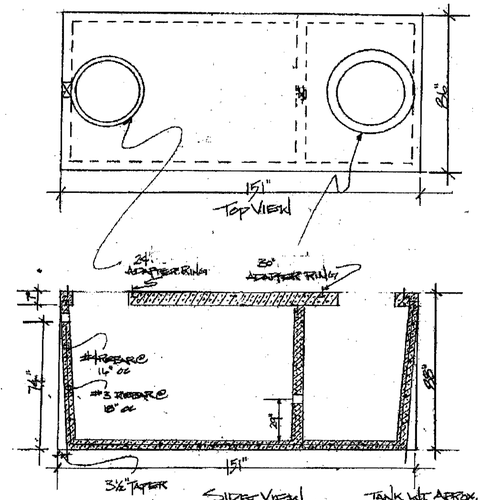
PERMIT SET

08/21/2014 09:23 2538632981 EVERGREEN PRECAST PAGE 01/01

EVERGREEN PRE-CAST, INC.

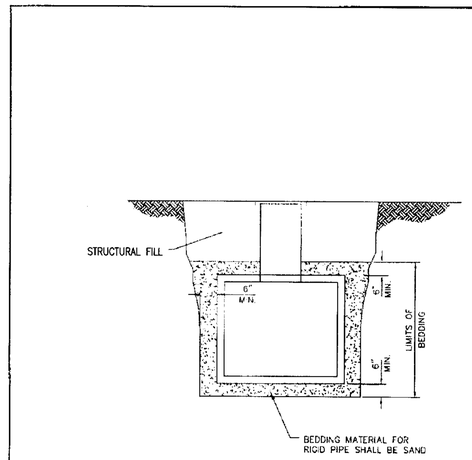
P.O. Box 38 Sumner, WA 98390
Phone (253)863-6580 13918 Valley Ave E Sumner, WA 98390 Fax (253)863-99

3000 GALLON YELM STEP TANK



STEP TANK

SCALE: NTS (1)

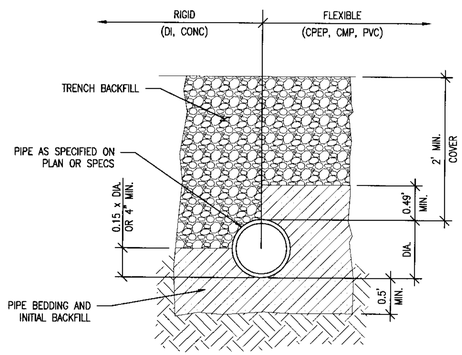


NOTE:
INSTALL TANKS AS PER DETAIL OR MANUFACTURER'S RECOMMENDATION WHICHEVER IS MORE STRINGENT.

CITY OF YELM DEPT. OF PUBLIC WORKS			
CONCRETE TANK BEDDING			
APPROVED: PUBLIC WORKS DIRECTOR			DWG. NO. 7-17
DES. JY	DWN. JEG	CKD. TP	DATE 4/2007

CONCRETE TANK BEDDING

SCALE: NTS (3)

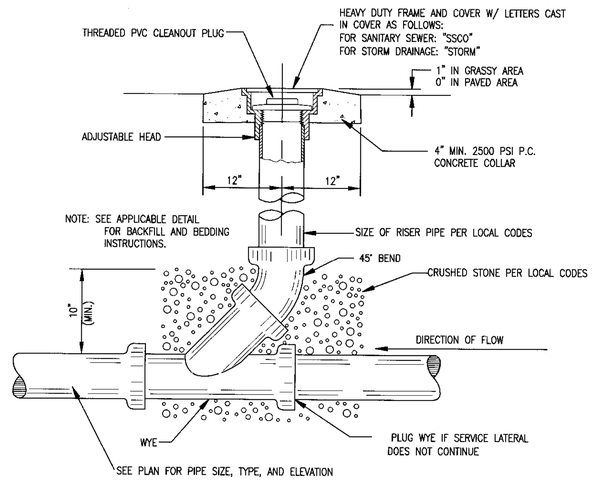


NOTES:
1. BACKFILL MATERIAL SHALL NOT HAVE ROCKS / PARTICLES LARGER THAN 1" WITHIN 12" OF THE PIPE. BACKFILL MATERIAL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST (ASTM D-1557).
2. CONSTRUCT ALL UTILITIES IN CONFORMANCE WITH THIS DETAIL UNLESS INDICATED OTHERWISE ELSEWHERE ON THE PLANS.
3. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

NOTE:
THIS DETAIL IS APPLICABLE FOR STORM DRAINAGE AND WATER AND OTHER UTILITIES UNLESS OTHERWISE REQUIRED BY UTILITY PURVEYOR. FOR SANITARY SEWER TRENCH DETAIL REFER TO DETAIL 2 ON SHEET C4.03

TRENCH SECTION

SCALE: NTS (2)



CLEANOUT

SCALE: NTS (4)

(CITY OF YELM) SEWER GENERAL NOTES (SANITARY SEWER MAIN INSTALLATION)

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF YELM STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).

2. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF YELM SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

3. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.

4. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF YELM PRIOR TO THE START OF CONSTRUCTION.

5. THE CITY OF YELM SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A CITY REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF THE TAP.

6. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

7. SIDE SEWER SERVICES SHALL BE PVC, ASTM D 3034 SDR 35 WITH FLEXIBLE GASKETED OR SOLVENT WELD JOINTS.

8. ALL PLASTIC PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE, INSTALLED 12" TO 18" UNDER THE PROPOSED SUBGRADE. THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE, METAL CORE OR BACKING MARKED "SEWER" WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. IN ADDITION,STEP SYSTEMS AND FORCE MAINS SHALL BE INSTALLED WITH 14 GAUGE UF DIRECT BURY COPPER WIRE WRAPPED AROUND ALL PLASTIC PIPE, BROUGHT UP AND TIED OFF AT VALVE BODY. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. THE TAPE AND WIRE SHALL BE FURNISHED BY THE CONTRACTOR.

9. ALL BURIED POWER FOR STEP SYSTEMS SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12" ABOVE THE BURIED POWER. THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE, METAL CORE BACKING MARKED "POWER". TAPE SHALL BE FURNISHED BY CONTRACTOR.

10. BEDDING OF THE SEWER MAIN AND COMPACTION OF THE BACKFILL MATERIAL SHALL BE REQUIRED IN ACCORDANCE WITH THE ABOVE MENTIONED SPECIFICATION (SEE NOTE 1).

11. TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE CITY ENGINEER. TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF 2 INCH MINIMUM ASPHALT CONCRETE COLD MIX. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED.

12. EROSION CONTROL MEASURES SHALL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.

13. PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED.

14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE APPROVED PLANS ON CONSTRUCTION SITE AT ALL TIMES.

15. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE CITY OF YELM.

16. ALL STEP MAINS SHALL BE HYDROSTATICALLY TESTED IN CONFORMANCE WITH THE ABOVE-REFERENCED SPECIFICATION FOR TESTING WATER MAINS. (SEE NOTE 1.) IN ADDITION, ALL STEP MAINS SHALL BE PIGGED/CLEANED IN THE PRESENCE OF THE CITY INSPECTOR PRIOR TO PLACING STEP MAIN IN SERVICE.

17. PRIOR TO BACKFILL ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CITY OF YELM. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF YELM FOR THE REQUIRED INSPECTIONS.

18. PUMP CONTROL PANELS SHALL BE LOCATED ON GARAGE WALL OR REMOTE POST, UNLESS OTHERWISE AUTHORIZED BY THE CITY OF YELM.

19. IN THE EVENT THAT THE DEPARTMENT OF LABOR AND INDUSTRIES OR THE CITY SHOULD REQUIRE A SEPARATE "ON-OFF" SWITCH CONTROLLING POWER TO THE PUMP CONTROL PANEL, SAID SWITCH SHALL HAVE A LOCKING COVER MODEL # 5031-0 RAYNTITE SINGLE GANG WEATHERPROOF COVER 1.406" DIAMETER.

20. INSPECTIONS FOR ONSITE STEP INSTALLATIONS ARE REQUIRED. A 48 HOUR NOTICE TO THE SEWER DEPARTMENT IS REQUIRED PRIOR TO THE INSPECTION.

ITEMS NEEDING INSPECTION ARE:
A) TANK INSTALLATION, IE; BEDDING AND LOCATION
B) TANK INFILTRATION, EXFILTRATION TEST
C) S.S. PRESSURE TEST
D) SERVICE LINE PRESSURE TEST
E) FINAL INSPECTION

21. ALL LUMBER (PLYWOOD, ETC.) USED TO MOUNT EITHER PUMP CONTROL PANEL OR POWER METER MUST BE PRESSURE TREATED.

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2014 12:38 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE 08.20.14
BCRA NO. 14013
CADD FILE 14013C-C4.02

SHEET TITLE
UTILITY DETAILS

SHEET
C4.02

PERMIT SET

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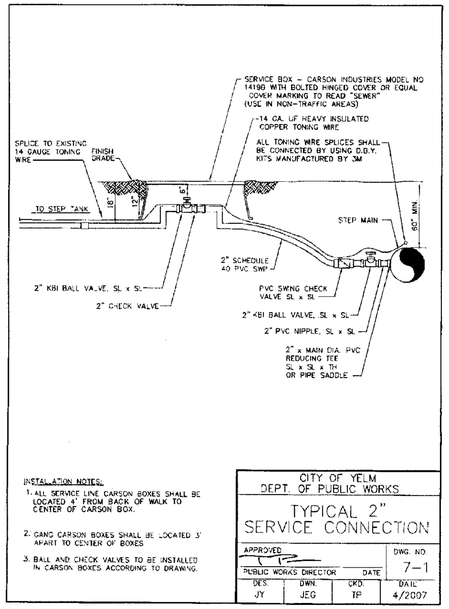


INSTALLATION NOTES:

1. ALL SERVICE LINE CARSON BOXES SHALL BE LOCATED 4' FROM BACK OF WALK TO CENTER OF CARSON BOX.
2. GANG CARSON BOXES SHALL BE LOCATED 3' APART TO CENTER OF BOXES
3. BALL AND CHECK VALVES TO BE INSTALLED IN CARSON BOXES ACCORDING TO DRAWING.

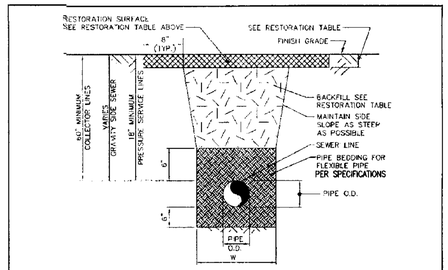
CITY OF YELM
DEPT. OF PUBLIC WORKS

TYPICAL 2" SERVICE CONNECTION

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-1
DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

TYPICAL 2 INCH SERVICE CONNECTION (1)

REVISED BY BCRA SCALE: NTS



RESTORATION TABLE 1

SURFACE TYPE	THICKNESS	BACKFILL / COMPACTION REQMTS.	COMMENTS / OTHER REQUIREMENTS
CRUSHED SURFACE	4" CRUSHED SURFACE TOP COURSE	SELECT BACKFILL COMPACT TO 90%	FINISH GRADE SHALL BE SMOOTH & CONSISTANT WITH EXISTING
A.C. PAVEMENT OVER GRAVEL BASE	3" MIN. GRADE D A.C. PAVING OVER 4" CRUSHED SURFACE TOP COURSE	SELECT BACKFILL COMPACT TO 95%	FINISH ROADWAY TO CONFORM TO ALL EXISTING GRADES AND CURBS SLOPES SHALL MATCH
CONCRETE SURFACE (DRIVEWAY/SIDEWALK)	MATCH EXISTING CONCRETE THICKNESS	SELECT BACKFILL COMPACT TO 95%	MATCH EXISTING FINISH TEXTURE, AND GRADE
LAWN/LANDSCAPE	HYDROSEED/ PLANTINGS OVER 4" MIN. TYPE A TOP SOIL	NATIVE BACKFILL COMPACT TO 85%	FINISH GRADE SHALL BE SMOOTH & CONSISTANT WITH EXISTING GRADE
UNIMPROVED SURFACE	N/A	NATIVE BACKFILL COMPACT TO 85%	MOUND BACKFILL 2" ABOVE EXISTING GRADE & SMOOTH

CSBC = CRUSHED SURFACE BASE COURSE
CSTC = CRUSHED SURFACE TOP COURSE

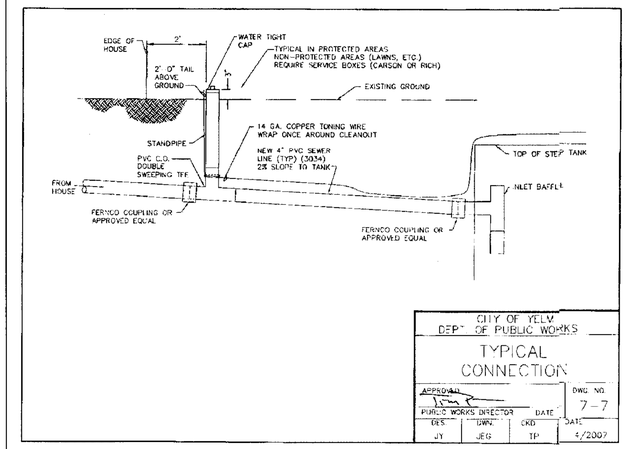
CITY OF YELM
DEPT. OF PUBLIC WORKS

TYPICAL PIPE TRENCH

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-3
DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

SEWER PIPE TRENCH (2)

REVISED BY BCRA SCALE: NTS



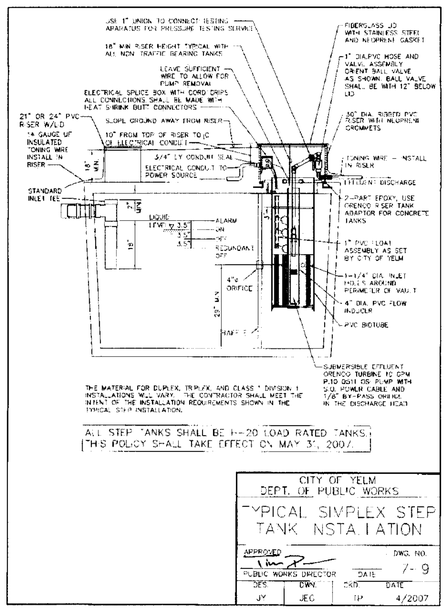
CITY OF YELM
DEPT. OF PUBLIC WORKS

TYPICAL CONNECTION

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-7
DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

TYPICAL CONNECTION (3)

REVISED BY BCRA SCALE: NTS



THE MATERIAL FOR DUPLEX, TRIPLEX AND CLASS 1 DIVISION 1 INSTALLATIONS WILL VARY. THE CONTRACTOR SHALL MEET THE INTENT OF THE INSTALLATION REQUIREMENTS SHOWN IN THE TYPICAL STEP INSTALLATION.

ALL STEP TANKS SHALL BE H-20 LOAD RATED TANKS. THIS POLICY SHALL TAKE EFFECT ON MAY 31, 2007

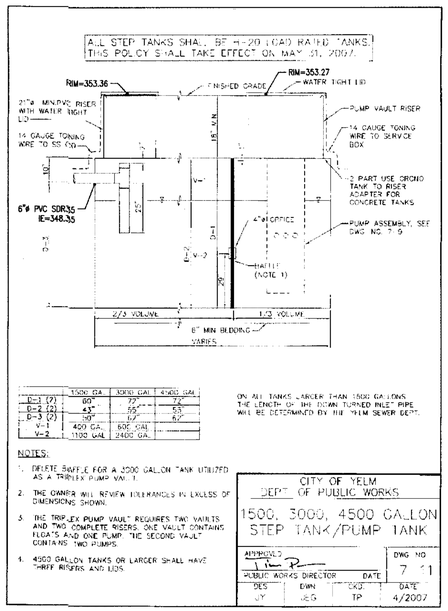
CITY OF YELM
DEPT. OF PUBLIC WORKS

TYPICAL SIMPLEX STEP TANK INSTALLATION

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-9
DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

TYPICAL STEP TANK INSTALLATION (4)

SCALE: NTS



	1500 GA.	3000 GAL	4500 GAL
D-1 (?)	60"	72"	72"
D-2 (?)	43"	55"	55"
D-3 (?)	20"	20"	20"
V-1	400 GAL	600 GAL	
V-2	1100 GAL	2400 GAL	

ON ALL TANKS LARGER THAN 1500 GALLONS THE LENGTH OF THE DOWN TURNED INLET PIPE WILL BE DETERMINED BY THE YELM SEWER DEPT.

NOTES:

1. DELETE BAFFLE FOR A 3000 GALLON TANK UTILIZED AS A TRIPLEX PUMP VAULT.
2. THE OWNER WILL REVIEW TOLERANCES IN LIEU OF DIMENSIONS SHOWN.
3. THE TRIPLEX PUMP VAULT REQUIRES TWO VAULTS AND TWO COMPLETE RISERS. ONE VAULT CONTAINS FLOATS AND ONE PUMP. THE SECOND VAULT CONTAINS TWO PUMPS.
4. 4500 GALLON TANKS OR LARGER SHALL HAVE THREE RISERS AND LIDS.

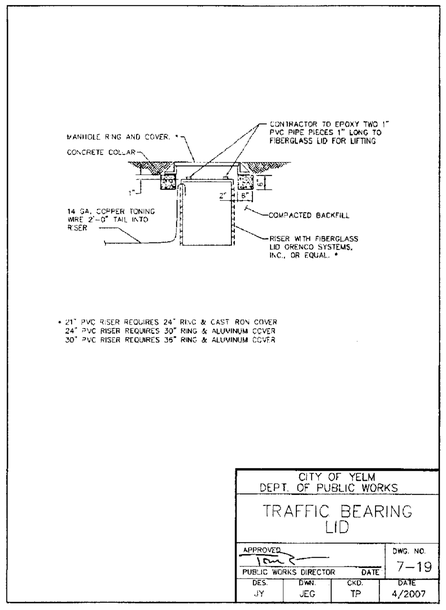
CITY OF YELM
DEPT. OF PUBLIC WORKS

1500, 3000, 4500 GALLON STEP TANK/PUMP TANK

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-11
DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

STEP TANK - PUMP TANK (5)

SCALE: NTS



* 21" PVC RISER REQUIRES 24" RING & CAST IRON COVER
24" PVC RISER REQUIRES 30" RING & ALUMINUM COVER
30" PVC RISER REQUIRES 36" RING & ALUMINUM COVER

CITY OF YELM
DEPT. OF PUBLIC WORKS

TRAFFIC BEARING LID

APPROVED			DWG. NO.
PUBLIC WORKS DIRECTOR		DATE	7-19
DES.	DWN.	CKD.	DATE
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TRAFFIC BEARING LID (6)

SCALE: NTS

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ANDREW B EPSTEIN STATE OF WASHINGTON 44221 REGISTERED PROFESSIONAL ENGINEER
2014 12:38 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

DATE
08.20.14

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14013

CADD FILE
14013C-SITE-PLAN

SHEET TITLE
UTILITY DETAILS

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SHEET
C4.03

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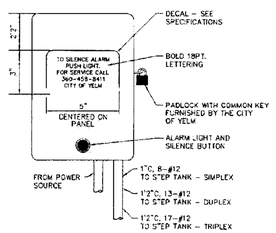
Date Plotted: Aug 21, 2014 - 12:28pm Filename: 14013C-C4.02.dwg By: BBEALS

TABLE FOR FEEDER WIRE RUN	
WIRE SIZE	MAXIMUM DISTANCE
#12 AWG COPPER	150 FEET
#10 AWG COPPER	250 FEET
#8 AWG COPPER	350 FEET

(SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).



NOTE:
PANEL SIZE MAY VARY DEPENDING ON MANUFACUERER

CITY OF YELM
DEPT. OF PUBLIC WORKS

TYPICAL PUMP CONTROL PANEL

APPROVED
PUBLIC WORKS DIRECTOR DATE

DWG. NO. 7-6

DES.	DWN.	CKD.	DATE
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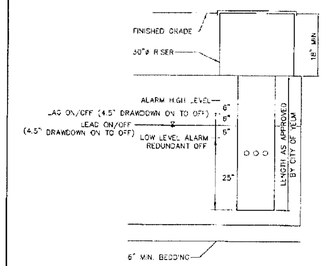
TYPICAL PUMP CONTROL PANEL

SCALE: NTS (1)



CITY OF YELM
DEPT. OF PUBLIC WORKS

FLOAT SETTING VAULT DIMENSIONS FOR A DUPLEX PUMP VAULT

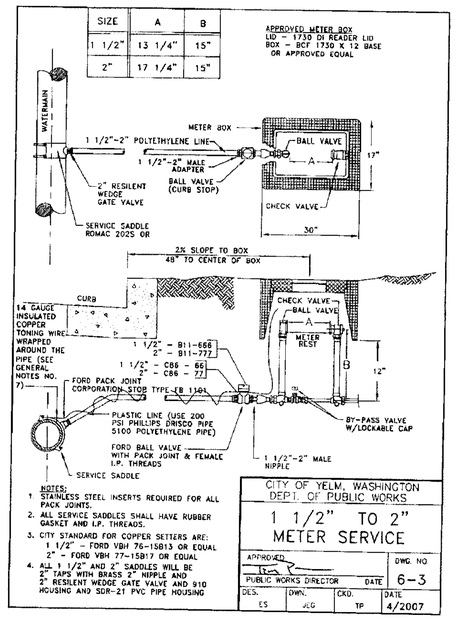
APPROVED
PUBLIC WORKS DIRECTOR DATE

DWG. NO. 7-14

DES.	DWN.	CKD.	DATE
JY	JEG	TP	4/2007

FLOAT SETTING FOR PUMP VAULT

SCALE: NTS (2)



SIZE	A	B
1 1/2"	13 1/4"	15"
2"	17 1/4"	15"

NOTES:
1. STAINLESS STEEL INSERTS REQUIRED FOR ALL PACK JOINTS.
2. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET AND I.P. THREADS.
3. CITY STANDARD FOR COPPER SETTERS ARE:
   1 1/2" - FORD VBH 76-15B13 OR EQUAL
   2" - FORD VBH 77-15B17 OR EQUAL
4. ALL 1 1/2" AND 2" SADDLES WILL BE 2" TAPS WITH BRASS 2" NIPPLE AND 2" RESILENT WEDGE GATE VALVE AND 910 HOUSING AND SDR-21 PVC PIPE HOUSING

CITY OF YELM, WASHINGTON
DEPT. OF PUBLIC WORKS

1 1/2" TO 2" METER SERVICE

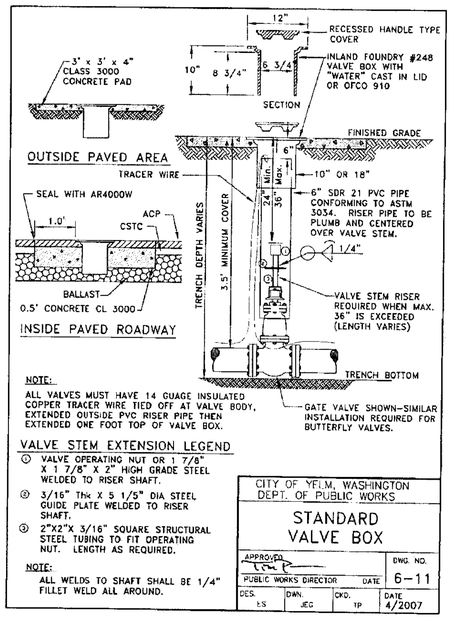
APPROVED
PUBLIC WORKS DIRECTOR DATE

DWG. NO. 6-3

DES.	DWN.	CKD.	DATE
ES	JEG	TP	4/2007

WATER METER SERVICE

SCALE: NTS (3)



NOTE:
ALL VALVES MUST HAVE 14 GUAGE INSULATED COPPER TRACER WIRE TIED OFF AT VALVE BODY, EXTENDED OUTSIDE PVC RISER PIPE THEN EXTENDED ONE FOOT TOP OF VALVE BOX.

VALVE STEM EXTENSION LEGEND
① VALVE OPERATING NUT OR 1 7/8" X 1 7/8" X 2" HIGH GRADE STEEL WELDED TO RISER SHAFT.
② 3/16" Thk X 5 1/5" DIA STEEL GUIDE PLATE WELDED TO RISER SHAFT.
③ 2"X2"X 3/16" SQUARE STRUCTURAL STEEL TUBING TO FIT OPERATING NUT. LENGTH AS REQUIRED.

NOTE:
ALL WELDS TO SHAFT SHALL BE 1/4" FILLET WELD ALL AROUND.

CITY OF YELM, WASHINGTON
DEPT. OF PUBLIC WORKS

STANDARD VALVE BOX

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STANDARD VALVE BOX

SCALE: NTS (4)

CITY OF YELM PUBLIC WORKS GENERAL NOTES (WATER MAIN INSTALLATION)

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF YELM STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
2. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF YELM. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES, AND THE CITY OF YELM. CONTACT THE PUBLIC WORKS DEPARTMENT AT (360) 458-8410 TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE A SET OF APPROVED PLANS AT THE MEETING.
3. WATER MAINS SHALL MEET THE FOLLOWING SPECIFICATIONS:

   POLYVINYL CHLORIDE (PVC) PIPE (UNDER 4 INCHES): PIPE MATERIAL SHALL BE PVC 1120, PVC 1220, OR PVC 2120, AND HAVE MINIMUM WALL THICKNESS EQUAL TO OR LESS THAN THE STANDARD DIMENSION RATIO (SDR) OF 21, AND MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS SECTION 930.1(5)B.

   POLYVINYL CHLORIDE (PVC) PIPE (4 THROUGH 12 INCHES): SHALL MEET THE REQUIREMENTS OF AWWA C900, CLASS 150 WALL THICKNESS EQUAL TO OR GREATER THAN THE SDR OF 18, AND MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS SECTION 9-30.1(5)A.

   POLYVINYL CHLORIDE (PVC) PIPE (14 THROUGH 20 INCHES): SHALL MEET THE REQUIREMENTS OF AWWA C905 WALL THICKNESS EQUAL TO OR GREATER THAN THE SDR OF 18.

   DUCTILE IRON PIPE (DIP): DIP SHALL CONFORM TO AWWA C151 CLASS 50 OR GREATER, AND SHALL BE 1/16-INCH CEMENT LINED AND SEALED IN ACCORDANCE WITH ANSI/AWWA C104/A21.4-90, AND MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS SECTION 9-30.2.(1). SIX-INCH FIRE HYDRANT SPOOLS SHALL BE CLASS 52.
4. GATE VALVES SHALL BE RESILIENT WEDGE, NRS (NON RISING STEM) WITH O-RINGS SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES SHALL CONFORM TO AWWA 509-80. VALVES SHALL BE MUELLER, M & H, KENNEDY, CLOW R/W OR WATEROUS SERIES 500. EXISTING VALVES TO BE OPERATED BY CITY EMPLOYEES ONLY.
5. HYDRANTS SHALL BE M & H RELIANT STYLE 929, MUELLER CENTURION, OR CLOW MEDALLION OR AVK. HYDRANTS SHALL BE BAGGED UNTIL SYSTEM IS APPROVED.
6. ALL LINES SHALL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE ABOVE REFERENCED SPECIFICATION (NOTE 1).
7. ALL PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12" TO 18" UNDER THE FINAL GROUND SURFACE. THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE, METAL CORE OR BACKING MARKED WATER 2-INCH-WIDE MINIMUM, WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, INSTALL 14 GAUGE HEAVY DUTY DIRECT BURY COATED COPPER WIRE (PAIGE "UF" SINGLE CONDUCTOR OR EQUAL), WRAPPED AROUND THE PIPE, BROUGHT UP AND TIED OFF AT VALVE BODY ALL WIRE CONNECTIONS SHALL USE WIRE NUTS AND A DBR SPLICE KIT, MANUFACTURED BY 3-M OR APPROVED EQUAL. ALL LOCATOR WIRE FOR SERVICE PIPE SHALL BE CONNECTED TO THE LOCATOR WIRE ON THE WATER MAIN.
8. PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD.
9. ALL WATER MAINS SHALL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
10. ALL SERVICE LINE LOCATIONS SHALL BE MARKED ON THE FACE OF THE CURB WITH AN EMBOSSED "W" 1/4 INCH INTO CONCRETE.
11. CALL UNDERGROUND LOCATE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
12. THE CITY WILL BE GIVEN 72 HOURS NOTICE PRIOR TO SCHEDULING A SHUTDOWN. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
13. AT ANY CONNECTION TO AN EXISTING LINE WHERE A NEW VALVE IS NOT INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO CITY STANDARDS PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR SHALL MAKE THE NECESSARY PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTION TO THE EXISTING SYSTEM OR INSTALL A NEW VALVE.
14. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF WATER SERVICE.
15. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ONSITE DURING CONSTRUCTION.
16. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED BY THE DEVELOPER'S ENGINEER AND THE CITY OF YELM PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

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2014 3:38 PM

PROJECT
YELM COMMUNITY CENTER
CORNER OF McKENZIE AVE SE AND SECOND AVE SE
YELM, WA

REVISIONS

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SHEET TITLE
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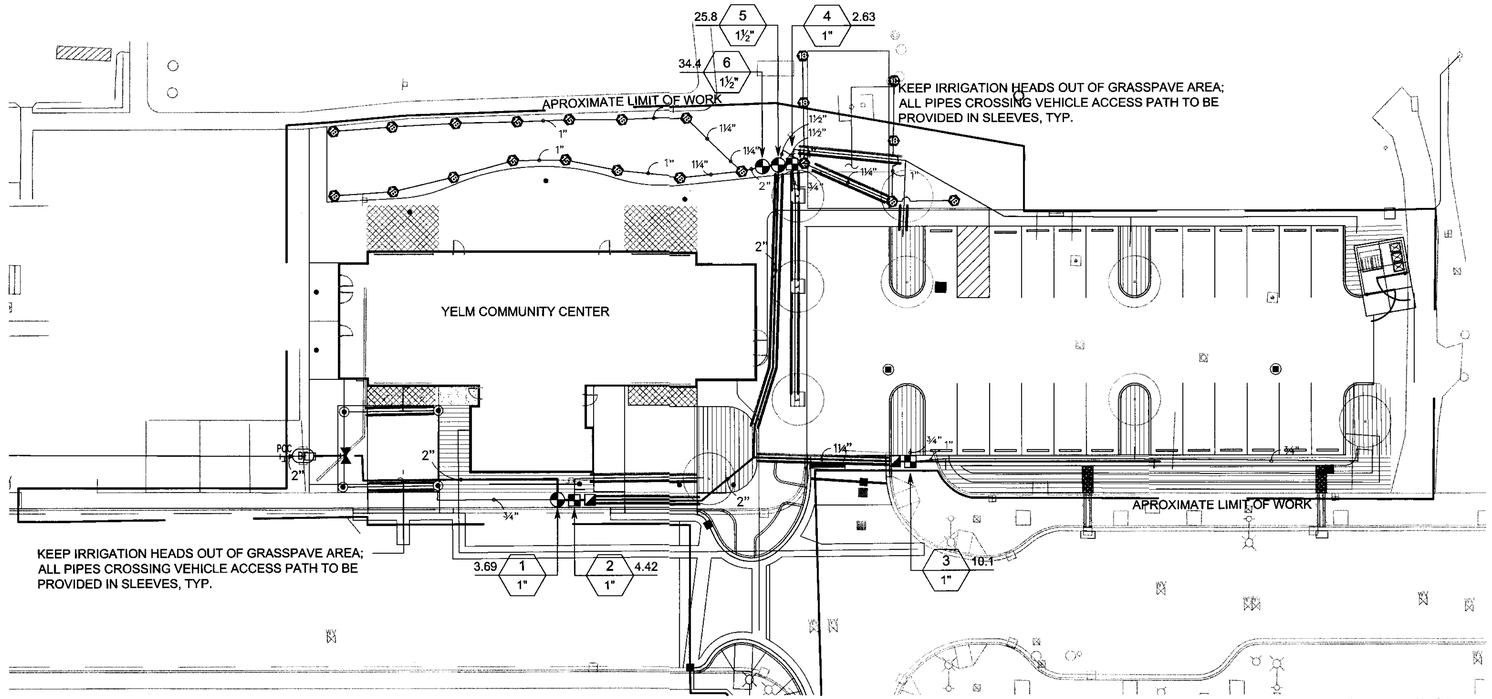

1 L1.01 IRRIGATION PLAN

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
4V 6V 18V	RAIN BIRD 1806-SAM-PRS ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	13	30
08HE-VAN 12HE-VAN 10HE-VAN 15HE-VAN	RAIN BIRD 1806-SAM-PRS ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	5	30
R-VAN 1318 R-VAN 1724	RAIN BIRD R-VAN-1318 RD-1806-SAM-P45 TURF ROTATOR, 13'-18' HAND ADJUSTABLE ROTARY STREAM, W/RD-1800 TURF SPRAY BODY, 6.0" POP-UP. WITH SEAL-A-MATIC CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATION.	4	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-PRB-COM MEDIUM PLUS FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 3GPM TO 20GPM.	3
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-09-18 (24) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE. 0.9GPH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 24.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE.	3,178 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	3
	RAIN BIRD 5-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.	2
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	1
BF	ZURN 950XL 2" DOUBLE CHECK VALVE ASSEMBLY	1
POC 1½"	POINT OF CONNECTION 2" CITY OF YELM RECLAIMED WATER SOURCE - SEE CIVIL FOR CONNECTION	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 AND CLASS 315 PVC SCHEDULE 40 TO 1-1/2", PVC CLASS 315 SDR 13.5 FOR PIPES 2" AND LARGER. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	883.7 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	351.6 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 AND CLASS 315 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	313.5 L.F.

Valve Callout
#" Valve Number
Valve Flow
#" Valve Size

NOTE:
1. IRRIGATION LAYOUT HAS A MINIMUM DESIGN PRESSURE OF 75 PSI AFTER THE METER, FIELD VERIFY.
2. ALL COMPONENTS AND EQUIPMENT TO BE 'PURPLE PIPE' AND SUITABLE FOR RECLAIMED WATER.

IRRIGATION NOTES:

1. THE CONTRACTOR IS TO INSTALL AN AUTOMATIC IRRIGATION SYSTEM THAT WILL PROVIDE 100% COVERAGE FOR ALL LANDSCAPED AREAS.
2. REFER TO SPECIFICATIONS AND DETAILS FOR INSTALLATION INSTRUCTIONS.
3. MEET ALL APPLICABLE LOCAL AND MUNICIPAL CODES FOR WORK NECESSARY IN IRRIGATION SYSTEM INSTALLATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, AND USE/SALES TAXES APPLICABLE TO THIS PROJECT.
6. VERIFY ALL SITE INFORMATION PRIOR TO CONSTRUCTION. NOTIFY OWNER/LANDSCAPE ARCHITECT OF ANY DISCREPANCIES FROM PREPARED IRRIGATION PLANS.
7. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND UTILITIES CAUSED BY INSTALLATION OF IRRIGATION SYSTEM.
8. CONTRACTOR IS TO REFER TO AND COORDINATE IRRIGATION SYSTEM INSTALLATION WITH LANDSCAPE PLANS. AVOID CONFLICTING LOCATIONS BETWEEN PIPING AND LANDSCAPE MATERIAL, EDGING, ETC.
9. TAP LOCATION ON PLAN IS SCHEMATIC, CONTRACTOR IS TO VERIFY LOCATION AND COORDINATE WITH OWNER AND ALL OTHER DISCIPLINES.
10. CONTRACTOR IS TO PROVIDE ALL NECESSARY PIPE, VALVES, ETC. DOWNSTREAM FROM POINT OF CONNECTION NOT INSTALLED BY OTHER DISCIPLINES.
11. CONTRACTOR IS TO VERIFY AVAILABLE PRESSURE AND FLOW AT POINT OF CONNECTION PRIOR TO INSTALLATION OF IRRIGATION SYSTEM EQUIPMENT AND NOTIFY LANDSCAPE ARCHITECT WITH VERIFICATION FIGURES. FAILURE TO NOTIFY LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY ALTERATIONS TO THE PLAN DUE TO VARIATIONS OF PRESSURE OR FLOW AT HIS/HER OWN RISK.
12. INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS TO ALLOW FOR SYSTEM WINTERIZATION.
13. CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH BUILDING CONSTRUCTION AND INSTALLATION OF PAVING AND SIDEWALKS. ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ALL MAINLINES, LATERAL LINES, DRIP LINES AND CONTROL WIRES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. INSTALL SLEEVING AS PER DETAIL AND SPECIFICATIONS.
14. ALL PIPING, PVC ELECTRICAL SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWING. CAP ALL ENDS HAND TIGHT PRIOR TO BACKFILL USE PVC SCHEDULE 40 PIPE FOR ALL NON-PRESSURE LATERAL LINE PIPING INSTALLED UNDER PAVED AREAS.
15. CONTRACTOR IS TO PROVIDE ELECTRICAL POWER TO THE AUTOMATIC CONTROLLER. COORDINATE LOCATION WITH OWNER/LANDSCAPE ARCHITECT.
16. CONTRACTOR SHALL EXTEND SPARE CONTROL WIRES FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER. SEE DETAILS AND SPECIFICATIONS FOR NUMBER OF SPARE WIRES AND INSTALLATION REQ.
17. INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL MALE PIPE THREADS ON ALL IRRIGATION SWING JOINT AND VALVE ASSEMBLIES.
18. ALL TRENCHES TO BE PUDDLED AND COMPACTED TO THE SAME DENSITY AS THE UNDISTURBED ADJACENT SOIL.
19. CONTRACTOR TO PERFORM IRRIGATION AUDIT FOR IRRIGATION ZONES AS PART OF FINAL IRRIGATION ACCEPTANCE.
20. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED IN LANDSCAPED AREAS AND WITHIN THE PROPERTY LIMITS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES. AND A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALES.
21. IF PROPOSED IRRIGATION SYSTEM IS CONNECTING TO AN EXISTING SYSTEM, CONTRACTOR IS RESPONSIBLE FOR TESTING AND VERIFYING BOTH EXISTING AND NEW IRRIGATION SYSTEMS PROVIDE 100% COVERAGE.

CRITICAL ANALYSIS

Generated:	2014-08-12 12:51
P.O.C. NUMBER:01	
Water Source information:	City of Yelm Reclaimed Water Source - See Civil for Connection
FLOW AVAILABLE	
Point of Connection Size:	2"
Flow Available:	78.62 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	75.00 psi
Pressure Available:	75.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	34.40 gpm
Flow Available at POC:	78.62 gpm
Residual Flow Available:	44.22 gpm
Critical Station:	3
Design Pressure:	50.00 psi
Elevation Loss:	0.00 psi
Friction Loss:	2.02 psi
Fittings Loss:	0.20 psi
Loss through Valve:	7.43 psi
Pressure Req. at Critical Station:	59.66 psi
Loss for Fittings:	0.04 psi
Loss for Main Line:	0.42 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	6.00 psi
Critical Station Pressure at POC:	66.12 psi
Pressure Available:	75.00 psi
Residual Pressure Available:	8.88 psi

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	RAIN BIRD PEB	1"	TURF ROTARY	47.18	53.28	3.69	0.52 in/h
2	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	53.66	59.80	4.42	0.52 in/h
3	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	59.66	67.02	10.12	0.52 in/h
4	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	52.41	58.55	2.63	0.52 in/h
5	RAIN BIRD PEB	1-1/2"	TURF SPRAY	37.05	50.65	23.22	0.72 in/h
6	RAIN BIRD PEB	1-1/2"	TURF SPRAY	36.75	47.80	18.38	0.81 in/h

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ALAN R. McWAIN
LICENSE NO. 1035
EXPIRES ON 4/6/2016

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

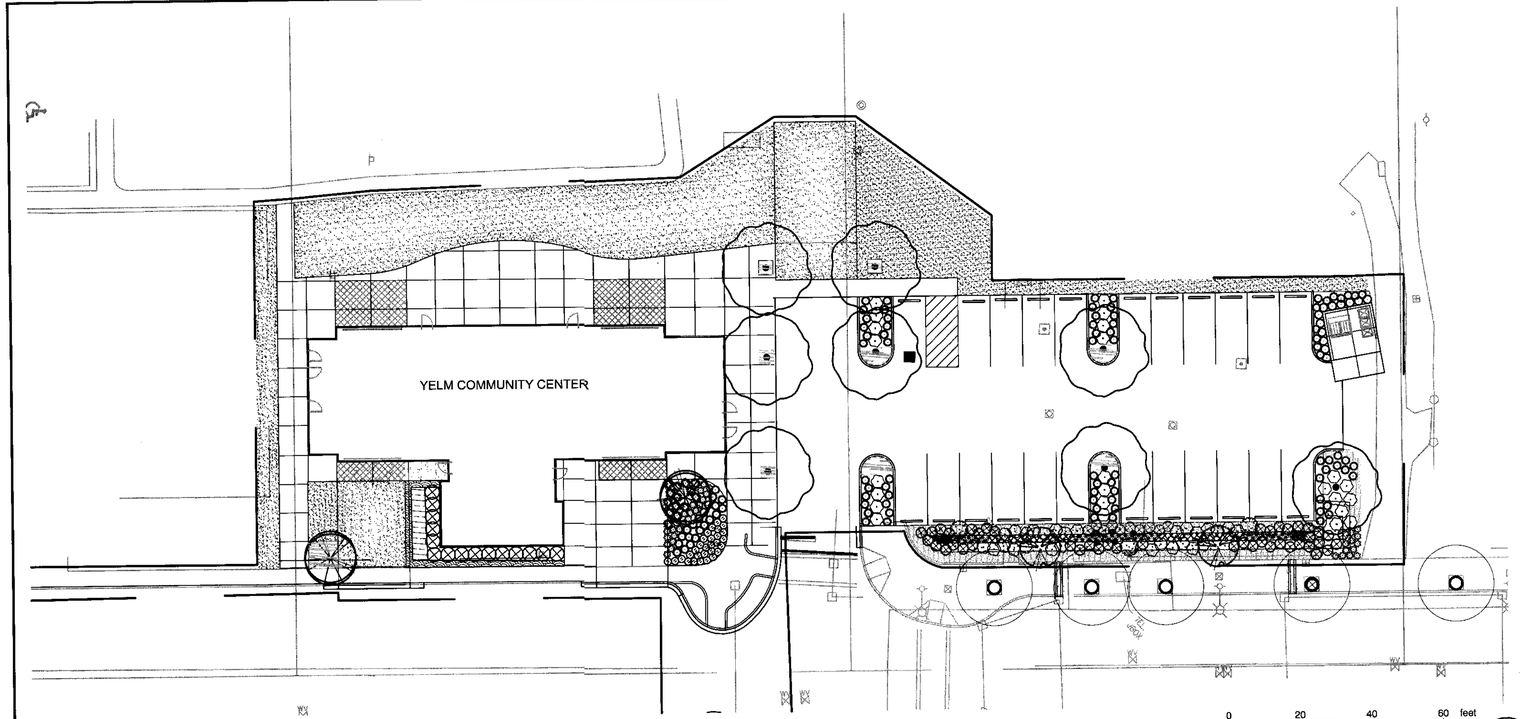
REVISIONS

DATE
08.20.14
BCRA NO.
14013
CADD FILE

SHEET TITLE
IRRIGATION PLAN

SHEET
L1.01
100% CD SET

Date Plotted: Aug 20, 2014 – 8:43am Filename: L1.01 – IRRIGATION PLAN.dwg By: DCRABILL



1 L1.02 PLANTING PLAN

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
	ACER CIRCINATUM NATIVE	VINE MAPLE	B & B	1.5"CAL	5-6`	2
	AMELANCHIER X GRANDIFLORA `AUTUMN BRILLIANCE`	`AUTUMN BRILLIANCE` SERVICEBERRY	B & B	2"CAL	6`-8` HT	2
	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	B & B	2.5"CAL		8
	EXISTING TO REMAIN		N/A			12

SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	BLECHNUM SPICANT	DEER FERN	2 GAL	14
	CORNUS SERICEA `KELSEYI`	KELSEYI DOGWOOD	2 GAL	56
	EUONYMUS ALATUS `COMPACTUS`	COMPACT BURNING BUSH	5 GAL	15
	HAMAMELIS X INTERMEDIA `ARNOLD PROMISE` ADAPTIVE	ARNOLD PROMISE HYBRID WITCH HAZEL	5 GAL	3
	THUJA OCCIDENTALIS `EMERALD` MIN. 5` HEIGHT	EMERALD ARBORVITAE	5 GAL	12
	VIBURNUM DAVIDII	DAVID VIBURNUM	3 GAL	52

ANNUALS/PERENNIALS	BOTANICAL NAME	COMMON NAME	CONT	QTY
*	CAREX OBNUPTA	SLOUGH SEDGE	1 GAL	55
O	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL	96
⬟	IRIS DOUGLASIANA	DOUGLAS IRIS	1 GAL	15
+	JUNCUS EFFUSUS PACIFICUS	COMMON RUSH	1 GAL	50
⊙	LAVANDULA ANGUSTIFOLIA `HIDCOTE BLUE`	HIDCOTE BLUE LAVENDER	1 GAL	30
✿	RUDBECKIA FULGIDA `EARLY BIRD GOLD`	BLACK-EYED SUSAN	1 GAL	34

PERENNIALS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY
	HEMEROCALLIS X `HAPPY RETURNS`	HAPPY RETURNS DAYLILY	1 GAL	24" o.c.	35
	SALVIA NEMOROSA `MAY NIGHT`	MAY NIGHT SAGE	1 GAL	24" o.c.	22

GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY
	ARCTOSTAPHYLOS UVA-URSI NATIVE	KINNIKINNICK	1 GAL	24" o.c.	182
	LIRIOPE SPICATA	CREEPING LILY TURF	1 GAL	18" o.c.	134
	TURF HYDROSEED	DROUGHT TOLERANT FESCUE BLEND	SEED		6,520 SF

NOTE:
1. ALL AREAS DISTURBED DURING CONSTRUCTION TO BE HYDROSEEDED.
2. ALL NEW TURF AND PLANTING AREAS SHOULD RECEIVE A MINIMUM OF 8" OF TOPSOIL PER WASHINGTON STATE DEPARTMENT OF ECOLOGY.
3. PROVIDE 2" OF COURSE COMPOST TO BIO-RETENTION AREAS AND 2" MEDIUM BARK MULCH TO ALL OTHER PLANTING AREAS.

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ALAN R. McWAIN
LICENSE NO. 1036
EXPIRES ON 4/6/2016

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
08.20.14
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14013
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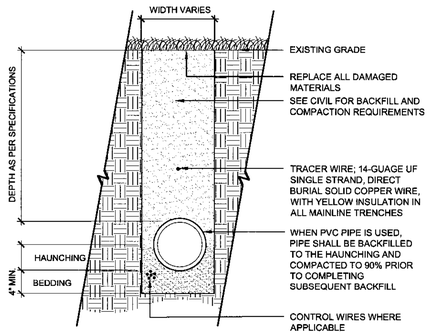
SHEET TITLE
PLANTING PLAN

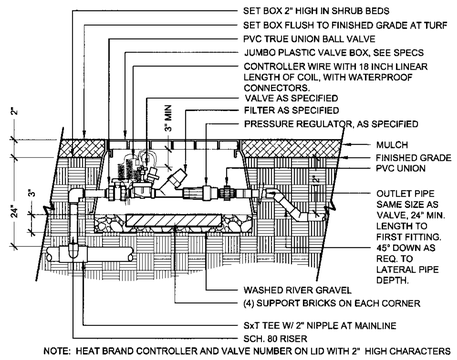
SHEET
L1.02

100% CD SET

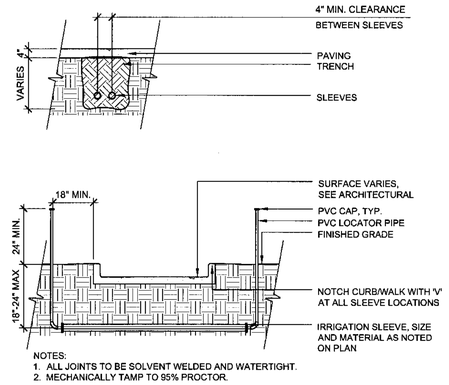


1 TRENCH DETAIL WITH TRACER WIRE

1" = 1'-0" 328409.76-12



NOTE: HEAT BRAND CONTROLLER AND VALVE NUMBER ON LID WITH 2" HIGH CHARACTERS

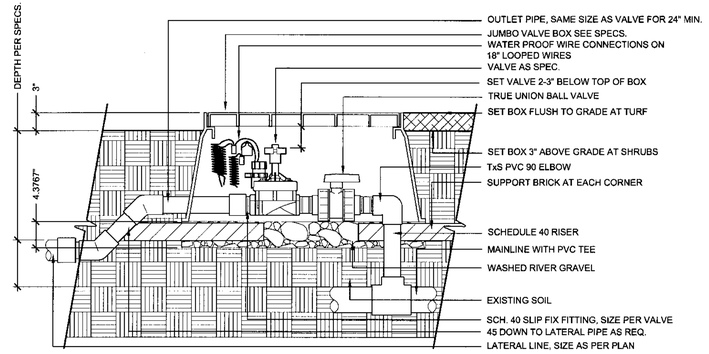


NOTES:
1. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
2. MECHANICALLY TAMP TO 95% PROCTOR.

3 SLEEVING

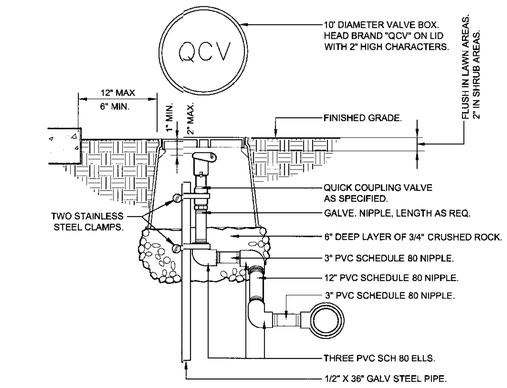
3/8" = 1'-0" 328409.76-07

NOTE:
HEAT BRAND VALVE AND CONTROLLER NUMBER ON LID WITH 2" HIGH CHARACTERS



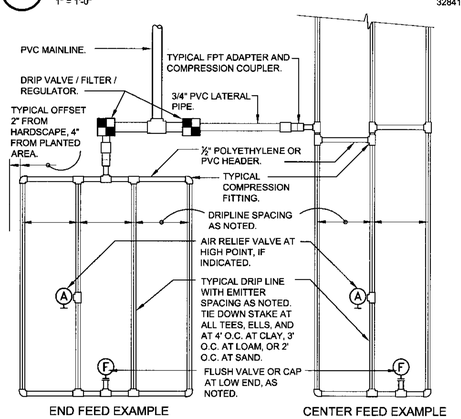
3 QUICK COUPLING VALVE IN BOX

1 1/2" = 1'-0" 328406.43-02



4 1" DRIP VALVE/FILTER/REGULATOR

1" = 1'-0" 328413.76-23



END FEED EXAMPLE CENTER FEED EXAMPLE

MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
PSI	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

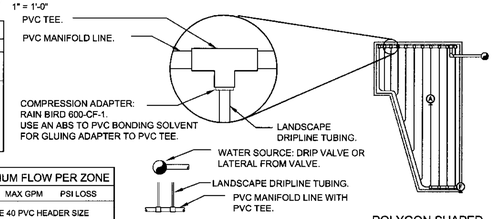
LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.8 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE,
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.

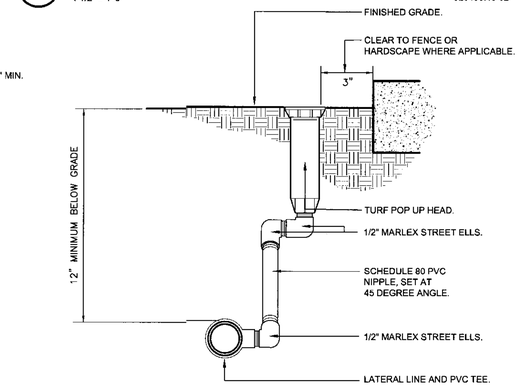
5 REMOTE CONTROL VALVE

1" = 1'-0" 328405.13-05



6 TURF SPRAY MARLEX ASSEMBLY

3" = 1'-0" 328403.13-01



7 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

3" = 1'-0" 328413.56-07

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ALAN R. McWAIN
LICENSE NO. 1036
EXPIRES ON 4/6/2016

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
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SHEET TITLE
DETAILS

SHEET
L2.01
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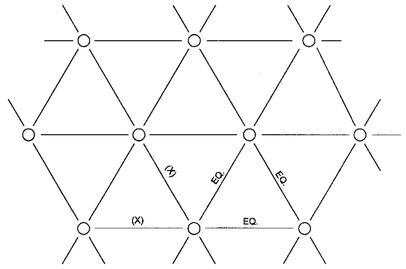
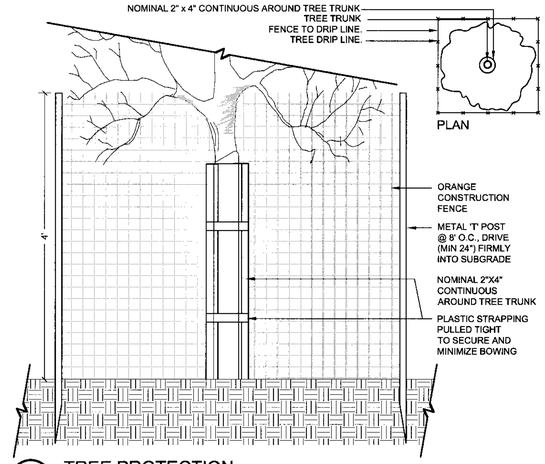
Date Plotted: Aug 14, 2014 - 9:43pm Filename: L2.01 - DETAILS.dwg By: DOBABLL



DISTANCE (X) AS SPECIFIED IN THE PLANT SCHEDULE.

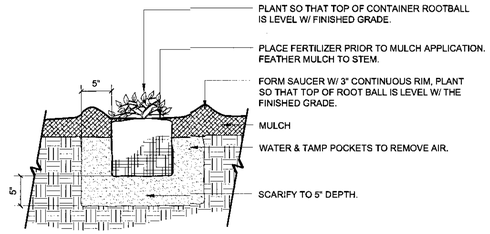
1 PLANT SPACING

1" = 1'-0" 329300-03



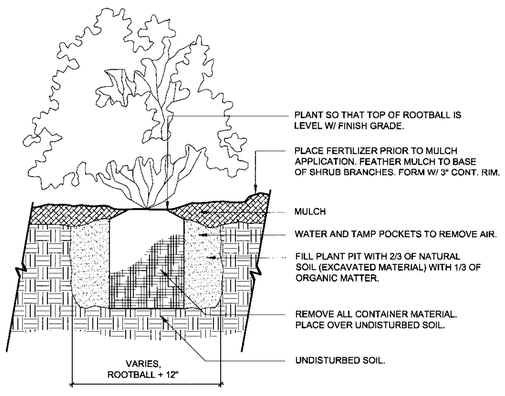
2 TREE PROTECTION

1" = 1'-0" DETAIL-FILE



3 GROUND COVER PLANTING

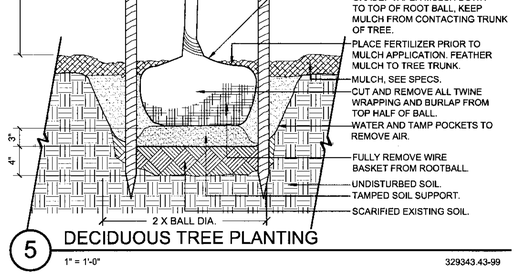
1" = 1'-0" 329333.93-11



4 SHRUB PLANTING - CONTAINER

1" = 1'-0" 329333.13-01

NOTE:
1. DO NOT CUT LEADER. PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING AND MULCHING.
2. KEEP CROWN SHAPE TYPICAL OF SPECIES.
3. REMOVE ALL PLANTING LABELS AFTER FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.



5 DECIDUOUS TREE PLANTING

1" = 1'-0" 329343.43-99

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SHEET TITLE
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SHEET
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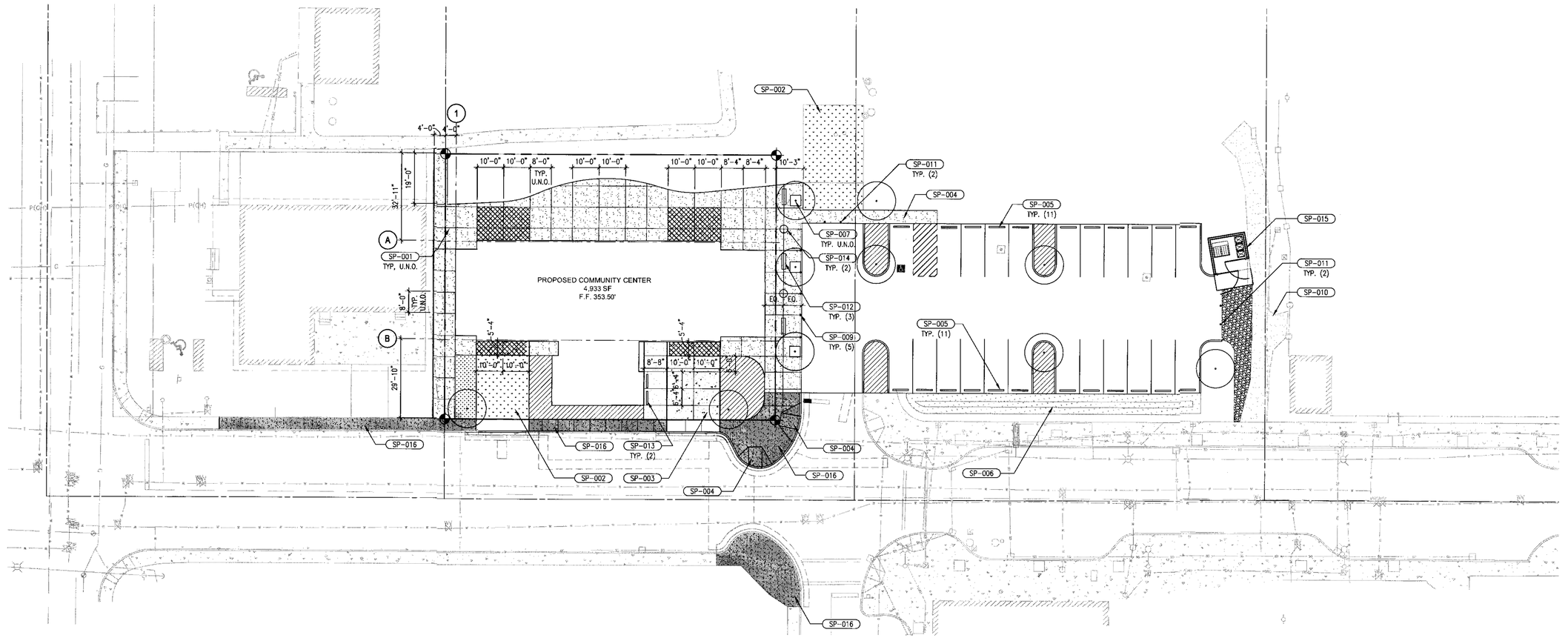
Date Plotted: Aug 14, 2014 - 9:41pm Filename: L2.02-DETAILS.dwg By: DCRABILL



1 ARCHITECTURAL SITE PLAN

SCALE: 1" = 20'-0"

0 10' 20' 40'

SCALE: 1" = 20'-0"

NORTH

GENERAL NOTES:

1. DIMENSIONS ARE FROM FACE OF WALL, FACE OF CURB, OR PROPERTY LINE, U.N.O.
2. REFER TO CIVIL DRAWINGS FOR ALL ADA RAMP AND SIGNAGE DETAILS.
3. REFER TO CIVIL DRAWINGS FOR ASPHALT, PAVING, AND CONCRETE SECTIONS AND DETAILS.
4. REFER TO LANDSCAPE DRAWINGS FOR PLANTING INFORMATION.
6. REFER TO SPECIFICATIONS FOR PLANTERS, BENCHES, AND BIKE RACKS.
7. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING AND EQUIPMENT DESIGN.

SITE PLAN LEGEND:

- LANDSCAPING, REFER TO LANDSCAPE DRAWINGS
- CEMENT CONCRETE WALK, REFER TO CIVIL DRAWIN
- GRASS, REFER TO LANDSCAPE DRAWINGS
- GRAVEL, REFER TO CIVIL DRAWINGS
- INTEGRALLY COLORED CONCRETE

SITE PLAN KEYNOTES:

SP-001	CEMENT CONCRETE WALK PER CIVIL	SP-012	BENCH
SP-002	GRASS PAVEMENT PER CIVIL	SP-013	BIKE RACK
SP-003	CEMENT CONCRETE PAVEMENT PER CIVIL	SP-014	TRASH RECEPTACLE
SP-004	ADA RAMP PER CIVIL	SP-015	REFUSE CONTAINER STORAGE AREA REFER TO A1.51 FOR DETAILS
SP-005	WHEELSTOP PER CIVIL	SP-016	CEMENT CONCRETE SIDEWALK PER CIVIL
SP-006	BIO RETENTION CELL PER CIVIL		
SP-007	TREE/PLANTER PER LANDSCAPE		
SP-008	ADA SIGNAGE PER CIVIL		
SP-009	BOLLARD		
SP-010	EXISTING GRAVEL ROAD		
SP-011	REMOVEABLE BOLLARDS		

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SHEET TITLE
ARCHITECTURAL
SITE PLAN

SHEET
A1.01

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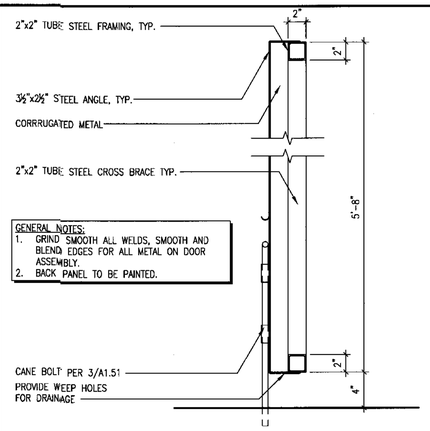
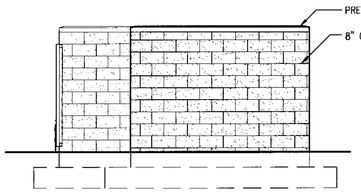


8 GATE SECTION

SCALE: 1 1/2" = 1'-0"



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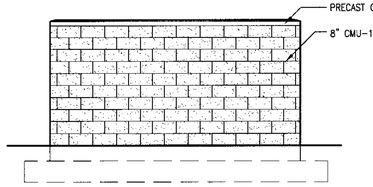

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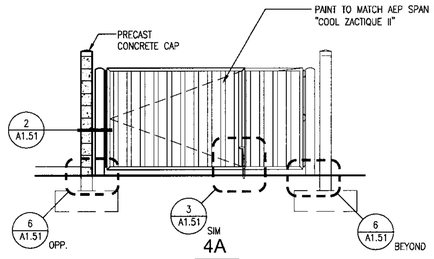
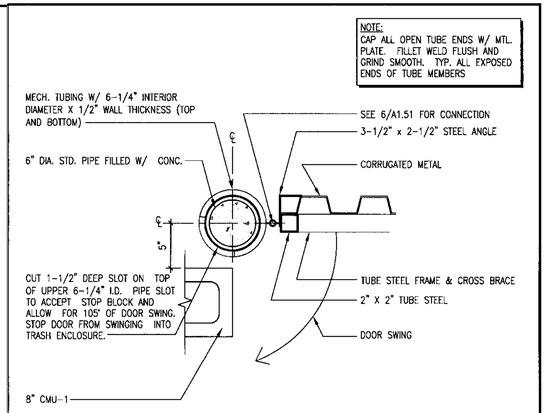


4A

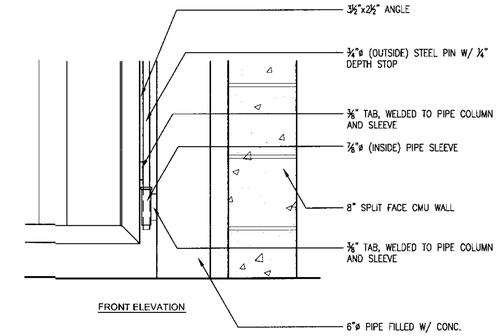
4 ELEVATIONS

SCALE: 1/4" = 1'-0"



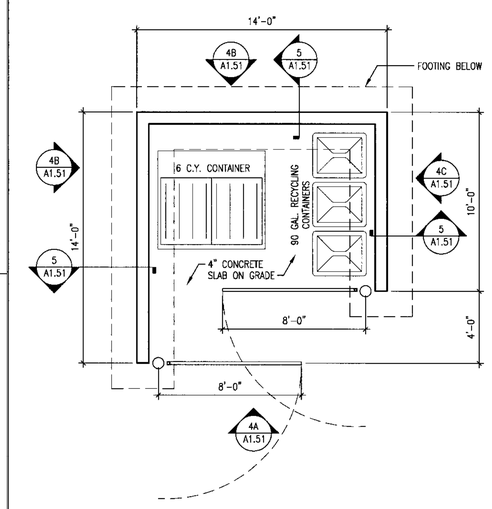
2 GATE HINGE DETAIL

SCALE: 1 1/2" = 1'-0"



6 GATE DETAIL

SCALE: 1 1/2" = 1'-0"

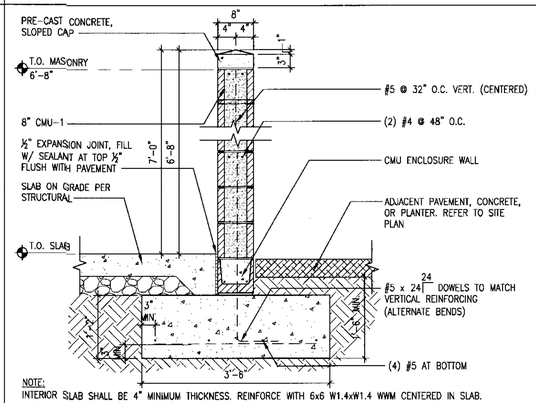


NOTES:

1. DOORS MUST SWING OPEN AT LEAST 90 DEGREES FROM CLOSED POSITION.
2. DOORS MUST SWING FREELY AND BE ABLE TO BE LOCKED IN OPEN POSITION.
3. PROVIDE A MINIMUM OF 50 FEET "STRAIGHT-IN" APPROACH TO FRONT OF ENCLOSURE.
4. AREA MUST BE FREE OF OVERHEAD OBSTACLES, SUCH AS POWER LINES, BUILDING OVERHANGS, ETC.
5. CONTAINERS MUST BE PLACED ON A HARD, LEVEL SURFACE, EITHER ASPHALT OR CONCRETE.
6. CONTAINERS MUST BE COVERED.
7. FENCE POST TO BE SET IN CONCRETE TO A DEPTH OF 36" BELOW FINISHED GROUND LEVEL.
8. CONTACT PACIFIC DISPOSAL FOR APPROPRIATE SIZE OF THE CONTAINERS.

1 DUMPSTER ECLOSURE PLAN

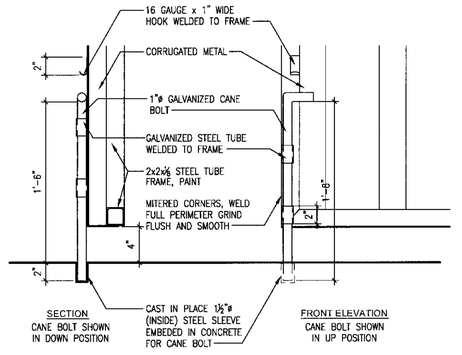
SCALE: 1/4" = 1'-0"



NOTE:
INTERIOR SLAB SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH 6x6 W1.4xW1.4 WWM CENTERED IN SLAB. PROVIDE VAPOR BARRIER PER ARCH. BELOW SLAB OVER 4" MINIMUM FREE DRAINAGE GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL COMPACTED TO 90% DENSITY. FOR ACTUAL TOP OF SLAB ELEVATION REFER TO ARCHITECTURAL AND CIVIL DRAWINGS

5 TYP. ENCLOSURE WALL SECTION

SCALE: 3/4" = 1'-0"



3 CANE BOLT ASSEMBLY

SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
REFUSE CONTAINER STORAGE DETAILS

SHEET
A1.51

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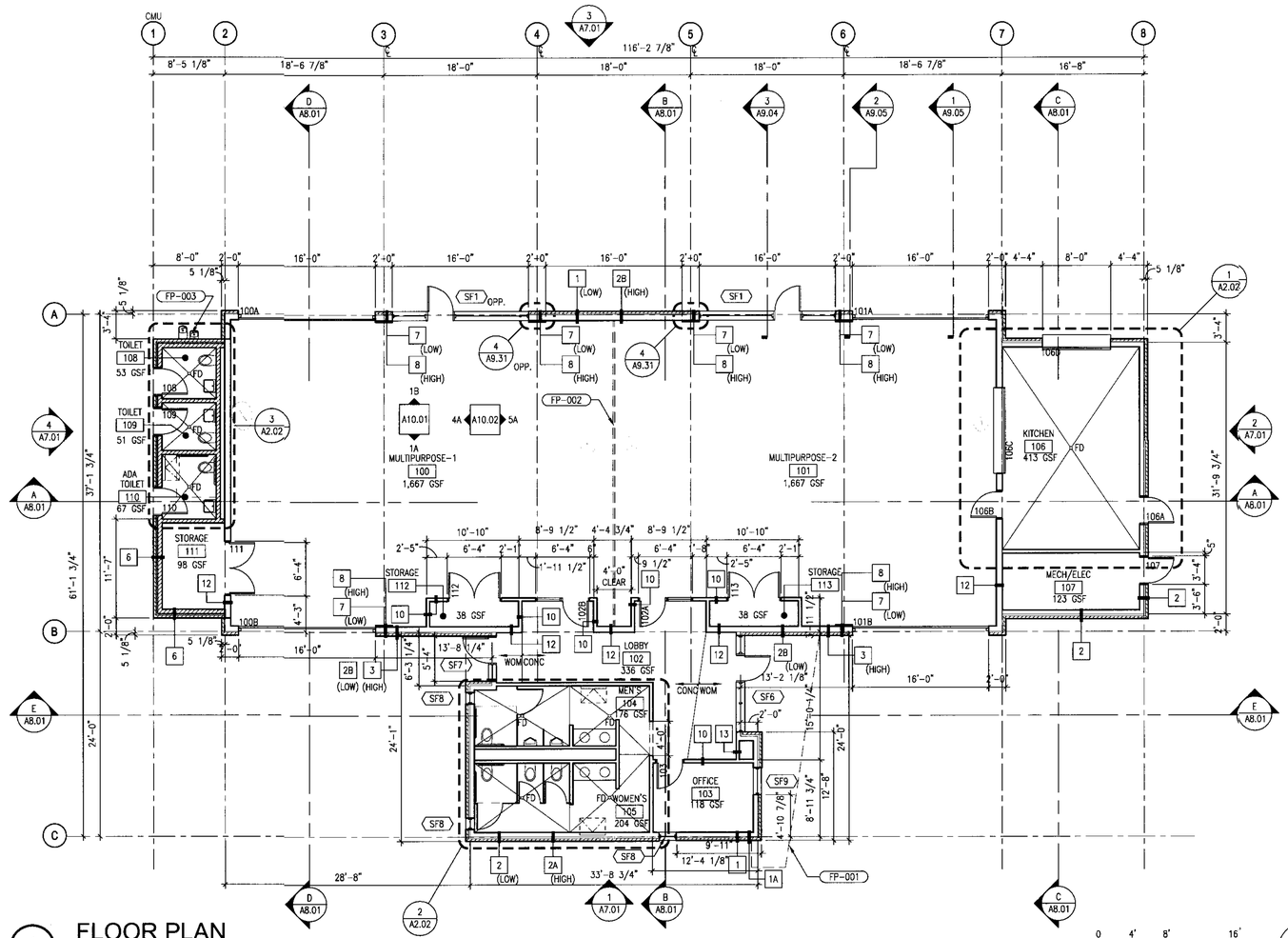

1 FLOOR PLAN

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

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

NORTH

FLOOR PLAN NOTES:

1. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, CENTERLINE OF COLUMNS, OR GRID LINES UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURAL DRAWINGS FOR SIZE AND LOCATIONS OF STRUCTURAL MEMBERS AND SHEAR WALLS.
3. WALL TYPE INDICATOR APPLIES TO ENTIRE LENGTH OF WALL UNLESS NOTED OTHERWISE.
4. INSTALL FIRE BLOCKING IN ALL CONCEALED SPACES PER 2012 IBC.
5. PROVIDE CEILING ACCESS PANELS TO ALL PLUMBING VALVES.
6. PROVIDE BLOCKING IN WALLS FOR CASEWORK, MESSAGE BOARDS, TOILET ACCESSORIES, OFCI FURNISHINGS, AND ALL OTHER WALL SUPPORTED ITEMS. REFER TO PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS.

FLOOR PLAN KEYNOTES:

FP-001	STEEL CANOPY ABOVE
FP-002	NON-MOTORIZED OPERABLE PANEL ACOUSTIC PARTITION - OVERHEAD SUPPORTED (NO FLOOR TRACK)
FP-003	DRINKING FOUNTAIN
FP-004	
FP-005	

FLOOR PLAN SYMBOL LEGEND:

WALL TYPE INDICATOR, SEE WALL TYPE LEGEND SHEET A4.01

FD — FLOOR DRAIN, SLOPE FLOOR ¼:12 MIN TO DRAIN

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14013-A2.01.DWG
SHEET TITLE
FLOOR PLAN

SHEET
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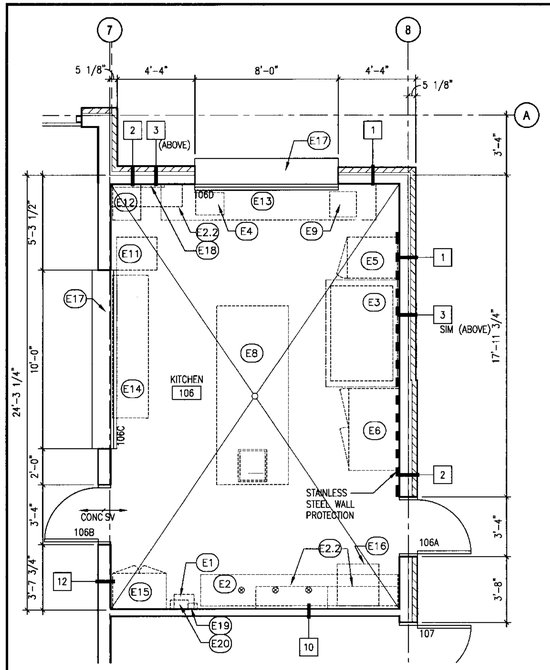
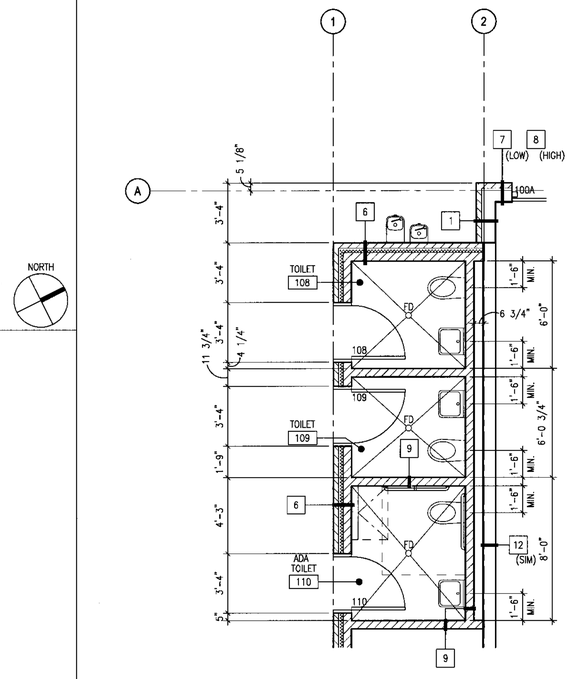


EQUIPMENT SCHEDULE			
ITEM NO.	DESCRIPTION	MODEL NUMBER/ POWER/ DIMENSIONS	ITEM NO.
E1	HAND SINK		E1
E2	3-COMPARTMENT SINK		E2
E2.2	SHELVING	WALL-MOUNTED; 15"X48"	E2.2
E3	RANGE	GAS; 4 BURNERS, 36" GRIDDLE, (2) OVENS	E3
E4	MICROWAVE	UNDER COUNTER	E4
E5	FREEZER	DOUBLE DOOR	E5
E6	REFRIGERATOR	SINGLE DOOR	E6
E7	CLASS 1 HOOD SYSTEM	6'-0"	E7
E8	PREP TABLE WITH INTEGRAL PREP SINK	4'X10"; STORAGE SHELVING BELOW; DRAWERS	E8
E9	COFFEE BREWER		E9
E11	ICE CUBER	527lb CAPACITY, 260lb ICE STORAGE BIN	E11
E12	MOP SINK		E12
E13	STAINLESS STEEL WORK TABLE	2'X12", SHELVING BELOW, BACKSPLASH	E13
E14	STAINLESS STEEL WORK TABLE	2'X8", SHELVING BELOW, BACKSPLASH	E14
E15	STORAGE CABINET	24"X36"X84"; LOCKING, FOR DISHES - SECURE CAGE	E15
E16	DISHWASHER	UNDERCOUNTER, .62 GALLON, ENERGY STAR	E16
E17	STAINLESS STEEL PASS-THRU SHELF	FIELD VERIFY SIZE	E17
E18	MOP HOOK	36"	E18
E19	SOAP DISPENSER		E19
E20	PAPER TOWEL DISPENSER		E20

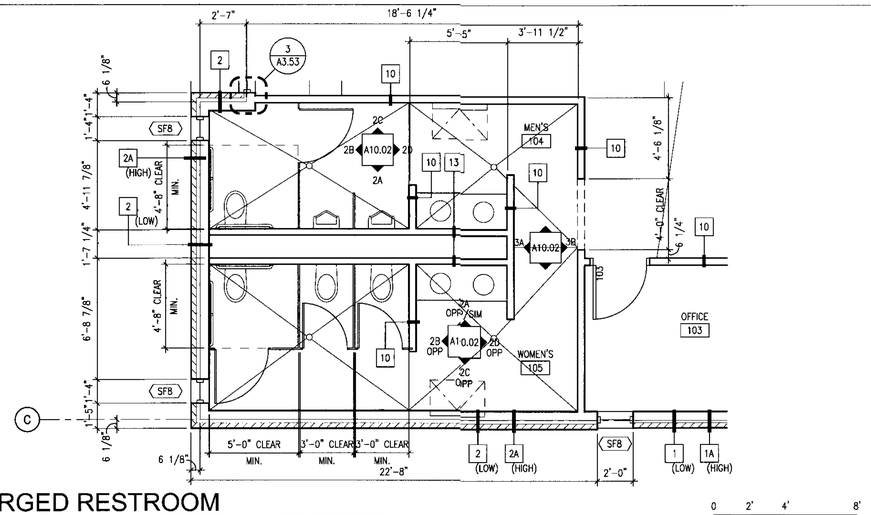
1 ENLARGED KITCHEN PLAN

SCALE: 1/4" = 1'-0"



3 ENLARGED RESTROOMS

SCALE: 1/4" = 1'-0"



2 ENLARGED RESTROOM

SCALE: 1/4" = 1'-0"

NORTH

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

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SHEET TITLE
ENLARGED
FLOOR PLANS

SHEET
A2.02

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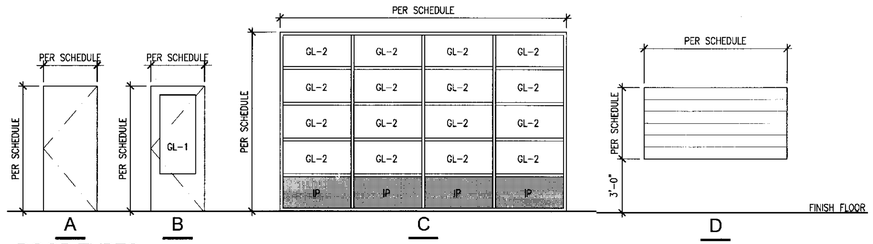
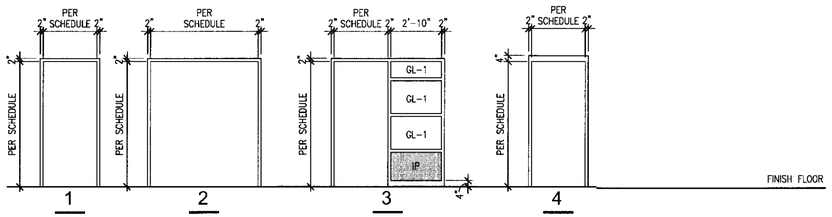


DOOR TYPES

SCALE: 1/4" = 1'-0"



DOOR FRAME TYPES

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	SIZE (W x H x D)	DOOR				FRAME			FIRE RATING	DETAIL REFERENCE			SIGNAGE	H'WARE GROUP	REMARKS	DOOR NUMBER
		TYPE	MAT'L	FINISH	GLASS	TYPE	MAT'L	FINISH		HEAD	JAMB	SILL				
100A	16'-0" x 10'-0" x –	C	–	FF	GL-2/IP	–	–	FF	–	12/A3.52	1/A3.52	–	–	HW-08	–	100A
100B	16'-0" x 10'-0" x –	C	–	FF	GL-2/IP	–	–	FF	–	12/A3.52	1/A3.52	–	–	HW-08	–	100B
101A	16'-0" x 10'-0" x –	C	–	FF	GL-2/IP	–	–	FF	–	–	1/A3.52	–	–	HW-08	–	101A
101B	16'-0" x 10'-0" x –	C	–	FF	GL-2/IP	–	–	FF	–	–	1/A3.52	–	–	HW-08	–	101B
102A	3'-0" x 7'-0" x 1 3/4"	B	WD	PT	GL-1/IP	3	HM	PT	–	11/A3.52	11/3.52 (SIM)	10/A3.52	–	HW-01	–	102A
102B	3'-0" x 7'-0" x 1 3/4"	B	WD	PT	GL-1/IP	3	HM	PT	–	11/A3.52	11/3.52 (SIM)	10/A3.52	–	HW-01	–	102B
103	3'-0" x 7'-0" x 1 3/4"	A	WD	PT	–	1	HM	PT	–	11/A3.52	11/A3.52 (SIM)	10/A3.52	–	HW-06	–	103
106A	3'-0" x 7'-0" x 1 3/4"	A	HM	PT	–	4	HM	PT	–	9/A3.52	8/A3.52	7/A3.52	–	HW-04	–	106A
106B	3'-0" x 7'-0" x 1 3/4"	A	WD	PT	–	1	HM	PT	–	11/A3.52	11/A3.52 (SIM)	10/A3.52	–	HW-05	–	106B
106C	10'-0" x 4'-0" x –	D	–	FF	–	–	–	FF	–	6/A3.52	5/A3.52	4/A3.52	–	HW-08	–	106C
106D	8'-0" x 4'-0" x –	D	–	FF	–	–	–	FF	–	3/A3.52	1/A3.53	2/A3.52	–	HW-08	1	106D
107	3'-0" x 7'-0" x 1 3/4"	A	HM	PT	–	4	HM	PT	–	9/A3.52	8/A3.52	7/A3.52	–	HW-03	–	107
108	3'-0" x 7'-0" x 1 3/4"	A	HM	PT	–	4	HM	PT	–	9/A3.52	8/A3.52	7/A3.52	–	HW-02	–	108
109	3'-0" x 7'-0" x 1 3/4"	A	HM	PT	–	4	HM	PT	–	9/A3.52	8/A3.52	7/A3.52	–	HW-02	–	109
110	3'-0" x 7'-0" x 1 3/4"	A	HM	PT	–	4	HM	PT	–	9/A3.52	8/A3.52	7/A3.52	–	HW-02	–	110
111	PR. 3'-0" x 7'-0" x 1 3/4"	A	WD	PT	–	2	HM	PT	–	11/A3.52	11/A3.52 (SIM)	10/A3.52	–	HW-07	–	111
112	PR. 3'-0" x 7'-0" x 1 3/4"	A	WD	PT	–	2	HM	PT	–	11/A3.52	11/A3.52 (SIM)	10/A3.52	–	HW-07	–	112
113	PR. 3'-0" x 7'-0" x 1 3/4"	A	WD	PT	–	2	HM	PT	–	11/A3.52	11/A3.52 (SIM)	10/A3.52	–	HW-07	–	113

DOOR SCHEDULE ABBREVIATIONS:

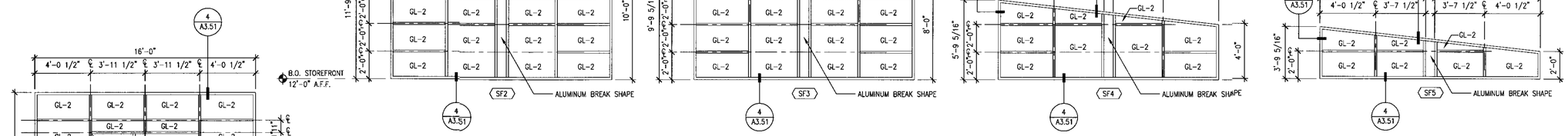
FF	FACTORY FINISH
GL-1	GLAZING TYPE 1: CLEAR TEMPERED FLOAT GLASS
GL-2	GLAZING TYPE 2: CLEAR INSULATED TEMPERED GLASS
GL-3	GLAZING TYPE 3: FROSTED INSULATED TEMPERED GLASS
HM	HOLLOW METAL
IP	INSULATED PANEL
PR	PAIR
PT-	PAINT
ST	STEEL

DOOR SCHEDULE REMARKS:

1. PROVIDE INSULATED DOOR AT EXTERIOR WALL

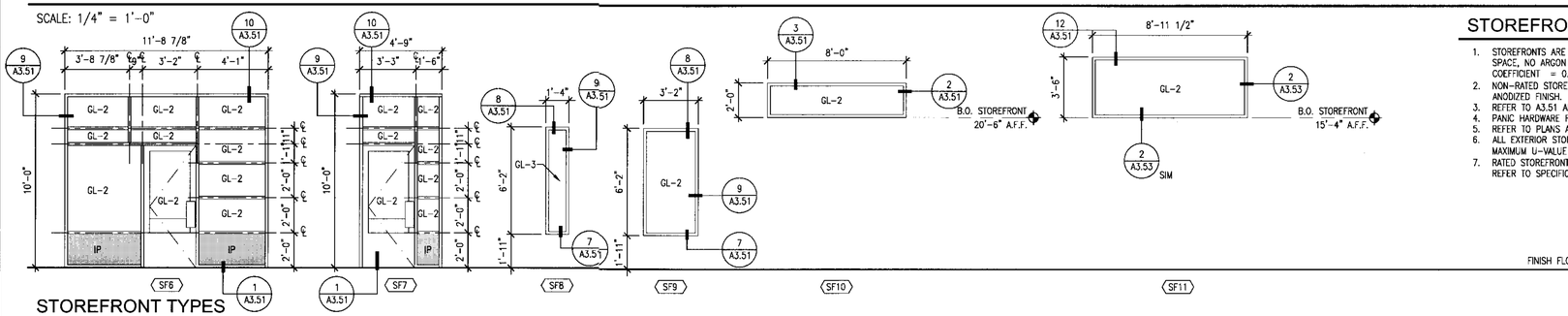
DOOR SCHEDULE GENERAL NOTES:

1. VERIFY ROUGH OPENING SIZES WITH DOOR AND FRAME MANUFACTURER.
2. ALL EXTERIOR DOORS AND FRAMES SHALL COMPLY WITH AIR BARRIER REQUIREMENTS.
3. PANIC HARDWARE REQUIRED ON ALL STOREFRONT DOORS PER IBC 1008.1.8.
4. EXIT DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL, TYP.
5. REFER TO SPECIFICATIONS FOR DOOR HARDWARE GROUP DESCRIPTIONS.
6. ALL DOOR HARDWARE SHALL CONFORM WITH ADA STANDARDS, TYP.
7. PRIOR TO CONSTRUCTION, SUBMIT DOOR HARDWARE TO ARCHITECT FOR REVIEW AND APPROVAL.
8. ALL HARDWARE MOUNTING HEIGHTS SHALL CONFORM WITH ADA STANDARDS, TYP.
9. ALL STOREFRONT DOORS TO HAVE SIGN OVER DOOR "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".



STOREFRONT TYPES

SCALE: 1/4" = 1'-0"



STOREFRONT TYPES

SCALE: 1/4" = 1'-0"

STOREFRONT GENERAL NOTES:

1. STOREFRONTS ARE TO BE ALUMINUM FRAME WITH THERMAL BREAK, DOUBLE PAINE ½" AIR SPACE, NO ARGON GAS, WITH LOW E, WITH A U-VALUE OF 0.38 OR BETTER WITH A SHADING COEFFICIENT = 0.40.
2. NON-RATED STOREFRONT SYSTEMS ARE TO BE 2"x4½" ALUMINUM FRAME WITH CLEAR ANODIZED FINISH.
3. REFER TO A3.51 AND A3.52 FOR STOREFRONT HEAD, JAMB, AND SILL DETAILS.
4. PANIC HARDWARE REQUIRED ON ALL STOREFRONT DOORS PER IBC 1008.1.8.
5. REFER TO PLANS AND ELEVATIONS FOR LOCATIONS AND QUANTITIES OF STOREFRONTS.
6. ALL EXTERIOR STOREFRONT ASSEMBLIES MUST MEET 2012 WASHINGTON STATE ENERGY CODE, MAXIMUM U-VALUE (0.40) AND MAXIMUM SHGC (0.40) OF GLAZING AND FRAME ASSEMBLIES.
7. RATED STOREFRONT SYSTEMS ARE TO BE ALUMINUM FRAME WITH CLEAR ANODIZED FINISH, REFER TO SPECIFICATIONS FOR FRAME SIZE.

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SHEET TITLE
DOOR AND STOREFRONT SCHEDULES

SHEET
A3.01

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	BASE MAT'L	BASE FINISH	FLOOR MAT'L	FLOOR FINISH	NORTH WALL MAT'L	NORTH WALL FINISH	EAST WALL MAT'L	EAST WALL FINISH	SOUTH WALL MAT'L	SOUTH WALL FINISH	WEST WALL MAT'L	WEST WALL FINISH	CEILING MAT'L	CEILING FINISH	REMARKS	ROOM NUMBER
100	MULTIPURPOSE-1	T	SLR	CONC/WOM	POL/FF	--	--	LWWP/MDF/GWB	FF/PT/PT	LWWP/MDF	FF/PT	LWWP/MDF/GWB	FF/PT/PT	EXPOSE/GWB/ACP-1	SEAL/PT/FF		100
101	MULTIPURPOSE-2	T	SLR	CONC/WOM	POL/FF	LWWP/MDF	FF/PT	LWWP/MDF/GWB	FF/PT/PT	--	--	LWWP/MDF/GWB	FF/PT/PT	EXPOSE/GWB/ACP-1	SEAL/PT/FF		101
102	LOBBY	WD	S+VAR	CONC/WOM	POL/FF	MDF/GWB	PT/PT	MDF/GWB	PT/PT	MDF/GWB	PT/PT	MDF/GWB	PT/PT	EXPOSE/ACT	SEAL/FF	ACT-1, 3	102
103	OFFICE	WD	S+VAR	CONC	POL	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT	FF	ACT-1	103
104	MENS	CT	SLR	CONC	POL	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	GWB	PT		104
105	WOMENS	CT	SLR	CONC	POL	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	TILE/GWB	SLR/PT	GWB	PT		105
106	KITCHEN	CSV	FF	SV	FF	FRP/SS	FF	FRP	FF	FRP	FF	FRP	FF	VCCT	FF	ACT-2, 1, 2, 4	106
107	MECH/ELEC	RB	FF	CONC	SLR	GWB	PT	GWB	PT	GWB	PT	GWB	PT	EXP	PT		107
108	TOILET	--	--	CONC	POL	CMU	PT	CMU	PT	CMU	PT	CMU	PT	WRGWB	PT		108
109	TOILET	--	--	CONC	POL	CMU	PT	CMU	PT	CMU	PT	CMU	PT	WRGWB	PT		109
110	ADA TOILET	--	--	CONC	POL	CMU	PT	CMU	PT	CMU	PT	CMU	PT	WRGWB	PT		110
111	STORAGE	RB	FF	CONC	SLR	GWB	PT	GWB	PT	GWB	PT	GWB	PT	EXP	PT		111
112	STORAGE	RB	FF	CONC	SLR	GWB	PT	GWB	PT	GWB	PT	GWB	PT	EXP	PT		112
113	STORAGE	RB	FF	CONC	SLR	GWB	PT	GWB	PT	GWB	PT	GWB	PT	EXP	PT		113

ROOM FINISH ABBREVIATIONS

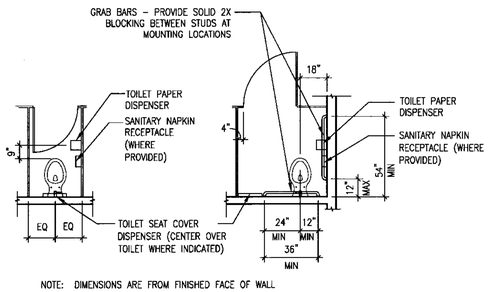
ACT	ACOUSTIC CEILING TILE (ACT-1)
ACP	ACOUSTIC CEILING PANEL (ACP-1)
CONC	CONCRETE (INTEGRAL COLOR)
CSV	COVED SHEET VINYL
CT	CERAMIC TILE
EX	EXISTING
EXP	EXPOSED
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
GWB	GYPSUM WALL BOARD
LWWP	LINEAR WOOD WALL PANEL
MDF	MEDIUM DENSITY FIBERBOARD PANEL
POL	POLISH
PT	PAINT
RB	RUBBER BASE
S	STAIN
SLR	SEALER
SS	STAINLESS STEEL
ST	INTEGRAL COLOR CONC STAIN
SV	SHEET VINYL
T	TILE (REFER TO INTERIOR ELEVATIONS FOR TILE TYPE)
VAR	VARNISH
VCCT	VINYL COATED CEILING TILE (ACT-2)
WD	WOOD
WOM	WALK-OFF MAT
WRGWB	WATER RESISTANT GYPSUM WALLBOARD

ROOM FINISH SCHEDULE REMARKS

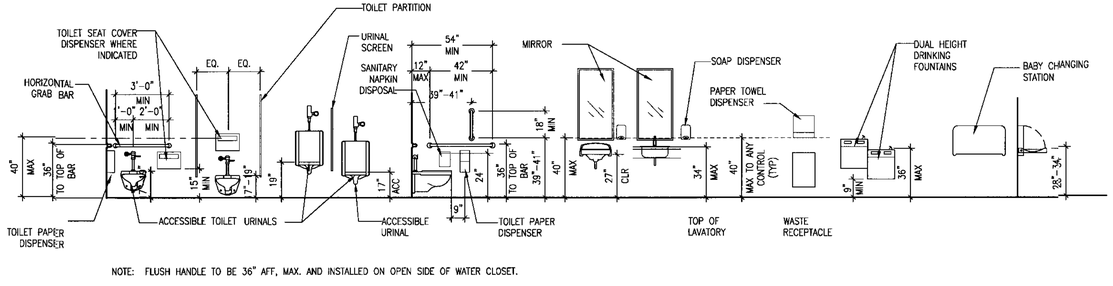
1. FRP TO BE 8' HIGH.
2. EXPOSED WALL SURFACES IN KITCHEN 108 TO BE EPOXY PAINT.
3. MDF WALL PANELS IN LOBBY 102 TO MATCH MULTIPURPOSE ROOM PER DETAILS 2/A11.01, 3/A11.01 AND 6/A11.01 FOR TYPICAL OUTSIDE CORNER, ALUMINUM TRIM AND V-JOINT. IN LOBBY 102 RUN MDF PANELING BEHIND RUBBER BASE TO FLOOR.
4. STAINLESS STEEL WALL PANEL BEHIND RANGE TO 8'HIGH.

ROOM FINISH GENERAL NOTES

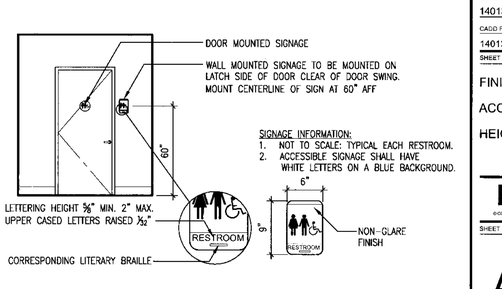
1. PAINT ALL EXPOSED PRIMARY STEEL STRUCTURE COMPONENTS.
2. REFER TO A5.01 FOR VARYING TYPES OF ACT AND LWCS.
3. WALL AND CEILING FINISHES PER IBC SECTION 803.
4. DECORATIVE MATERIAL AND TRIM PER IBC SECTION 806.
5. ACOUSTICAL CEILING SYSTEM PER IBC SECTION 808.
6. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF FINISH MATERIALS.



NOTE: DIMENSIONS ARE FROM FINISHED FACE OF WALL



NOTE: FLUSH HANDLE TO BE 36" AFF, MAX. AND INSTALLED ON OPEN SIDE OF WATER CLOSET.



SIGNAGE INFORMATION:
1. NOT TO SCALE: TYPICAL EACH RESTROOM.
2. ACCESSIBLE SIGNAGE SHALL HAVE WHITE LETTERS ON A BLUE BACKGROUND.

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SHEET TITLE
FINISH SCHEDULE AND ACCESSORY MOUNTING HEIGHTS

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SHEET
A3.02

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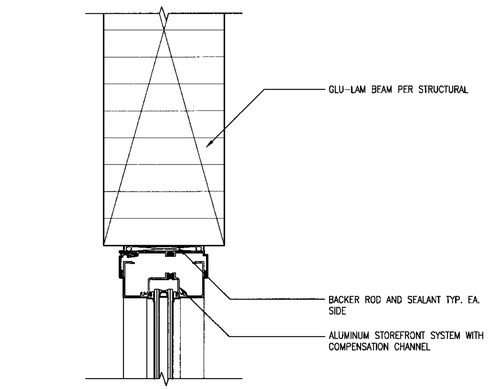
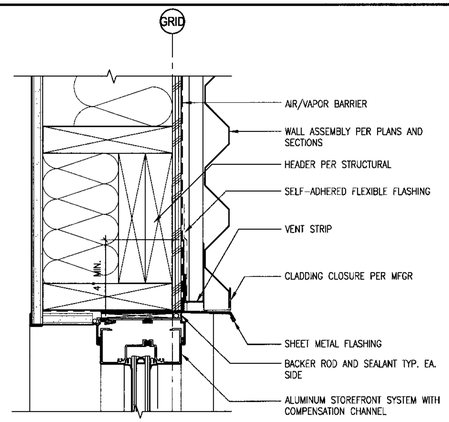


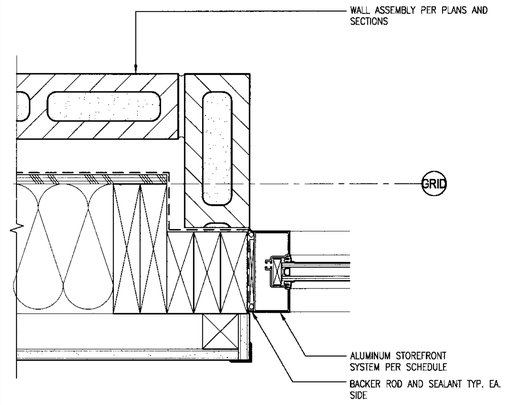
12 SF HEAD AT GLU-LAM

SCALE: 3" = 1'-0"



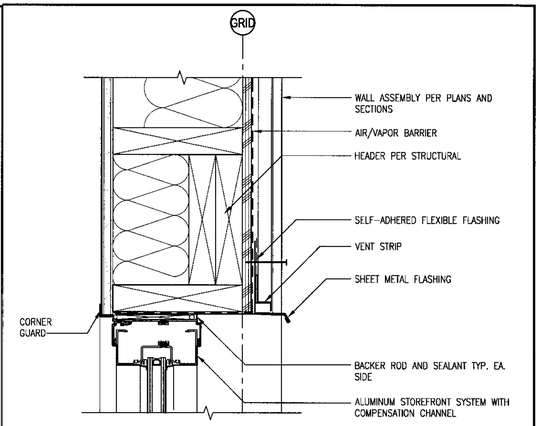
8 SF HEAD AT METAL PANEL

SCALE: 3" = 1'-0"



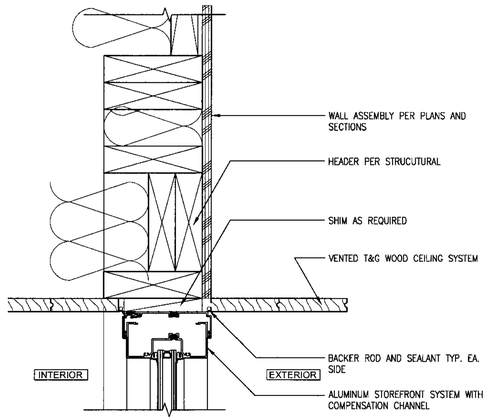
5 SF JAMB AT FURRED PILASTER (LOW)

SCALE: 3" = 1'-0"



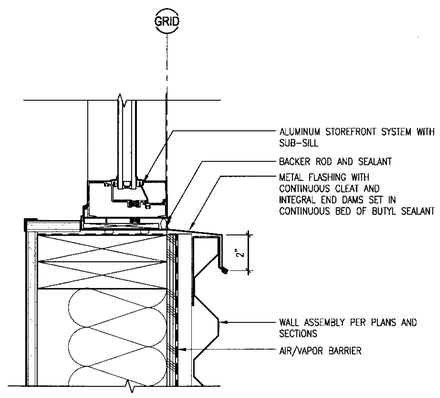
3 SF HEAD AT FIBER CEMENT

SCALE: 3" = 1'-0"



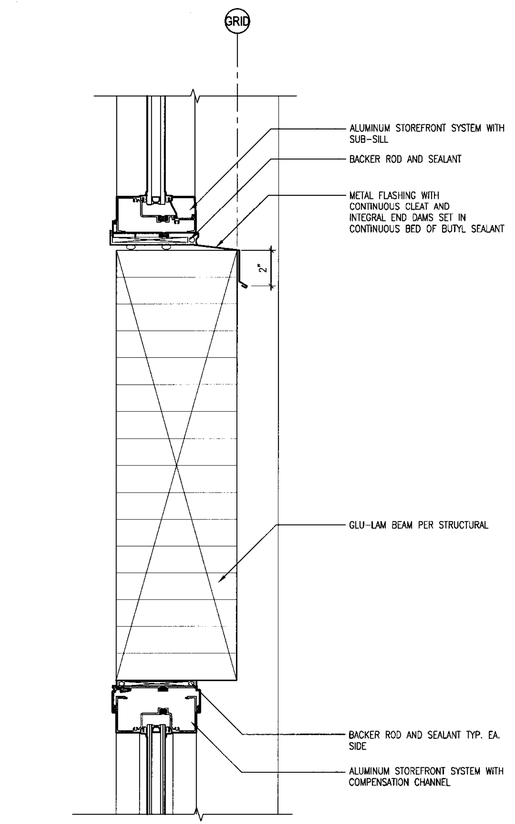
10 SF HEAD AT CMU VENEER

SCALE: 3" = 1'-0"



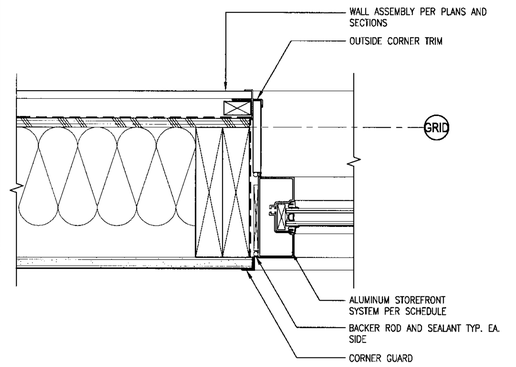
7 SF SILL AT METAL PANEL

SCALE: 3" = 1'-0"



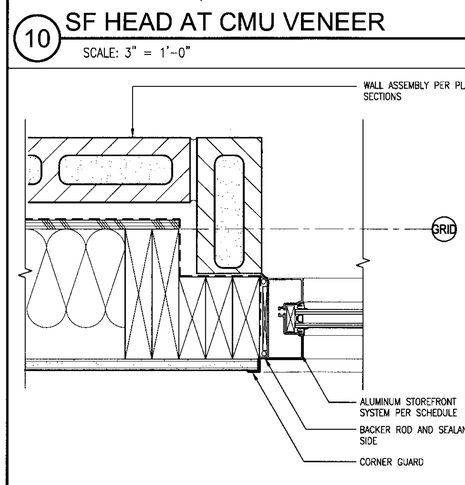
4 SF HEAD/SILL AT GLU-LAM

SCALE: 3" = 1'-0"



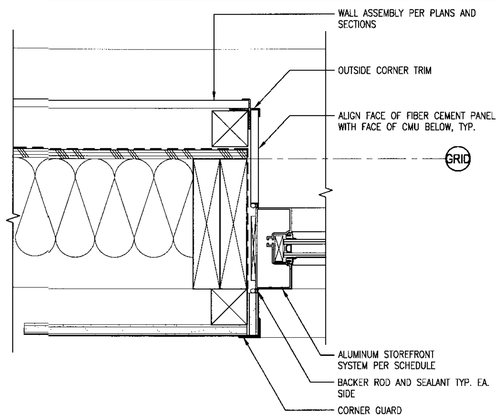
2 SF JAMB AT FIBER CEMENT

SCALE: 3" = 1'-0"



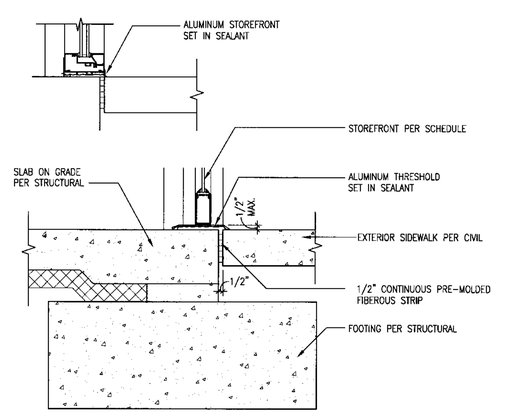
9 SF JAMB AT CMU VENEER

SCALE: 3" = 1'-0"



6 SF JAMB AT FURRED PILASTER (HIGH)

SCALE: 3" = 1'-0"



1 STOREFRONT THRESHOLD

SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
STOREFRONT DETAILS

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A3.51

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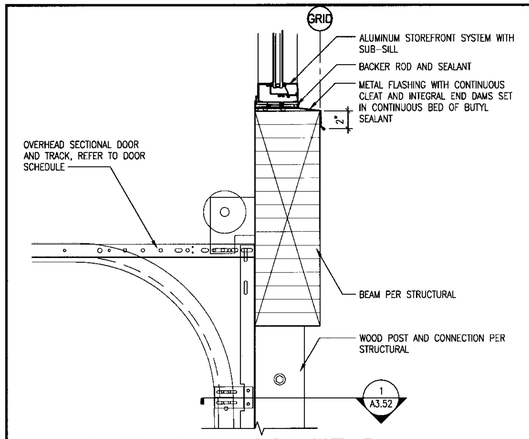
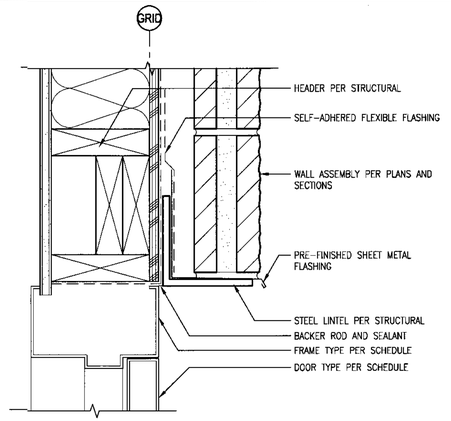


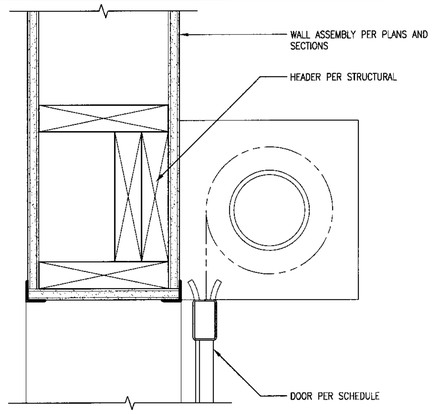
12 OVERHEAD DOOR HEAD

SCALE: 1 1/2" = 1'-0"



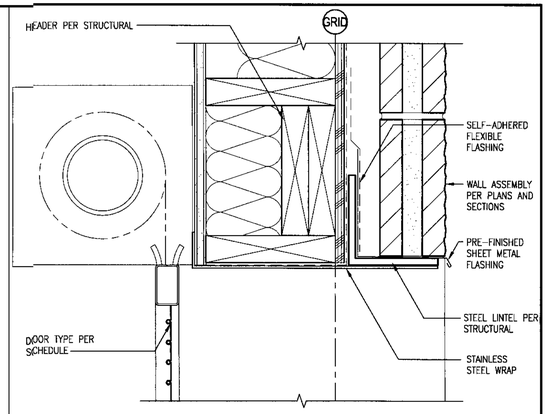
9 TYP. EXTERIOR DOOR HEAD

SCALE: 3" = 1'-0"



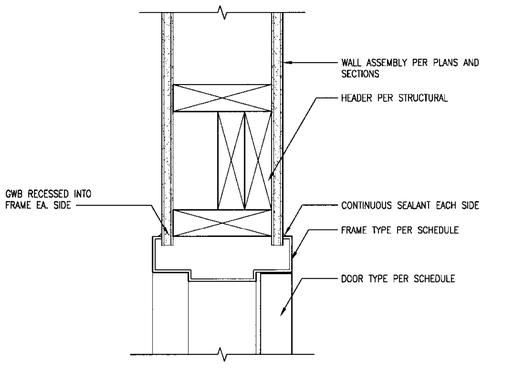
6 INTERIOR COILING DOOR HEAD

SCALE: 3" = 1'-0"



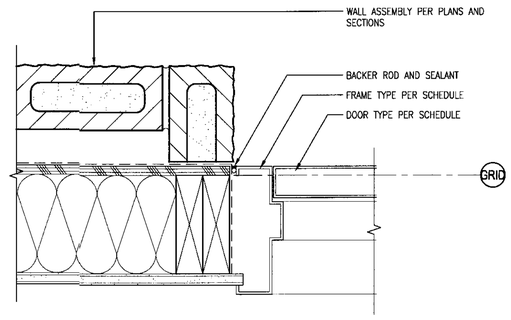
3 EXTERIOR COILING DOOR HEAD

SCALE: 3" = 1'-0"



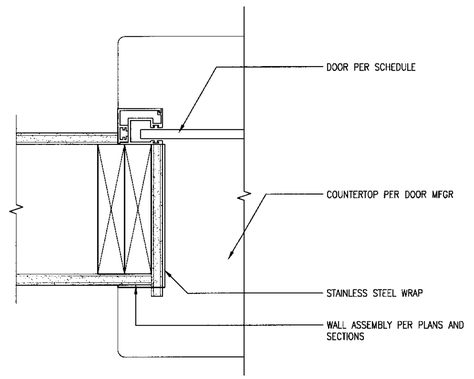
11 INTERIOR DOOR HEAD (JAMB SIM)

SCALE: 3" = 1'-0"



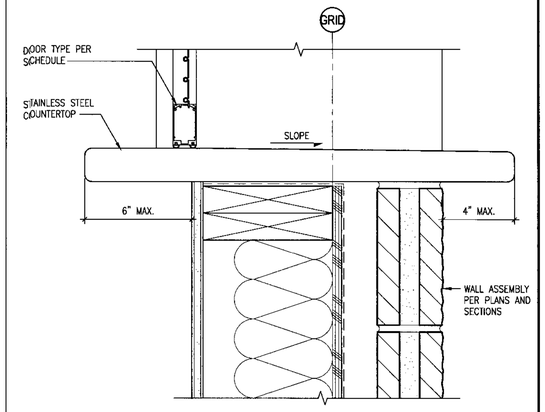
8 TYP. EXTERIOR DOOR JAMB

SCALE: 3" = 1'-0"



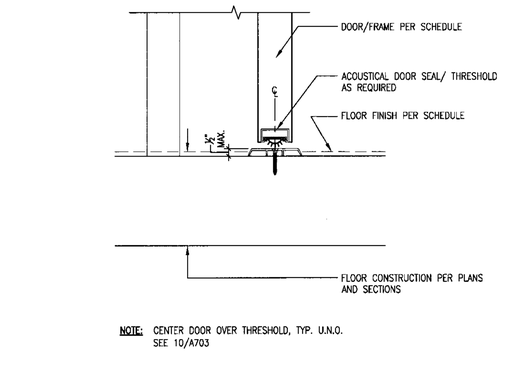
5 INTERIOR COILING DOOR JAMB

SCALE: 3" = 1'-0"



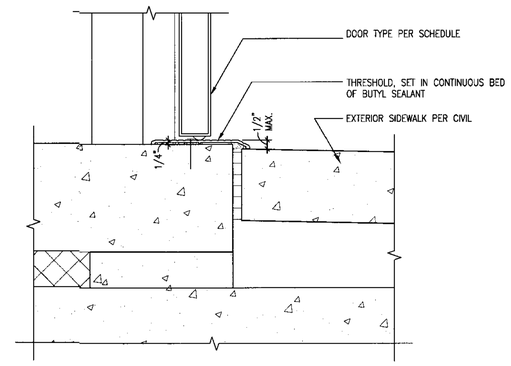
2 EXTERIOR COILING DOOR SILL

SCALE: 3" = 1'-0"



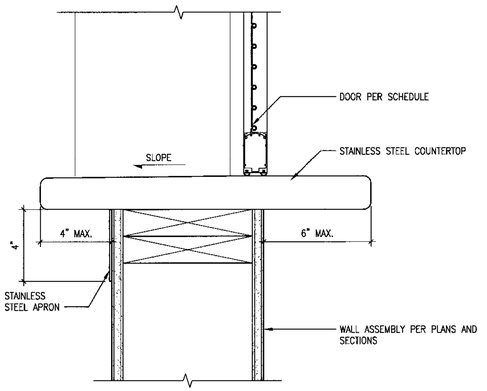
10 INTERIOR DOOR THRESHOLD

SCALE: 3" = 1'-0"



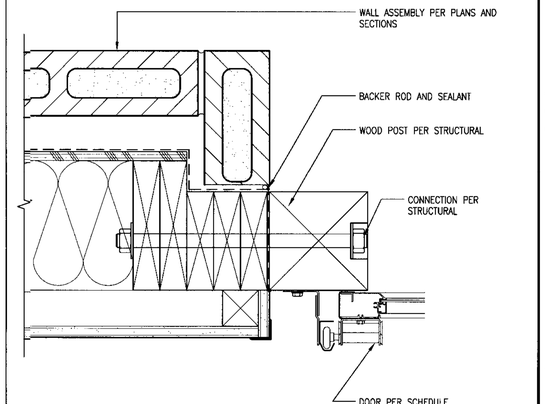
7 TYP. EXTERIOR DOOR THRESHOLD

SCALE: 3" = 1'-0"



4 INTERIOR COILING DOOR SILL

SCALE: 3" = 1'-0"



1 TYPICAL OVERHEAD DOOR JAMB

SCALE: 3" = 1'-0"

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14013-A3.51.dwg

SHEET TITLE
DOOR DETAILS

SHEET
A3.52

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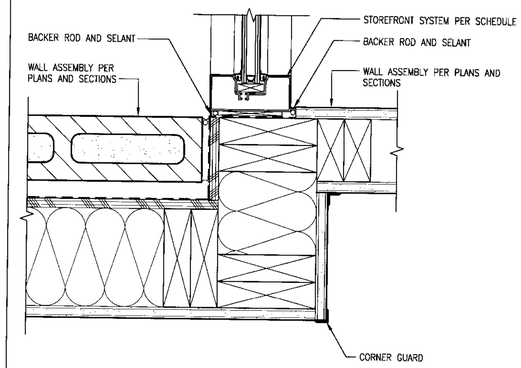
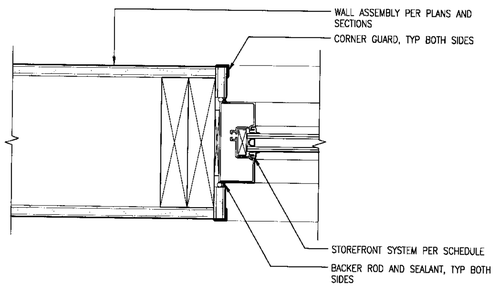


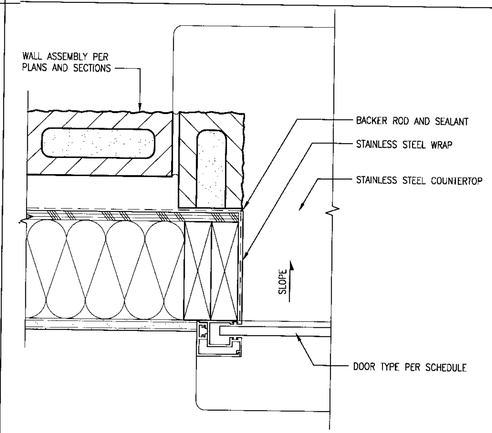
3 STOREFRONT JAMB

SCALE: 3" = 1'-0"



2 INTERIOR SF JAMB (SILL SIM)

SCALE: 3" = 1'-0"



1 EXTERIOR COILING DOOR JAMB

SCALE: 3" = 1'-0"

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SHEET TITLE
DOOR AND STOREFRONT DETAILS

SHEET
A3.53

100% CD SET

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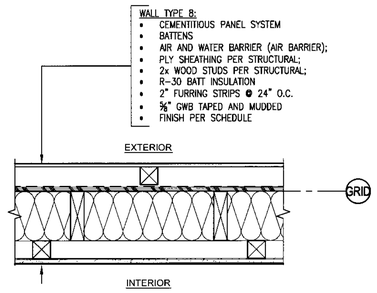
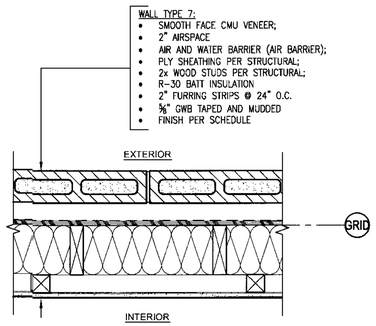
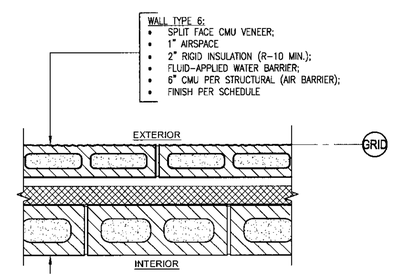


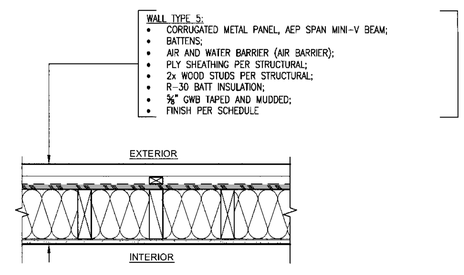
8 WALL TYPE 8
SCALE: 1 1/2" = 1'-0"



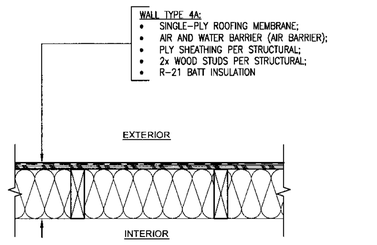
7 WALL TYPE 7
SCALE: 1 1/2" = 1'-0"



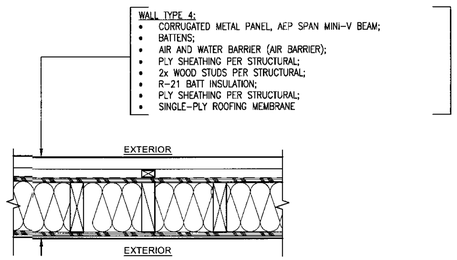
6 WALL TYPE 6
SCALE: 1 1/2" = 1'-0"



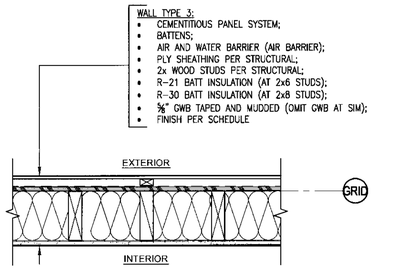
5 WALL TYPE 5
SCALE: 1 1/2" = 1'-0"



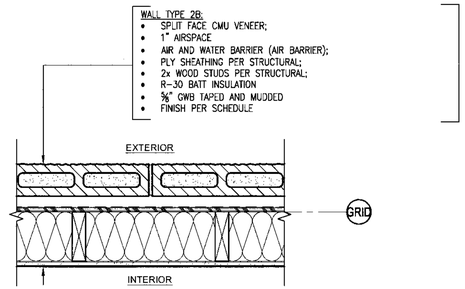
4A WALL TYPE 4A
SCALE: 1 1/2" = 1'-0"



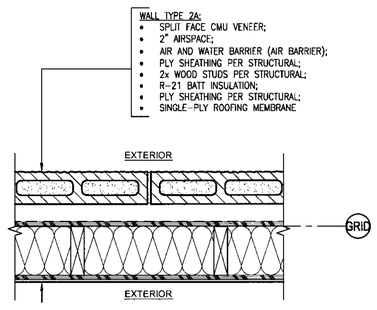
4 WALL TYPE 4
SCALE: 1 1/2" = 1'-0"



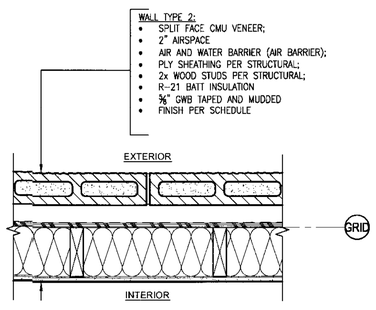
3 WALL TYPE 3
SCALE: 1 1/2" = 1'-0"



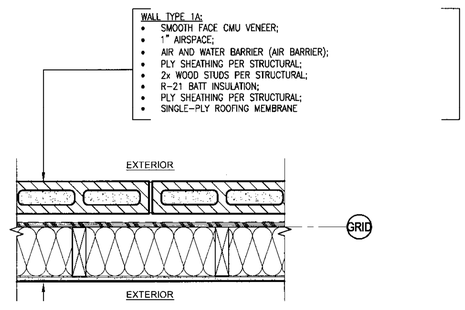
2B WALL TYPE 2B
SCALE: 1 1/2" = 1'-0"



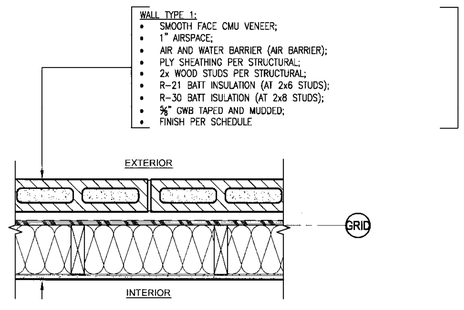
2A WALL TYPE 2A
SCALE: 1 1/2" = 1'-0"



2 WALL TYPE 2
SCALE: 1 1/2" = 1'-0"



1A WALL TYPE 1A
SCALE: 1 1/2" = 1'-0"



1 WALL TYPE 1
SCALE: 1 1/2" = 1'-0"

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14013-A4.01.dwg

SHEET TITLE
WALL ASSEMBLIES

SHEET
A4.01

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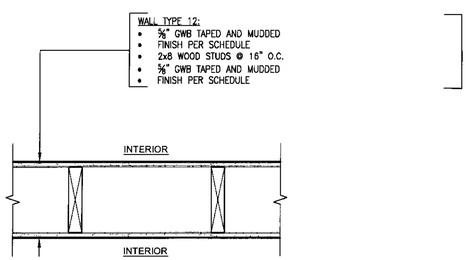
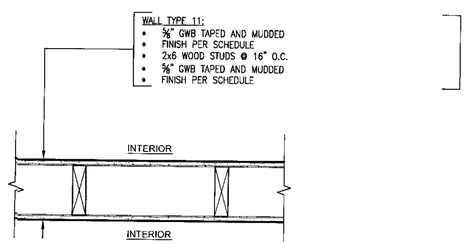
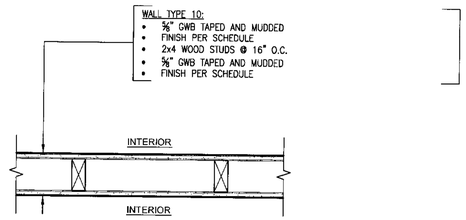


12 WALL TYPE 12
SCALE: 1 1/2" = 1'-0"



11 WALL TYPE 11
SCALE: 1 1/2" = 1'-0"



10 WALL TYPE 10
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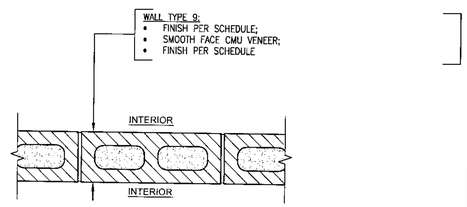
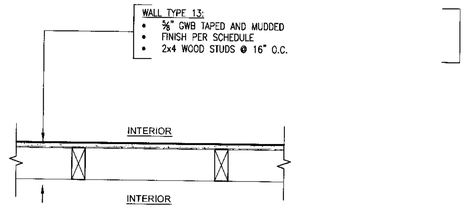


9 WALL TYPE 9
SCALE: 1 1/2" = 1'-0"



13 WALL TYPE 13
SCALE: 1 1/2" = 1'-0"

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14013-A4.02.dwg
SHEET TITLE
WALL ASSEMBLIES

SHEET
A4.02

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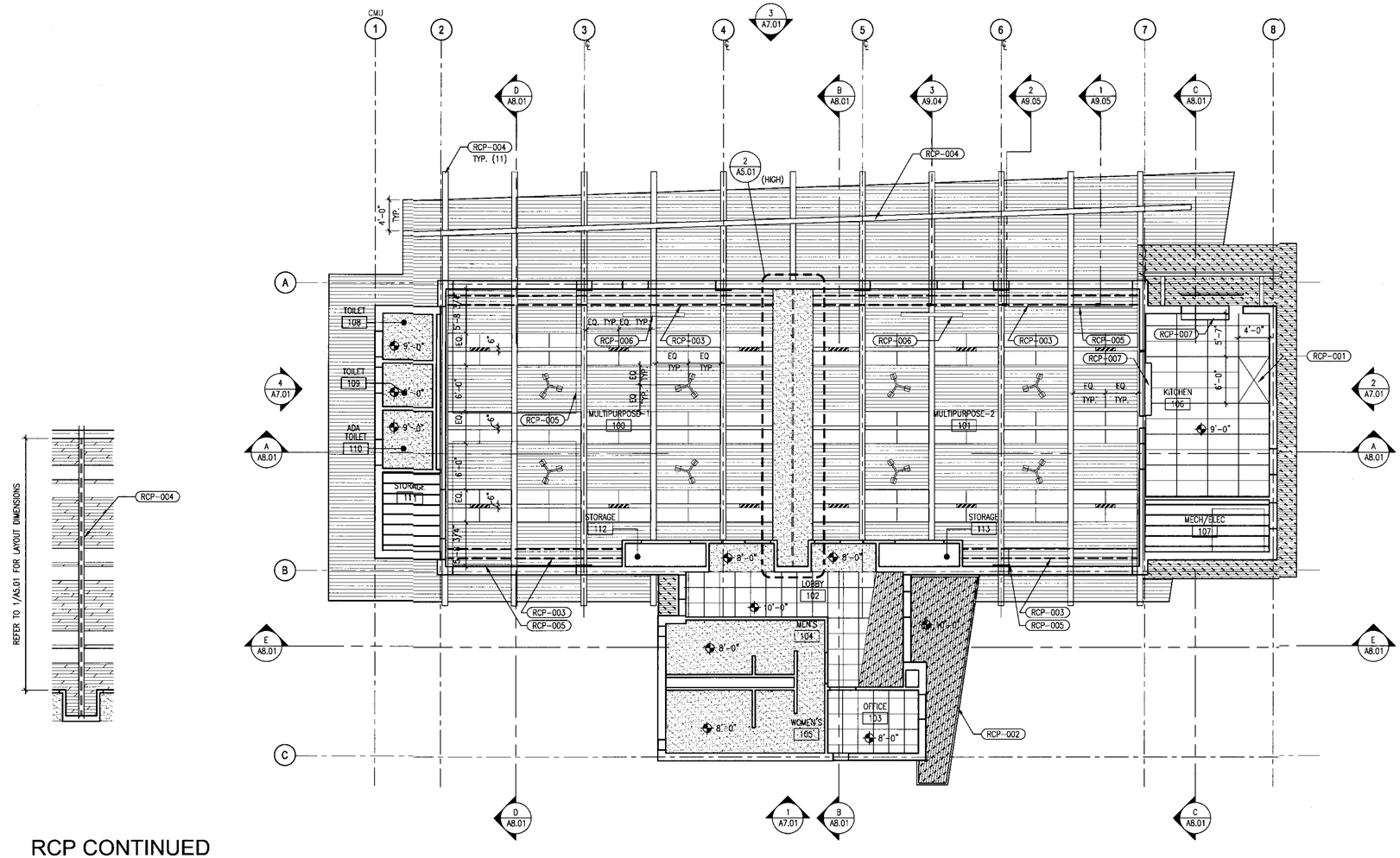

2 RCP CONTINUED SOFFIT ABOVE

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

1 REFLECTED CEILING PLAN

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

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

NORTH

REFLECTED CEILING PLAN NOTES:

1. FINISH CEILING HEIGHTS ARE MEASURED FROM THE FINISH FLOOR OF LEVEL INDICATED ON THE DRAWING TITLE.
2. CENTER LIGHTS WITHIN CEILING GRID OR CEILING PANELS UNLESS NOTED OTHERWISE.
3. ALL EXPOSED DUCT, CONDUIT, PIPE, ETC IS TO BE PAINTED. SEE MECHANICAL, ELECTRICAL, PLUMBING AND SPECIFICATION DRAWINGS FOR LOCATIONS OF EXPOSED DUCTS, CONDUIT, PIPE, ETC, FOR PAINTING.
4. SEE ELECTRICAL FOR LIGHTING LAYOUT AND LIGHT FIXTURE SPECIFICATIONS.
5. PROVIDE CEILING ACCESS PANELS TO ALL PLUMBING VALVES.

REFLECTED CEILING PLAN KEYNOTES:

RCP-001	TYPE I HOOD
RCP-002	STEEL CANOPY
RCP-003	EXPOSED DUCTWORK PER MECHANICAL
RCP-004	BEAM PER STRUCTURAL
RCP-005	GARAGE DOOR
RCP-006	CEILING MOUNT PROJECTOR SCREEN, MOUNT PER MFGR'S INSTRUCTIONS. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
RCP-007	PROVIDE MINIMUM HEADROOM CLEARANCES PER DOOR MFGR'S REQUIREMENTS.

REFLECTED CEILING PLAN SYMBOL LEGEND:

- SUSPENDED ACOUSTICAL CEILING TILE (ACT-1)
- SUSPENDED ACOUSTICAL CEILING TILE (ACT-2)
- EXPOSED STRUCTURE
- 3x6 CAR DECKING (PER STRUCTURAL.) FOLLOW HATCH DIRECTION
- LINEAR WOOD CEILING SYSTEM (LWCS)
- ACOUSTIC CEILING PANEL (ACP-1)
- GWB CEILING
- 3-LIGHT PENDANT FIXTURE
- 3-LIGHT COMBO FIXTURE

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REFLECTED CEILING PLAN

SHEET
A5.01

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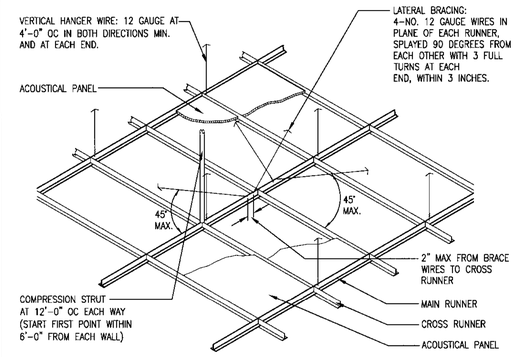
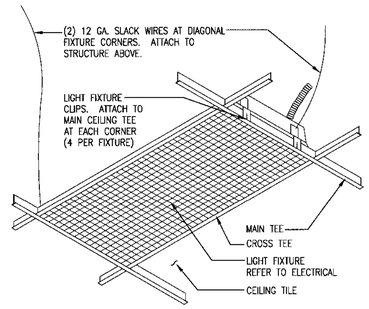


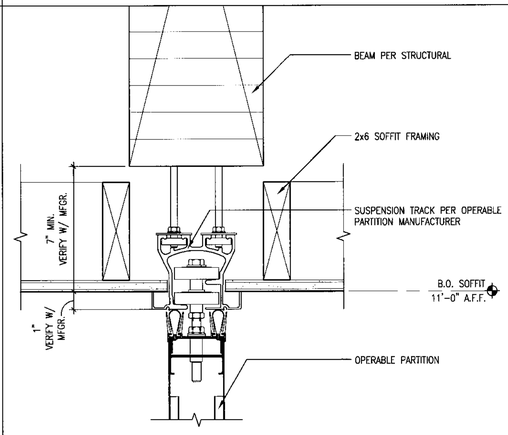
3 SUSPENDED CEILING TILE

SCALE: 3" = 1'-0"



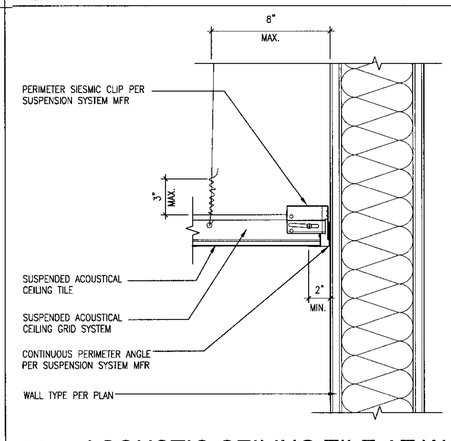
2 LAY-IN LIGHT FIXTURE

SCALE: 1 1/2" = 1'-0"



4 OPERABLE PARTITION TRACK

SCALE: 3" = 1'-0"



1 ACOUSTIC CEILING TILE AT WALL

SCALE: 3" = 1'-0"

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SHEET TITLE
CEILING DETAILS

SHEET
A5.51

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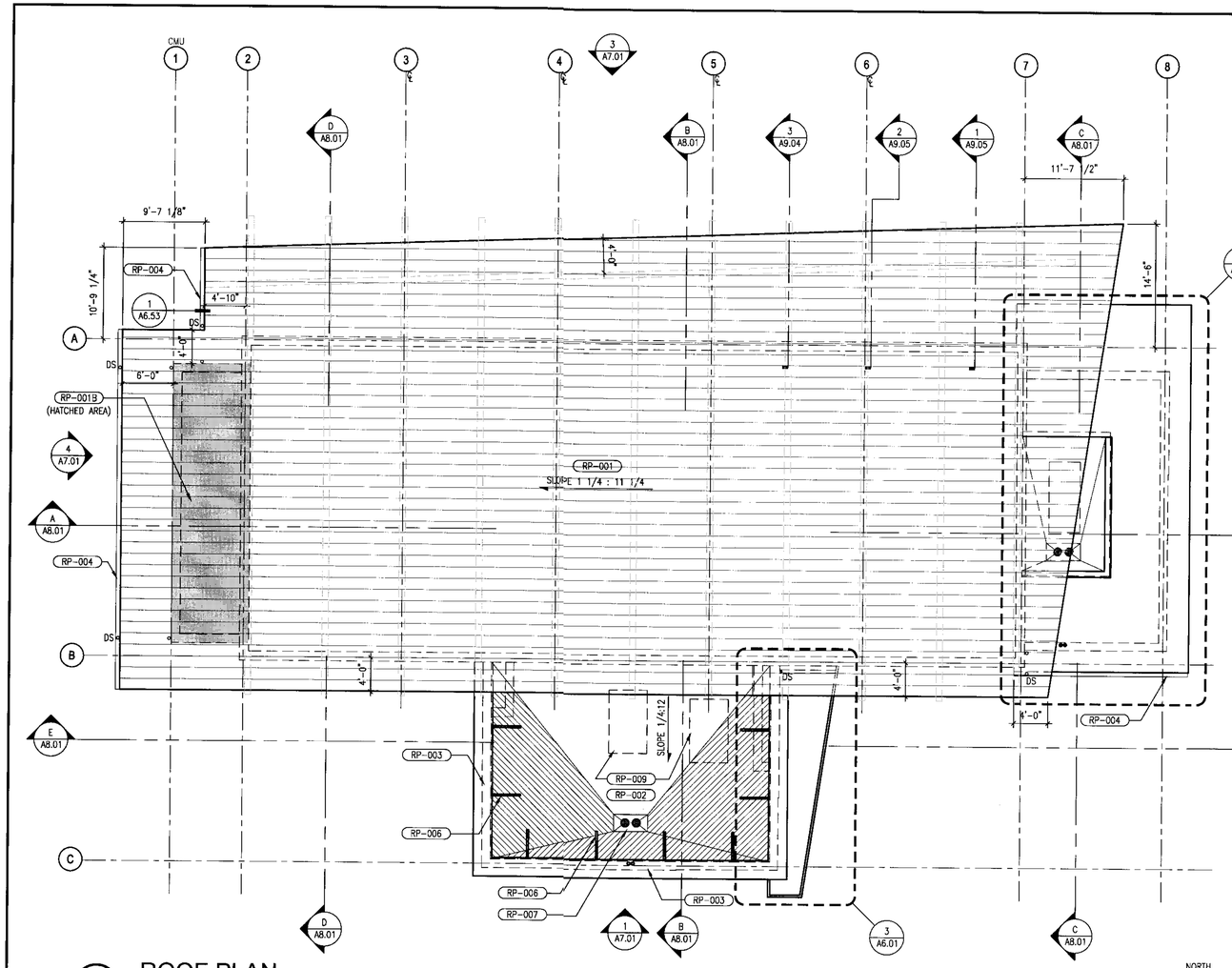
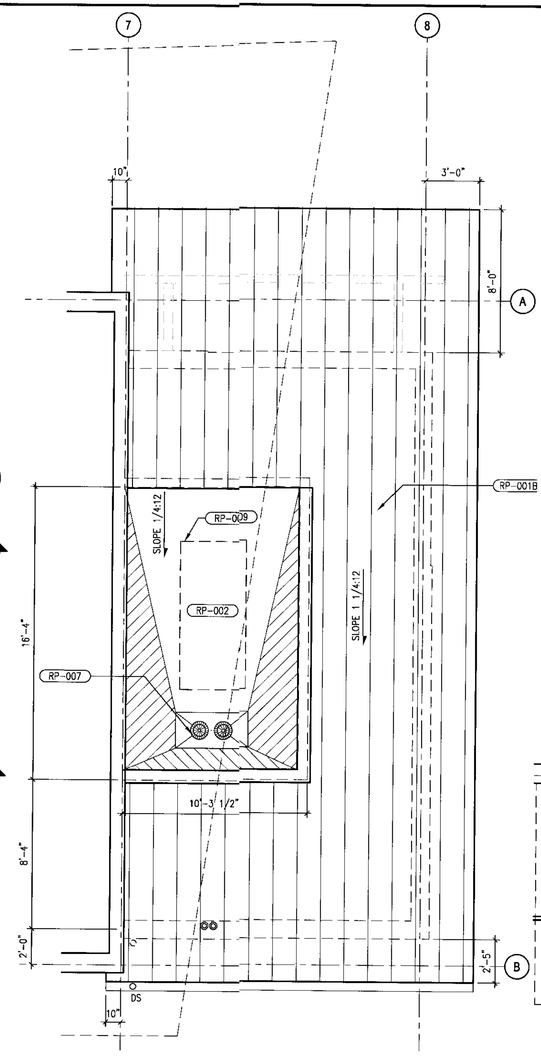


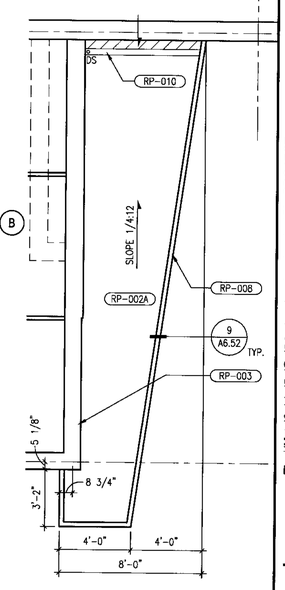
1 ROOF PLAN

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



2 PARTIAL ROOF PLAN

SCALE: 1/4" = 1'-0"



3 CANOPY PLAN

SCALE: 1/4" = 1'-0"

ROOF PLAN NOTES:

1. ROOF SLOPES SHOWN ARE MINIMUMS
2. VERIFY THE LOCATION OF ALL ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS

ROOF DRAIN SIZING:

ARCHITECTURAL SHEET METAL MANUAL SIXTH EDITION:
PER TABLES 1-2 CALCULATED ROOF AREA DRAINED PER DOWNSPOUT AREA = 360 (FOR STORMS WHICH SHOULD EXCEEDED ONLY ONCE IN 100 YEARS)

METAL ROOF ASSEMBLIES:
MAIN ROOF AREA = 5,949SF/360 SI=16.5 SI TOTAL
3 DRAINS ARE PROVIDED WITH 8.6 SI EACH (16.5/3)
PER UPC TABLE 1-3 FOR PLAIN ROUND PIPES, 4" DIA. PIPES ARE SELECTED.

KITCHEN ROOF AREA = 696SF/360 SF/SF=1.9 SI TOTAL
1 DRAIN IS PROVIDED WITH 8.6 SI EACH (1.9/1)
PER UPC TABLE 1-3 FOR PLAIN ROUND PIPES, 4" DIA. PIPES ARE SELECTED.

SINGLE-PLY ROOF ASSEMBLIES:
OFFICE ROOF AREA = 713SF/360 SF/SI=1.9 SI TOTAL
1 ROOF AND OVERFLOW DRAIN IS PROVIDED WITH 8.6 SI EACH (1.9/1)
PER UPC TABLE 1-3 FOR PLAIN ROUND PIPES, 4" DIA. PIPES ARE SELECTED.

MECHANICAL WELL ROOF AREA = 154SF/360 SF/SI=0.44 SI TOTAL
1 ROOF AND OVERFLOW DRAIN IS PROVIDED WITH 8.6 SI EACH (0.3/1)
PER UPC TABLE 1-3 FOR PLAIN ROUND PIPES, 4" DIA. PIPES ARE SELECTED.

ENTRY CANOPY ROOF AREA = 158SF/360 SF/SI=0.43 SI TOTAL
1 ROOF AND OVERFLOW DRAIN IS PROVIDED WITH 8.6 SI EACH (0.3/1)
PER UPC TABLE 1-3 FOR PLAIN ROUND PIPES, 4" DIA. PIPES ARE SELECTED.

ROOF PLAN KEYNOTES:

RP-001	STANDING SEAM METAL ROOF CONSTRUCTION (NON-RATED): STANDING SEAM METAL ROOF SYSTEM; SHEATHING PER STRUCTURAL; R-30 (MIN) RIGID INSULATION; AIR BARRIER; ROOF DECKING PER STRUCTURAL ROOF FRAMING PER STRUCT.
RP-001B	STANDING SEAM METAL ROOF CONSTRUCTION (NON-RATED): STANDING SEAM METAL ROOF SYSTEM; PLYWOOD SHEATHING PER STRUCTURAL; ROOF FRAMING PER STRUCTURAL; R-30 (MIN) RIGID INSULATION (BETWEEN JOISTS); AIR BARRIER; ⅝" GWB; R-15 BATT INSULATION
RP-002	SINGLE-PLY MEMBRANE ROOF CONSTRUCTION (NON-RATED): FULLY ADHERED SINGLE-PLY ROOF MEMBRANE; COVER BOARD; R-30 RIGID INSULATION; AIR/VAPOR BARRIER; PLYWOOD SHEATHING PER STRUCT.; ROOF FRAMING PER STRUCT.
RP-002A	SINGLE-PLY MEMBRANE ROOF CONSTRUCTION (NON-RATED): FULLY ADHERED SINGLE-PLY ROOF MEMBRANE; COVER BOARD; 1" RIGID FOAM INSULATION; METAL ROOF DECKING PER STRUCTURAL; ROOF FRAMING PER STRUCTURAL; VENTED WOOD T&G SOFFIT

RP-003	PARAPET
RP-004	GUTTER
RP-005	TAPERED INSULATION CRICKET AT SLOPE SHOWN
RP-006	PARAPET BRACING REFER TO 3/A6.53
RP-007	ROOF AND OVERFLOW DRAIN, REFER TO 5/A6.52
RP-008	CANOPY
RP-009	ROOF UNIT PER MECHANICAL
RP-010	INTERNAL GUTTER

ROOF PLAN SYMBOL LEGEND:

TAPERED INSULATION CRICKET AT SLOPE SHOWN

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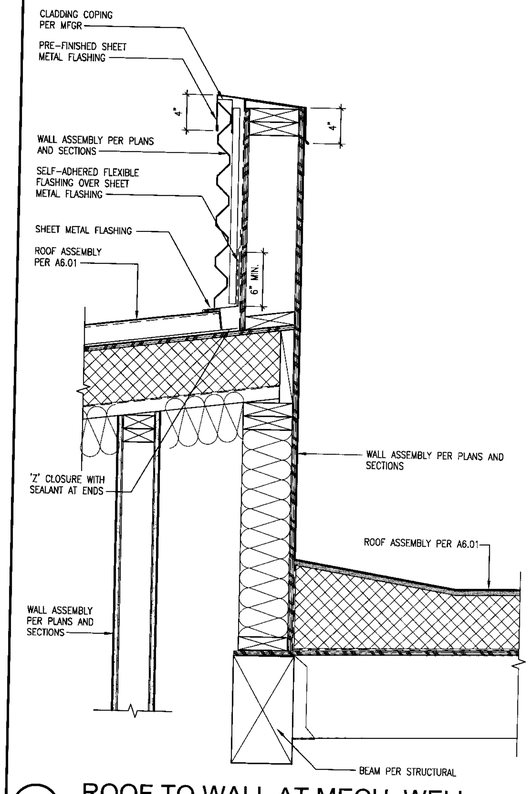
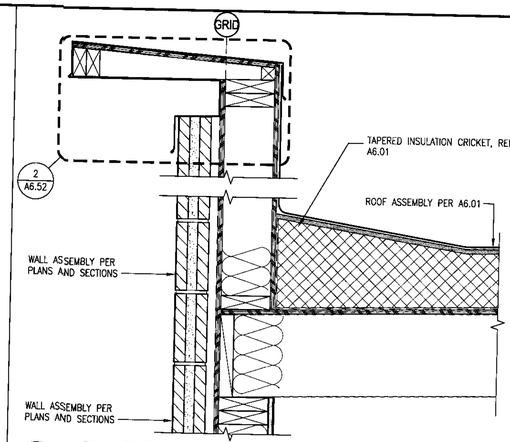


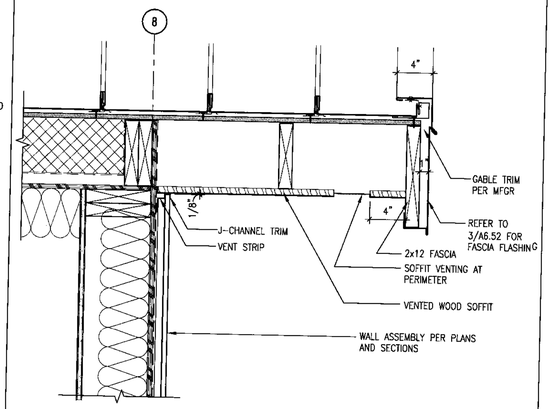
10 ROOF TO WALL AT MECH. WELL

SCALE: 1 1/2" = 1'-0"



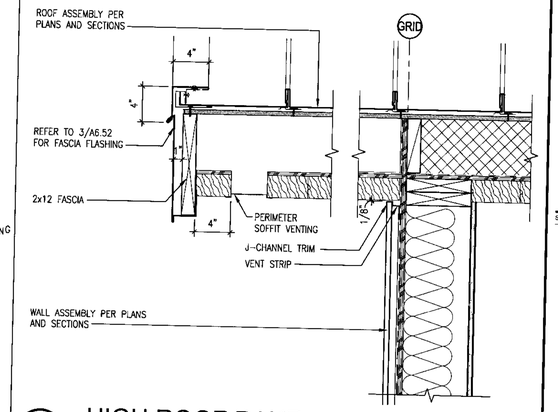
8 TYPICAL PARAPET

SCALE: 1 1/2" = 1'-0"



6 RAKE AT KITCHEN/MECHANICAL

SCALE: 1 1/2" = 1'-0"

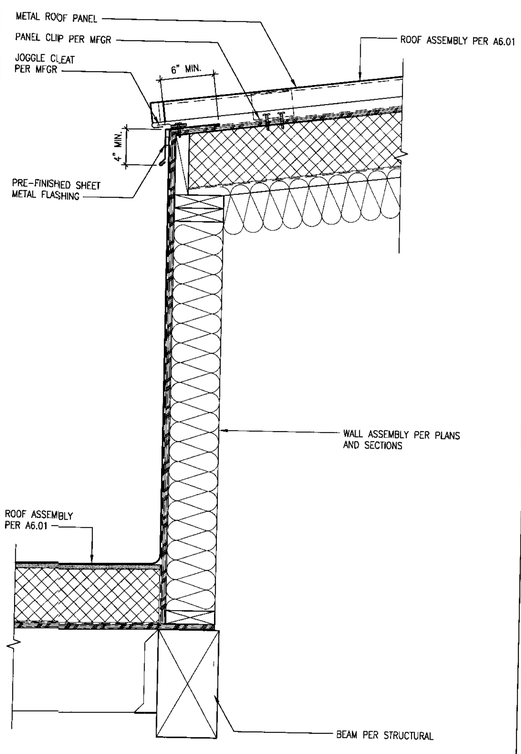


3 HIGH ROOF RAKE

SCALE: 1 1/2" = 1'-0"

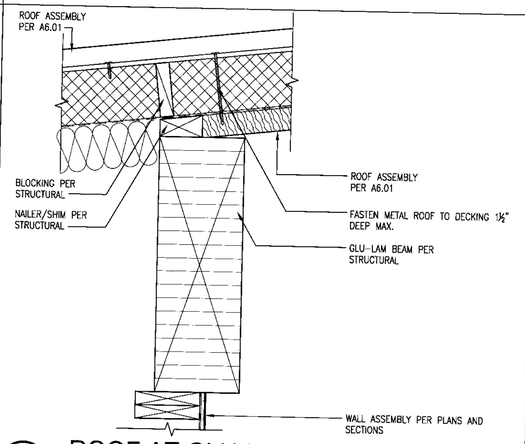
9 EAVE AT MECHANICAL

SCALE: 1 1/2" = 1'-0"



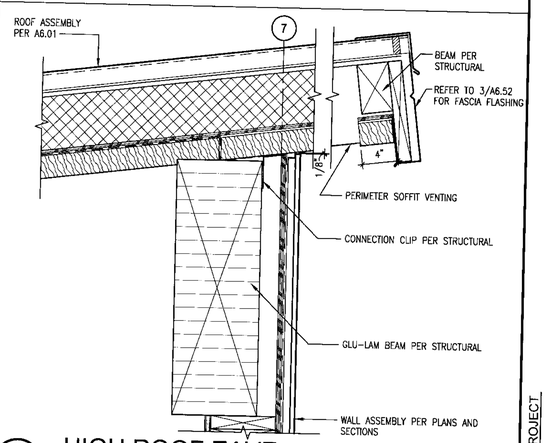
7 ROOF TO WALL AT MECH. WELL

SCALE: 1 1/2" = 1'-0"



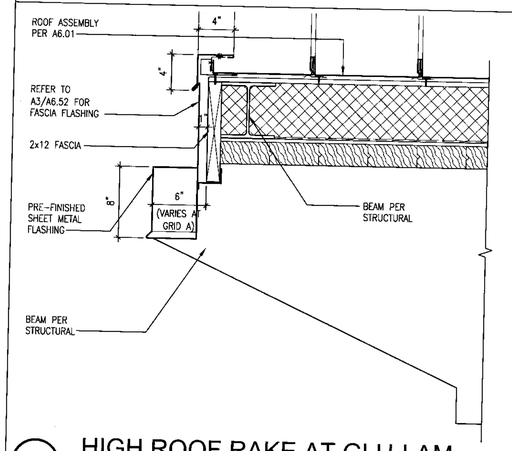
5 ROOF AT GLU-LAM BEAM

SCALE: 1 1/2" = 1'-0"



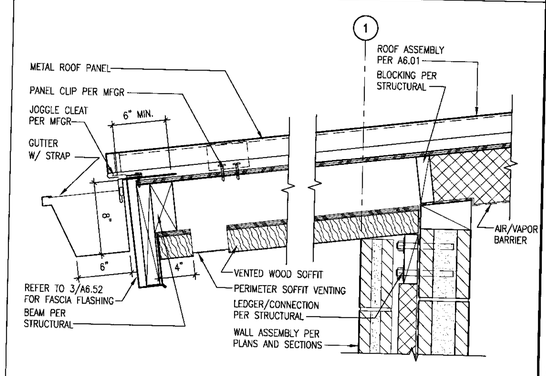
2 HIGH ROOF EAVE

SCALE: 1 1/2" = 1'-0"



4 HIGH ROOF RAKE AT GLU-LAM

SCALE: 1 1/2" = 1'-0"



1 HIGH ROOF LOW EAVE

SCALE: 1 1/2" = 1'-0"

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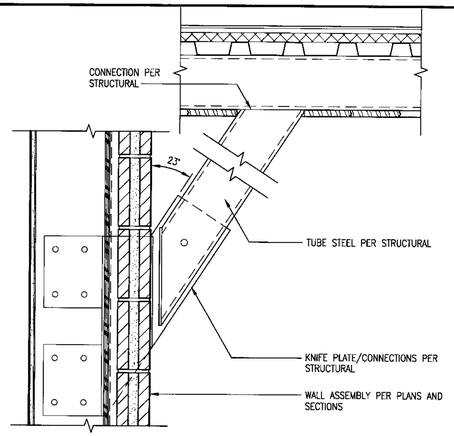
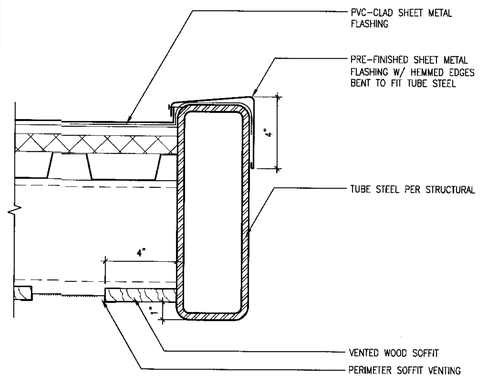


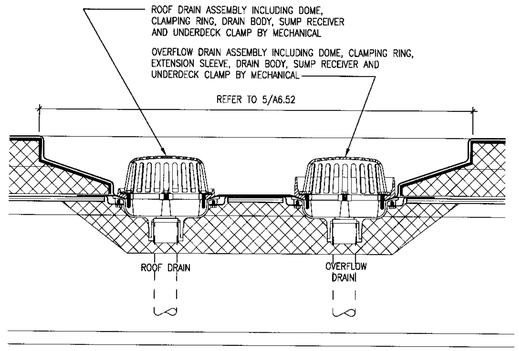
12 CANOPY SUPPORT DETAIL

SCALE: 1 1/2" = 1'-0"



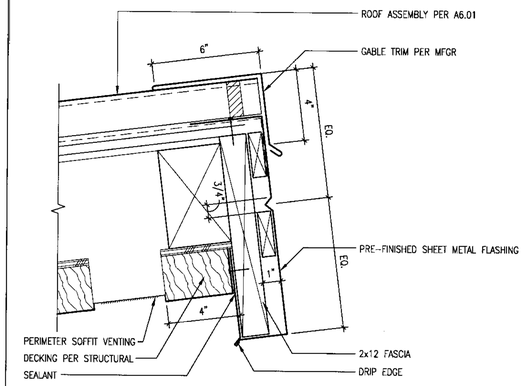
9 CANOPY EDGE DETAIL

SCALE: 3" = 1'-0"



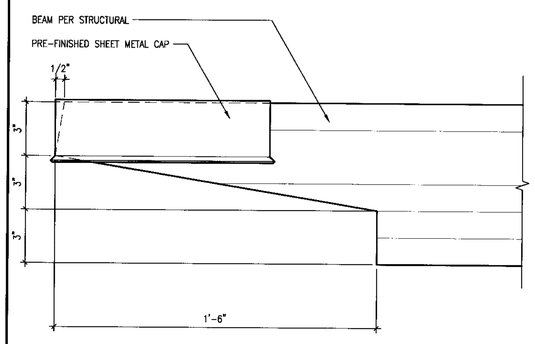
6 ROOF DRAIN AND OVERFLOW

SCALE: 1 1/2" = 1'-0"



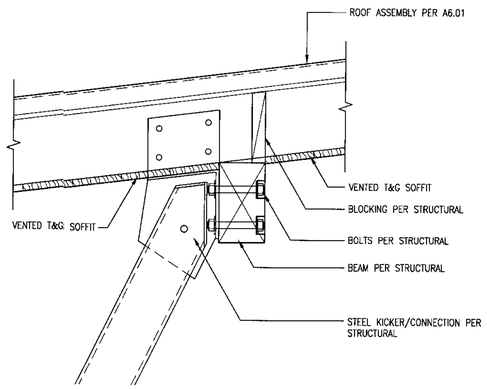
3 TYPICAL FLASHING AT FASCIA

SCALE: 3" = 1'-0"



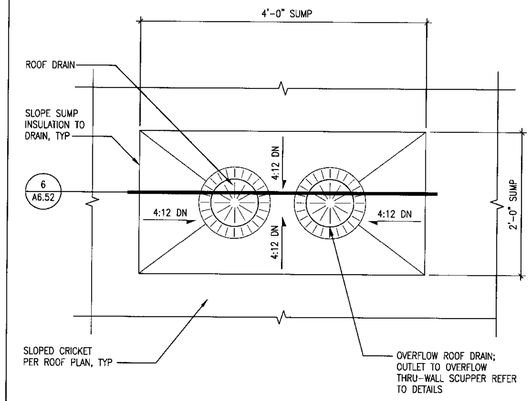
11 GLU-LAM PROFILE AT KITCHEN

SCALE: 3" = 1'-0"



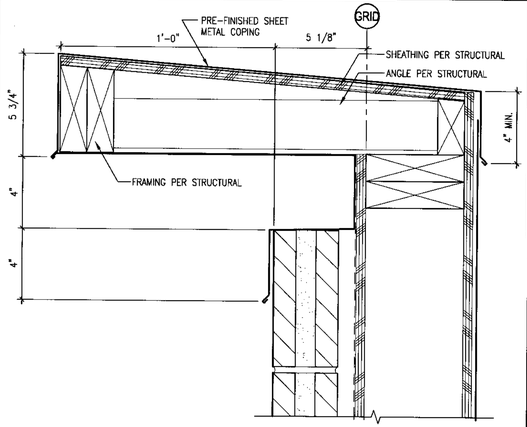
8 STEEL KICKER AT KITCHEN ROOF

SCALE: 1 1/2" = 1'-0"



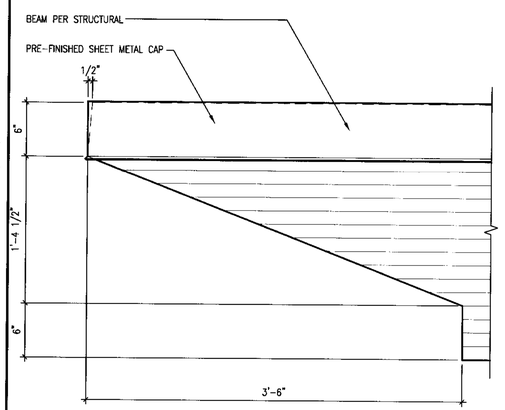
5 ROOF DRAIN SUMP DETAIL

SCALE: 1" = 1'-0"



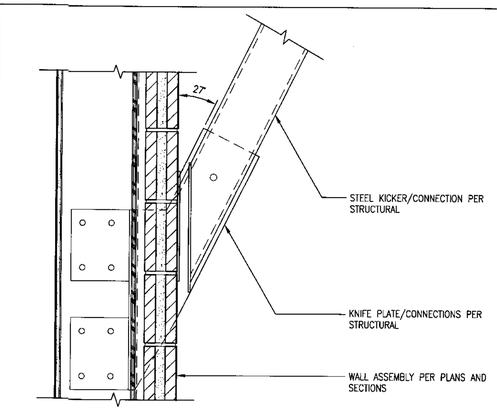
2 PARAPET COPING DETAIL

SCALE: 3" = 1'-0"



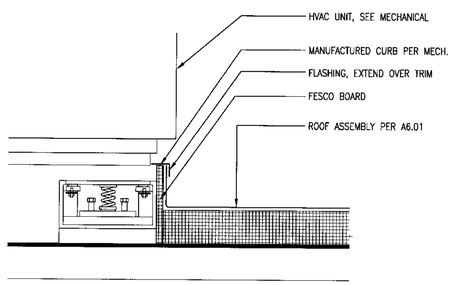
10 TYPICAL GLU-LAM PROFILE

SCALE: 1 1/2" = 1'-0"



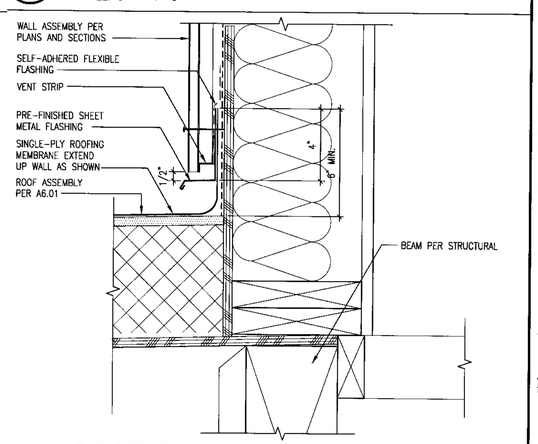
7 STEEL KICKER AT CMU VENEER

SCALE: 1 1/2" = 1'-0"



4 MECHANICAL UNIT CURB

SCALE: 3/4" = 1'-0"



1 ROOF TO WALL TRANSITION

SCALE: 3" = 1'-0"

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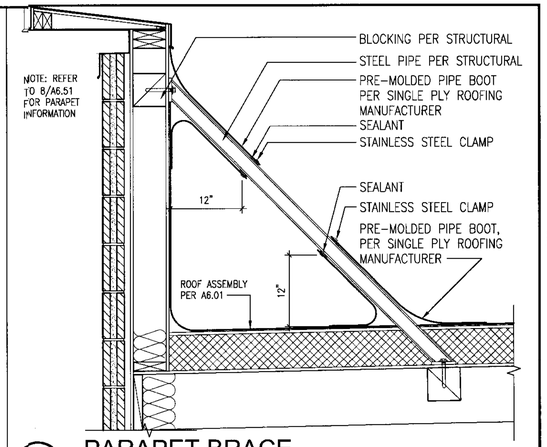
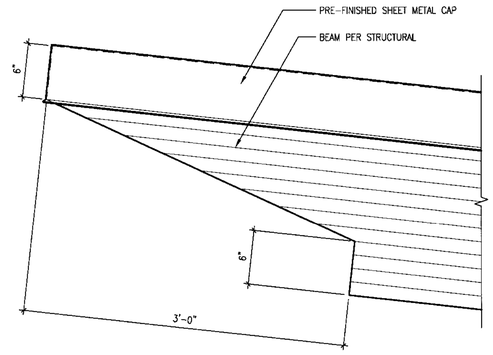


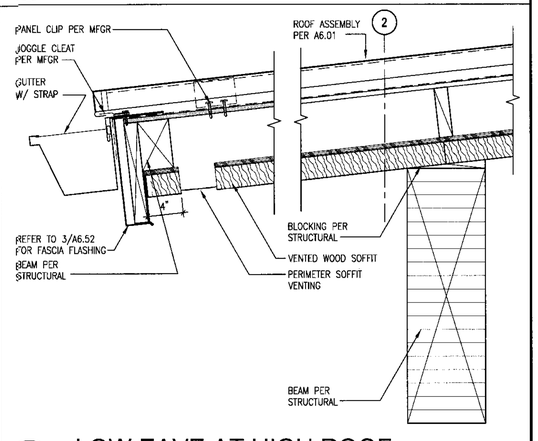
3 PARAPET BRACE

SCALE: 1" = 1'-0"



2 GLU-LAM PROFILE

SCALE: 1 1/2" = 1'-0"



1 LOW EAVE AT HIGH ROOF

SCALE: 1 1/2" = 1'-0"

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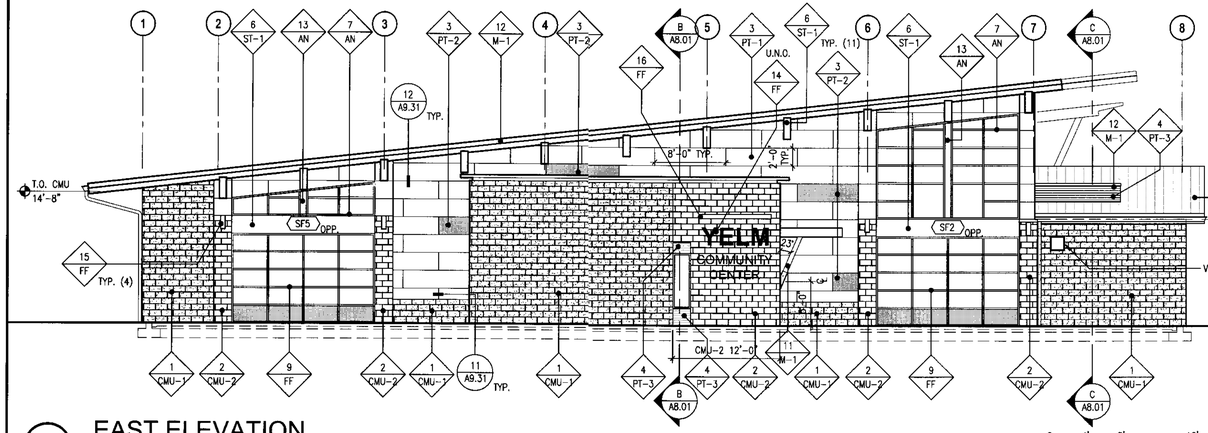
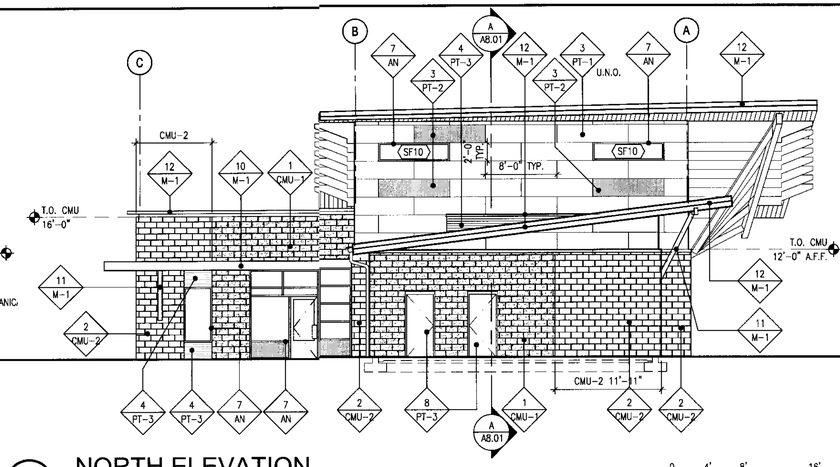


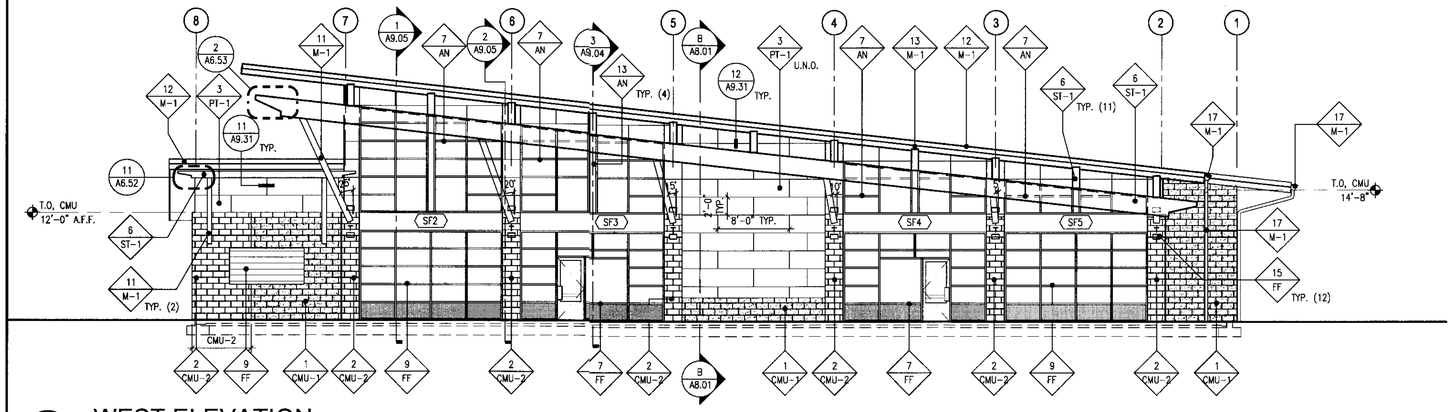
1 EAST ELEVATION

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



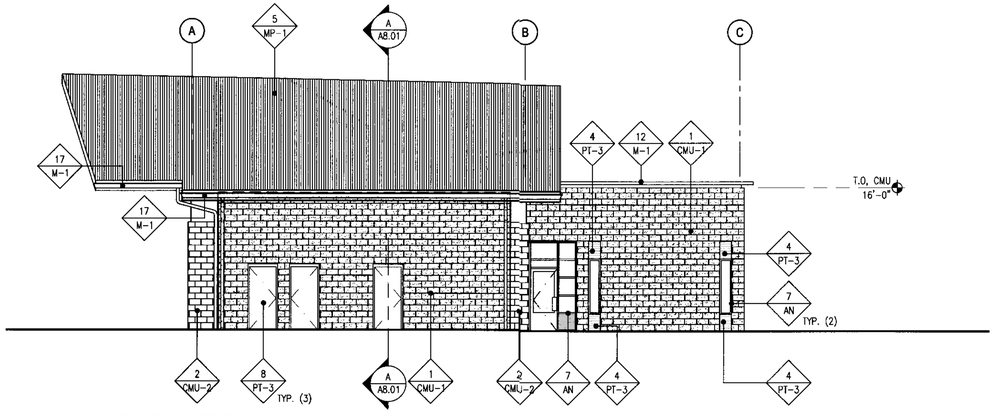
2 NORTH ELEVATION

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



3 WEST ELEVATION

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



4 SOUTH ELEVATION

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

EXTERIOR ELEVATION GENERAL NOTES
1. XXX

EXTERIOR MATERIAL AND FINISH SCHEDULE			
MATERIAL		FINISH	
1	SPLIT FACE CMU	AN	CLEAR ANNODIZED
2	GROUND FACE CMU	CMU-1	CONCRETE MASONRY UNIT 1: MUTUAL MATERIALS "CHARCOAL"
3	FIBER CEMENT PANEL RAINSCREEN	CMU-2	CONCRETE MASONRY UNIT 2: MUTUAL MATERIALS "NATURAL"
4	AEP SPAN MINI V-BEAM	MP-1	METAL PANEL COLOR 1: AEP SPAN COLOR "COOL ZACTIQUE II"
5	STANDING SEAM METAL ROOF SYSTEM		
6	GLU-LAM BEAM		
7	ALUMINUM STOREFRONT	PT-1	SHERWIN WILLIAMS: SW6121 "WHOLE WHEAT"
8	EXTERIOR HOLLOW METAL DOOR	PT-2	SHERWIN WILLIAMS: SW6123 "BAGUETTE"
9	EXTERIOR ROLL-UP DOOR	PT-3	SHERWIN WILLIAMS: SW6328 "FIREWEED"
10	STEEL CANOPY	M-1	SHEET METAL FLASHING/TRIM AND PAINTED STEEL: PAINT TO MATCH AEP SPAN COLOR "COOL ZACTIQUE II"
11	STEEL ROOF/CANOPY SUPPORT	ST-1	STAIN AND SEAL COLOR: OLYMPIC SEMI-TRANSPARENT STAIN #717 "NATURALTONE REDWOOD"
12	METAL TRIM		
13	STOREFRONT COLUMN WRAP		
14	SIGNAGE		
15	EXTERIOR WALL MOUNT LIGHTING: REFER TO ELECTRICAL DRAWINGS		
16	SIGNAGE LIGHTING: REFER TO ELECTRICAL DRAWINGS		
17	GUTTER AND DOWNSPOUT		

ABBREVIATIONS	
AN	ANODIZED
CJ	CONTROL JOINT
FF	FACTORY FINISH
MP	METAL PANEL
PT	PAINT
SM	SHEET METAL
ST	STAIN

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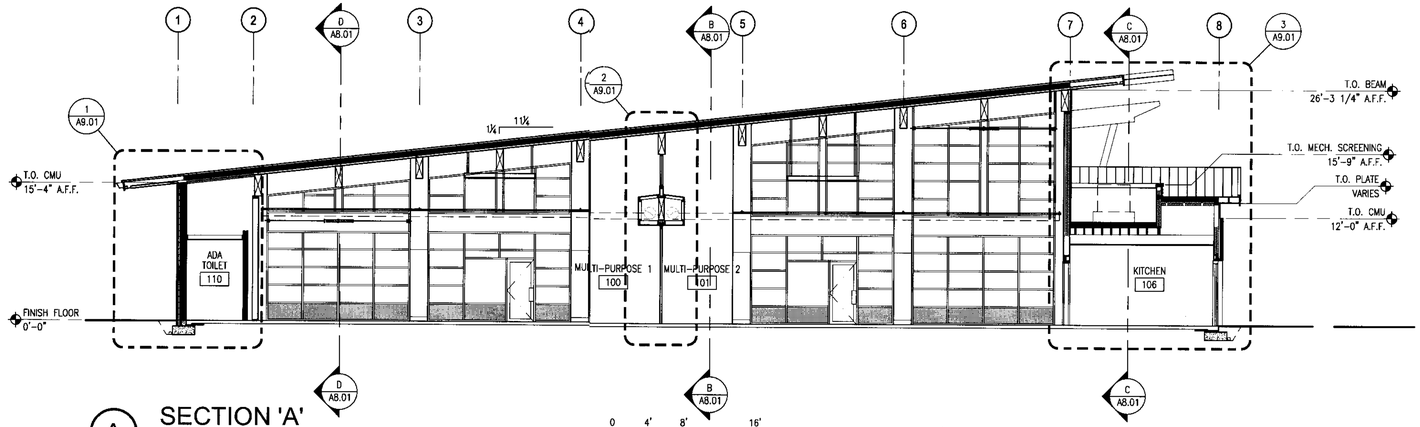
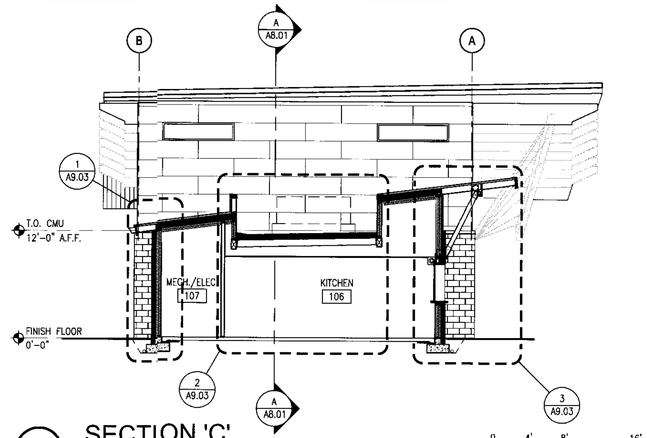


A SECTION 'A'

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

0 4' 8' 16'

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

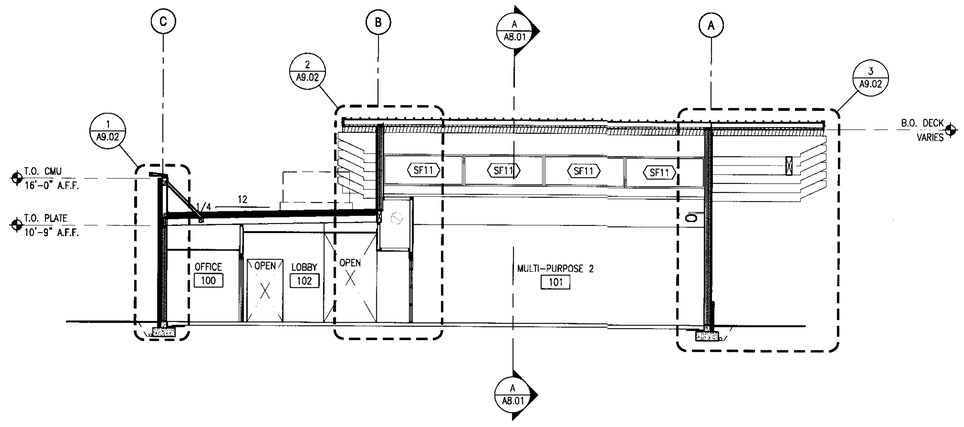


C SECTION 'C'

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

0 4' 8' 16'

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

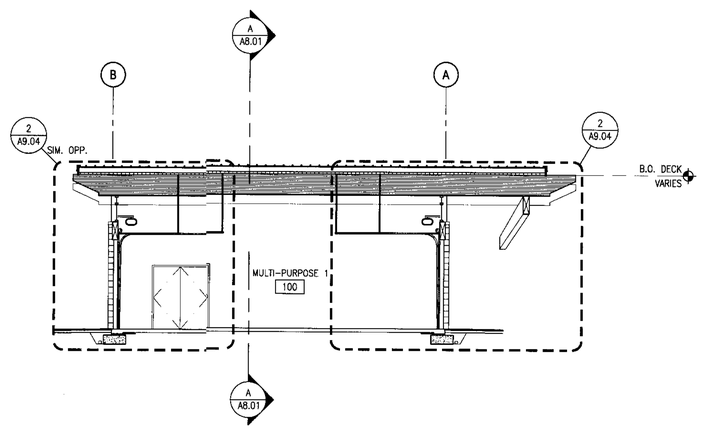


B SECTION 'B'

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

0 4' 8' 16'

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

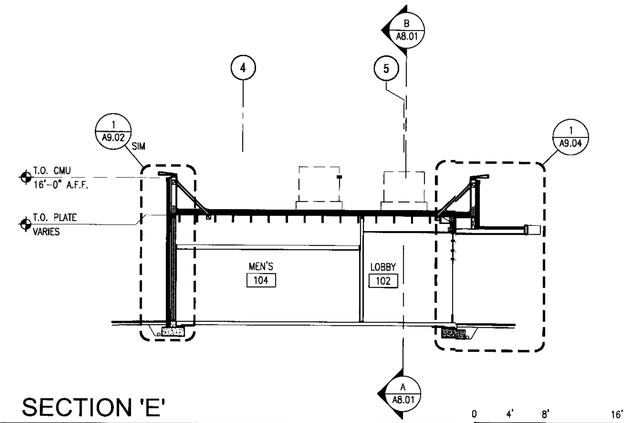


D SECTION 'D'

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

0 4' 8' 16'

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



E SECTION 'E'

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

0 4' 8' 16'

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

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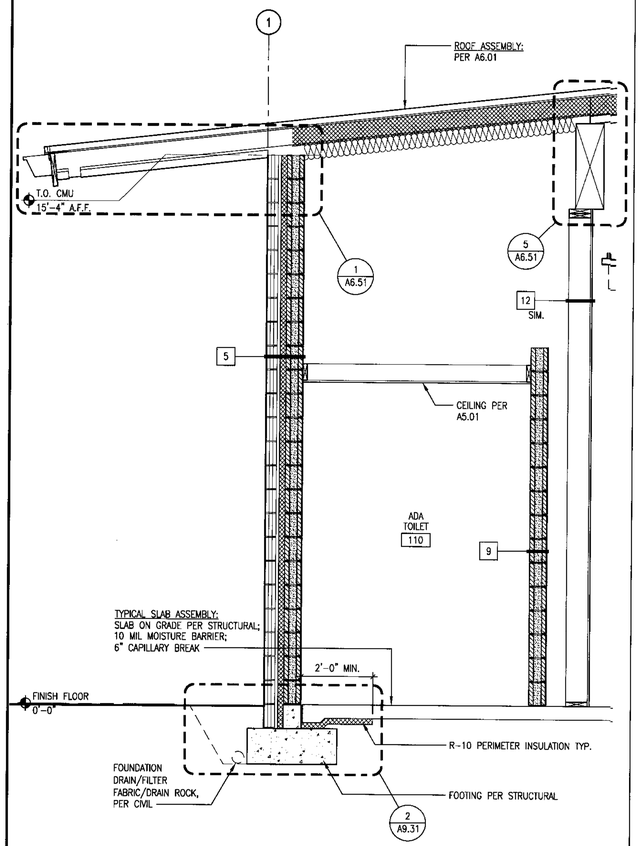
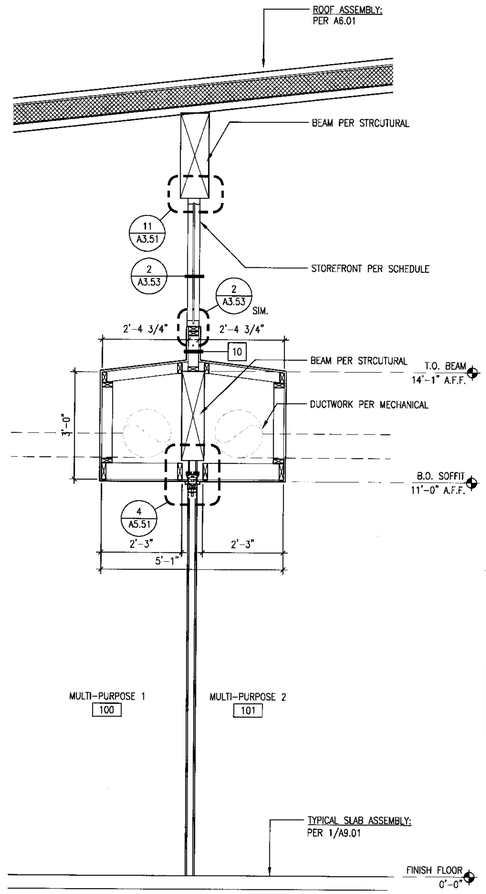


1 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

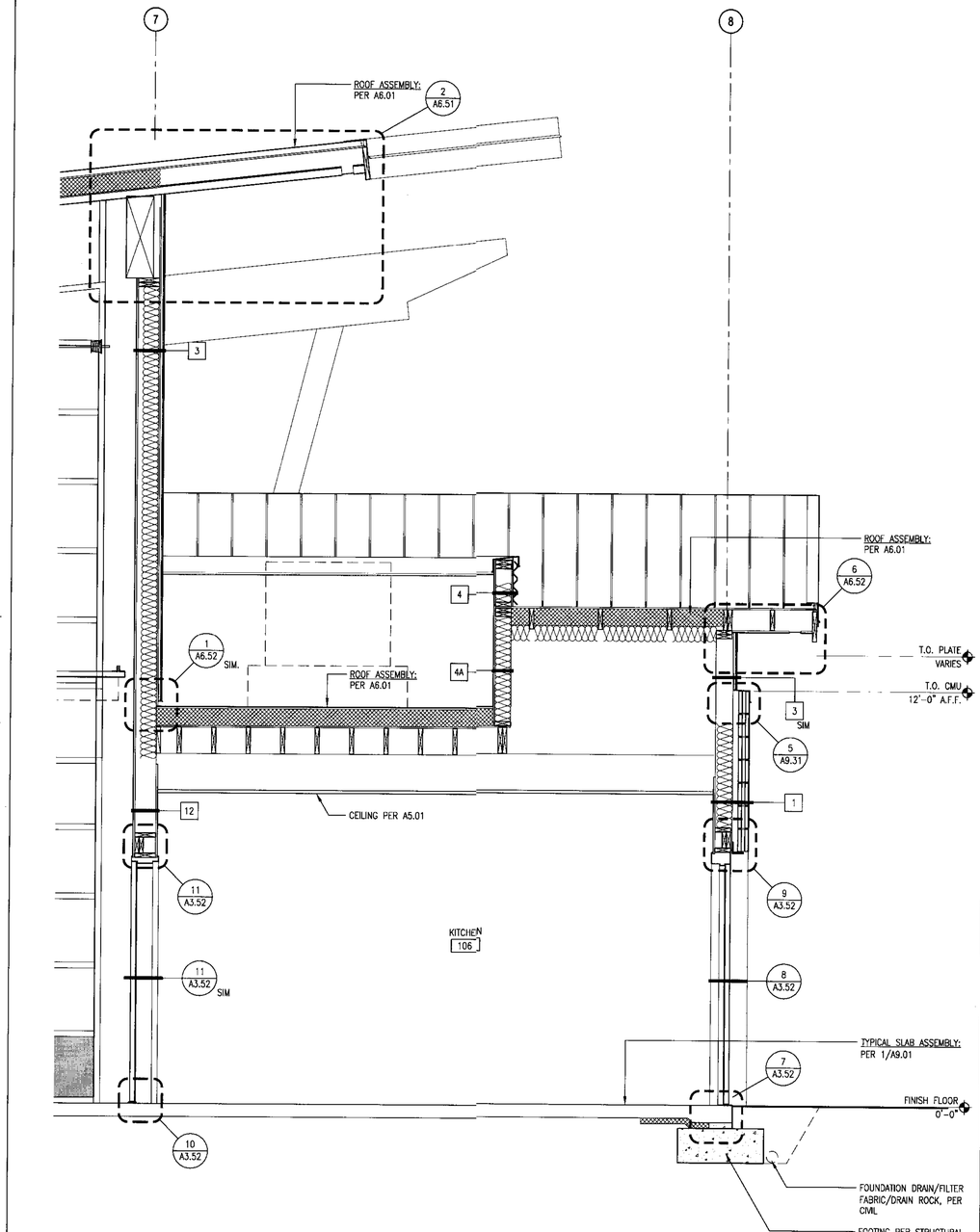


2 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"



3 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

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SHEET TITLE
WALL SECTIONS

SHEET
A9.01

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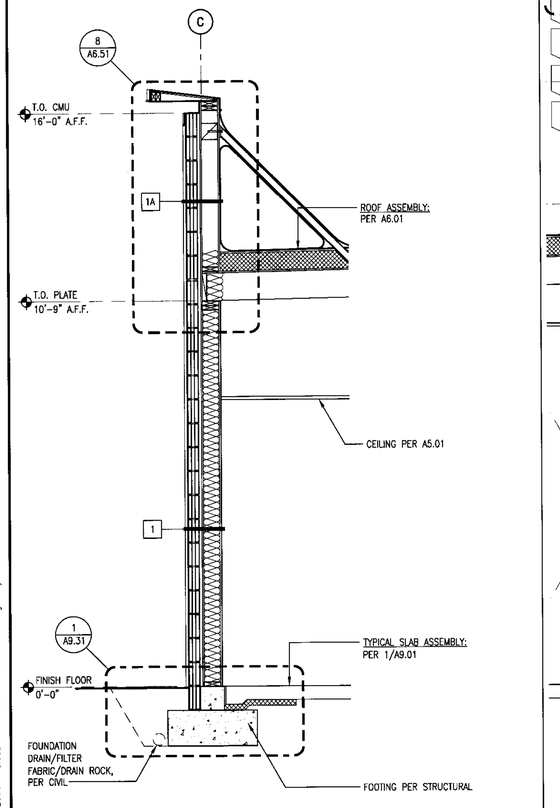

1 WALL SECTION

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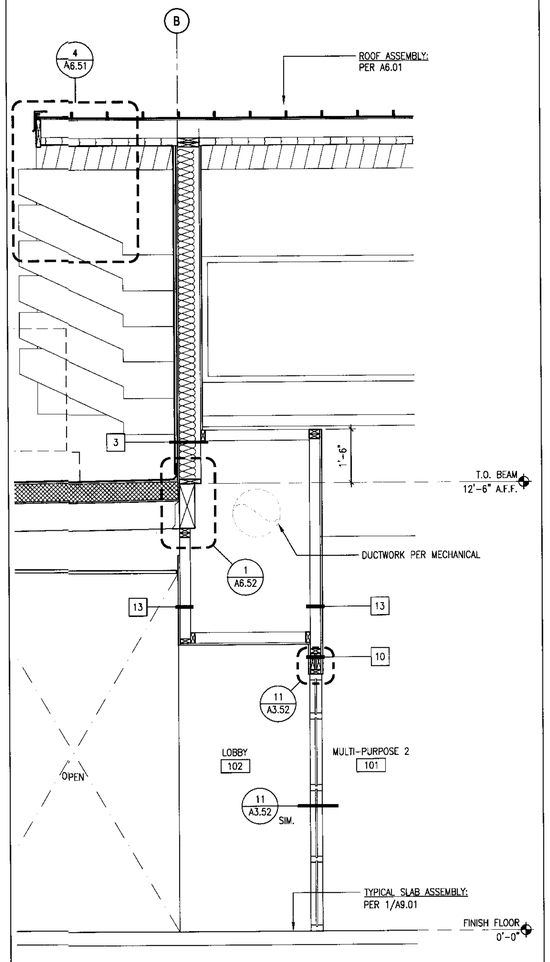
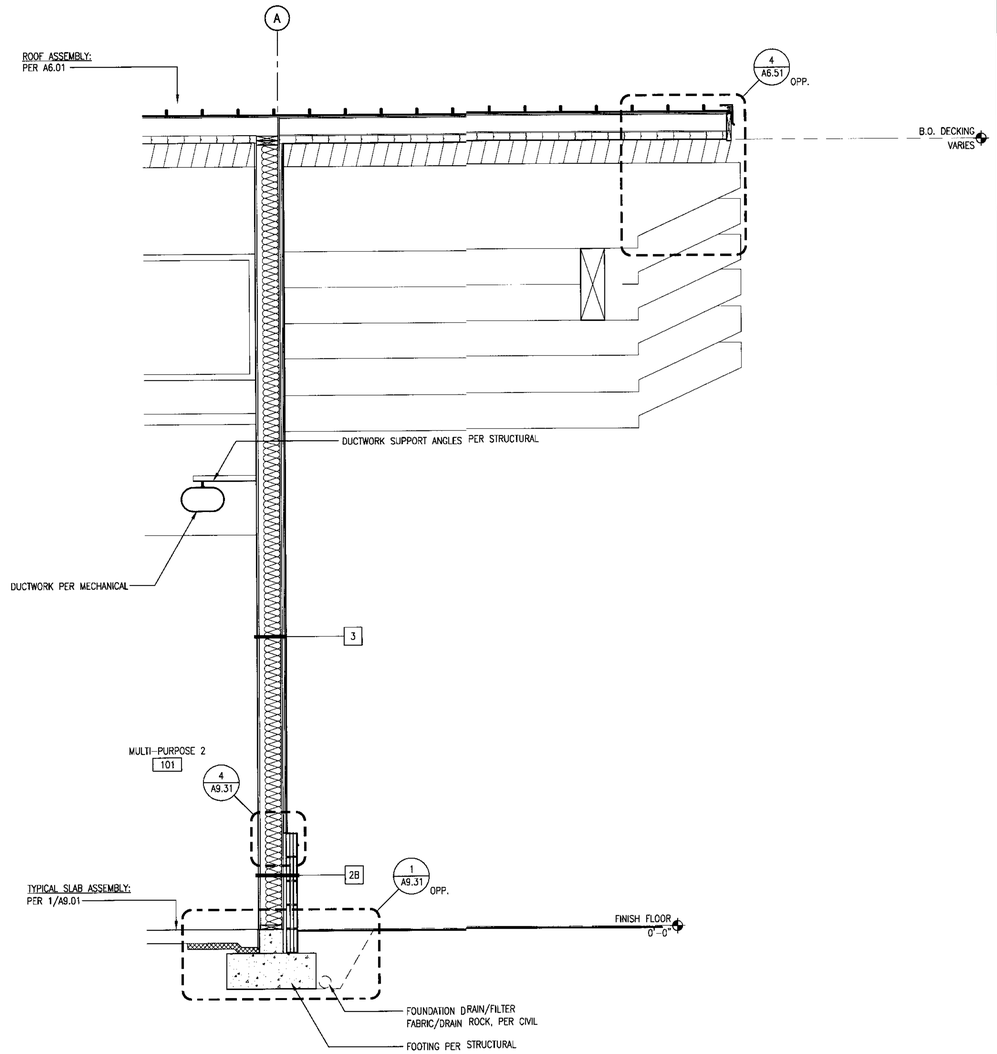


2 WALL SECTION

SCALE: 1/2" = 1'-0"



3 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

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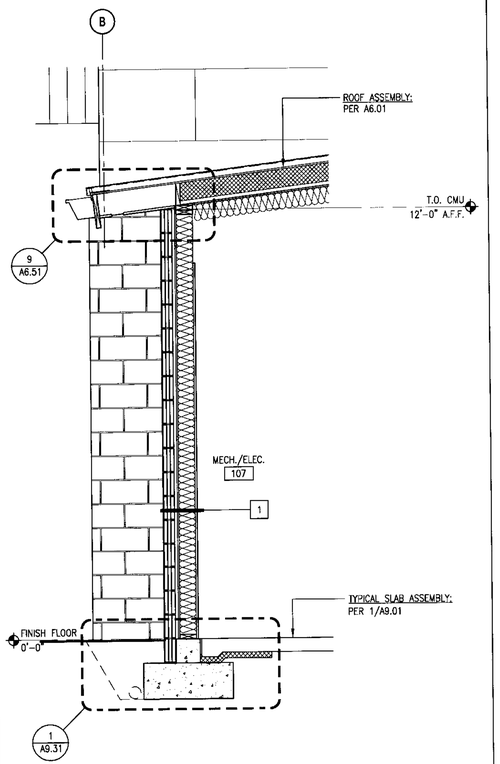
SHEET TITLE
WALL SECTIONS

SHEET
A9.02

100% CD SET

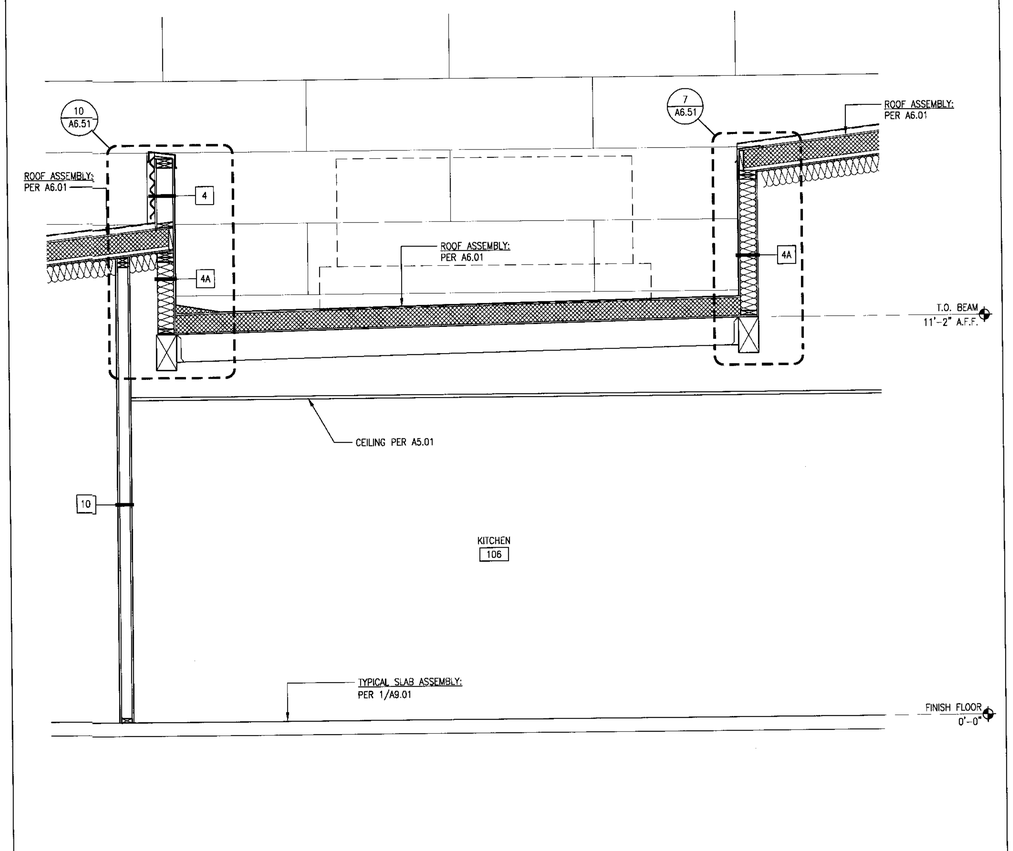


1 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

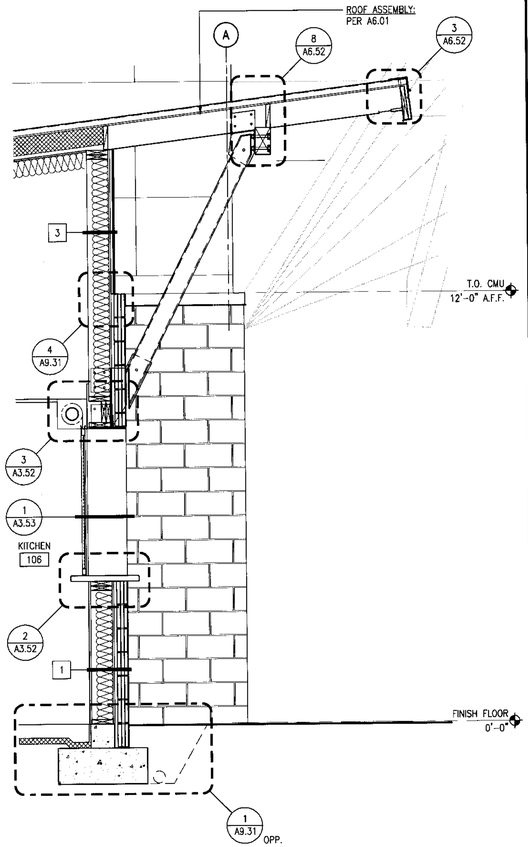


2 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"



3 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

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14013-A9.03.dwg

SHEET TITLE
WALL SECTIONS

SHEET
A9.03

100% CD SET

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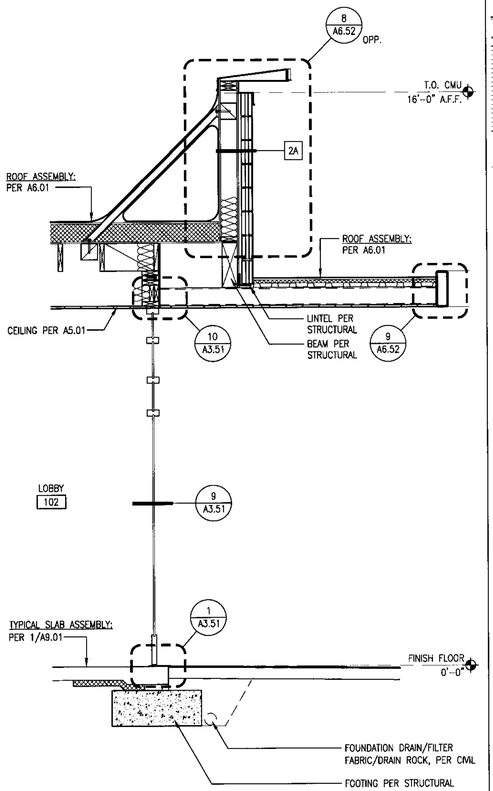
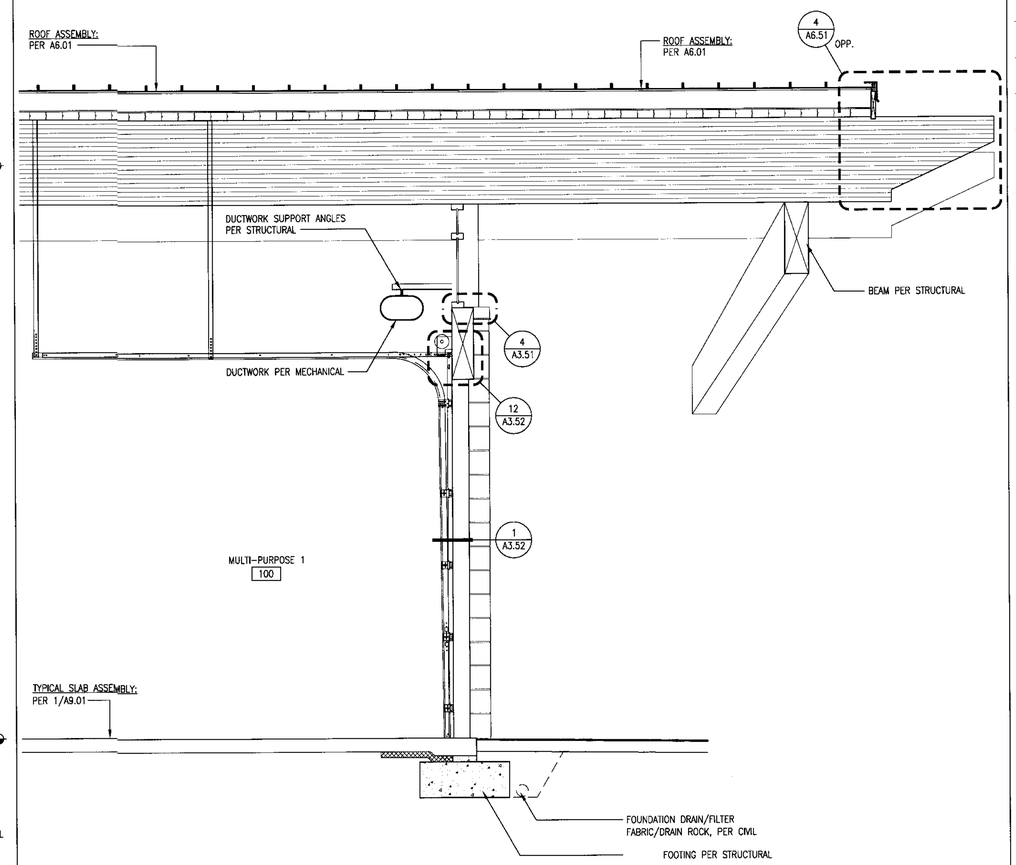


1 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

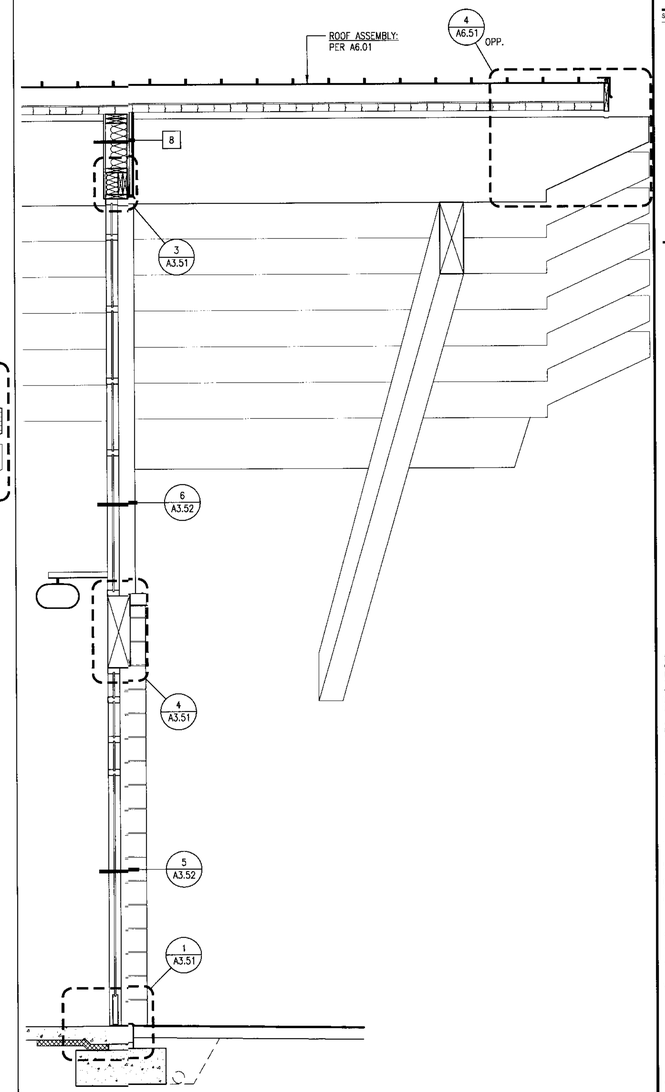


2 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"



3 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

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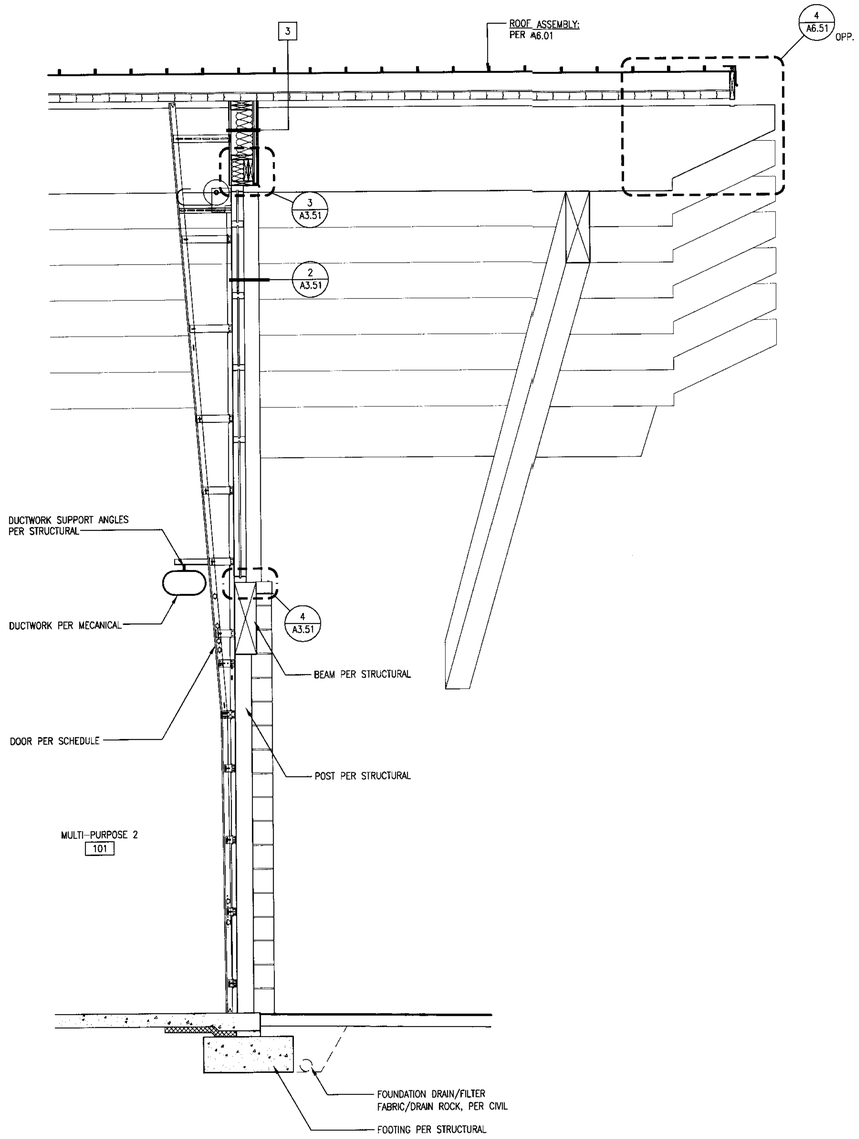
SHEET TITLE
WALL SECTIONS

SHEET
A9.04

100% CD SET

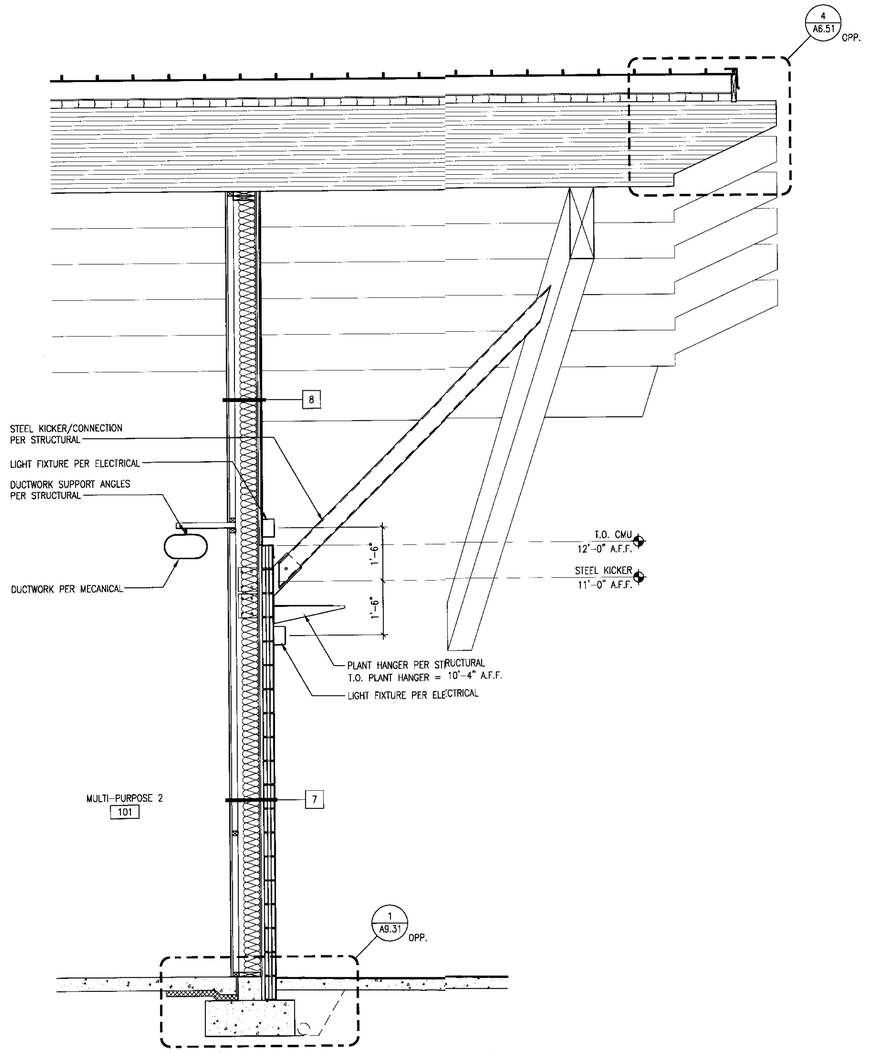


1 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"



2 WALL SECTION

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

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14013-A9.05.dwg

SHEET TITLE
WALL SECTIONS

SHEET
A9.05

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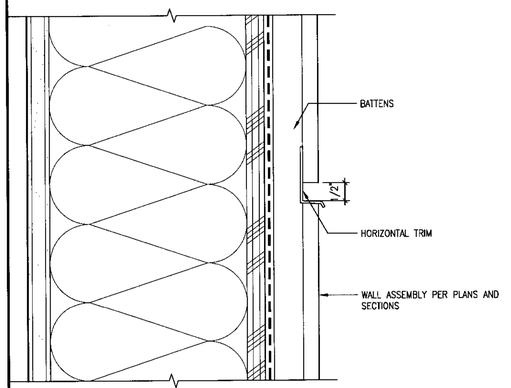
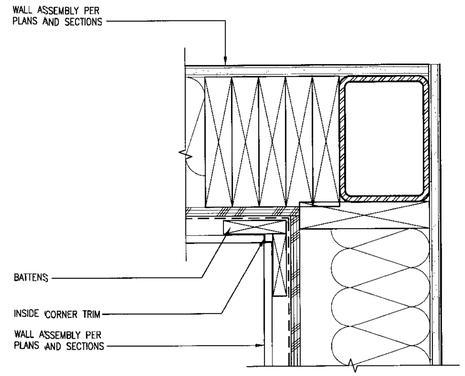


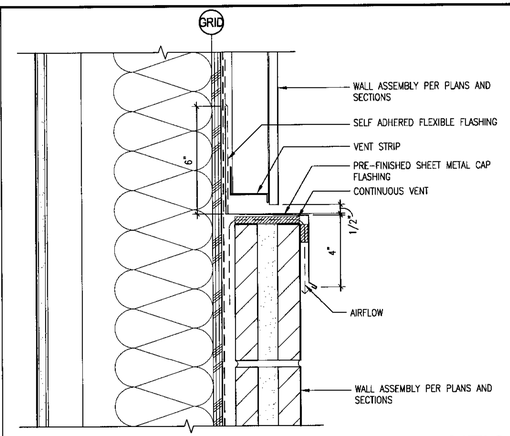
12 FIBER CEMENT HORIZONTAL JOINT

SCALE: 6" = 1'-0"



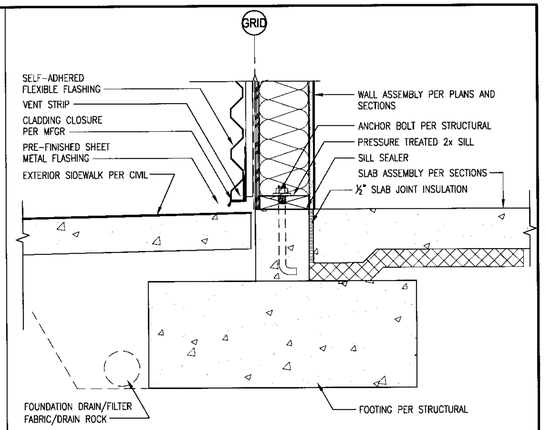
9 INSIDE CORNER AT FIBER CEMENT

SCALE: 3" = 1'-0"



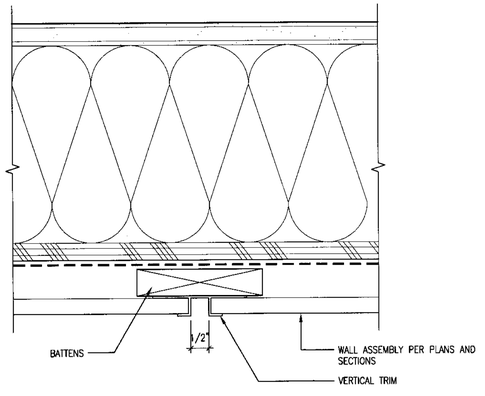
6 CMU TO FIBER CEMENT TRANSITION

SCALE: 3" = 1'-0"



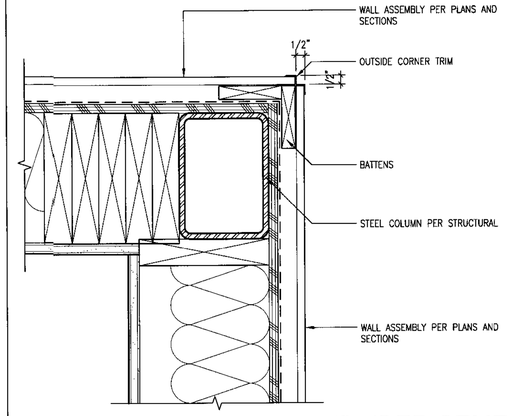
3 FOOTING AT METAL PANEL

SCALE: 1 1/2" = 1'-0"



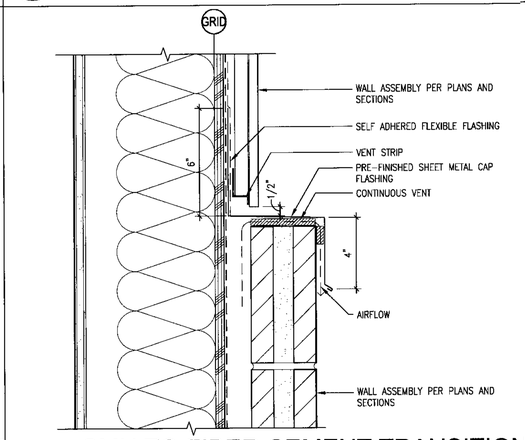
11 FIBER CEMENT VERTICAL JOINT

SCALE: 6" = 1'-0"



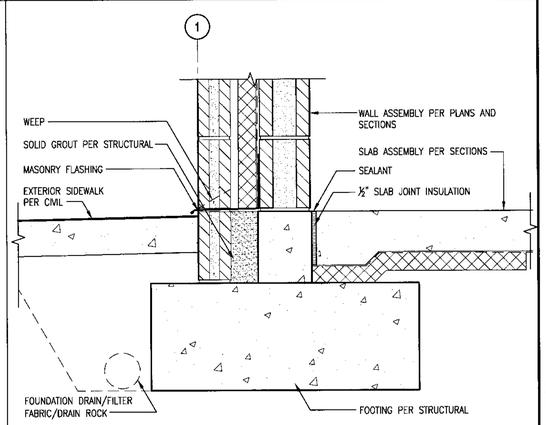
8 OUTSIDE CORNER AT FIBER CEMENT

SCALE: 3" = 1'-0"



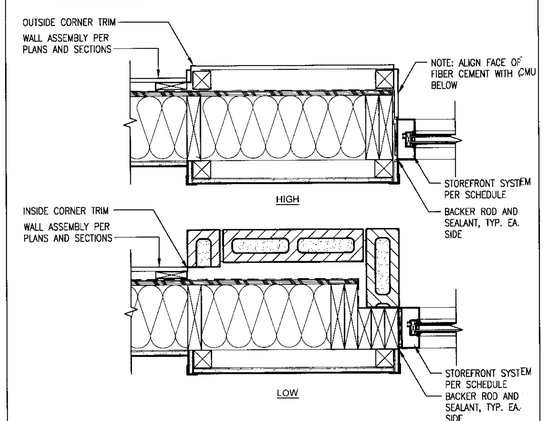
5 CMU TO FIBER CEMENT TRANSITION

SCALE: 3" = 1'-0"



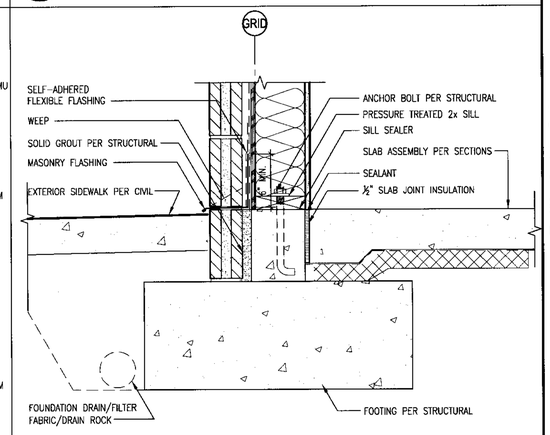
2 FOOTING AT CMU WALL

SCALE: 1 1/2" = 1'-0"



4 FURRED PILASTER DETAIL

SCALE: 1 1/2" = 1'-0"



1 TYPICAL FOOTING

SCALE: 1 1/2" = 1'-0"

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SHEET TITLE
EXTERIOR DETAILS

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A9.31

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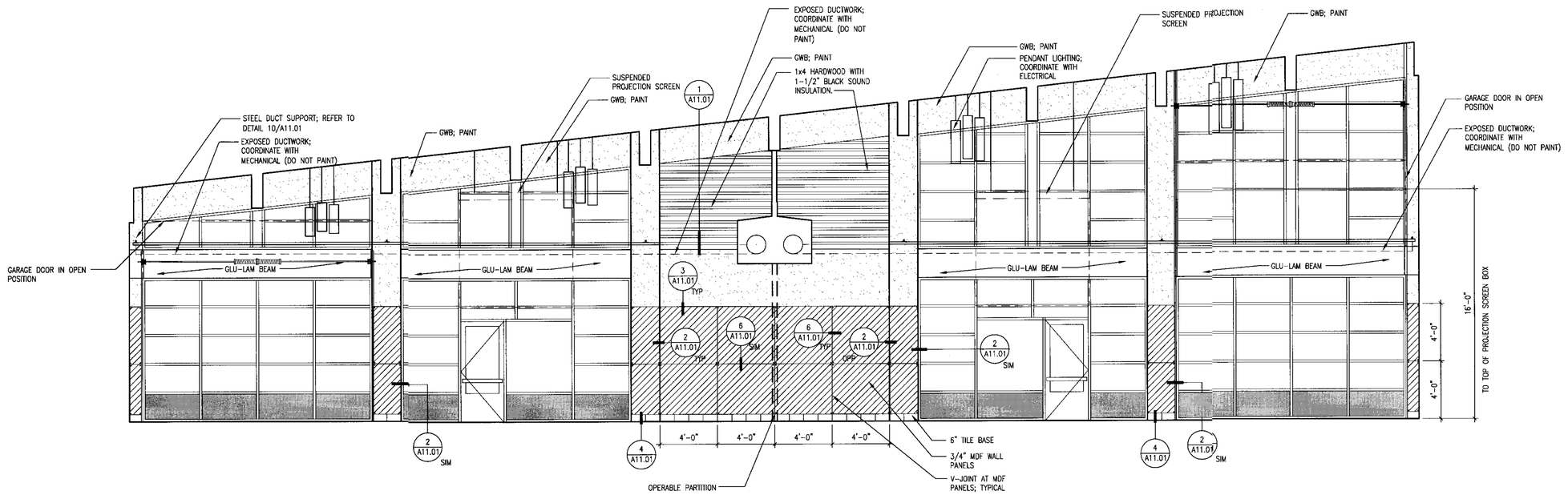
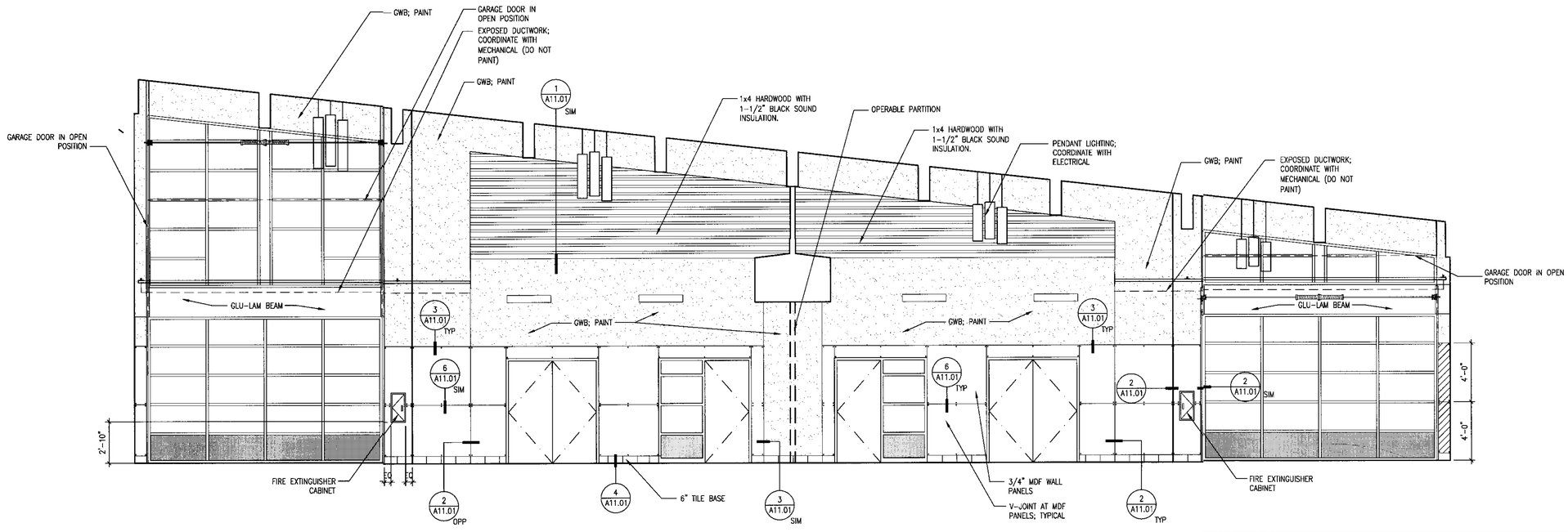


1 B MULTIPURPOSE-1 100 / MULTIPURPOSE-2 101 - WEST

SCALE: 1/4"=1'-0"



1 A MULTIPURPOSE-1 100 / MULTIPURPOSE-2 101 - EAST

SCALE: 1/4"=1'-0"

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SHEET TITLE
INTERIOR ELEVATIONS

SHEET
A10.01

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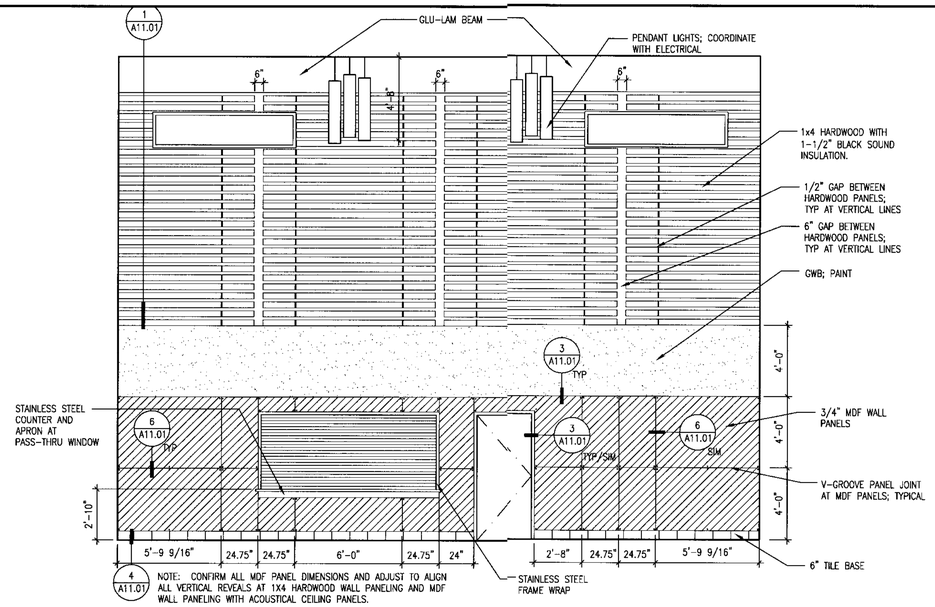
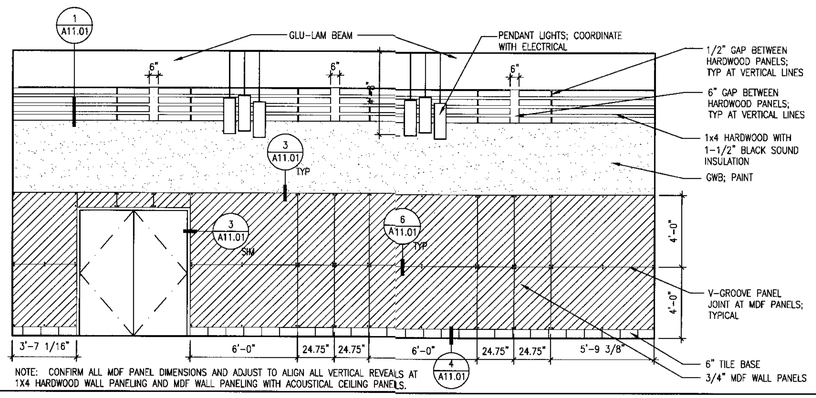


5 | A | MULTIPURPOSE-2 101 - NORTH

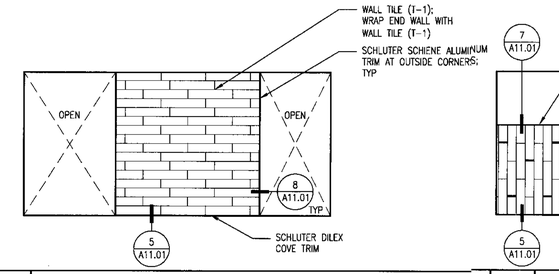
SCALE: 1/4"=1'-0"



4 | A | MULTIPURPOSE-1 100 - SOUTH

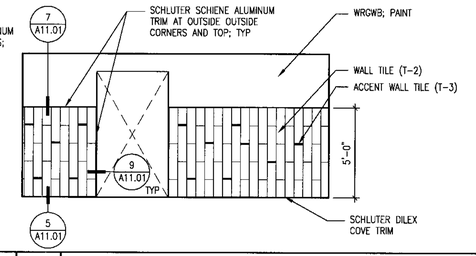
SCALE: 1/4"=1'-0"

NOTE: REFER TO SHEET A3.02 FOR TYPICAL RESTROOM ACCESSORY LOCATIONS AND MOUNTING HEIGHTS



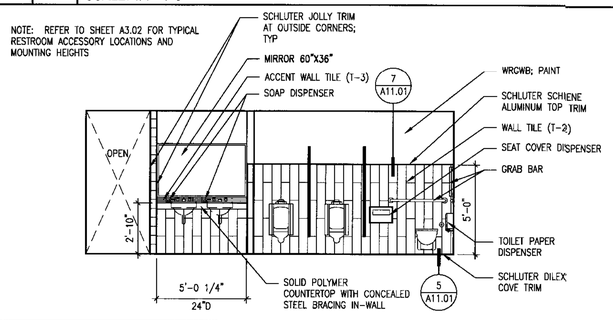
3 | A | MENS 104 / WOMENS 105 - SOUTH

SCALE: 1/4"=1'-0"



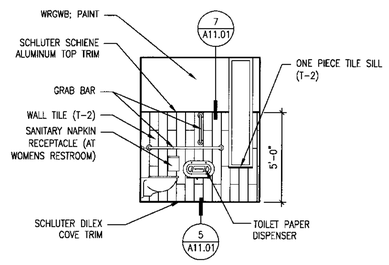
B | MENS 104 / WOMENS 105 - NORTH

SCALE: 1/4"=1'-0"



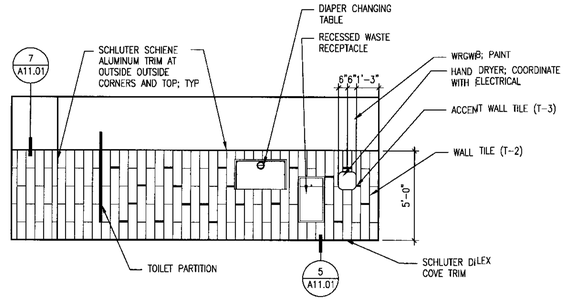
2 | A | MENS 104 - EAST

SCALE: 1/4"=1'-0"



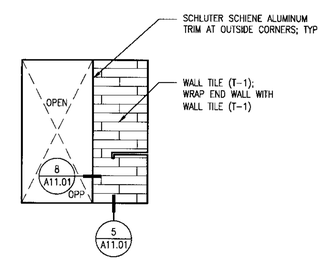
B | MENS 104 - SOUTH

SCALE: 1/4"=1'-0"



C | MENS 104 - WEST

SCALE: 1/4"=1'-0"



D | MENS 104 - NORTH

SCALE: 1/4"=1'-0"

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SHEET TITLE
INTERIOR ELEVATIONS

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SHEET
A10.02

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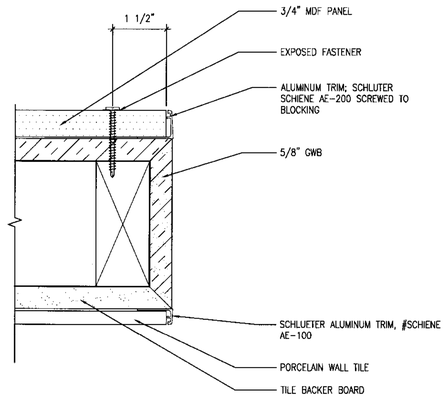
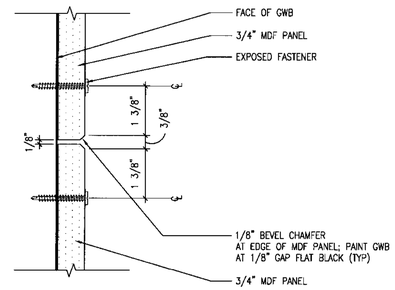


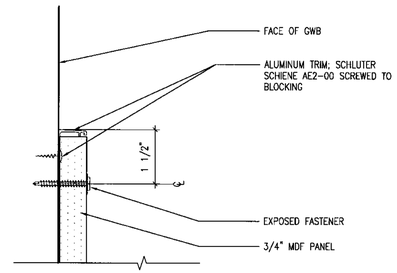
9 OUTSIDE CORNER @ TILE

SCALE: 6" = 1'-0"



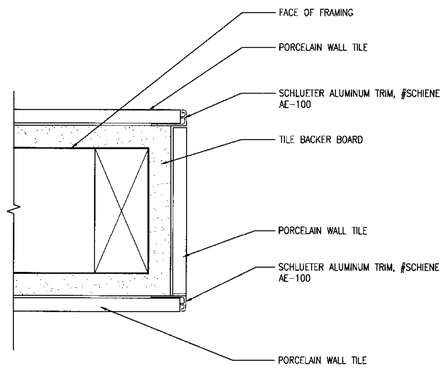
6 TYPICAL V-JOINT @ MDF PANELS

SCALE: 6" = 1'-0"



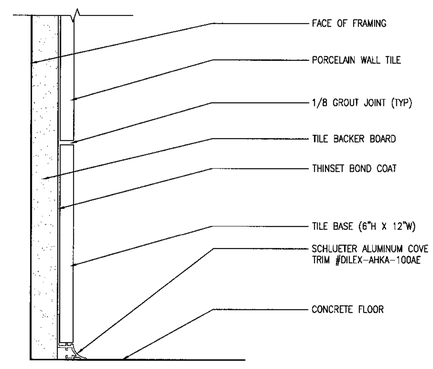
3 TYPICAL ALUMINUM TRIM @ MDF PAN

SCALE: 6" = 1'-0"



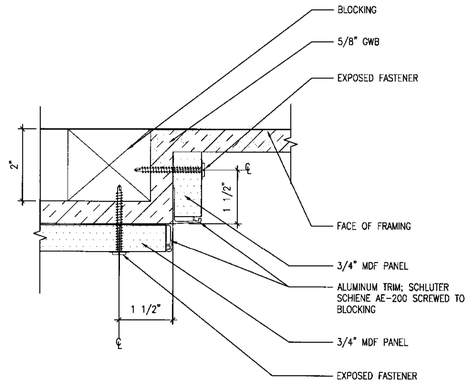
8 OUTSIDE CORNER @ TILE

SCALE: 6" = 1'-0"



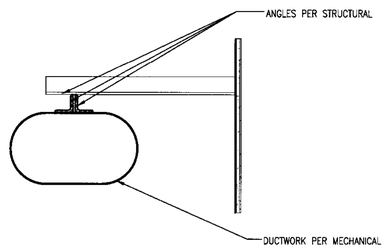
5 COVE BASE

SCALE: 6" = 1'-0"



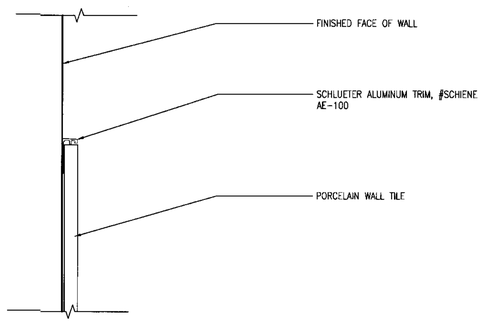
2 TYPICAL OUTSIDE CORNER @ MDF

SCALE: 6" = 1'-0"



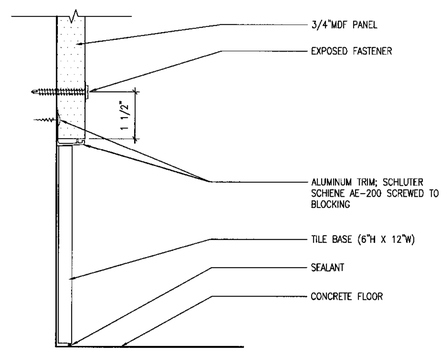
10 DUCT SUPPORT DETAIL

SCALE: 1-1/2"=1'-0"



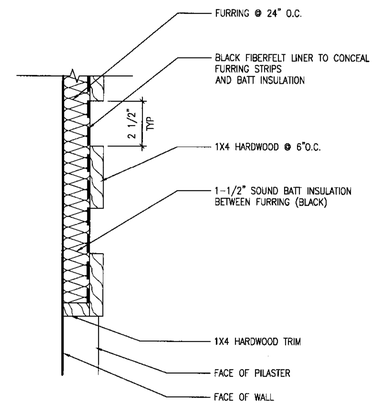
7 ALUMINUM TRIM @ TILE

SCALE: 6" = 1'-0"



4 TILE BASE @ MDF PANELS

SCALE: 6" = 1'-0"



1 WOOD WALL PANELING

SCALE: 3" = 1'-0"

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SEAL

5328 REGISTERED ARCHITECT
KENT L. MCLAREN
STATE OF WASHINGTON

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013-A11.01.dwg

SHEET TITLE
INTERIOR DETAILS

SHEET
A11.01

100% CD SET

Date Plotted: Aug 19, 2014 - 8:50am Filename: 14013-A11.01.dwg By: RRUIZ

DRAWING LIST

GENERAL

SUBMITTALS:
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR THE FOLLOWING ITEMS:

- REINFORCING STEEL
- STRUCTURAL AND MISC. STEEL
- GLUED-LAMINATED MEMBERS
- CONCRETE MIX DESIGN
- CONCRETE MASONRY BLOCK, MORTAR, AND GROUT

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN. ITEMS DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN, AND SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW. ONCE APPROVED, THEY SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

TESTING AND INSPECTIONS:
TESTING AND INSPECTION TO CONFORM TO IBC CHAPTER 17 AND 1703, 2012 EDITION. ALL PREPARED SOILS AND BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

MISCELLANEOUS:
CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD PRIOR TO PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT / ENGINEER BEFORE PROCEEDING. NOTED DIMENSIONS TAKE PRECEDENCE - DO NOT SCALE DRAWINGS.

CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SITE WORK

ALL EARTHWORK, MATERIAL, BACKFILL, AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. EXCAVATE TO DEPTH SHOWN AND TO FIRM UNDISTURBED MATERIAL. OVER-EXCAVATIONS SHALL BE BACKFILLED WITH LEAN CONCRETE AT THE CONTRACTOR'S EXPENSE. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE FLOOR MATERIAL, SLAB OR TEMPORARY BRACING.

CONCRETE

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE IBC

MATERIALS:

CEMENT	ASTM C150, Type I or Type II	
COARSE AND FINE AGGREGATE	ASTM C33	
WATER	Clean and Potable	
STRENGTH:		W/C MAX
SLABS	3000 (psi @ 28 days)	0.45
FOOTINGS	3000 (psi @ 28 days)	

ADMIXTURES:
WATER REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CACL2 OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C 260 SHALL BE USED IN ALL CONCRETE MIXES FOR FLATWORK WHICH IS EXPOSED TO WEATHER. THE AMOUNT OR ENTRAINED AIR SHALL BE IN ACCORDANCE WITH ACI 301 AND MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE.

MISCELLANEOUS:
WATER/CEMENT (W/C) RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. W/C RATIO SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM W/C RATIO SHOWN ABOVE.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH IBC SECTION 1905. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE SPECIFICATIONS.

FORM WORK SHALL FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORM WORK, ACI 347.

IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. SEE SPECIFICATIONS FOR CURING REQUIREMENTS.

REINFORCING STEEL:

DEFORMED BAR REINFORCEMENT	ASTM A615 - GR. 60
SPECIAL DUCTILE QUALITY (SDQ) DEFORMED BARS	ASTM A706 - GR. 60 LOW ALLOY
WELDED WIRE FABRIC	ASTM A185 & ASTM A82 FY = 65KSI
DEFORMED BAR ANCHORS	ASTM A496

SDQ REBAR SHALL BE USED IN DUCTILE FRAME MEMBERS AND SHEAR WALL BOUNDARY ELEMENTS. ASTM A615, GR. 60 REBAR MAY ALSO BE USED IN THESE MEMBERS AND ELEMENTS IF THE ACTUAL FY PER MILL TESTS DOES NOT EXCEED THE SPECIFIED FY BY MORE THAT 18 KSI AND THE RATIO OF THE ACTUAL FU TO THE ACTUAL FY IS NOT LESS THAN 1.25. MILL TEST CERTIFICATIONS FOR SDQ ASTM A615, GR. 60 REBAR SHALL BE SUBMITTED TO THE OWNER'S SPECIAL INSPECTOR AND ARCHITECT / ENGINEER PRIOR TO PLACING THE REBAR.

DETAIL, FABRICATE, AND PLACE PER ACI 315 AND ACI 318. SUPPORT REINFORCEMENT PER CRSI MANUAL OF STANDARD PRACTICE, MSP-1.

CONCRETE COVER:

BEAMS STIRRUPS AND COLUMN TIES	1 1/2"
SLAB BARS	3/4" TYP, 1" FOR RATED CONST.
NONSTRUCTURAL SLAB-ON-GRADE	MID-DEPTH
WALL BARS: INTERIOR FACES	3/4"
EXPOSED TO EARTH OR WEATHER	1 1/2" (NO. 5 AND SMALLER) 2" (NO. 6 AND LARGER)
FOOTING:	BOTTOM 3", TOP 1 1/2", SIDE 2"

ELECTRICAL CONDUIT SHALL NOT BE PLACED WITHIN A SLAB-ON-GRADE, BUT SHALL BE PLACED BELOW THE SLAB IN THE SUB-BASE.

WELDING OF REINFORCING, WHEN APPROVED BY ARCHITECT / ENGINEER, SHALL BE PER AWS D1.4 REINFORCING STEEL WELDING CODE. REBAR TO BE ASTM A706, GR. 60 LOW ALLOY. USE E70XX WELDING ELECTRODES WHEN WELDING TO STRUCTURAL STEEL AND E90XX WHEN WELDING TO REBAR.

GROUT FOR BEARING PLATE:
FOR BASE BEARING PLATE, GROUT SHALL BE NON-SHRINK TYPE WITH MINIMUM F'C = 8,000 PSI.

CONCRETE MASONRY

CONCRETE MASONRY DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 21 OF THE IBC.

MATERIALS:

ASSEMBLY STRENGTH	f'm = 1500 psi
MASONRY UNITS	ASTM C90, MEDIUM WEIGHT, TYPE I
MORTAR	ASTM C270, TYPE S, IBC SECTION 2103
DEFORMED BAR REINFORCEMENT	ASTM A615 - GR. 60
DEFORMED REINFORCING WIRE	ASTM A496
WIRE FABRIC	ASTM A185
GROUT	ASTM C476, f'c = 2000 psi

MISCELLANEOUS:
GROUT SHALL BE POURED IN MAXIMUM LIFTS OF 5' - 0". WALLS SHALL BE GROUTED SOLID, UNO.

TESTING AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE TO SECTION 2105. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED, UNO.

WOOD

WOOD DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 23 OF THE IBC.

MATERIALS:

STUDS	HEM FIR CONSTRUCTION GRADE
JOISTS	DOUGLAS FIR-LARCH STRUCTURAL GRADE NO. 2
BEAMS	DOUGLAS FIR-LARCH STRUCTURAL GRADE NO. 1
POSTS	DOUGLAS FIR-LARCH STRUCTURAL GRADE NO. 2
GLUED LAMINATED TIMBER	AITC A190.1 24F-V4 (24F-V8 FOR CANTILEVER AND MULTI-SPAN CONDITIONS) EXTERIOR GLUE, UNO
I-JOISTS	ASTM D5055
GLUED BUILT-UP LUMBER	1.7E F'B = 2600 PSI (MINIMUM LSL) 2.0E F'B = 2900 PSI (MINIMUM PSL)
SHEATHING	GROUP I OR II SPECIES C-D INTERIOR WITH EXTERIOR GLUE

ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF EITHER WEST COAST LUMBER INSPECTION BUREAU (WWLIB) AND/OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) AND SHALL BE KILN DRIED.

PRESERVATIVE TREATED LUMBER:
ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR GRADE OR EXPOSED TO WEATHER SHALL BE TREATED LUMBER. TREATED LUMBER SHALL BE IN ACCORDANCE WITH AMERICAN WOOD-PRESERVERS' ASSOCIATION (AWPA) SPECIFICATIONS FOR THE PRESSURE TREATMENT OF WESTERN WOODS, LATEST EDITION. ALL FIELD CUTS AND DRILLED HOLES SHALL BE FIELD TREATED IN ACCORDANCE TO AWPA M-4. PRESERVATIVE TREATED LUMBER USED IN ENCLOSED LOCATIONS SHALL HAVE A MOISTURE CONTENT OF 19% OR LESS BEFORE COVERING.

METAL CONNECTORS / ANCHORS:
BOLTS SHALL BE ASTM A307, UNLESS OTHERWISE NOTED. NAILS SHALL BE ASTM F1667 COMMON. ANCHOR CONNECTIONS SHALL BE SIMPSON OR TECO OR ICBO APPROVED. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNO. ALL STEEL CONNECTORS EXPOSED TO THE WEATHER OR IN UNHEATED PORTIONS OF THE BUILDING SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. FASTENERS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. CONNECTION HARDWARE AND ASSOCIATED FASTENERS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE GALVANIZED OR HOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM FASTENING SHALL BE PER IBC TABLE 2304.9.1.

MINIMUM NAILING FOR SHEATHING SHALL BE 10D COMMON NAILS AT 6" O.C. FOR PANEL EDGES AND 12" FOR INTERMEDIATE SUPPORTS, UNO. PROVIDE A 1/8" GAP BETWEEN 4X8 SHEETS (1/4" GAP FOR SHEETS LARGER THAN 8X8). ROOF SHEATHING SHALL HAVE A MOISTURE CONTENT OF 15% OR LESS BEFORE ROOFING.

MISCELLANEOUS:
ROOF AND FLOOR FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.

ANCHORS

USE OF DRILLED CONCRETE ANCHORS, INCLUDING EXPANSION BOLTS, ADHESIVE ANCHORS, AND UNDERCUT ANCHORS, WHERE NOT SPECIFIED IN THE DOCUMENTS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT / ENGINEER. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. ICBO OR ICC REPORTS SHALL BE SUBMITTED FOR ALL ANCHORS.

ALL HEADED SHEAR STUDS SHALL BE 3/4" DIAMETER UNO. STUD LENGTHS AFTER WELD SHALL BE SHOWN ON THE DRAWINGS. DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY THE MANUFACTURER.

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SEAL

PAIROT CHONGMONTRE
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
7/19/14

PROJECT
NEW COMMUNITY CENTER
CITY OF YELM COMMUNITY CENTER
301 2ND STREET SE
YELM, WA 98597

REVISIONS

DATE
08.20.14
BCRA NO.
14013
CADD FILE
14013S-001.DWG
SHEET TITLE
GENERAL NOTES
AND DRAWING LIST

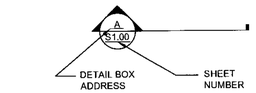
BCRA

SHEET
S0.01

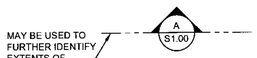
100% CD SET

Date Plotted: Aug 19, 2014 - 11:04pm Filename: 14013S-001.dwg By: VGOLOVCHIK

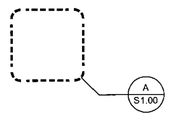
GENERAL SYMBOLS LEGEND



SECTION CALLOUT

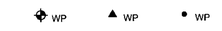


ELEVATION CALLOUT



DETAIL CALLOUT

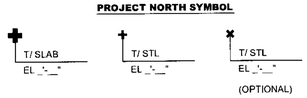
GRIDS



WORK POINTS

EARTH

PROJECT NORTH SYMBOL

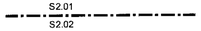


TOP OF STRUCTURE

SLOPE

EXTENTS OF SPAN

SPAN



MATCHLINE

FLAG NOTE

ANNOTATION SYMBOLS

CONCRETE SYMBOLS LEGEND

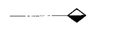
MECHANICAL COUPLER AT SPLICE

REINFORCING

OPENING (PLAN OR ELEVATION)

SLAB THICKNESS CHANGE SLAB ELEVATION CHANGE

SLOPE CHANGE



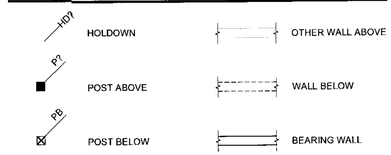
FLOOR STEPS AND SLOPES

FOOTING STEP

MASONRY SYMBOLS LEGEND

CONTROL JOINT

WOOD / LIGHT GAUGE SYMBOLS LEGEND



ABBREVIATIONS LIST

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AMPL	AMPLITUDE
ANCH	ANCHOR
ARCH	ARCHITECTURAL
B/	BOTTOM OF
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BMU	BRICK MASONRY UNIT
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	CAMBER
CC	CENTER TO CENTER
CIP	CAST IN PLACE
CJ	CONSTRUCTION, CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CP	COMPLETE PENETRATION
CTR	CENTER
CTRD	CENTERED
CY	CUBIC YARD
DB	DIVIDER BEAM
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DE	DECK EDGE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DKG	DECKING
DN	DOWN
DO	DITTO
DWF	DEFORMED WIRE FABRIC
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAILING
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISHED FLOOR
FLG	FLANGE
FLR	FLOOR
FRMG	FRAMING
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GOVT	GOVERNMENT
GR	GRADE
GWB	GYPSUM WALLBOARD
HD	HOLDOWN
HDR	HEADER
HGR	HANGER
HT	HEIGHT
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JNT	JOINT
JST	JOIST
K	KIP (1,000 LBS)
KSF	KIPS PER SQ FT
L	LENGTH (LONG)
LB	POUND
LF	LINEAL FOOT
LGA	LIGHT GAUGE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONGIT	LONGITUDINAL
LSH	LONG-SLOTTED HOLE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
N-S	NON-SHRINK
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE, OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER
PB	POST BELOW
PEN	PENETRATION
PL	PLATE; PROPERTY LINE
PLYWD	PLYWOOD
PP	PARTIAL PENETRATION
PSI	POUNDS PER SQ IN
PSF	POUNDS PER SQ FT
P-T	PRESSURE-TREATED
P/T	POST-TENSIONED
R, r	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REM	REMAINDER)
REQD	REQUIRED
RET	RETURN
RO	ROUGH OPENING
SC	SLIP CRITICAL
SCHED	SCHEDULE
SE	SLAB EDGE
SECT	SECTION
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SP	SPACE
SPCG	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEARWALL
SYM	SYMMETRICAL
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
THK	THICK(NESS)
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W	WIDE OR WIDTH
WHS	WELDED HEADED STUD
W/O	WITHOUT
WP	WORK POINT
WWF	WELDED WIRE FABRIC

INSPECTION SCHEDULE

	Verification and Inspection	Continuous	Periodic	Comment
STEEL	Fabrication and Erection / Placement		X	See Note 12
	High Strength Bolts		N/A	Turn-of-nut method. See Note 13
	Welding (structural)			See Note 5
	Complete and Partial Penetration Groove	X		
	Multi-Pass fillet	X		
	Single Pass fillet > 5/16"	X		
	Single Pass fillet < 5/16"		X	See Note 4
	Floor and Roof deck		N/A	See Note 4
	Anchors and studs		X	See Note 4
	Light Gauge metal framing		N/A	See Note 4
	Stairs and railing systems		N/A	See Note 4
	Welding (reinforcement)	N/A		See Note 9
	Steel detailing and placement		X	
CONCRETE[14]	Reinforcing placement		X	Includes prestressing tendons. See Note 12
	Reinforcing welding			See above
	Anchor bolts		X	
	Concrete sampling and test specimen preparation	X		
	Concrete / shotcrete placement	X		
	Concrete curing		X	
	Prestressed	N/A		See Note 6
	Precast erection		N/A	
	Post-tensioned		N/A	See Note 7
MASONRY[10, 14]	Mortar proportions		X	
	Mortar joints		X	
	Block and reinforcing placement		X	See Note 12
	Reinforcing welding			See above
	Grout placement	X		
	Grout sampling and test specimen preparation	X		
	Anchorages (incl. connection to other construction)		X	

INSPECTION SCHEDULE NOTES:

1. ALL ITEMS MARKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A REGISTERED SPECIAL INSPECTOR FROM AN APPROVED TESTING AGENCY. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION RECORDS TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. THE TESTING AGENCY SHALL NOTIFY THE ARCHITECT / ENGINEER IMMEDIATELY OF ANY DISCREPANCIES THAT ARE FOUND.
2. ALL MANUFACTURER DESIGNED AND PREFABRICATED COMPONENTS SHALL CONFORM TO SPECIAL INSPECTION REQUIREMENTS OF CHAPTER 17 OF THE IBC AS DEFINED BY THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR DESIGN.
3. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.2 OF THE IBC.
4. PERIODIC SPECIAL INSPECTION IS ACCEPTABLE PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF THE WORK; PERIODIC INSPECTIONS ARE MADE OF THE WORK IN PROGRESS AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
5. WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1.
6. CONTINUOUS INSPECTION SHALL BE PERFORMED FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM.
7. PERIODIC INSPECTION SHALL BE PERFORMED FOR THE VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
8. SPECIAL INSPECTIONS FOR SOILS SHALL BE DEFINED BY THE GEOTECHNICAL ENGINEER.
9. PERIODIC INSPECTION OF REINFORCING WELDING IS ACCEPTABLE WHEN IT IS NOT RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND NOT USED FOR BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND NOT USED AS SHEAR REINFORCEMENT.
10. LEVEL 1 SPECIAL INSPECTIONS. LEVEL 2 SPECIAL INSPECTIONS ARE REQUIRED FOR ESSENTIAL FACILITIES PER TABLE 1604.5 OF THE IBC. IN ADDITION TO LEVEL 1 SPECIAL INSPECTIONS, LEVEL 2 SPECIAL INSPECTIONS REQUIRE CONTINUOUS INSPECTION OF THE GROUT SPACE PRIOR TO GROUTING AND ANCHORAGES.
11. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR REGISTERED DESIGN PROFESSIONAL IN ACCORDANCE WITH SECTION 1709 OF THE IBC. STRUCTURAL OBSERVATION WILL BE PERFORMED FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES. REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND DISTRIBUTED TO THE ARCHITECT.
12. VERIFICATION OF MATERIAL PROPERTIES, GRADE, TYPE AND SIZE IS REQUIRED.
13. PERIODIC INSPECTION IS PERMITTED WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD OR THE ALTERNATE DESIGN FASTENER (TWIST-OFF BOLT) METHOD.
14. CONTRACTOR TO PROVIDE A PLAN FOR COLD AND HOT WEATHER PLACEMENT OF CONCRETE OR MASONRY AND THE SPECIAL INSPECTOR IS TO PERFORM PERIODIC INSPECTION TO PROVIDE VERIFICATION FOR THE NEED TO IMPLEMENT SUCH PLANS.

DESIGN CRITERIA

STRUCTURAL DESIGN IS BASED ON THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION.

GRAVITY DESIGN LOADS:

ROOF LIVE	20 (psf)
ROOF SNOW	25 (psf)
SNOW: GROUND SNOW LOAD	25 (psf)
EXPOSURE	B
IMPORTANCE FACTOR	1.0

LATERAL DESIGN LOADS:

WIND:	BASIC WIND SPEED	110 mph (3-sec gust)
	EXPOSURE	B
	IMPORTANCE FACTOR	1.0
SEISMIC:	SITE CLASS	D
	OCCUPANCY CATEGORY	II
	DESIGN CATEGORY	D
	Ss	1.248
	S1	0.497
	IMPORTANCE FACTOR	1.0
	R	6.5
	TOTAL BASE SHEAR	V=0.128W

SOIL:
SOIL DESIGN INFORMATION PER THE GEOTECHNICAL REPORT BY PANGEO DATED 29 MAY 2014. ALLOWABLE SOIL BEARING PRESSURE EQUALS 3,000 PSF ON COMPACTED STRUCTURAL GRAVEL FILL. EXTERIOR FOOTING DEPTH TO BE 18 INCHES FOR FROST PROTECTION, AND 12 INCHES FOR INTERIOR FOOTINGS. SLIDING FRICTIONAL COEFFICIENT OF 0.4, AND EQUIVALENT PASSIVE SOIL RESISTANCE OF 350 PCF SHALL BE USED. ACTIVE EARTH PRESSURE OF 35 PSF FOR UNCONSTRAINT AND 55 PSF FOR CONSTRAINT SHALL BE USED.

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PROJECT
NEW COMMUNITY CENTER
CITY OF YELM COMMUNITY CENTER
301 2ND STREET SE
YELM, WA 98597

REVISIONS

DATE
08.20.14
BCRA NO.
14013
CADD FILE
14013S-002.DWG
SHEET TITLE
LEGEND, ABBREVIATIONS LIST, INSPECTION SCHEDULE AND DESIGN CRITERIA

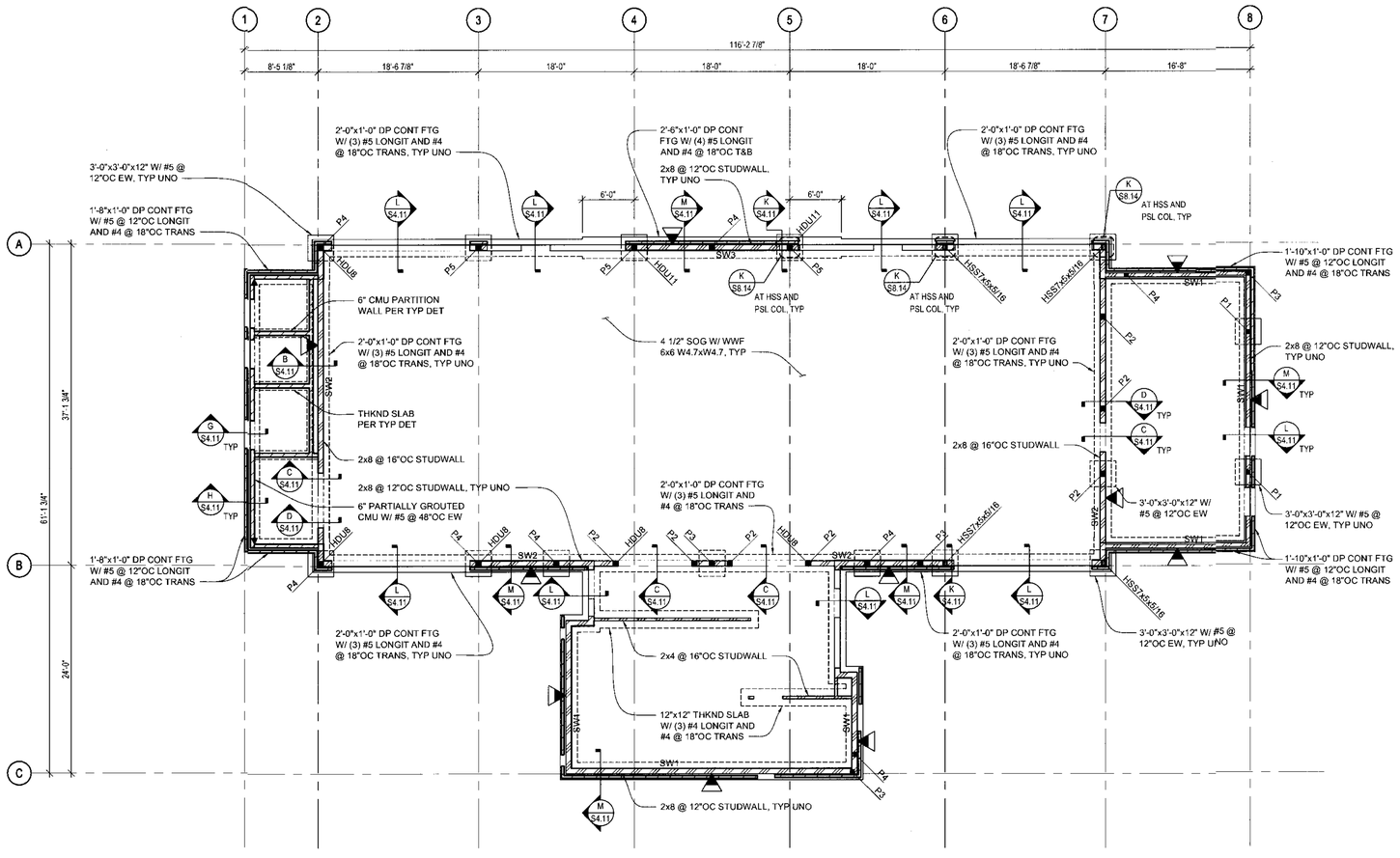
SHEET
S0.02

100% CD SET

Date Plotted: Aug 19, 2014 - 11:04am Filename: 14013S-002.dwg By: VOGLOVCHIK

POST SCHEDULE	
MARK	WOOD POST
P1	(3) 2x6
P2	(3) 2x8
P3	6x8
P4	PSL 5 1/4x7 1/4
P5	PSL 7x7 1/4
P6	6x6

NOTES:
1. SEE S0.01 AND S0.02 FOR STRUCTURAL NOTES, SYMBOLS, ABBREVIATIONS, AND INSPECTION SCHEDULE.
2. REFERENCE TOP OF SLAB ON GRADE ELEVATION EQUALS 100'-0", UNLESS NOTED OTHERWISE.
3. SEE TYPICAL DETAILS AND SCHEDULES:
   CONCRETE S4.01
   MASONRY S7.01
   WOOD S8.01
4. ALL INTERIOR HEADERS TO BE 4x10, UNLESS NOTED OTHERWISE.
5. PROVIDE (2) 2x MINIMUM AT ALL WALL / BEAM / HEADER ENDS.
6. PROVIDE HURRICANE CLIP AND BLOCKINGAT ALL JOISTS, TYPICAL.
7. ALL EXPOSED LUMBER SHALL BE TREATED FOR WEATHERING.



A **FOUNDATION PLAN**

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

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SEAL

PUNIT CHONGMONKOL — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 31414

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REVISIONS

DATE
08.20.14

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CADD FILE
14013S-201.DWG

SHEET TITLE
FOUNDATION PLAN

SHEET
S2.01

100% CD SET

Date Plotted: Aug 19, 2014 – 11:04am Filename: 14013S-201.dwg By: VGOLOVCHIK

POST SCHEDULE	
MARK	WOOD POST
P1	(3) 2x6
P2	(3) 2x8
P3	6x8
P4	PSL 5 1/4x7 1/4
P5	PSL 7x7 1/4
P6	6x6

NOTES:
1. SEE S0.01 AND S0.02 FOR STRUCTURAL NOTES, SYMBOLS, ABBREVIATIONS, AND INSPECTION SCHEDULE.
2. REFERENCE TOP OF SLAB ON GRADE ELEVATION EQUALS 100'-0", UNLESS NOTED OTHERWISE.
3. SEE TYPICAL DETAILS AND SCHEDULES:
   CONCRETE S4.01
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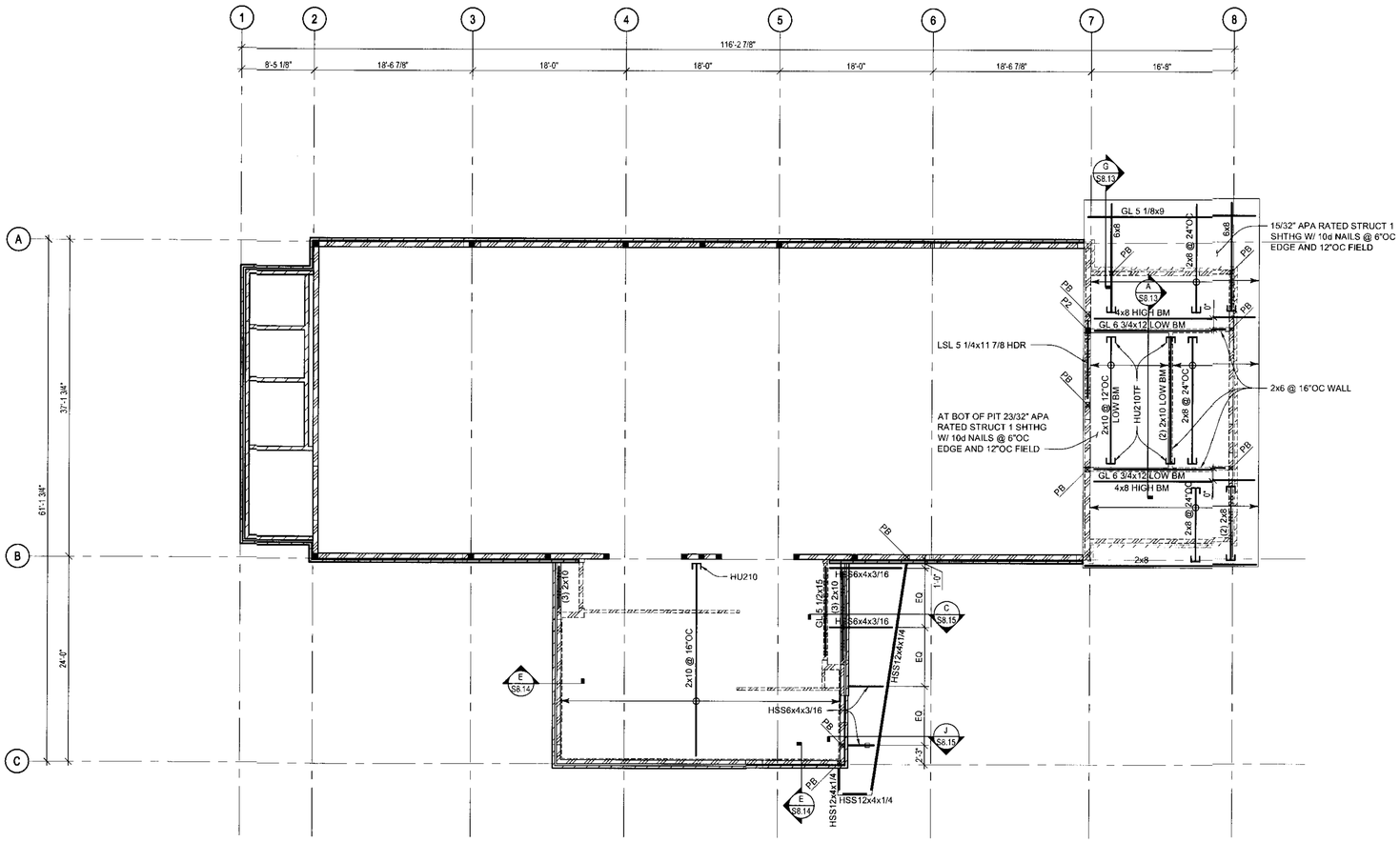
   WOOD S8.01
4. ALL INTERIOR HEADERS TO BE 4x10, UNLESS NOTED OTHERWISE.
5. PROVIDE (2) 2x MINIMUM AT ALL WALL / BEAM / HEADER ENDS.
6. PROVIDE HURRICANE CLIP AND BLOCKINGAT ALL JOISTS, TYPICAL.
7. ALL EXPOSED LUMBER SHALL BE TREATED FOR WEATHERING.



A LOW ROOF FRAMING PLAN

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

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14013S-202.DWG

SHEET TITLE
LOW ROOF
FRAMING PLAN

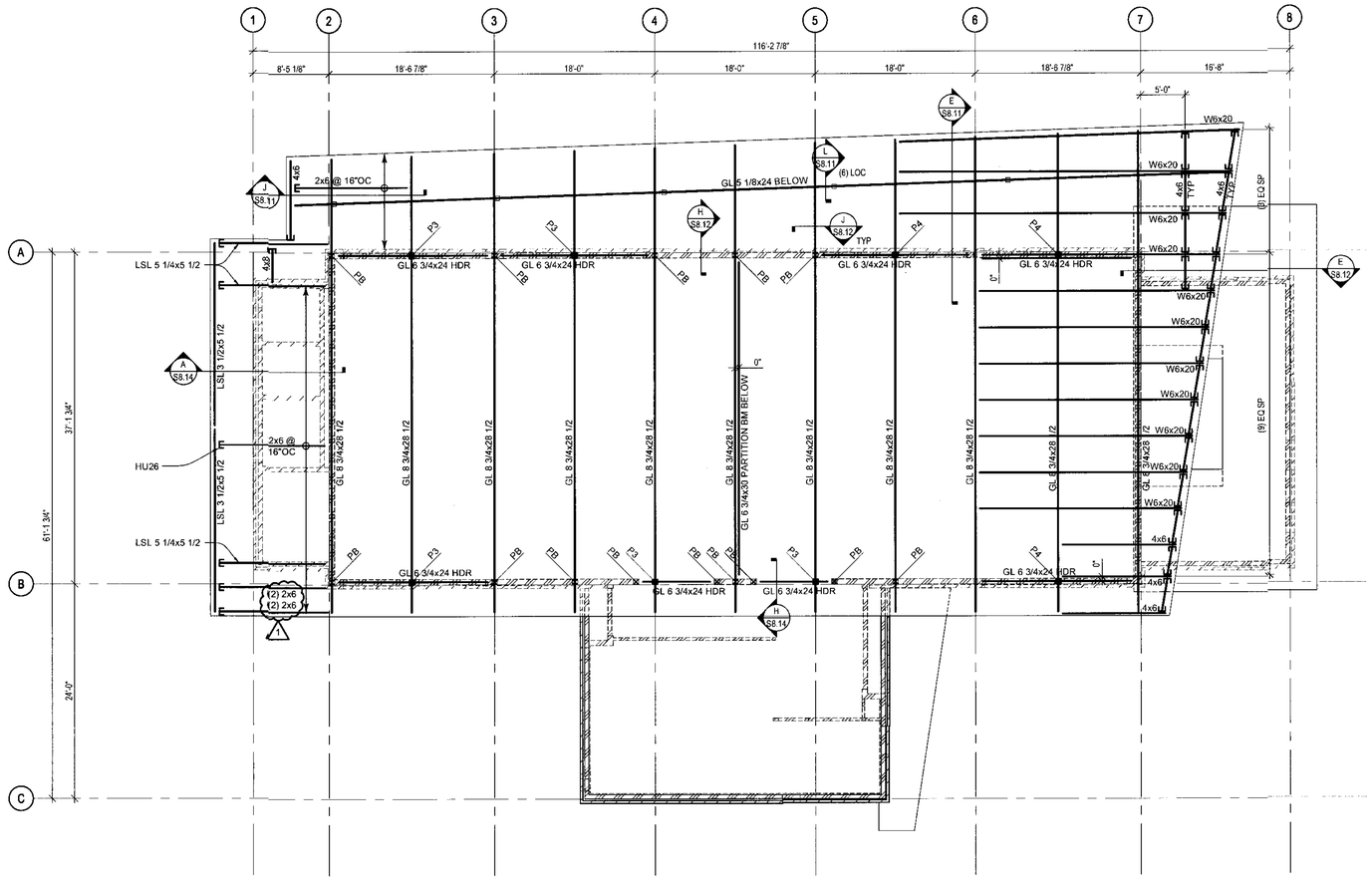
SHEET
S2.02

100% CD SET

Date Plotted: Aug 19, 2014 - 11:04am Filename: 14013S-202.dwg By: VGOLOVCHK

POST SCHEDULE	
MARK	WOOD POST
P1	(3) 2x6
P2	(3) 2x8
P3	6x8
P4	PSL 5 1/4x7 1/4
P5	PSL 7x7 1/4
P6	6x6

NOTES:
1. SEE S0.01 AND S0.02 FOR STRUCTURAL NOTES, SYMBOLS, ABBREVIATIONS, AND INSPECTION SCHEDULE.
2. REFERENCE TOP OF SLAB ON GRADE ELEVATION EQUALS 100'-0", UNLESS NOTED OTHERWISE.
3. SEE TYPICAL DETAILS AND SCHEDULES:
   CONCRETE S4.01
   MASONRY S7.01
   WOOD S8.01
4. ALL INTERIOR HEADERS TO BE 4x10, UNLESS NOTED OTHERWISE.
5. PROVIDE (2) 2x MINIMUM AT ALL WALL / BEAM / HEADER ENDS.
6. PROVIDE HURRICANE CLIP AND BLOCKINGAT ALL JOISTS, TYPICAL.
7. ALL EXPOSED LUMBER SHALL BE TREATED FOR WEATHERING.



A HIGH ROOF FRAMING PLAN

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

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REVISIONS
1 07.22.14 REV #1

DATE
08.20.14

BCRA NO.
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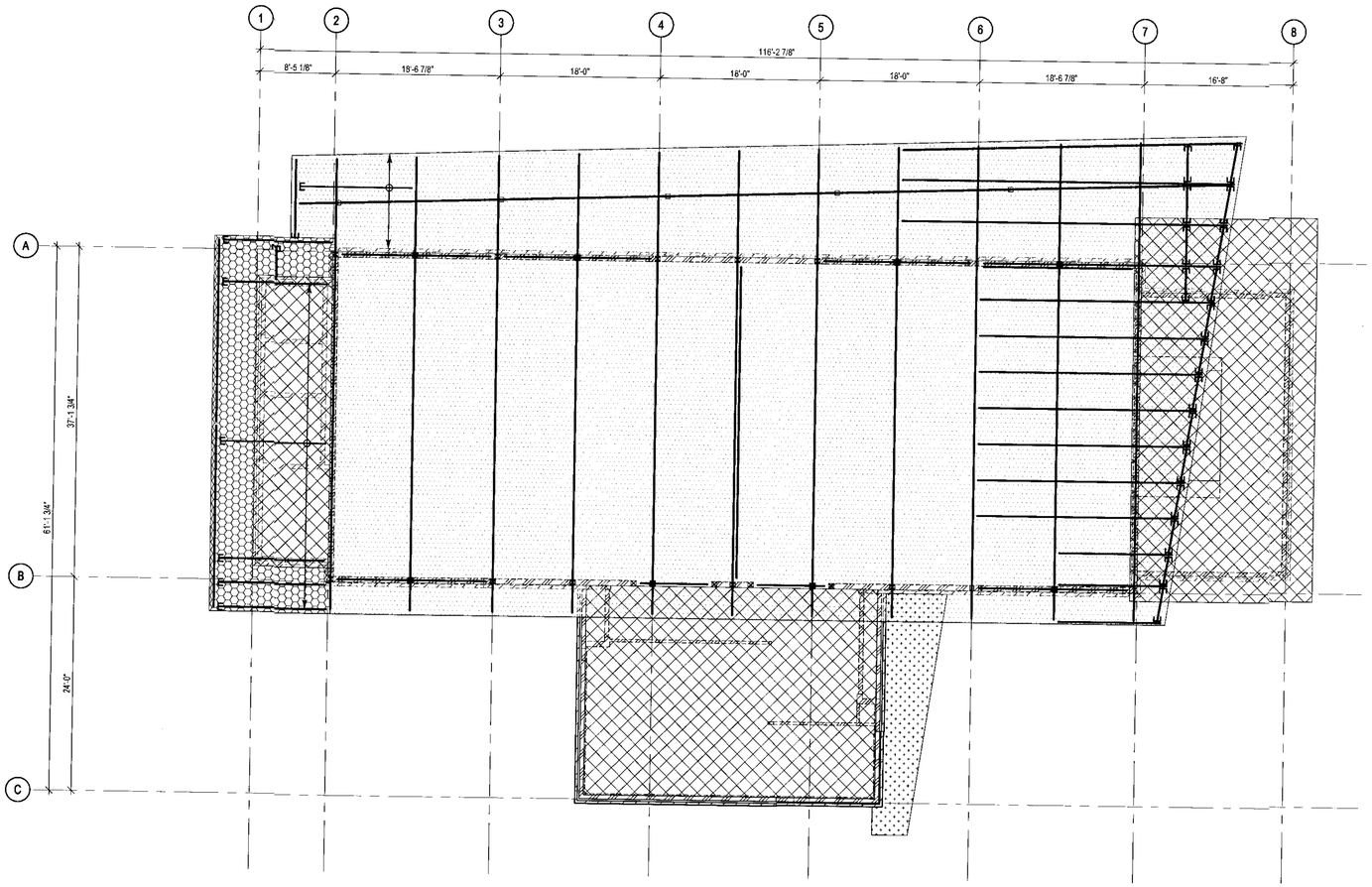
CADD FILE
14013S-203.DWG

SHEET TITLE
HIGH ROOF
FRAMING PLAN

SHEET
S2.03

100% CD SET

Date Plotted: Aug 19, 2014 – 11:04am Filename: 14013S-203.dwg By: VOGLOWCHIK



LEGEND

ON TOP OF INSULATION:
1/2" SHEATHING WITH WOOD SCREWS @ 12"OC
EW SCREWED INTO 3x TNG DECKING BELOW.
WARNING: DO NOT PENETRATE ALL THE WAY
THROUGH TO THE UNDERSIDE OF 3x DECKING.

BELOW INSULATION:
3x6 T&G LOCK DECKING W/ (2) 20d PER COURSE
INTO SUPPORT FACE NAILING AND 8D @ 30"OC
ALONG COURSES TOE NAILING. SPLICE DECK AT
TOP OF BEAM. STAGGERED 3/8" STRUCTURAL 1
SHEATHING W/ 8d COMMON NAILS 6"OC PANEL
BOUNDRY AND 12"OC INTERMEDIATE.

ON TOP OF JOISTS:
15/32" APA RATED STRUCTURAL 1 SHEATHING
WITH 10d NAILS @ 6"OC EDGE AND 12"OC FIELD

ON TOP OF JOISTS:
1/2" SHEATHING WITH 10d NAILS @ 6"OC AND 12"OC FIELD

UNDERSIDE OF JOISTS:
15/32" APA RATED STRUCTURAL 1 SHEATHING WITH 10d
NAILS @ 6"OC EDGE AND 12"OC FIELD

METAL DECK 1 1/2"x20GA TYPE B WITH
SUPPORTS PERPENDICULAR TO DECK: (4) #10
SCREWS (36/4 PATTERN)
SUPPORTS PARALLEL TO DECK: #10 SCREW @ 18"OC
SIDELAPS: PUNCHLOCK OR EQUIVALENT @ 18"OC

A **ROOF DECKING PLAN**
SCALE: 1/8" = 1'-0"

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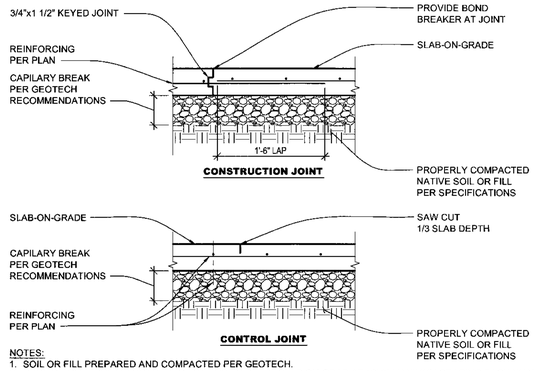
DATE
08.20.14
BCRA NO
14013
CADD FILE
14013S-204.DWG
SHEET TITLE
ROOF DECKING PLAN

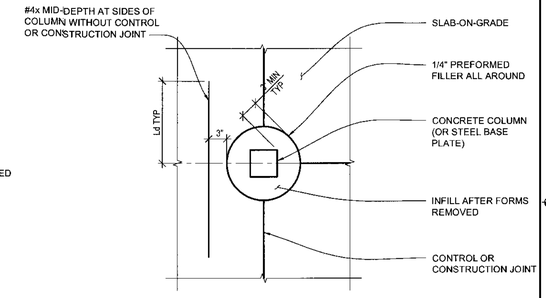
SHEET
S2.04

100% CD SET



CONSTRUCTION JOINT

CONTROL JOINT

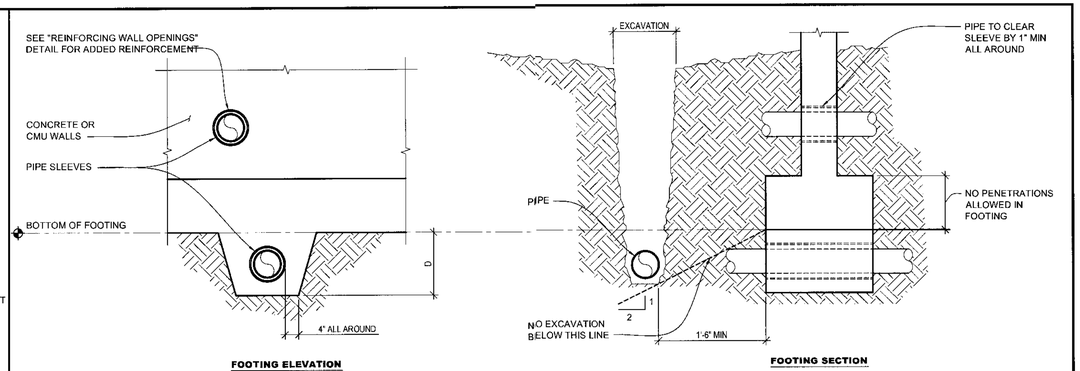


ISOLATION JOINT AT COLUMN OR PIER

NOTES:
1. SOIL OR FILL PREPARED AND COMPACTED PER GEOTECH.
2. PROVIDE CONTROL OR CONSTRUCTION JOINTS IN THE SLAB ON GRAD AT 12'-0" MAXIMUM SPACING EACH WAY. SPACING BETWEEN CONSTRUCTION JOINTS SHALL BE 50'-0" MAXIMUM. JOINTS SHALL BE PROVIDED SUCH TAHT THE RATIOS OF THE SIDES OF THE SLAB PANELS DO NOT EXCEED 2 TO 1.

A TYPICAL DETAIL SLAB ON GRADE JOINTS

SCALE: NTS



FOOTING ELEVATION

FOOTING SECTION

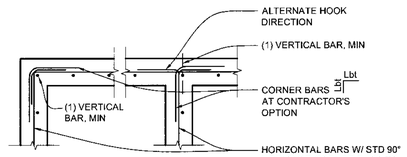
NOTES:
1. FOOTINGS MAY BE STEPPED DOWN, WITH THE APPROVAL OF THE STRUCTURAL ENGINEER, IN ORDER TO AVOID CONFLICT WITH PIPES. SEE TYPICAL "STEPPED FOOTING" DETAIL.

C TYPICAL DETAIL PIPES AND TRENCHES AT FOOTING

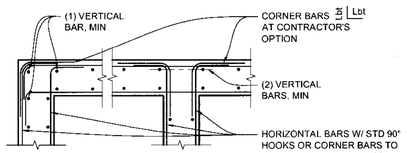
SCALE: NTS

MINIMUM WALL REINFORCEMENT			
WALL THICKNESS	HORIZ BARS	VERT BARS	LOCATION
6" & UNDER	#4x @ 13	#4x @ 13	CENTERLINE
OVER 6-8"	#5x @ 15	#5x @ 15	CENTERLINE
OVER 8-10"	#5x @ 12	#5x @ 12	CENTERLINE
OVER 10-12"	#4x @ 12	#4x @ 12	EACH FACE
OVER 12-14"	#5x @ 18	#5x @ 18	EACH FACE
OVER 14-16"	#5x @ 15	#5x @ 15	EACH FACE
OVER 16-18"	#5x @ 12	#5x @ 12	EACH FACE

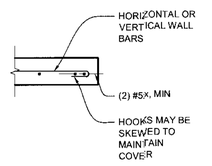
NOTES:
1. UNLESS NOTED OR SHOWN OTHERWISE, ALL WALLS ARE TO BE REINFORCED WITH MINIMUM REINFORCEMENT AS SHOWN IN THE FOLLOWING TABLE:
2. LAP WALL AT SPLICES Lbt.
3. ALL VERTICAL REINFORCEMENT IN CONCRETE SHALL BE CONTINUOUS FROM STRUCTURAL FLOOR TO STRUCTURAL FLOOR, OR FROM FOOTING TO FIRST STRUCTURAL FLOOR ABOVE, UNLESS NOTED OTHERWISE.
4. START HORIZONTAL AND VERTICAL BARS 1-INCH CLEAR OF EDGE OF OPENINGS. SPACE REINFORCEMENT BARS AT EQUAL SPACES NOT TO EXCEED REQUIRED SPACING.
5. REFER TO DEVELOPMENT LENGTH AND LAP SPLICE TABLES FOR VALUE OF Ld, Lbt.
6. SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED. SPLICES IN TWO CURTAINS WHERE USED SHALL NOT OCCUR IN THE SAME LOCATION, UNLESS NOTED OTHERWISE.



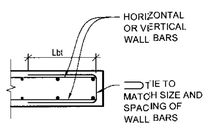
WALL CORNER



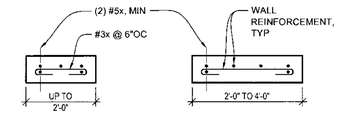
WALL INTERSECTION



WALL ENDS SINGLE LAYER

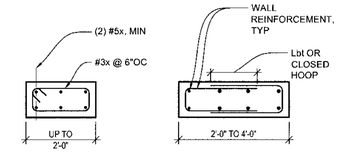


WALL ENDS DOUBLE LAYER



NOTES:
1. SMALL WALL SECTION DETAILS APPLY BOTH IN HORIZONTAL AND VERTICAL DIRECTIONS.

SMALL WALL SECTIONS



NOTES:
1. SMALL WALL SECTION DETAILS APPLY BOTH IN HORIZONTAL AND VERTICAL DIRECTIONS.

SMALL WALL SECTIONS

F TYPICAL DETAIL CONCRETE WALL REINFORCEMENT

SCALE: NTS

CONCRETE STRENGTH f'c (psi)								
BAR SIZE	3000				4000			
	Ld (inches)	Ldt, Lb (inches)	Lbt (inches)	Ldh (inches)	Ld (inches)	Ldt, Lb (inches)	Lbt (inches)	Ldh (inches)
#3x	17	22	28	9	15	19	25	8
#4x	22	29	38	11	19	25	33	10
#5x	28	36	47	14	24	31	41	12
#6x	33	43	56	17	29	37	49	15
#7x	48	63	81	20	42	54	71	17
#8x	55	72	93	22	48	62	81	19
#9x	62	81	105	25	54	70	91	22
#10x	70	91	118	28	61	79	102	25
#11x	78	101	131	31	67	87	114	27

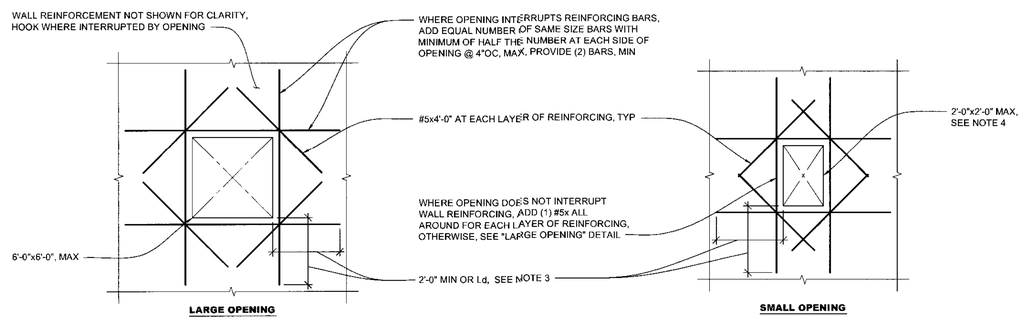
LAP SPLICE LEGEND

db = BAR DIAMETER
Ld = BOTTOM BAR DEVELOPMENT LENGTH
Ldt = TOP BAR DEVELOPMENT LENGTH
Lb = BOTTOM BAR LAP SPLICE LENGTH
Lbt = TOP BAR LAP SPLICE LENGTH
Ldh = HOOKED BAR DEVELOPMENT LENGTH

NOTES:
1. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.
2. FOR BEAMS AND COLUMNS WHERE CLEAR COVER IS LESS THAN db OR CLEAR SPACING IS LESS THAN db, MULTIPLY VALUES IN TABLE BY 1.5.
3. FOR WALLS AND SLABS WHERE CLEAR COVER IS LESS THAN db OR CLEAR SPACING IS LESS THAN 2db, MULTIPLY VALUES IN TABLE BY 1.5.
4. FOR SPLICING OF DIFFERENT REINFORCEMENT SIZES, USE VALUES FOR SMALLER REINFORCEMENT.
5. FOR #14x AND #18x BAR USE MECHANICAL COUPLERS.
6. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES, AT CONTRACTORS OPTION.

J TYPICAL DETAIL DEVELOPMENT LENGTH (Ld) AND TENSION LAP SPLICE (Lb OR Lbt)

SCALE: NTS



LARGE OPENING

SMALL OPENING

NOTES:
1. OMIT ADDED REINFORCEMENT NOTED ABOVE WHEN SPECIAL REINFORCEMENT INDICATED ON PLAN OR DETAILS EXCEEDS THIS REINFORCEMENT.
2. CONTRACTOR SHALL VERIFY ALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS WITH THE STRUCTURAL ENGINEER BEFORE PLACEMENT.
3. WHEN EDGE OF CONCRETE IS CLOSE TO OPENING AND WILL NOT ALLOW THIS LENGTH, CONSULT STRUCTURAL ENGINEER BEFORE CONSTRUCTION.
4. OPENINGS SMALLER THAN 1'-0"x1'-0" AND NOT INTERRUPTING REINFORCEMENT SHALL REQUIRE NO ADDED REINFORCEMENT AROUND OPENING.

L TYPICAL DETAIL REINFORCING WALL OPENINGS

SCALE: NTS

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DATE
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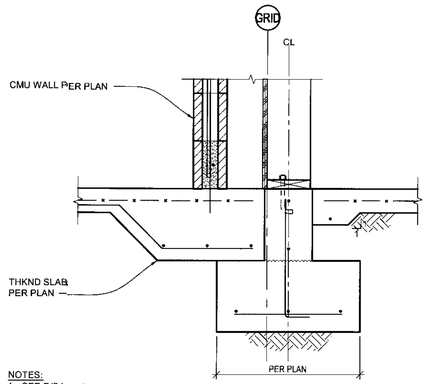
BCRA NO.
14013
CADD FILE
14013S-401.DWG
SHEET TITLE
TYPICAL
CONCRETE DETAILS

SHEET
S4.01

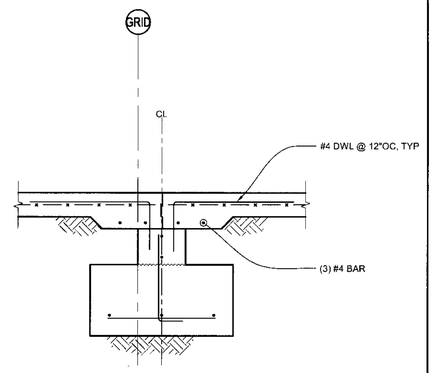
100% CD SET

Date Plotted: Aug 19, 2014 – 11:04am Filename: 14013S-401.dwg By: VGOLOVCHIK



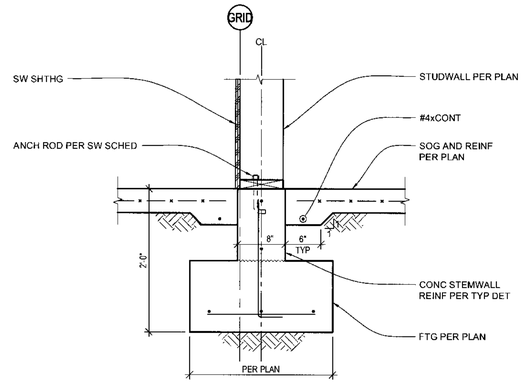
NOTES:
1. SEE D/S4.11 FOR ADDITIONAL INFORMATION.

B **INTERIOR WALL FOOTING NEXT TO CMU**
SCALE: 1" = 1'-0"

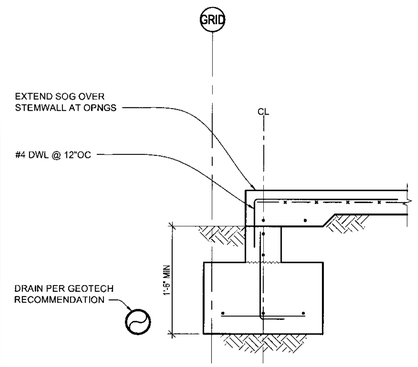


NOTES:
1. SEE M/S4.11 FOR ADDITIONAL INFORMATION.

C **INTERIOR WALL FOOTING AT OPENING**
SCALE: 1" = 1'-0"

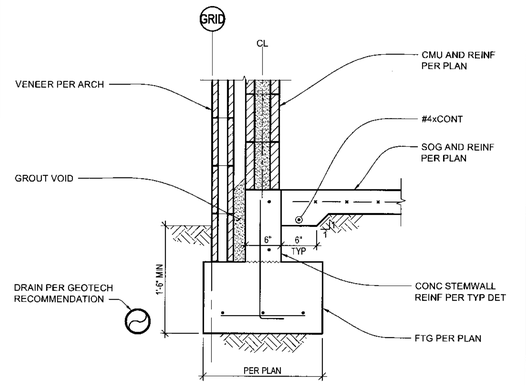


D **INTERIOR WALL FOOTING**
SCALE: 1" = 1'-0"

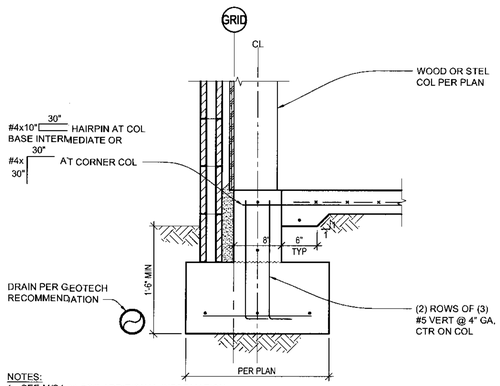


NOTES:
1. SEE M/S4.11 FOR ADDITIONAL INFORMATION.

G **EXTERIOR WALL FOOTING AT OPENING**
SCALE: 1" = 1'-0"

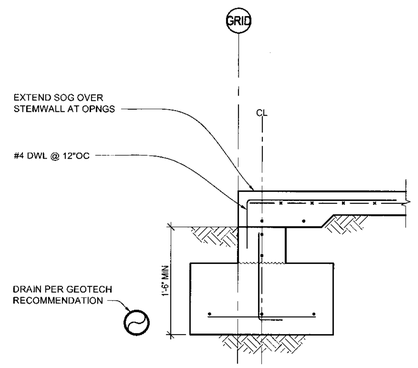


H **EXTERIOR WALL FOOTING**
SCALE: 1" = 1'-0"



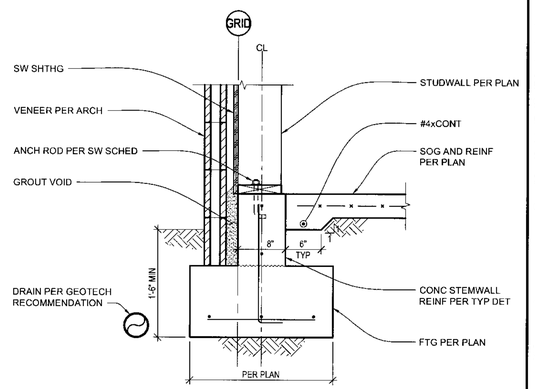
NOTES:
1. SEE M/S4.11 FOR ADDITIONAL INFORMATION.

K **EXTERIOR COLUMN SPOT FOOTING**
SCALE: 1" = 1'-0"



NOTES:
1. SEE M/S4.11 FOR ADDITIONAL INFORMATION.

L **EXTERIOR WALL FOOTING AT OPENING**
SCALE: 1" = 1'-0"



M **EXTERIOR WALL FOOTING**
SCALE: 1" = 1'-0"

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YELM, WA 98597

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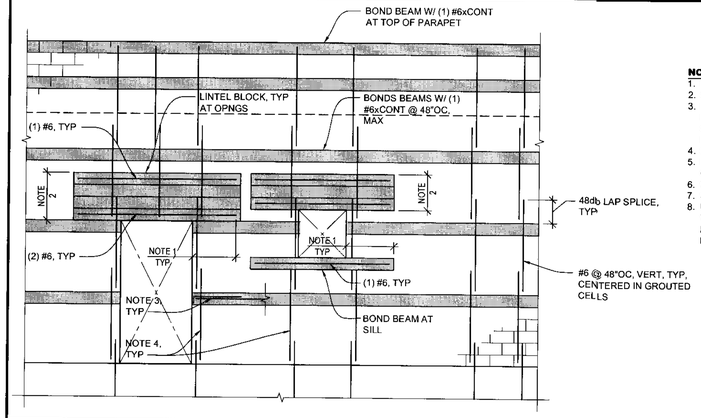
DATE
08.20.14
BCRA NO.
14013
CADD FILE
14013S-411.DWG
SHEET TITLE
CONCRETE DETAILS

SHEET
S4.11

100% CD SET

Date Plotted: Aug 19, 2014 – 11:04am Filename: 14013S-411.dwg By: VGOLOVCHIK

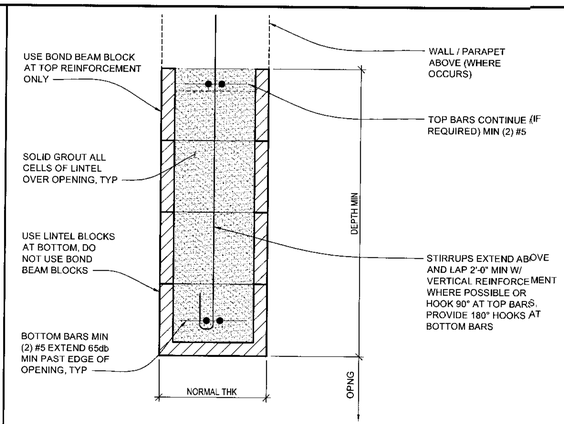


NOTES:

1. EMBED BARS 65db MIN, PAST OPENINGS.
2. SEE TYPICAL CMU LINTEL BEAM DETAIL.
3. BOND BEAMS AND VERTICAL BARS TERMINATING AT OPENINGS SHALL HAVE HOOKED BARS TO MATCH AND LAP 65db WITH REINFORCEMENT. BOND BEAMS SHALL HAVE CORNER BARS TO MATCH AND LAP 65db WITH LONGITUDINAL REINFORCEMENT AT ALL CORNERS.
4. SEE TYPICAL CMU JAMB REINFORCING DETAIL.
5. REFER TO PLANS AND DETAILS FOR LOCATIONS OF ADDED BOND BEAMS AND OTHER REINFORCING.
6. WALLS TO BE FULLY GROUTED.
7. SEE S001 FOR ADDITIONAL INFORMATION.
8. UNLESS NOTED OTHERWISE, REINFORCE WALLS AS FOLLOWS- VERTICAL REINFORCING: #5 @ 32"OC AT WALL CENTERLINE. HORIZONTAL BOND BEAM REINFORCING: (2) #5 @ 32" OC SEE WALL ELEVATIONS.

A TYPICAL DETAIL MASONRY WALL AND OPENING REINFORCEMENT

SCALE: NTS

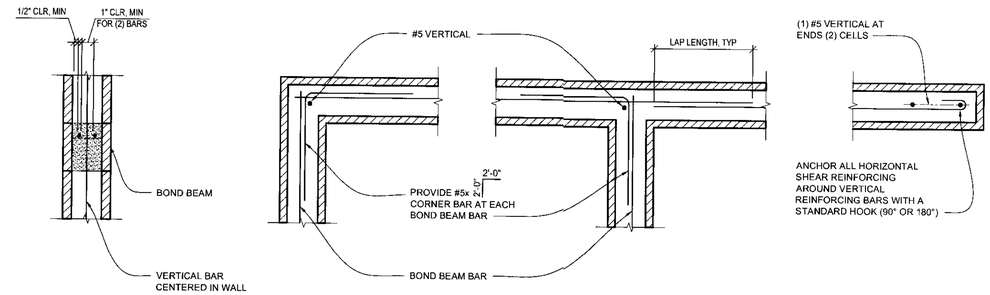


CMU LINTEL BEAM SCHEDULE

MARK	DEPTH	TOP BARS	BOT BARS	STIRRUPS	REMARKS
L1	24	-	(2) #5	#5 @ 16"OC	AT ALL SPANS 3'-4" AND LESS, UNO

C TYPICAL DETAIL CMU LINTEL BEAM

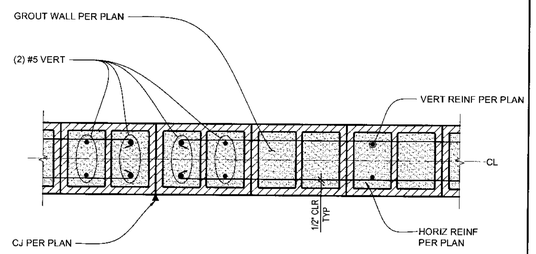
SCALE: NTS



SECTION AT BOND BEAM | **PLAN VIEW AT CORNERS** | **PLAN VIEW AT INTERSECTION** | **PLAN VIEW AT ENDS**

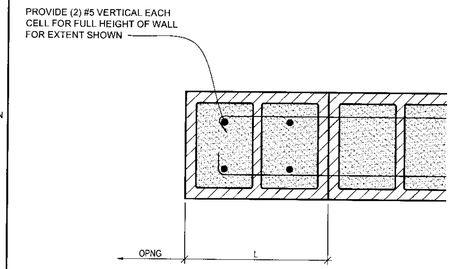
E TYPICAL DETAIL TYPICAL WALL DETAILS

SCALE: NTS



G TYPICAL DETAIL REINFORCING AT CMU CONTROL JOINT

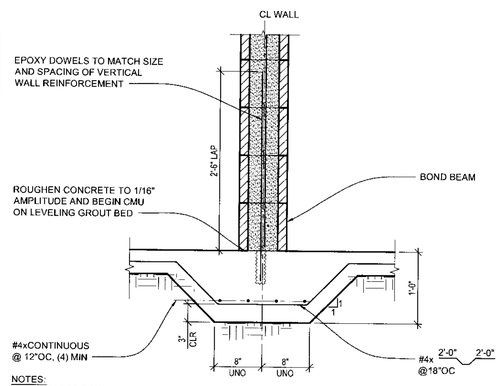
SCALE: NTS



L = 16" FOR OPENING UP TO 12'-8"

H TYPICAL DETAIL 12" CMU JAMB REINFORCING

SCALE: NTS



NOTES:
1. EPOXY FOR DOWELS SHALL BE HILTI HIT HY200 OR SIMPSON SET EPOXY. EMBEDMENT SHALL BE 5" MINIMUM.

M TYPICAL DETAIL CMU PARTITION WALL AT SLAB

SCALE: NTS

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14013S-701.DWG

SHEET TITLE
TYPICAL
MASONRY DETAILS

SHEET
S7.01

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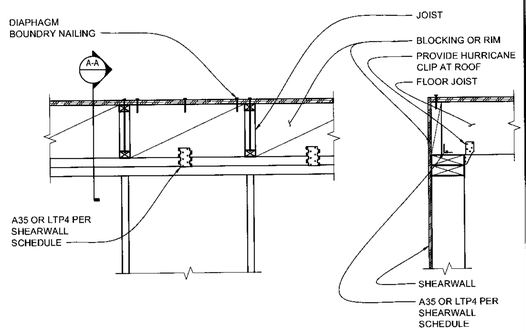
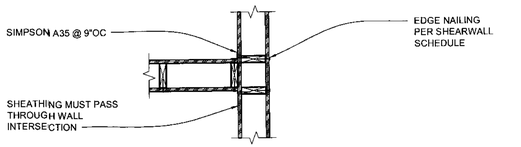
Date Plotted: Aug 19, 2014 – 11:05am Filename: 14013S–701.dwg By: VKOLOVCHIK



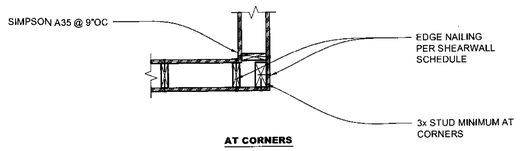
SECTION A-A

C TYPICAL DETAIL BLOCKING AT TOP OF WALL AND BEAM

SCALE: NTS

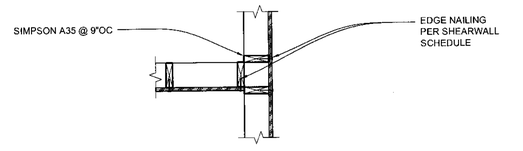


AT INTERSECTIONS

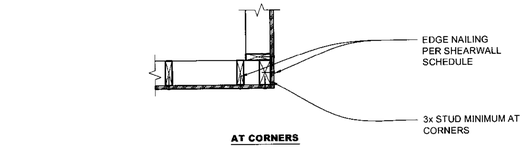


AT CORNERS

PLAN VIEW - SHEATHING BOTH SIDES



AT INTERSECTIONS



AT CORNERS

PLAN VIEW - SHEATHING ONE SIDE

F TYPICAL DETAIL SHEARWALL INTERSECTION AND CORNERS

SCALE: NTS

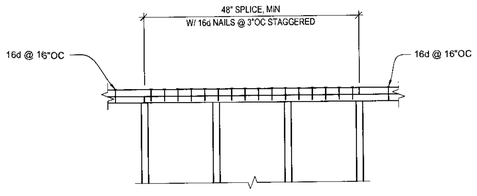
SHEARWALL SCHEDULE

MARK	SHEATHING	NAIL SPACING		TOP PLATE / SILL CONNECTION A35 or LTP4	BOTTOM PLATE CONNECTION WOOD (CONCRETE)	MINIMUM FRAMING MEMBER AT PANEL EDGES
		EDGE	FIELD			
SW-1	15/32" APA R.S.	6"	12"	16"	16d @ 4" (5/8" AB @ 44")	2x
SW-2	15/32" APA R.S.	4"	12"	12"	16d @ 4" (5/8" AB @ 30")	3x
SW-3	15/32" APA R.S.	3"	12"	10"	16d @ 4" (5/8" AB @ 24")	3x

NOTES:
1. BLOCKING REQUIRED FOR ALL SHEARWALLS. SOLID BLOCKING SHALL BE INSTALLED AT ALL HORIZONTAL SHEATHING PANEL BUTT JOINTS.
2. NAILS TO BE 10D COMMON.
3. BOTTOM PLATE TO BE PRESSURE TREATED AT ATTACHMENT TO CONCRETE.
4. (2) 2x FRAMING MAY BE USED IN LIEU OF 3x FRAMING. MEMBERS SHALL BE SISTERED WITH ONE HALF OF THE SHEARWALL EDGE NAILING SHALL BE STAGGERED EQUALLY BETWEEN SISTERED MEMBERS.
5.
6. RESILIENT CHANNELS SHALL NOT BE USED BETWEEN SPECIFIED SHEATHING AND STUDS AT SHEARWALLS.
7. PERFORATED SHEARWALLS PER PERFORATED SHEARWALL DETAIL TYPICAL.

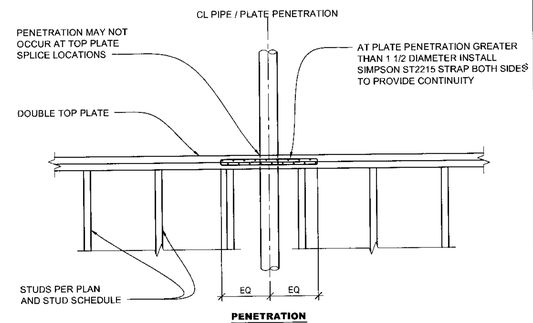
H TYPICAL DETAIL SHEARWALL SCHEDULE

SCALE: NTS



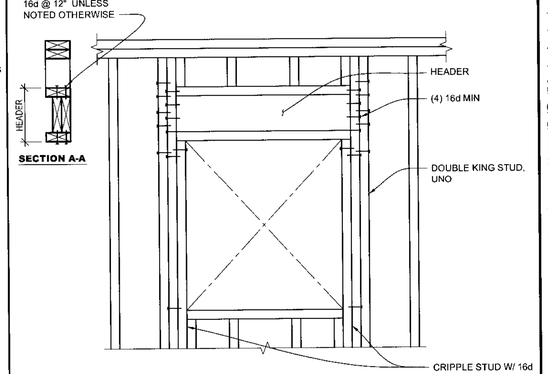
NAILED SPLICE

NOTES:
1. MINIMUM PLATE SPLICE IS (16) 16d NAILS FOR 2x PLATES.
2. PROVIDE CONTINUOUS TOP PLATES (NO JOINTS) WHERE PLATES ARE 14'-0" OR LESS IN LENGTH.
3. PLATE BUTT JOINTS TO OCCUR DIRECTLY OVER STUDS.



PENETRATION

NOTES:
1. MAXIMUM PLATE PENETRATION DIAMETER = PLATE WIDTH - 1 1/2".



NOTES:
1. FOR NAILS NOT SHOWN, SEE STRUCTURAL NOTES.

K TYPICAL DETAIL AT DOUBLE TOP PLATE

SCALE: NTS

M TYPICAL DETAIL HEADER

SCALE: NTS

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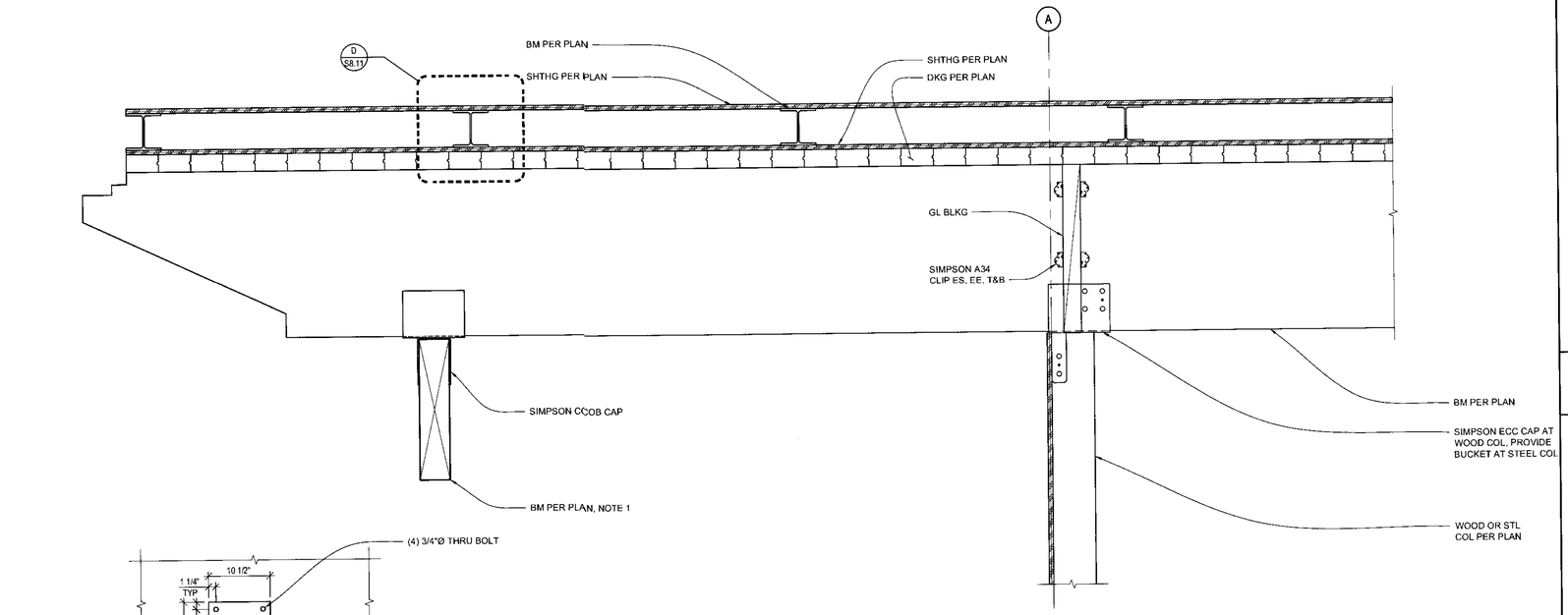
14013S-801.DWG

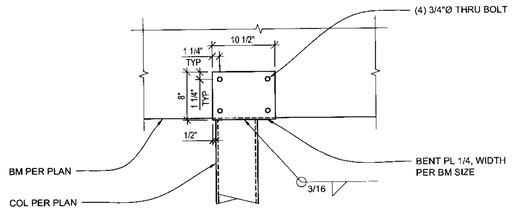
SHEET TITLE
TYPICAL
WOOD DETAILS

SHEET
S8.01

100% CD SET

Date Plotted: Aug. 19, 2014 – 11:05am Filename: 14013S-801.dwg By: VOOLOVCHIK



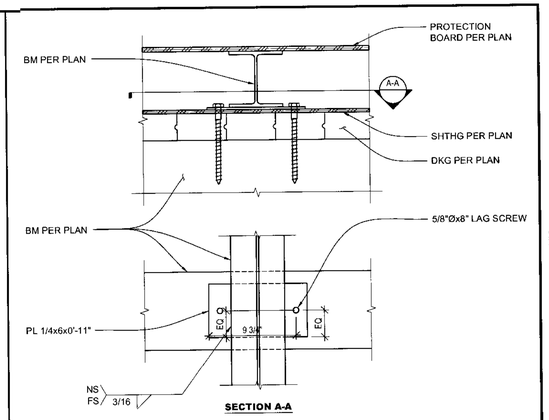


BUCKET AT STEEL COLUMN

NOTES:
1. ERECT THIS BEAM AFTER ALL OF THE ROOF FRAMING AND DECKING ARE INSTALLED.

E HIGH ROOF BEAM CONNECTION

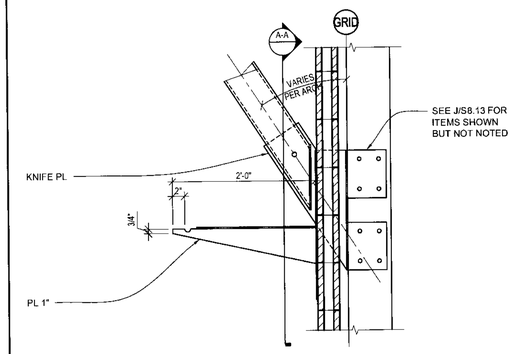
SCALE: 1" = 1'-0"

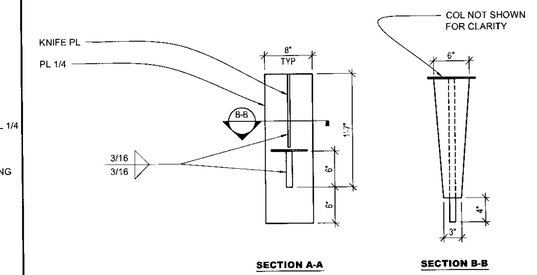


SECTION A-A

D STEEL TO WOOD BEAM CONNECTION

SCALE: 1 1/2" = 1'-0"

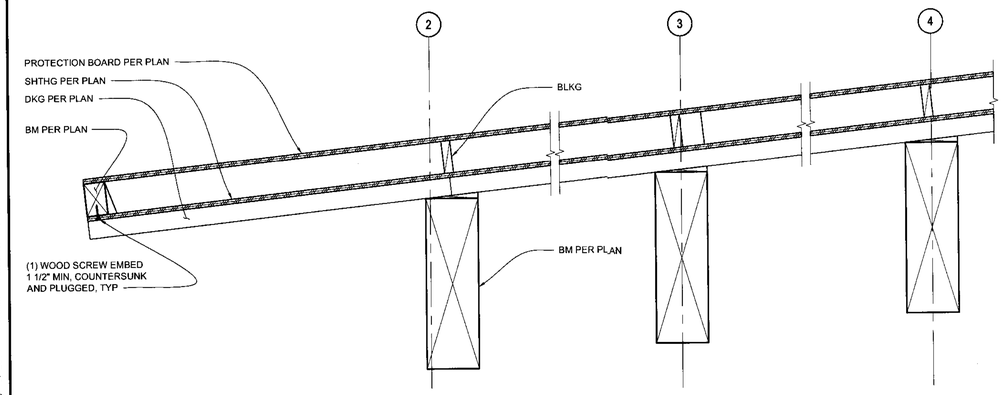




SECTION A-A **SECTION B-B**

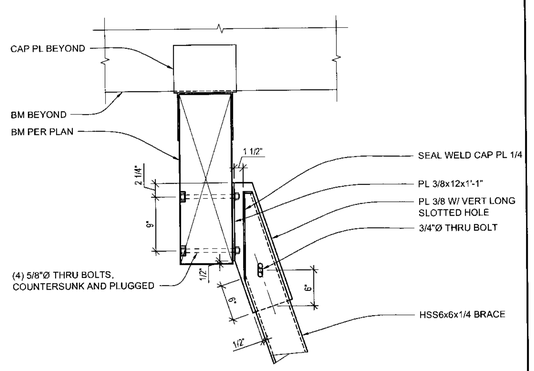
M STEEL TO WOOD BEAM CONNECTION

SCALE: 1" = 1'-0"



J HIGH ROOF BEAM CONNECTION

SCALE: 1" = 1'-0"



L STEEL TO WOOD BEAM CONNECTION

SCALE: 1" = 1'-0"

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14013
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14013S-811.DWG
SHEET TITLE
WOOD DETAILS

SHEET
S8.11

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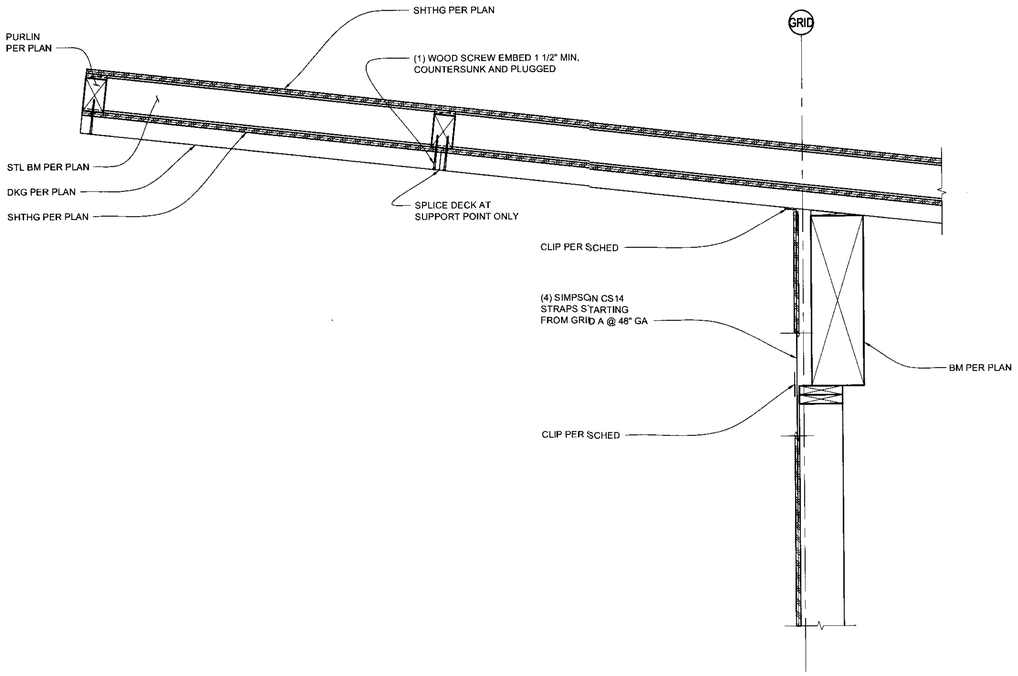
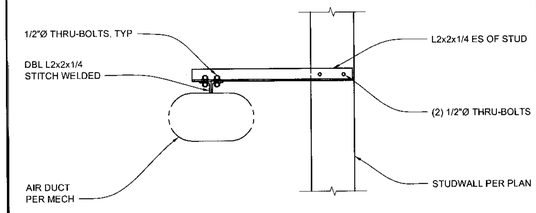
Date Plotted: Aug. 19, 2014 – 11:02am Filename: 14013S-811.dwg By: VOGLOWCHK



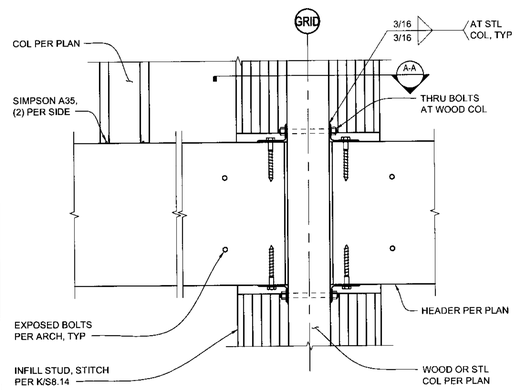
E HIGH ROOF BEAM CONNECTION

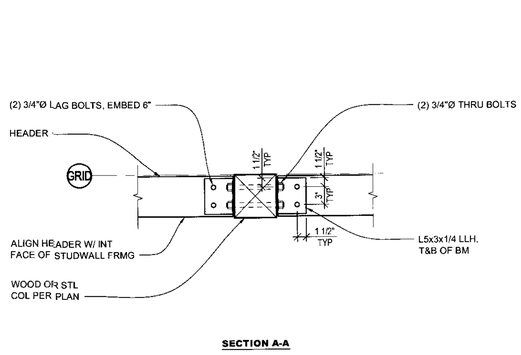
SCALE: 1" = 1'-0"



H AIR DUCT SUPPORT INTERIOR SIDE OF PERIMETER WALL

SCALE: 1" = 1'-0"





SECTION A-A

J EXTERIOR HEADER TO COLUMN CONNECTION

SCALE: 1" = 1'-0"

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CADD FILE
14013S-812.DWG
SHEET TITLE
WOOD DETAILS

SHEET
S8.12

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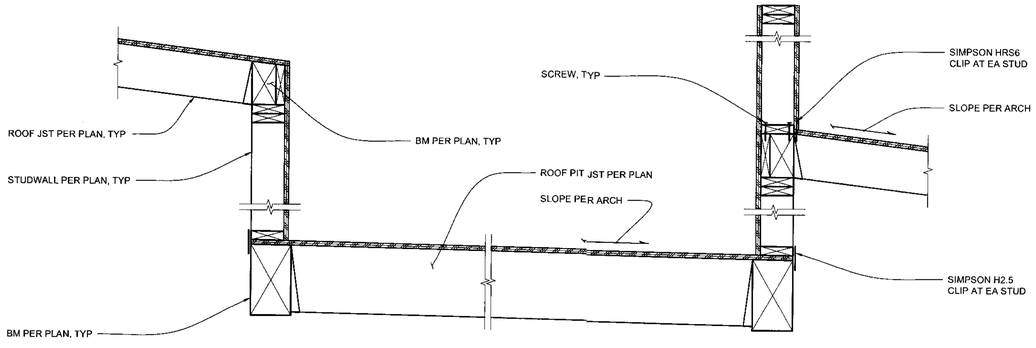
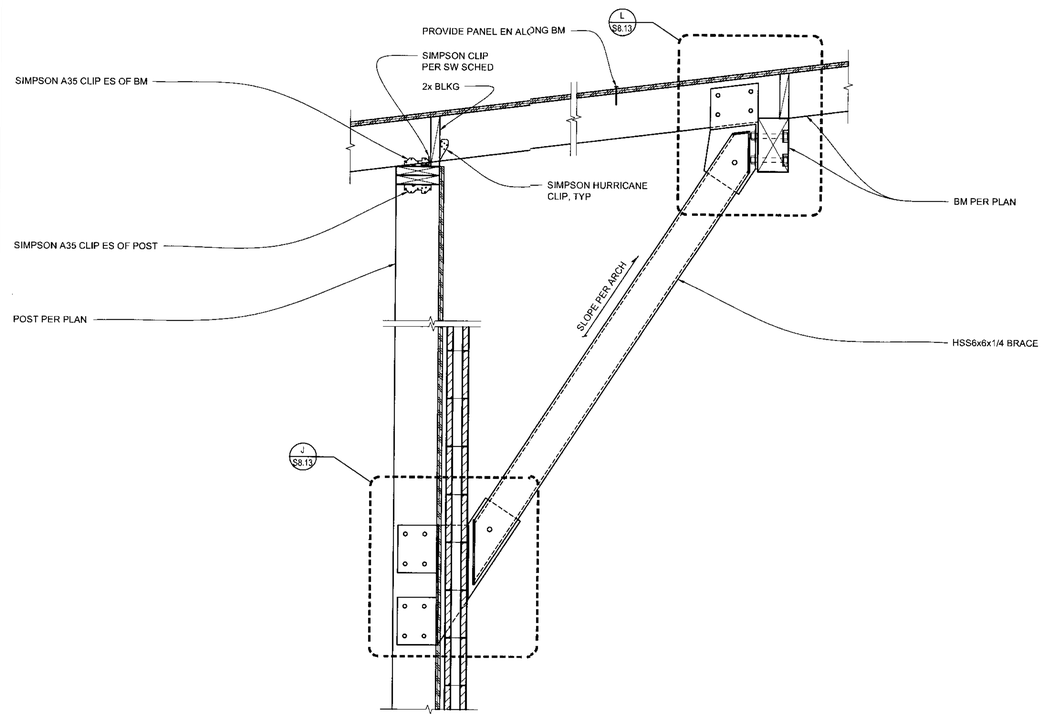


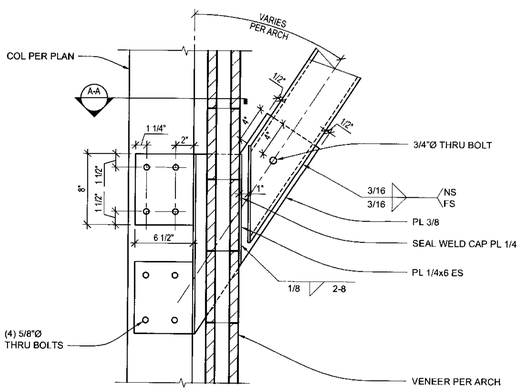
A LOWER ROOF PIT FRAMING SECTION

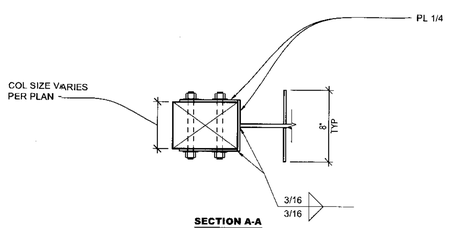
SCALE: 1" = 1'-0"



G ROOF PARAPET CONNECTION

SCALE: 1" = 1'-0"

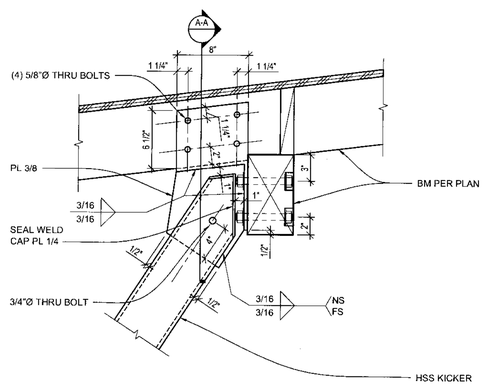


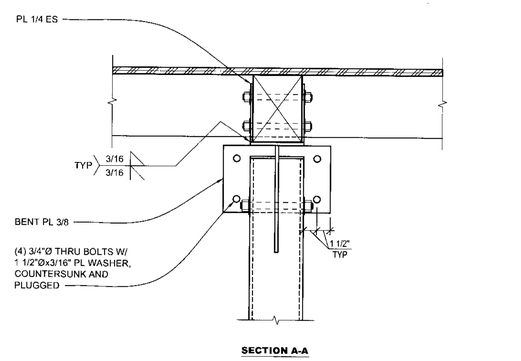


SECTION A-A

J ROOF PARAPET CONNECTION

SCALE: 1 1/2" = 1'-0"





SECTION A-A

L ROOF PARAPET CONNECTION

SCALE: 1 1/2" = 1'-0"

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14013S-813.DWG

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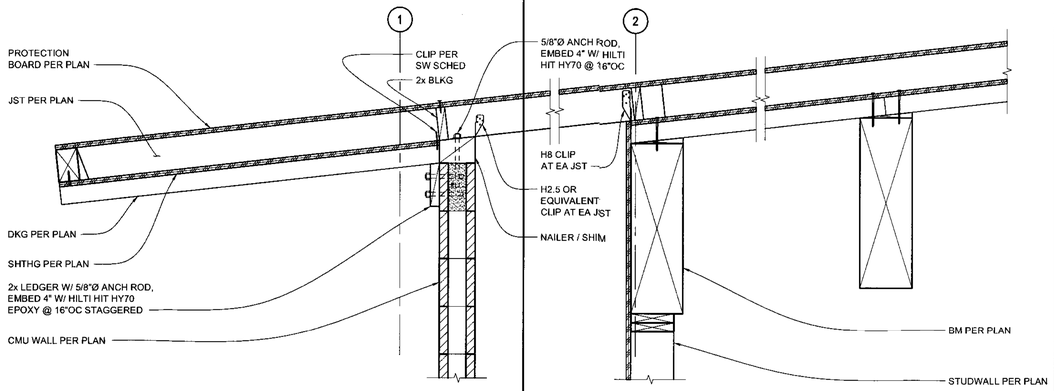
S8.13

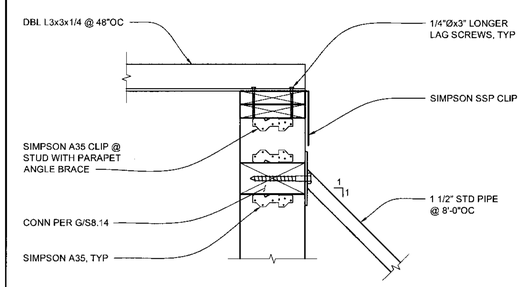
100% CD SET

Date Plotted: Aug 19, 2014 – 11:05am Filename: 14013S-813.dwg By: VOOLO/VC/HK



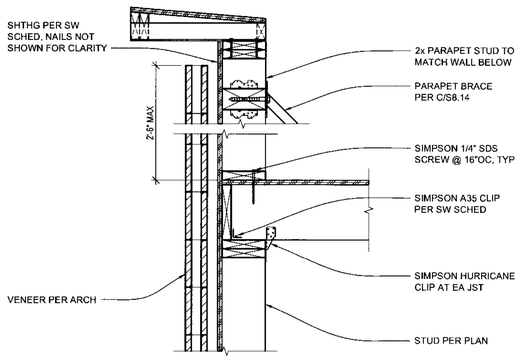
A HIGH ROOF BEAM CONNECTION

SCALE: 1" = 1'-0"

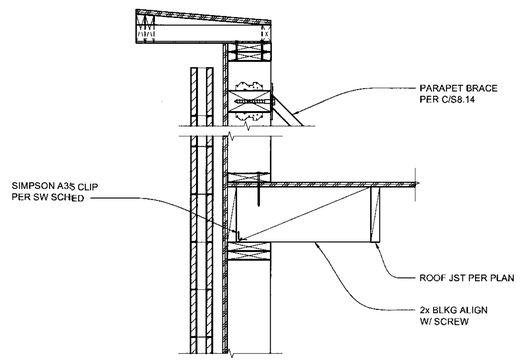


C ROOF PARAPET BRACE

SCALE: 1 1/2" = 1'-0"



PERPENDICULAR CONDITION



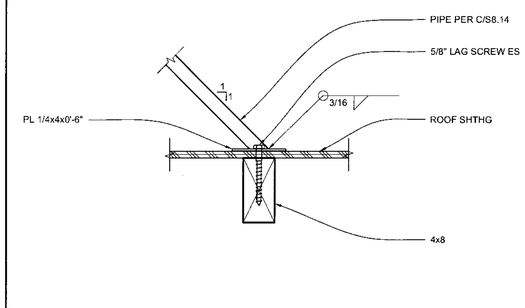
PARALLEL CONDITION

NOTES:
1. SEE G/S8.14 FOR PARAPET BRACE TO ROOF CONNECTION.

NOTES:
1. SEE G/S8.14 FOR PARAPET BRACE TO ROOF CONNECTION.

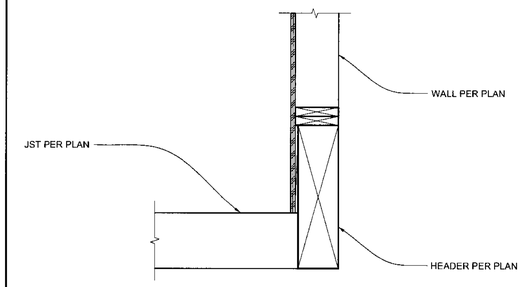
E ROOF PARAPET CONNECTION

SCALE: 1" = 1'-0"



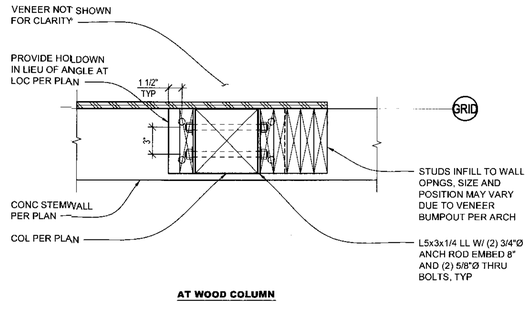
G ROOF PARAPET BRACE

SCALE: 1 1/2" = 1'-0"

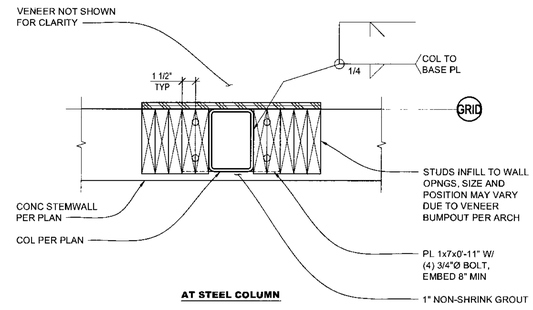


H LOW ROOF JOIST TO HEADER CONNECTION

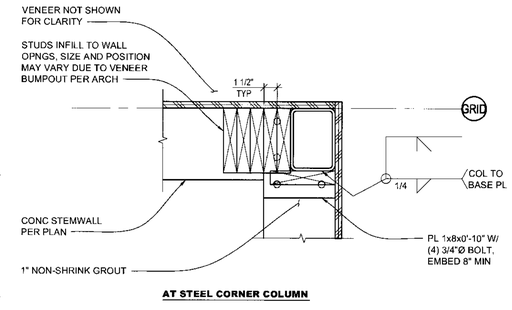
SCALE: 1" = 1'-0"



AT WOOD COLUMN



AT STEEL COLUMN



AT STEEL CORNER COLUMN

NOTES:
1. FASTEN ADJACENT 2x KING STUD TO THE COLUMN W/ HILTI XU 0.145 POWDER ACTUATED FASTENER @ 18"OC STAGGERED, AND STUD TO STUD WITH 10d NAILS @ 12"OC STAGGERED.
2. COLUMN CONDITION AT GRIDS A AND B.

K HSS AND PSL COLUMN BASE CONNECTION

SCALE: 1 1/2" = 1'-0"

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7/9/14

PROJECT
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CITY OF YELM COMMUNITY CENTER
301 2ND STREET SE
YELM, WA 98597

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE
14013S-814.DWG

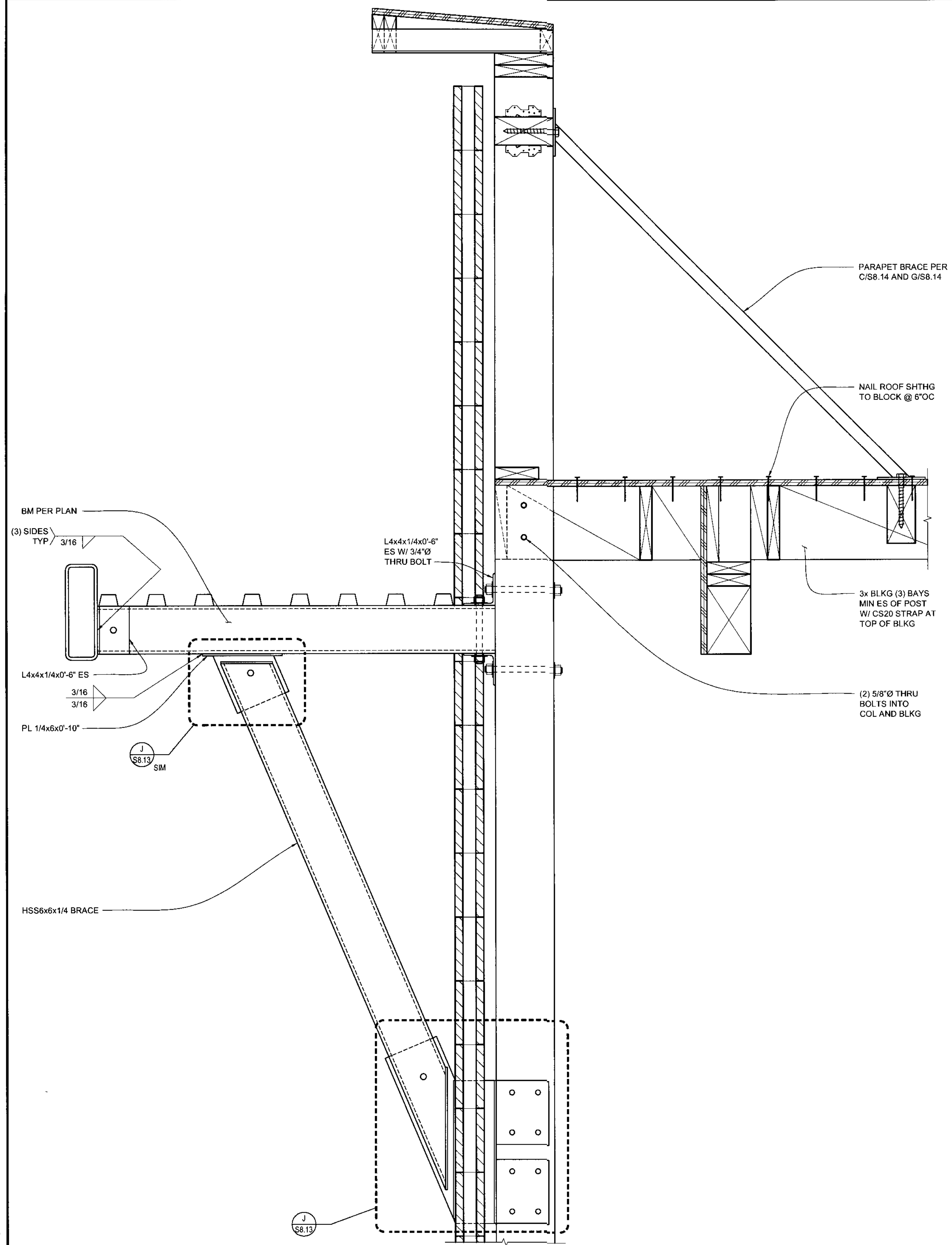
SHEET TITLE
WOOD DETAILS

SHEET

S8.14

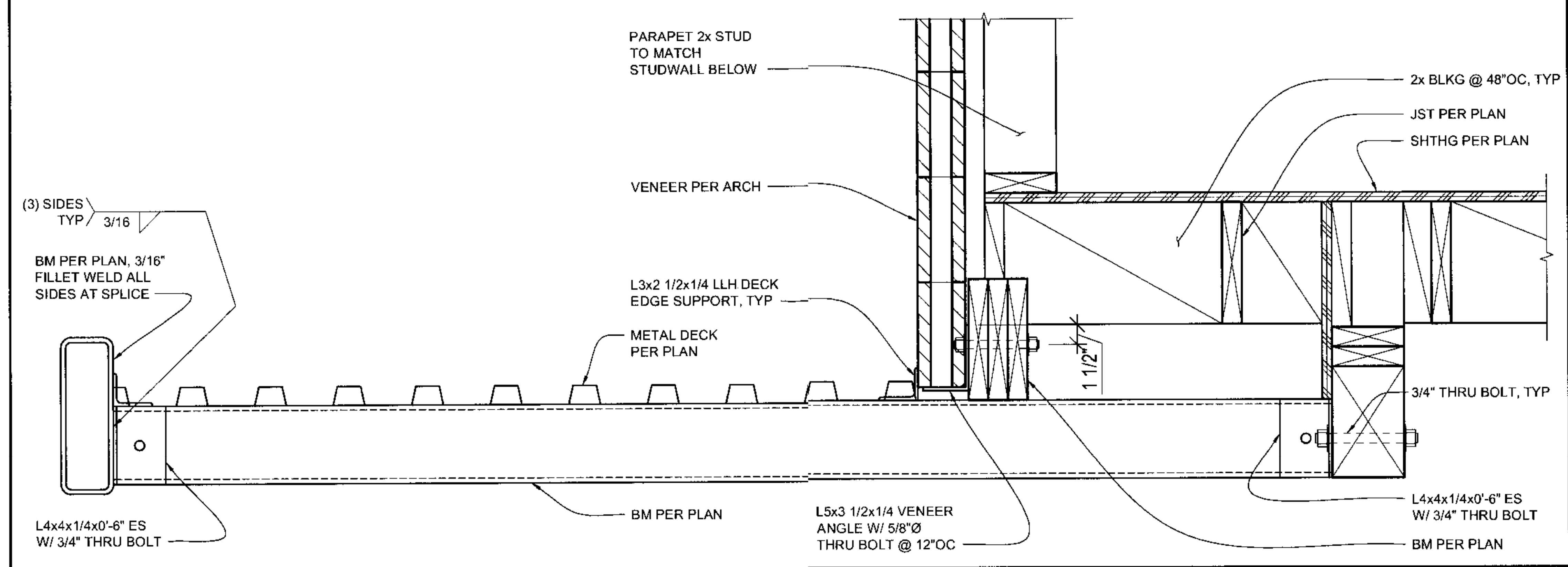
100% CD SET

Date Plotted: Aug 19, 2014 – 11:05am Filename: 14013S-814.dwg By: WOOLOWCHIK



J CANOPY CONNECTION

SCALE: 1 1/2" = 1'-0"



C CANOPY CONNECTION

SCALE: 1 1/2" = 1'-0"

Date Plotted: Aug 19, 2014 – 11:05am Filename: 14013S-815.dwg By: VGOLOVCHIK

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SEAL

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YELM, WA 98597

REVISIONS

DATE
08.20.14
BCRA NO.
14013
CADD FILE
14013S-815.DWG
SHEET TITLE
WOOD DETAILS

BCRA

SHEET
S8.15

100% CD SET

AIR TERMINAL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	MOUNTING TYPE	STYLE	NOTES
SD-1	TITUS	MCD	SURFACE MOUNT	MODULAR CORE	1
SD-2	SHOEMAKER	RS34	DUCT MOUNT	LOUVER FACE	1
RG-1	TITUS	50F	SURFACE MOUNT	EGGCRATE	1
RG-2	TITUS	350RL	SURFACE MOUNT	LOUVER FACE	1
EG-1	TITUS	50F	SURFACE MOUNT	EGGCRATE	1

NOTES:

1. PROVIDE AIR BALANCING DEVICE AT EACH AIR TERMINAL.

ELECTRIC HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	ELECTRICAL			NOTES
			KW	VOLT	PHASE	
UH-1	INDEECO	AS2448-515-208	0.515	208	1	
UH-2	INDEECO	AS2448-515-208	0.515	208	1	
UH-3	INDEECO	AS2448-515-208	0.515	208	1	
UH-4	INDEECO	932U01500V	1.125	208	1	
UH-5	INDEECO	C-10508	1.050	208	1	
UH-6	INDEECO	AS2448-515-208	0.515	208	1	

NOTES:

FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	CFM	SP (IN)	RPM	SOUND POWER (UNITS)	MOUNTING	ELECTRICAL				STARTER				WEIGHT (LBS)	NOTES
									HP	W	VOLT	PHASE	VFD	MFG	EC	N/A		
EF-1	GREENHECK	CUE-141	H-1	2400	0.75	1725	65	ROOF	1	-	208	1	-	-	X	-	79	3
EF-2	GREENHECK	CUE-080-VG	RESTROOMS	420	0.25	1665	56	ROOF	1/6	-	208	1	-	-	X	-	44	2,4,5
EF-3	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1
EF-4	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1
EF-5	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1

NOTES:

1. FAN OPERATES UPON ACTIVATION OF LIGHT SWITCH.
2. FAN OPERATES ON AN OCCUPIED/UNOCCUPIED SCHEDULE.
3. INTEGRATE FAN CONTROLS TO ACTIVATE WHEN COOKING EQUIPMENT IS ACTIVE.
4. PROVIDE WITH HINGED CURB CAP WITH CABLES, GREASE TRAP, AND MUST HAVE A UL 762 RATING.
5. ENSURE DUCT EXTENDS 18 INCHES ABOVE THE ROOF SURFACE AND EXHAUST DISCHARGE OPENING BE NOT LESS THAN 40 INCHES ABOVE THE ROOF SURFACE.

KITCHEN HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DIMENSIONS (IN)		SUPPLY FAN	EXHAUST FAN	LIGHTS		FILTERS			RATING	ELECTRICAL				NOTES
			LENGTH	WIDTH			QTY	TYPE	QTY	SIZE (IN)	TYPE		VOLT	PHASE	AMPS		
H-1	-	-	72	48	-	2400	-	-	-	-	-	-	-	-	-	-	1

NOTES:

1. EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLY. HOOD INSTALLED BY OTHERS.

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	OSA CFM	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY AFUE	FAN		ELECTRICAL				WEIGHT (LBS)	NOTES
							HP	RPM	VOLT	PHASE	MCA	MOCP		
MUA-1	GREENHECK	IG-109-H10	2400	175	140	80	1-1/2	1390	208	3	10.8	15	779	1,2,3

NOTES:

1. PROVIDE WITH MODULATING GAS BURNER.
2. MOTOR EFFICIENCY MEETS NEMA STD MG-1.
3. UNIT SHALL ACTIVATE UPON ACTIVATION OF EF-1.

AIR HANDLING UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL CAPACITY COOLING	SENSIBLE CAPACITY COOLING	INPUT HEATING	OUTPUT HEATING	EFFICIENCY		SUPPLY FAN			MIN OSA	FILTER EFFICIENCY		ELECTRICAL				STARTER				WEIGHT (LBS)	NOTES
							EER	IEER	CFM	RPM	ESP		PRE	FINAL	VOLT	PHASE	MCA	MOCP	VFD	MFG	EC	N/A		
AHU-1	TRANE	YHC092F	88.14	65.02	150	120	12.6	14.5	3000	1242	1	600	-	MERV-8	208	3	38.2	60	-	-	X	-	1026	1,2
AHU-2	TRANE	YHC060F	58.25	42.75	80	64	15	-	2000	1040	1	550	-	MERV-8	208	3	23	35	-	-	X	-	755	1,2

NOTES:

1. PROVIDE WITH 100% CAPABLE LOW LEAK ECONOMIZER.
2. PROVIDE WITH SEISMIC ISOLATION ROOF CURBS.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP
	EXHAUST/RETURN AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	EXHAUST/RETURN AIR DUCT DOWN
	ROUND DUCT UP
	SUPPLY CEILING AIR TERMINAL (SQUARE)
	RETURN CEILING AIR TERMINAL (SQUARE)
M #####	MOTORIZED DAMPER
	FLEXIBLE DUCT
12X12 CD-1 / 100 27	DIFFUSER CALLOUT (SIZE, TYPE, CFM, 50 FPM THROW)
	BRANCH - SIDE CONNECTION
	CAP END OF PIPE
	PIPE OR DUCT BREAK (GRAPHIC ONLY - CONTINUOUS PIPE/DUCT)
T	THERMOSTAT
TE	TEMPERATURE SENSOR
OS	OCCUPANCY SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
	RETURN/EXHAUST/TRANSFER AIRFLOW
	SUPPLY AIRFLOW
	PIPE OR DUCT DOWN

ABBREVIATION LIST

AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AMP	AMPERES
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
HP	HORSEPOWER
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH
KW	KILOWATT
L	LENGTH
LB	POUND
LBS	POUNDS
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
OSA	OUTSIDE AIR
QTY	QUANTITY
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
W/	WITH
WI	WIDTH

GENERAL NOTES

1. PROVIDE COMMISSIONING PER SECTION C408 OF THE WASHINGTON STATE ENERGY CODE - COMMERCIAL PROVISIONS.
2. OBTAIN AND PAY FOR ALL PERMITS AND CONSTRUCTION FEES. FURNISH FINAL CERTIFICATE TO OWNER SHOWING COMPLIANCE WITH CODE REQUIREMENTS
3. PROVIDE EACH ZONE WITH THERMOSTATIC CONTROLS THAT PROVIDE A DEADBAND OF AT LEAST 5 DEGRIUES FAHRENHEIT IN WHICH HEATING AND COOLING ENERGY IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM. THERMOSTATS SHALL BE CAPABLE OF THERMOSTATIC SETBACK, AUTOMATIC SETBACK AND SHUTDOWN, AND AUTOMATIC START CAPABILITIES PER WASHINGTON STATE ENERGY CODE SECTION C403.2.4.3
4. LOCATE ALL VALVES, TRAPS, TEST PORTS, DAMPERS, CONTROLS, CLEANOUTS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANELS SHALL BE PROVIDED & COORDINATED WITH ARCHITECTURAL SPECIFICATIONS.
5. ALL PIPING & DUCTWORK IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING IN AREAS WITH HARD LID OR DROPPED CEILING. COORDINATE WITH ARCHITECTURAL DOCUMENTS FOR FURRING & CHASE LOCATIONS & SIZES.
6. THE FIRST FIGURE OF DUCT SIZE CALLOUTS INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS. PROVIDE ANY APPLICABLE DUCT LINING AND INSULATION PER THESE PLANS AND SPECIFICATIONS.
7. DUCTWORK SHALL BE 2.0" PRESSURE CLASS UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
8. CONSTRUCT DUCTWORK ACCORDING TOWASHINGTON STATE ENERGY CODE SECTION C403.2.7.3.
9. PROVIDE TURNING VANES IN ALL MITERED RECTANGULAR DUCT ELBOWS & TEES.
10. PROVIDE BALANCING DEVICES ON ALL NEW AIR TERMINALS & OUTSIDE AIR DUCT SECTIONS.
11. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED PER WASHINGTON STATE ENERGY CODE SECTION C403.2.7.2.
12. TOTAL STATIC PRESSURE NOTED IN SCHEDULES SHALL BE ASSUMED TO INCLUDE DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
13. ALL SUPPLY AIR FILTERS SHALL BE MERV-8 RATED.
14. AIR TERMINAL SIZES SHOWN ON PLANS ARE NECK SIZES. PROVIDE ADDITIONAL PANS, HARDWARE, ETC., REQUIRED TO INSTALL AIR TERMINAL IN CEILING SYSTEM.
15. AIR TERMINALS IN UNFINISHED SPACES OR OPEN CEILING AREAS SHALL BE INSTALLED AT 12' AFF UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
16. SEISMIC PROVISIONS ARE REQUIRED - REFER TO SPECIFICATIONS.
17. COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF MECHANICAL CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
18. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
19. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
20. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM LAYOUT, DESIGN, AND COORDINATING PIPE PLACEMENT AND ROUTING OF PIPING WITH OTHER TRADES. SHOP DRAWINGS SHALL COMPLY WITH NFPA REQUIREMENTS. DUCTWORK AND OTHER PIPING SYSTEMS HAVE ROUTING PRIORITY OVER FIRE PROTECTION PIPING.
21. SLOPE HORIZONTAL FIRE PROTECTION PIPING TO FACILITATE DRAINAGE TO SYSTEM LOW POINTS. PROVIDE DRAIN VALVES AT ALL SYSTEM LOW POINTS.
22. A SHORT DASH IN A SCHEDULE TABLE CELL INDICATES THAT THE COLUMN HEADING IS NOT USED OR NOT APPLICABLE TO THAT SCHEDULED ITEM.

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SEAL

BRUCE J. GUSTAFSON STATE OF WASHINGTON 22236 REGISTERED PROFESSIONAL ENGINEER 08.18.2014

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE

SHEET TITLE
LEGEND AND ABBREVIATIONS

SHEET
M001

100% CD SET

14009_M001.dwg 8/18/14 04:41 PM 1:1
Date Plotted: Aug 18, 2014 - 4:41pm Filename: 14009_M001.dwg By: FRANCIS

GENERAL NOTES

1. DUCTWORK IN OPEN CEILING SPACES SHALL BE INSTALLED AT LEAST 12' AFF.

2. GREASE DUCT CONSTRUCTION.

2.1 DUCT SHALL BE, PER IMC CH. 5 SECTION 506, 2012, CONSTRUCTED OF STEEL HAVING A MINIMUM THICKNESS OF .0575 INCH (NO. 16 GAGE) OR STAINLESS STEEL NO LESS THAN 0.0450 INCH (NO. 18 GAGE) IN THICKNESS.

2.2 DUCT SHALL SLOPE NOT LESS THAN ONE-FOURTH UNIT VERTICAL AND IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) TOWARD THE HOOD.

2.3 PROVIDE 18" CLEARANCE TO COMBUSTIBLE CONSTRUCTION AND A 3" CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES.

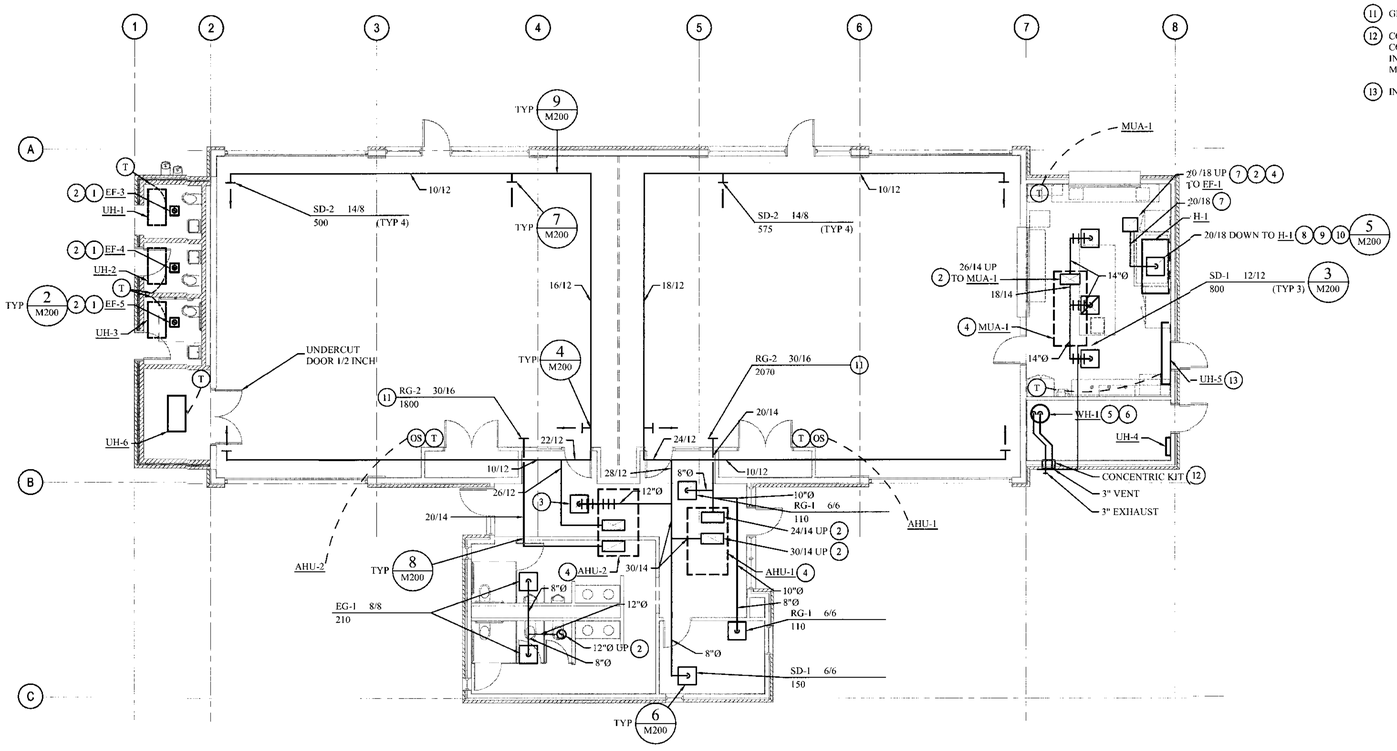
2.4 ENSURE DUCT TO HOOD JOINTS ARE MADE WITH CONTINUOUS INTERNAL OR EXTERNAL LIQUID-TIGHT WELDED OR BRAZED JOINTS. ENSURE HOOD JOINTS ARE ACCESSIBLE TO INSPECTION AND WITHOUT GREASE TRAPS.

2.5 JOINTS, SEAMS & PENETRATIONS SHALL BE MADE WITH A CONTINUOUS, LIQUID-TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM.

3. EXPOSED DUCTWORK IN MEETING AREAS SHALL BE EXPOSED, FLAT OVAL TYPE.

PLAN NOTES

1. 6"Ø UP TO ROOF.
2. PROVIDE TRANSITION TO ROOFTOP UNIT CAP OR FAN.
3. SD-1 12/12 / 575
4. UNIT ON ROOF IN THIS APPROXIMATE LOCATION.
5. WH-1 HORIZONTAL EXHAUST PIPING SHALL HAVE A MIN 1/8" RISE PER FIVE FEET.
6. WH-1 VENT AND EXHAUST PIPING MUST BE A MINIMUM 18" FROM THE INTERIOR ADJOINING WALL, MINIMUM OF 7' ABOVE TOP OF SIDEWALK AND AT LEAST 1' BELOW ROOF OVER HANG.
7. GREASE DUCT
8. HOOD MUST EXTEND AT LEAST 6" BEYOND THE TOP EDGE OF THE HORIZONTAL SURFACES OF THE KITCHEN EQUIPMENT. HOOD HEIGHT ABOVE SURFACES SHALL BE NO MORE THAN 4'
9. LISTED GREASE FILTERS SHALL BE INSTALLED SUCH THAT THE LOWER EDGE IS 6" ABOVE THE HEATED SURFACES.
10. INSTALL WITH NON-COMBUSTIBLE SUPPORTS. SUPPORTS SHALL BE STAINLESS STEEL MOUNTING BRACKETS, STRUTS, AND ⅜" DIAMETER THREADED HANGER RODS. HANGER SPACING SHALL BE 48" ON CENTER, MAXIMUM. ATTACHMENT TO STRUCTURE SHALL BE STAINLESS STEEL MECHANICAL FITTINGS OR INSERTS. INSTALL PER MANUFACTURER'S INSTRUCTION.
11. GRILLE TO BE FLUSH ON WALL.
12. CONCENTRIC VENT KIT PROVIDED BY PLUMBING CONTRACTOR. COORDINATE WH-1 MODEL WITH PLUMBING CONTRACTOR. INSTALL COMBUSTION AIR AND VENT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
13. INSTALL ABOVE TOP OF DOOR.



FIRST FLOOR HVAC PLAN

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

0 4' 8' 16'

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DATE
08.20.14

BCRA NO.
14013

CADD FILE

SHEET TITLE
FIRST FLOOR PLAN - HVAC

SHEET
M100

100% CD SET

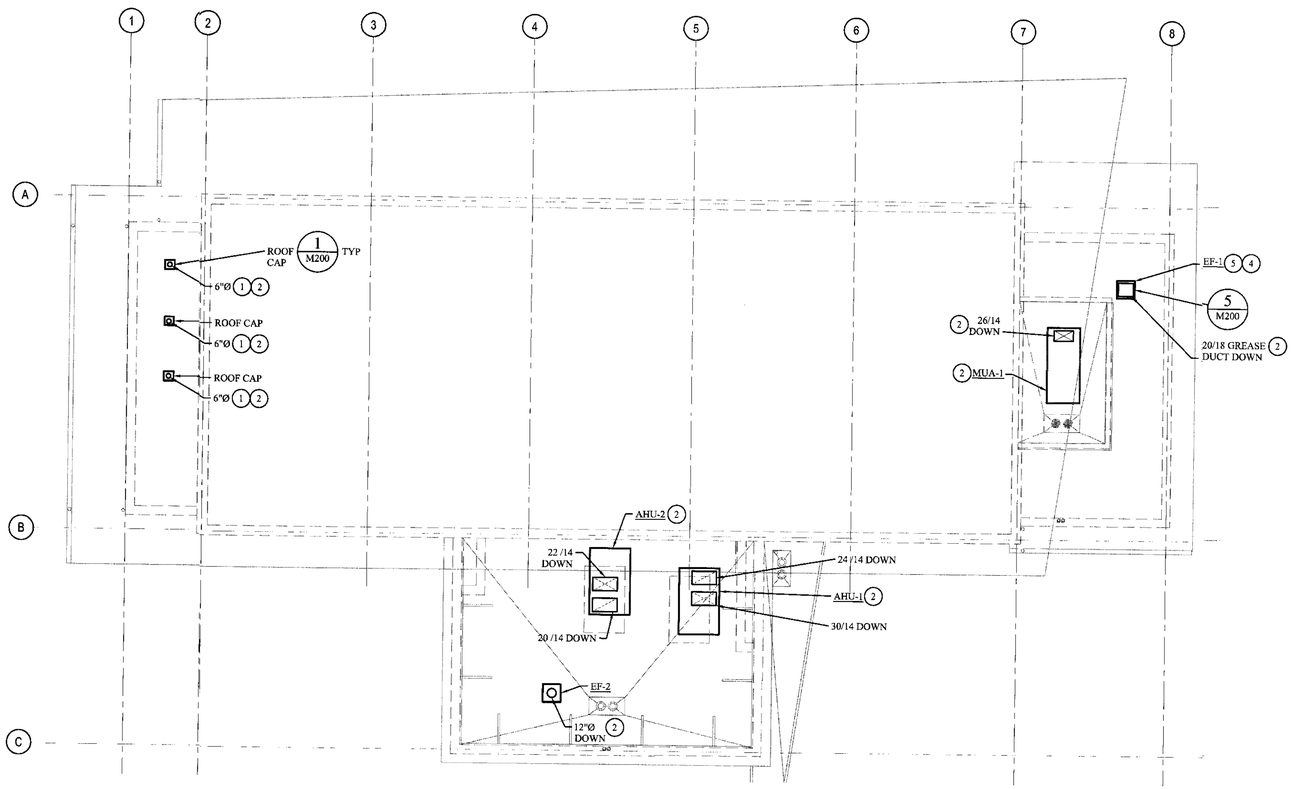
I:\14009_m100.dwg, 8/18/14, 04:41 PM, 1:1
Date Plotted: Aug 18, 2014 – 4:41pm Filename: 14009_M100.dwg By: FRANCIS

GENERAL NOTES

1. PROVIDE 10' CLEARANCE BETWEEN PLUMBING VENTS/EXHAUST LOCATION AND OSA INTAKES.

PLAN NOTES

1. 6"Ø DOWN TO FIRST FLOOR.
2. PROVIDE TRANSITION TO ROOFTOP UNIT, FAN OR CAP.
3. NOT USED
4. EF-1 TO BE 10' FROM ANY MECHANICAL INLETS OR ABOVE INLETS BY 3' AND A MINIMUM 10' FROM STRUCTURE OR ADJOINING STRUCTURE IS MAINTAINED.
5. ENSURE POINT OF CONVEYANCE IS AT LEAST 40" ABOVE THE FINISHED ROOF.



1 HVAC ROOF PLAN

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

0 4' 8' 16'

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YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

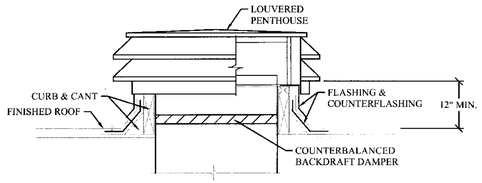
CADD FILE

SHEET TITLE
HVAC ROOF PLAN

SHEET
M101

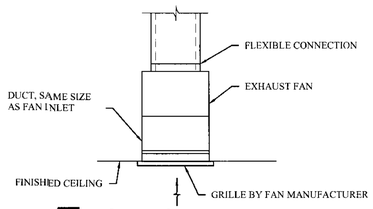
100% CD SET

14009_m101.dwg 8/19/14 04:52 PM 1:1



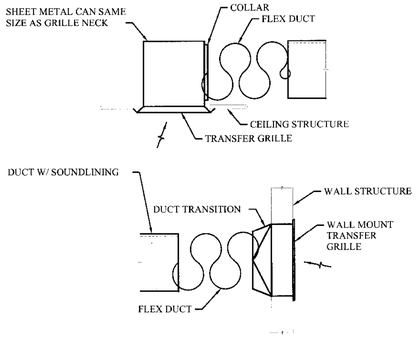
1 ROOF CAP DETAIL

SCALE: NONE



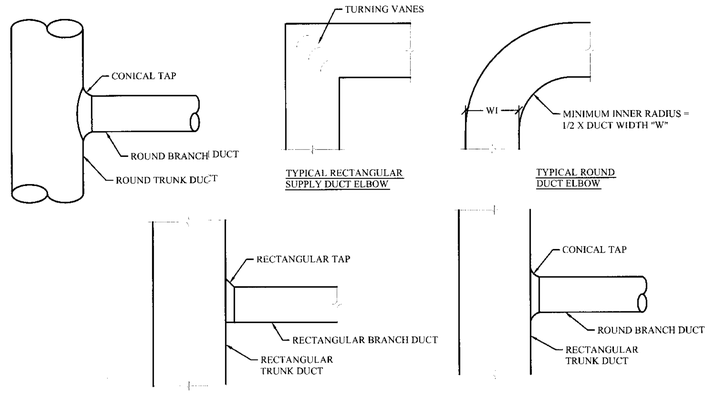
2 CEILING FAN DETAIL

SCALE: NONE



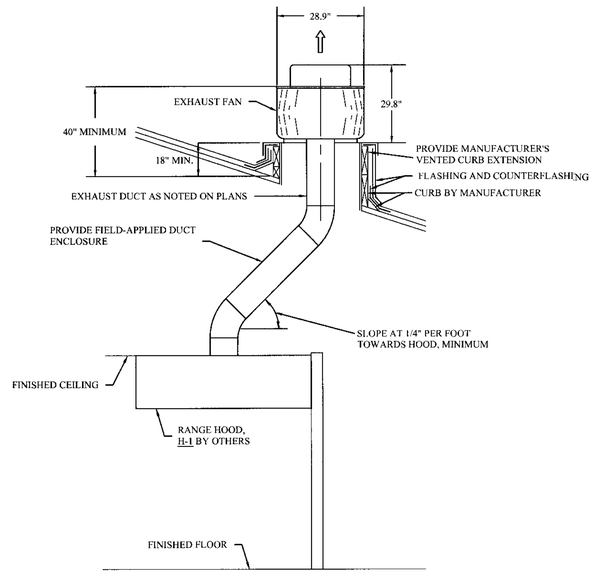
3 TRANSFER DUCT DETAIL

SCALE: NONE



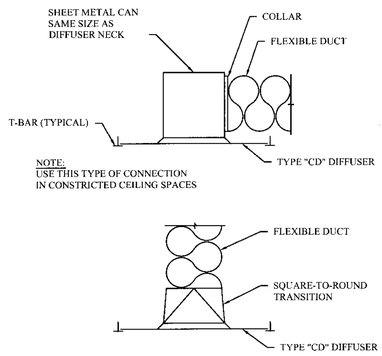
4 DUCT ELBOWS

SCALE: NONE



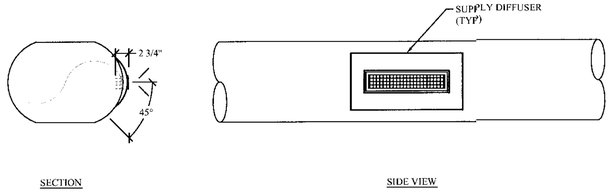
5 KITCHEN HOOD EXHAUST FAN INSTALLATION DETAIL

SCALE: NONE



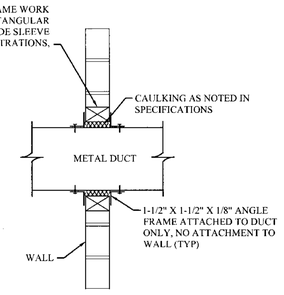
6 AIR TERMINAL INSTALLATION

SCALE: NONE



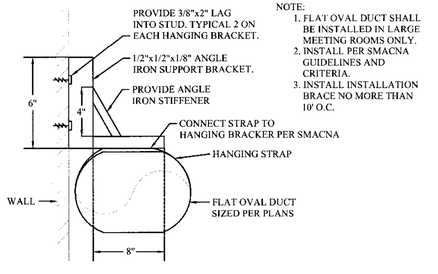
7 DUCT MOUNTED SUPPLY DIFFUSER DETAIL

SCALE: NONE



8 TYPICAL WALL PENETRATION

SCALE: NONE



9 FLAT OVAL DUCT INSTALLATION DETAIL

SCALE: NONE

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BRUCE J. GUSTAFSON STATE OF WASHINGTON 22239 REGISTERED PROFESSIONAL ENGINEER
08.18.2014

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SHEET TITLE
DETAILS

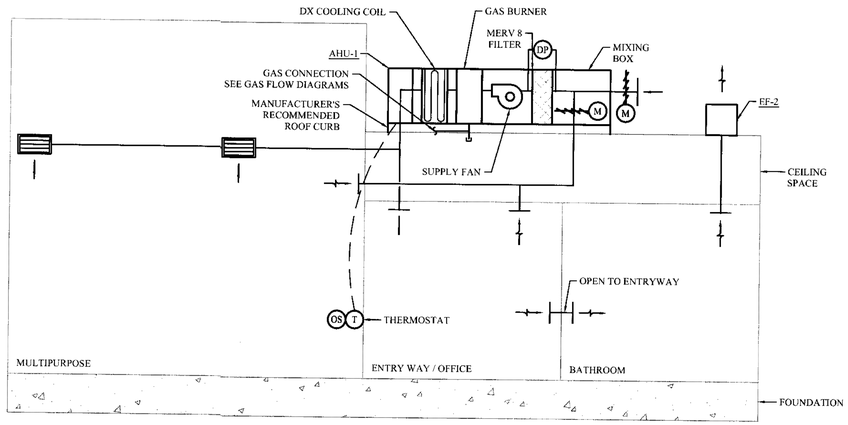
SHEET
M200

100% CD SET

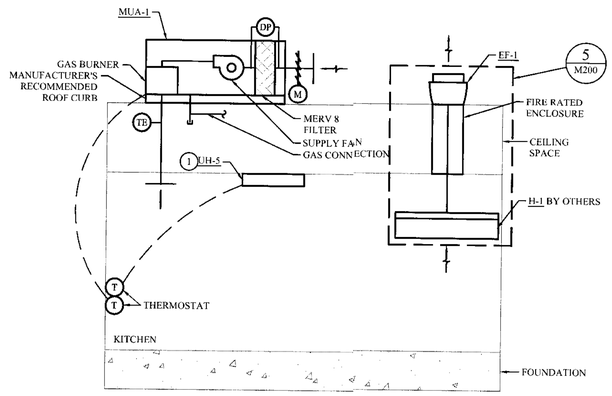
I:\2014\14009_m200.dwg, 8/18/14 04:42 PM, 1:1
Date Plotted: Aug 18, 2014 – 4:42pm Filename: 14009_M200.dwg By: FRANCIS

PLAN NOTES

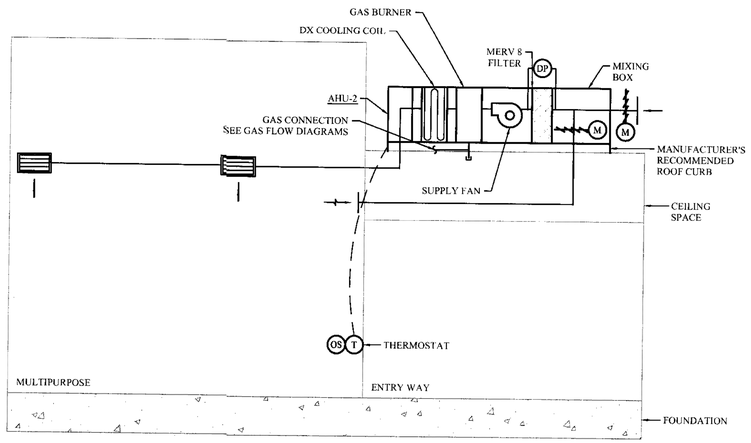
1. UH-5 WILL BE OFF WHILE MUA-1 IS ON.



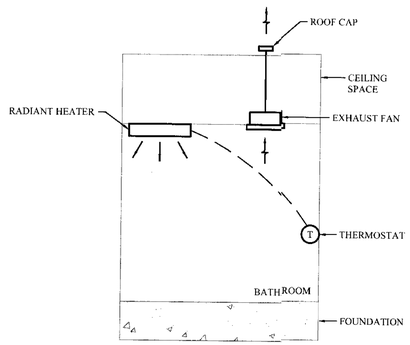
1 AHU-1 FLOW DIAGRAM
SCALE: NONE



3 KITCHEN FLOW DIAGRAM
SCALE: NONE



2 AHU-2 FLOW DIAGRAM
SCALE: NONE



4 TYPICAL SOUTH BATHROOM FLOW DIAGRAM
SCALE: NONE

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CADD FILE

SHEET TITLE
FLOW DIAGRAM

SHEET
M300

100% CD SET

14013_m300.dwg 8/18/14 04:42 PM 1:1
Date Plotted: Aug 18, 2014 – 4:42pm Filename: 14009_M300.dwg By: FRANCIS

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER CIRCULATION PIPING
	WASTE PIPING
	VENT PIPING
G	GAS PIPING
RL	RAIN LEADER
	PIPE DOWN
	PIPE UP
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	PIPE OR DUCT BREAK (GRAPHIC ONLY - CONTINUOUS PIPE/DUCT)
3"FCO	FLUSH CLEANOUT OR SURFACE CLEANOUT
3"WCO	WALL CLEANOUT
	VENT THROUGH ROOF
	PRESSURE REDUCING VALVE
	CHECK VALVE
	BALL VALVE
	HOSE BIBB
	STRAINER
	UNION
BFP	BACKFLOW PREVENTER ASSEMBLY
	FLOOR DRAIN
	FLOOR & FUNNEL DRAIN
	CIRCUIT SETTER
	FUNNEL DRAIN
	CIRCULATION PUMP
TE	TEMPERATURE SENSOR
	STRAINER
	DRAIN/BLOWDOWN VALVE W/ 3/4" HOSE CONNECTION

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	TYPE	FLOW			HEAD	NPSHR	RPM	ELECTRICAL					MOUNTING	WEIGHT	NOTES
					GPM (DESIGN)	GPM (MIN)	GPD	(FT)	(FT)		HP	W	AMP	VOLT	PHASE		(LBS)	
CP-1	BELL & GOSSETT	NRF-9	HOT WATER RECIRCULATION	IN-LINE	12	5	-	5	-	2800	0.05	41.00	0.40	115	1	IN LINE		

NOTES:

GAS WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CAPACITY	GAS RATINGS (MBH)		EFF	DISCHARGE	RECOVERY		ELECTRICAL			WEIGHT	NOTES
			(GAL)	INPUT	OUTPUT		TEMP (DEG F)	GPH	TEMP RISE	VOLT	PHASE	KW	(LBS)	
WH-1	A.O. SMITH	BDP-75	75	70	56	80%	140	75	90	120	1	-		1

NOTES:

1. PROVIDE WITH HORIZONTAL CONCENTRIC KIT.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	PLUMBING CONNECTIONS (IN)					FLOW		MOUNTING	WEIGHT	NOTES
				WASTE	INDW	VENT	HW	CW	GPM	GPF		(LBS)	
P-1	WATER CLOSET	AMERICAN STANDARD	3351.712	4"	-	2"	-	1"	-	1.28	FLOOR		
P-2	URINAL	AMERICAN STANDARD	6590.53	2"	-	1-1/2"	-	3/4"	-	1.25	WALL		
P-3	LAVATORY	AMERICAN STANDARD	4869.004	1-1/2"	-	1-1/2"	-		-	-	WALL		
-	FAUCET	AMERICAN STANDARD	5500.175	-	-	-	1/2"	1/2"	0.50	-	-		
P-3A	LAVATORY	CORIAN 810	Z5114	1-1/2"	-	1-1/2"	-	-	-	-	COUNTER		
	FAUCET	AMERICAN STANDARD	5500.175	-	-	-	1/2"	1/2"	0.50	-	-		
P-4	DRINKING FOUNTAIN	HAWS	H1119.8	1-1/4"	-	1-1/4"	-	3/8"	-	-	-		
HB-1	HOSE BIBB	JAY R SMITH	5560QT	-	-	-	1/2"	1/2"	-	-	WALL		
FD-1	FLOOR DRIAN	JAY R SMITH	2005Y-A	2"	-	2"	-	-	-	-	FLOOR		
FS-1	FLOOR SINK	JAY R SMITH	3001	2"	-	2"	-	-	-	-	FLOOR		
FFD-1	FUNNEL FLOOR DRAIN	JAY R SMITH	2005Y	2"	-	2"	-	-	-	-	FLOOR		1
RD-1	COMBO ROOF/OVERFLOW	ZURN	Z-165	2"	-	2"	-	-	-	-	SURFACE		

NOTES: 1. PROVIDE WITH FUNNEL ACCESSORY.

KITCHEN EQUIPMENT SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	PLUMBING CONNECTIONS (IN)						BTU	ELECTRICAL			MOUNTING	WEIGHT	NOTES
				WASTE	INDW	VENT	HW	CW	GAS		VOLT	PHASE	AMPS		(LBS)	
E1	HAND SINK	EAGLE	HAS-10-FAW	1-1/4"	-	1-1/4"	1/2"	1/2"	-	-	-	-	-	-	-	1,2
E2	THREE COMPARTMENT SINK	EAGLE	FN2048-3-24-14/3	-	2"	-	1/2"	1/2"	-	-	-	-	-	-	-	1,2
E3	COUNTERTOP GRIDDLE	WOLF	ASA24-30	-	-	-	-	-	-	54000	-	-	-	-	-	1,2
E4	MICROWAVE OVEN	MENUMASTER	MCS10DSE	-	-	-	-	-	-	-	120	1	15.00	-	-	1,2
E5	REFRIGERATOR	HOSHIZAKI	CR2B-FS	-	-	-	-	-	-	-	115	1	7.00	-	-	1,2
E6	FREEZER	HOSHIZAKI	CF1B-FS	-	-	-	-	-	-	-	115	1	9.50	-	-	1,2
E8	PREP TABLE WITH PREP SINK	-	-	2"	-	1-1/2"	1/2"	1/2"	-	-	-	-	-	-	-	1,2
E9	COFFEE BREWER	BLOOMFIELD	8792AF	-	-	-	-	3/8"	-	-	-	-	-	-	-	1,2
E10	RANGE	WOLF	C36C-6B	-	-	-	-	-	-	215000	120	1	4.00	-	-	1,2
E11	ICE CUBER	HOSHIZAKI	KM-515MAH	-	-	-	-	3/8"	-	-	-	-	-	-	-	1,2
E12	MOP SINK	JOHN BOOS	EMS-2016-12	3"	-	2"	3/4"	3/4"	-	-	-	-	-	-	-	
E16	DISH WASHER	-	-	2"	-	-	1/2"	-	-	-	-	-	-	-	-	1,2

NOTES:

1. EQUIPMENT PROVIDED BY OTHERS.
2. ALL EXACT SPECIFICATIONS TO BE COORDINATED BY KITCHEN SUPPLIER/DESIGNER.

GREASE TRAP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	GPM	GREASE	CONNECTIONS (IN)					MOUNTING	NOTES
				CAPACITY (LBS)	INLET	OUTLET	VOLT	W	HZ		
GI-1	THERMACO	W-200-IS	20	40	2"	2"	115	520	60	FLOOR	
GI-2	THERMACO	W-200-IS	20	40	2"	2"	115	520	60	FLOOR	

NOTES:

BACKFLOW PREVENTER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LINE	SERVICE	TYPE			AIRGAP	WATER PRESSURE (PSI)		WEIGHT	NOTES
			SIZE (IN)		RP	DC	AG	(IN)	INLET	OUTLET	(LBS)	
BFP-1	WATTS	LF007-NRS	2-1/2"	DOMESTIC WATER	-	X	X	1"	55	50		
BFP-2	WATTS	LF009-QT	1/2"	DOMESTIC WATER	X	X	X	1"	55	50		
BFP-3	WATTS	LF009-QT	1/2"	DOMESTIC WATER	X	X	X	1"	55	50		

NOTES:

TEMPERING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE		LINE SIZE (IN)			CV	FLOW (GPM)		OUTLET	SERVICE	WEIGHT	NOTES
			TS	PB	INLET	OUTLET	PRV		MIN	MAX	TEMP (°F)		(LBS)	
TV-1	WATTS	LFN170-M3	X		1.00	1.00		10.13	4	12	120	DOMESTIC HOT WATER		

NOTES:

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	CONFIGURATION	PRESSURE	VOLUME (GAL)		WEIGHT	NOTES
					(PSI)	TOTAL	ACCEPTANCE	(LBS)	
ET-1	AMTROL	ST-8	DIAPHRAGM	VERTICAL	50	3.2	1.9	-	

NOTES:

ABBREVIATION LIST

ADA	AMERICANS WITH DISABILITIES ACT
AG	AIRGAP
AMP	AMPERES
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
CIRC	CIRCULATION
CV	COEFFICIENT OF FLOW
CW	COLD WATER
DC	DOUBLE CHECK
DEG	DEGREE (FAHRENHEIT)
EFF	EFFICIENCY
F	FAHRENHEIT
FCO	FLUSH CLEANOUT
FD	FLOOR DRAIN
FT	FEET
FU	FIXTURE UNITS
G	GAS
GAL	GALLON
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HZ	HERTZ
IN	INCH
INDW	INDIRECT WASTE
KW	KILOWATT
LB	POUND
LBS	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MIN	MINIMUM
PB	PRESSURE BALANCE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RL	RAIN LEADER
RP	REDUCED PRESSURE
RPM	REVOLUTIONS PER MINUTE
SCO	SURFACE CLEANOUT
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
W	WATT
W/	WITH
WB	WET BULB
WCO	WALL CLEANOUT

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SHEET TITLE
LEGEND ABBREVIATIONS AND SCHEDULES

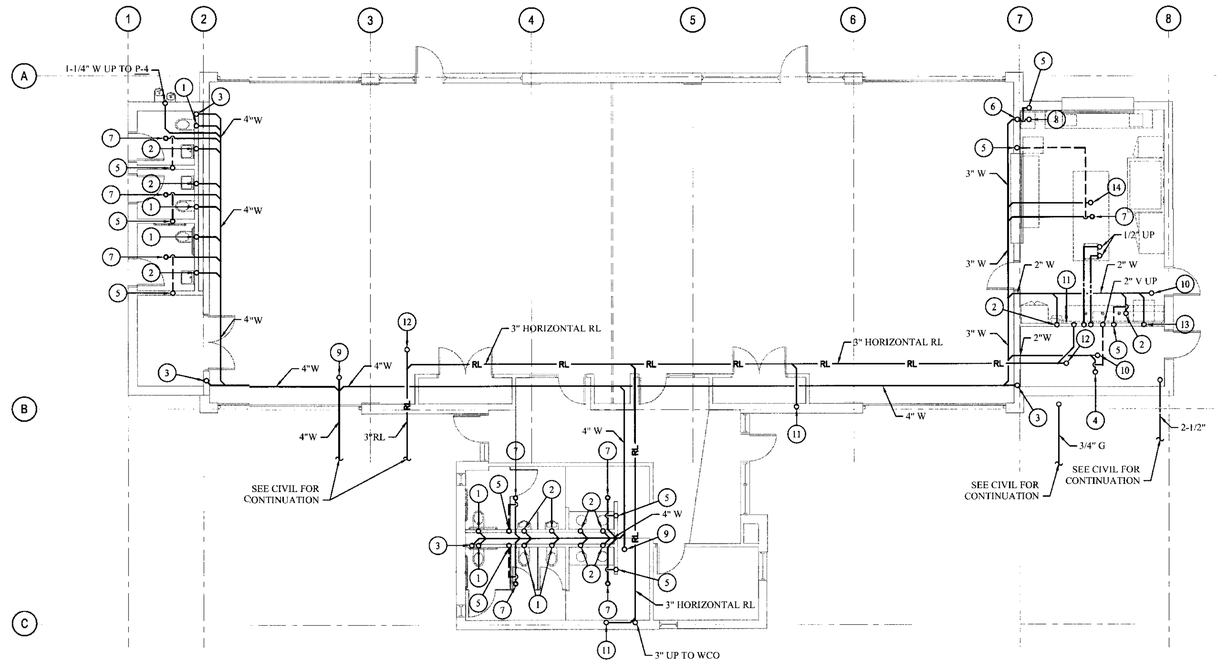
SHEET
P001

100% CD SET

14013_P001.dwg 8/18/14 04:48:57a

PLAN NOTES

1. 4" W UP.
2. 2" W UP.
3. 4" W UP TO WCO.
4. 2" W UP TO FFD-1.
5. 2" V UP.
6. UP TO 3" WCO.
7. 2" W UP TO FD-1.
8. 3" W UP.
9. 4" W UP TO FCO.
10. 2" W UP TO FCO.
11. 2" RL UP.
12. 3" UP TO FCO.
13. 2" W UP TO AIR GAP FITTING FOR DISHWASHER.
14. 2" W UP TO GREASE INTERCEPTOR CONNECTION.



1 FOUNDATION PLAN - PLUMBING

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

0 4' 8' 16'

VIK CONDOMINIUMS

SIZING OF RAINWATER PIPING

SIZE OF PIPE	FLOW (1/8 in/ft slope)	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS AT VARIOUS RAINFALLS RATES (SF)					
		HORIZONTAL RAINWATER PIPING			VERTICAL RAINWATER PIPING		
IN	GPM	1 (IN/H)	2 (IN/H)	3 (IN/H)	1 (IN/H)	2 (IN/H)	3 (IN/H)
2	-	-	-	-	2880	1440	960
3	34	3288	1644	1096	8800	4400	2930
4	78	7520	3760	2506	18400	9200	6130
5	139	13360	6680	4453	34600	17300	11530
6	222	21400	10700	7133	54000	27000	17995
8	478	46000	23000	15330	116000	58000	38660
10	860	82800	41400	27600	-	-	-
12	1384	133200	66600	44400	-	-	-
15	2473	238000	119000	79333	-	-	-

Seattle has a 1 (in/h) rainfall rate. Rainfall rates and pipe sizing information per 2012 UPC.

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SHEET TITLE
FOUNDATION PLAN - PLUMBING

SHEET
P100

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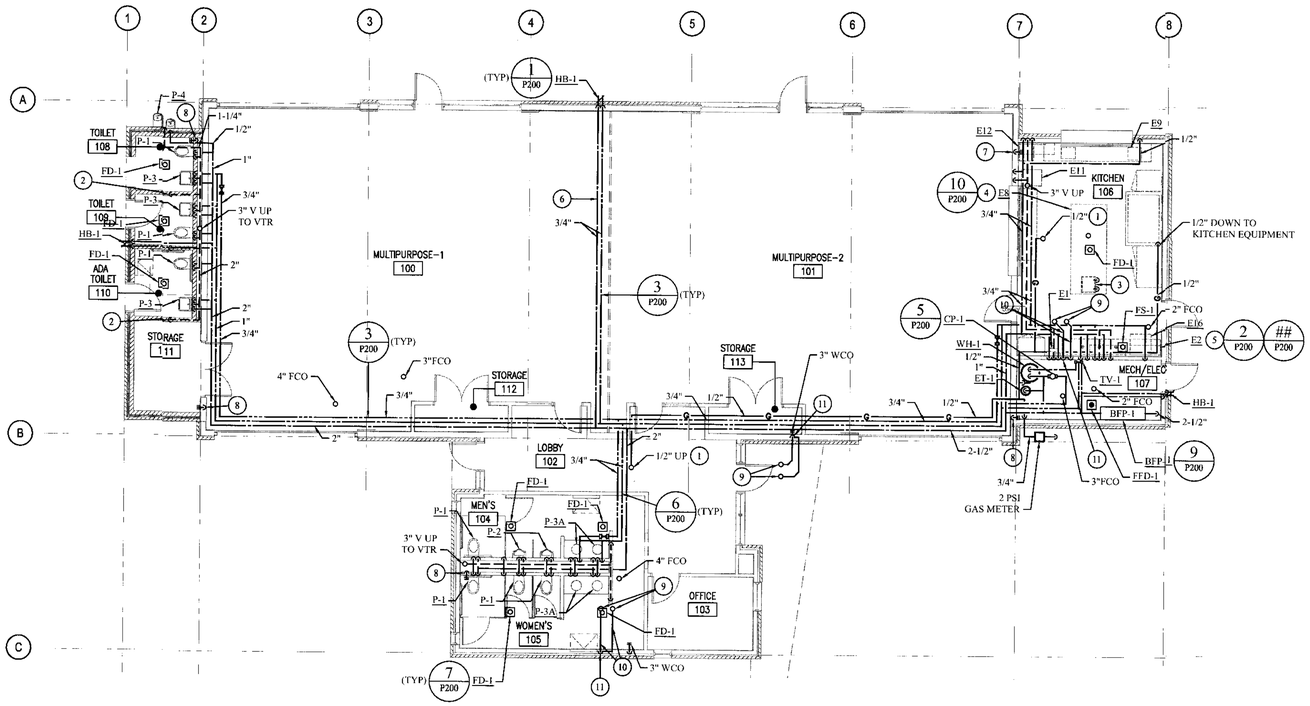
Date Plotted: Aug 18, 2014 – 4:42pm Filename: 14009_P100.dwg By: FRANCIS

GENERAL NOTES

1. MAINTAIN 10' CLEAR FROM MECHANICAL UNIT OUTSIDE AIR INTAKES TO PLUMBING VENTS.
2. SEE RISER DIAGRAM FOR SIZES NOT SHOWN ON PLANS.

PLAN NOTES

1. GAS UP TO ROOFTOP MECHANICAL UNITS.
2. 2" V UP DOWN.
3. 1/2" CW, 1/2" HW.
4. PROVIDE WITH GI-1.
5. PROVIDE WITH GI-2
6. PIPING TO RUN INSIDE SOFFIT.
7. 3" WCO.
8. 4" WCO.
9. 2"RL UP
10. 3" HORIZONTAL RL.
11. 2" RL LEADER DOWN. THE SECONDARY ROOF DRAINS SHALL CONNECT TO THE VERTICAL PIPING OF THE PRIMARY STORM DRAINAGE CONDUCTOR DOWNSTREAM OF A HORIZONTAL OFFSET BELOW THE ROOF PER UPC 1101.11.2.2(B).



FIRST FLOOR PLAN - PLUMBING

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

0 4' 8' 16'

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CAD2 FILE

SHEET TITLE
FIRST FLOOR PLAN - PLUMBING

SHEET
P101

100% CD SET

14008_p101.dwg 8/18/14 04:42 PM
Date Plotted: Aug 18, 2014 – 4:42pm Filename: 14008_P101.dwg By: FRANCIS

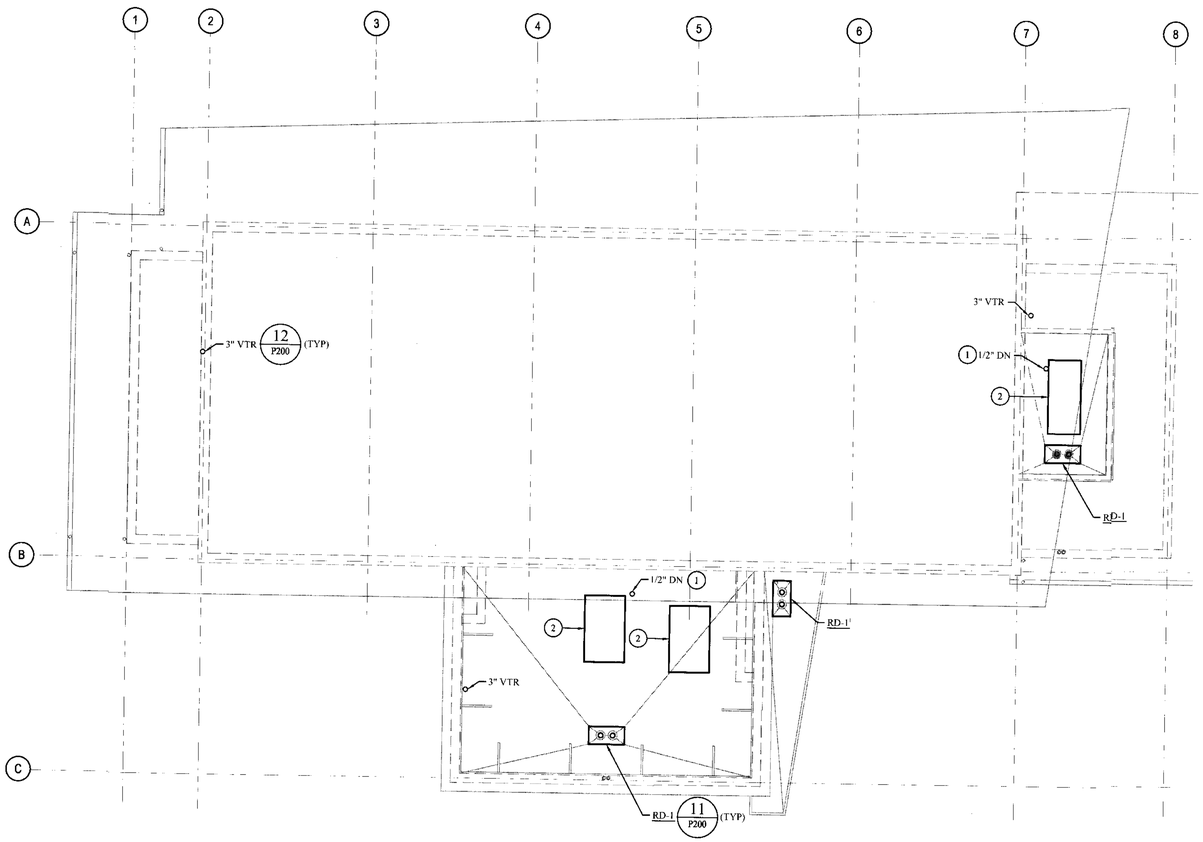
GENERAL NOTES

1. MAINTAIN 10' CLEARANCE BETWEEN MECHANICAL UNITS AND PLUMBING VENTS.

PLAN NOTES

(1) ROUTE 1/ 2" GAS LINE TO ROOFTOP MECHANICAL EQUIPMENT. GAS REGULATORS PROVIDED BY MECHANICAL.

(2) ROOFTOP MECHANICAL UNIT. VERIFY EXACT EQUIPMENT LOCATION WITH MECHANICAL CONTRACTOR.



1 ROOF PLAN - PLUMBING

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

0 4' 8' 16'

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BCRA NO.
14013

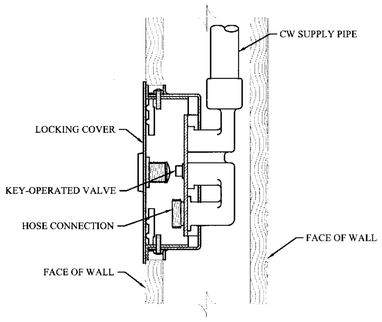
CADD FILE

SHEET TITLE
ROOF PLAN - PLUMBING

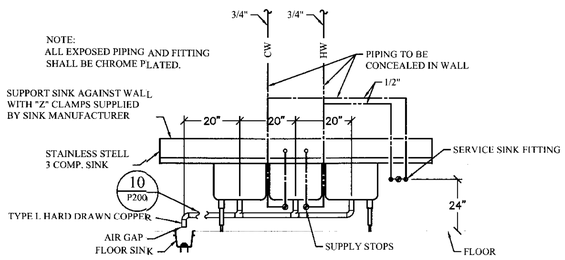
SHEET
P102

100% CD SET

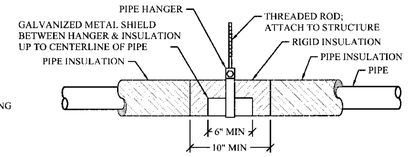
14009 P102.dwg 8/18/14 10:42 PM 1:1
Date Plotted: Aug 18, 2014 – 4:42pm Filename: 14009_P102.dwg By: FRANCIS



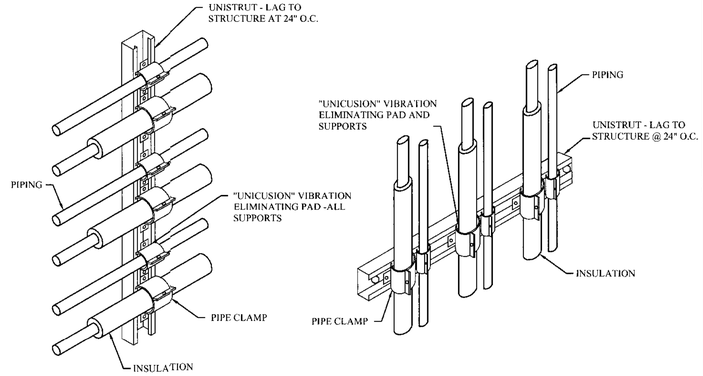
1 HOST BIBB DETAIL
SCALE: NONE



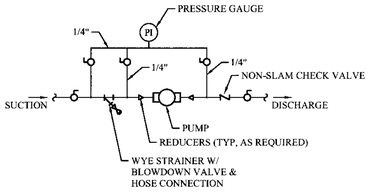
2 3 COMP. SINK CONNECTION DETAIL
SCALE: NONE



3 INSULATED PIPE HANGER DETAIL
SCALE: NONE



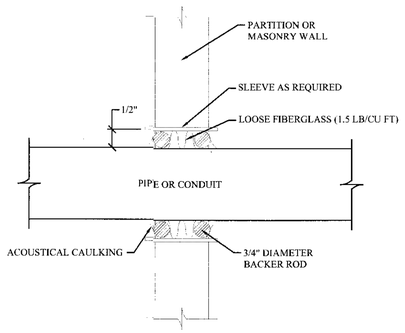
4 PIPE SUPPORT DETAIL
SCALE: NONE



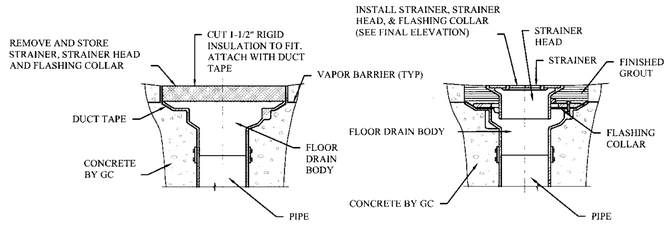
NOTE:

PROVIDE BALL VALVES FOR PIPE SIZES 2-1/2" & SMALLER, BUTTERFLY VALVES FOR SIZES 3" & LARGER.

5 IN-LINE PUMP INSTALLATION
SCALE: NONE

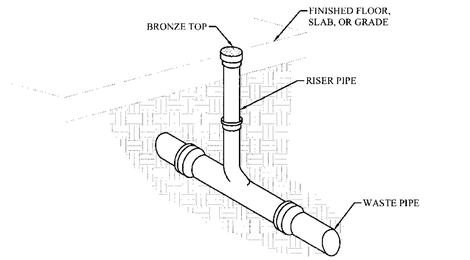


6 WALL PENETRATION DETAIL
SCALE: NONE

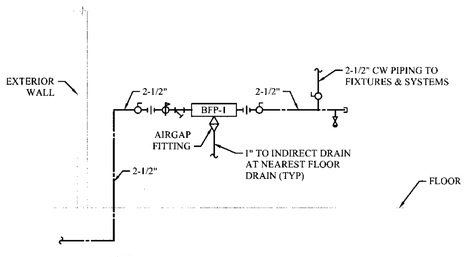


NOTE:
COMPLETE INSTALLATION OF FLOOR DRAIN AND SETTING OF FINAL ELEVATION SHALL NOT BE ALLOWED DURING INITIAL CONCRETE POUR

7 FLOOR DRAIN INSTALLATION DETAIL
SCALE: NONE



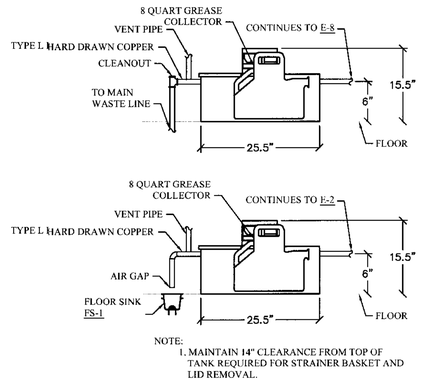
8 FLUSH CLEANOUT DETAIL
SCALE: NONE



NOTE:

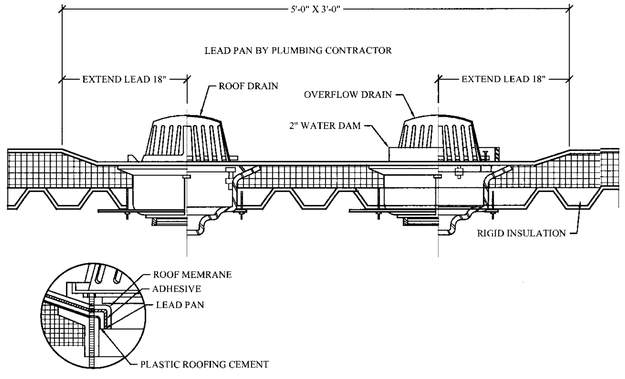
RACK-MOUNT ALL HEADER/RISER COMPONENTS TO WALL.

9 DOMESTIC WATER HEADER DETAIL
SCALE: NONE

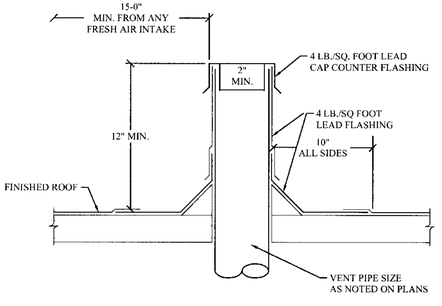


NOTE:
1. MAINTAIN 14" CLEARANCE FROM TOP OF TANK REQUIRED FOR STRAINER BASKET AND LID REMOVAL.

##########################
SCALE: NONE



11 ROOF DRAIN DETAIL
SCALE: NONE



12 TYPICAL VENT THROUGH ROOF
SCALE: NONE

BCRA
7.253.627.4367 F.253.627.4395 WWW.BCRADESIGN.COM
2106 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

SEAL

BRUCE J. GUSTAFSON — STATE OF WASHINGTON — 12235 — REGISTERED PROFESSIONAL ENGINEER — 08.18.2014

PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE

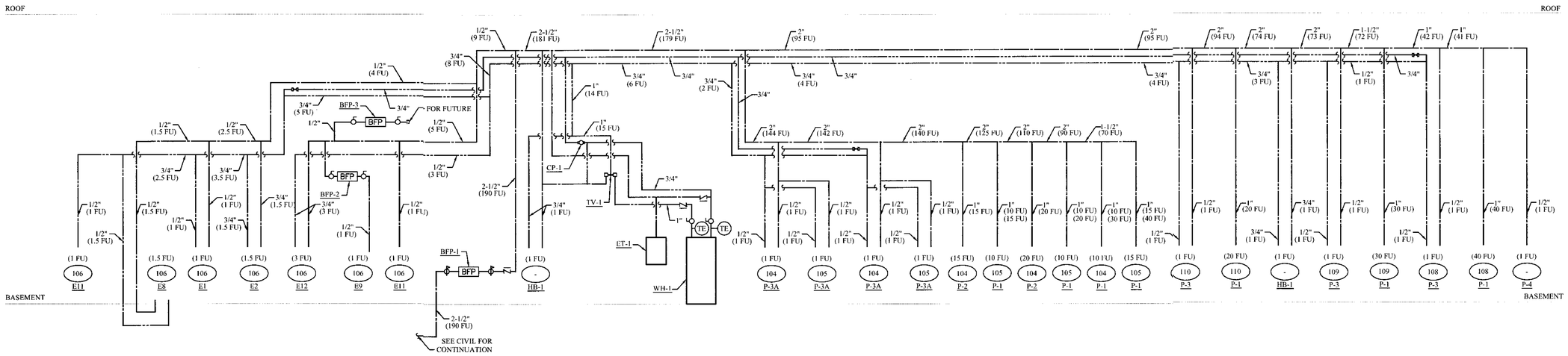
SHEET TITLE
DETAILS

BCRA

SHEET
P200

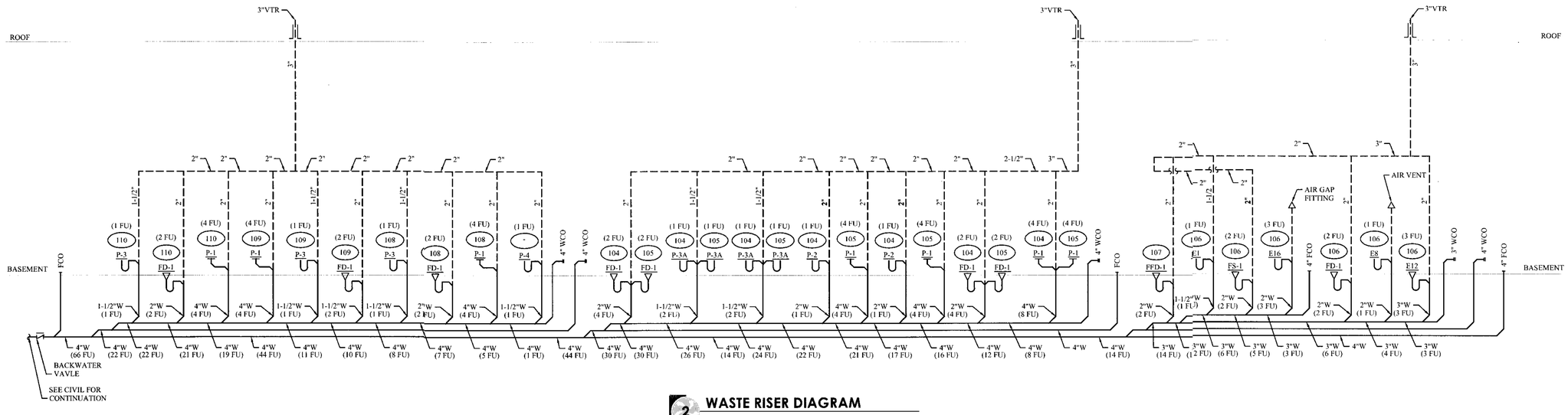
100% CD SET

14009_P200.dwg, 8.18.14 4x4.5 PM 1:1
Date Plotted: Aug. 18, 2014 – 4:43pm Filename: 14009_P200.dwg By: FRANZS



DOMESTIC WATER RISER DIAGRAM

SCALE: NONE



2 WASTE RISER DIAGRAM

SCALE: NONE

BCRA
T 253.627.4367 F 253.627.4395 WWW.BCRADESIGN.COM
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BRUCE J. GUSTAFSON
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22238
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08.18.2014

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YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO.
14013

CADD FILE

SHEET TITLE
RISER DIAGRAMS

SHEET
P300

100% CD SET

14009_p300.dwg 8/18/14 04:43 PM 1:1
Date Plotted: Aug 18, 2014 – 4:43pm Filename: 14009_P300.dwg By: FRANCIS

GENERAL REQUIREMENTS

1. PROVIDE ALL MATERIAL AND LABOR RELATED TO THE INSTALLATION OF ELECTRICAL DEVICES PENETRATING INTO OR THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS, SUCH THAT THE FIRE RATING OF THE WALL IS MAINTAINED.
2. ALL FLUSH MOUNT EQUIPMENT, CABINETS, AND PANELBOARDS SHALL HAVE FACTORY TYPE FLUSH MOUNT TRIM KIT FOR COMPLETE INSTALLATION.
3. PROVIDE COMPLETE WORK FOR REQUIREMENTS AS DESCRIBED ON LEGEND.
4. DO NOT TAKE MEASUREMENTS FROM PLANS FOR DEVICE LOCATIONS. FIELD VERIFY EXACT DEVICE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE FOR PROPER INSTALLATION.
5. ONLY BRANCH CIRCUIT HOMERUNS ARE INDICATED WITH NUMBER OF CONDUCTORS/ WIRES. PROVIDE ALL BRANCH CIRCUIT CONDUCTORS/ WIRES AS REQUIRED FOR COMPLETE OPERATION OF ALL DEVICES AND EQUIPMENT INDICATED.
6. REFER TO EQUIPMENT SCHEDULES FOR WIRING REQUIREMENTS NOT INDICATED ON POWER PLANS.
7. PROVIDE ALL WIRING TO PANELS AND POWER DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH ONE-LINE POWER DIAGRAM.
8. INCLUDE COST OF PROVIDING ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR FULL OPERATION OF ALL OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS TO VERIFY LOCATIONS.
9. COORDINATE PAINTING WORK OF ELECTRICAL ITEMS WITH GENERAL CONTRACTOR. SEE PAINTING SPECIFICATIONS FOR REQUIREMENTS ON ELECTRICAL REQUIREMENT PRE-FINISH WORK.
10. VERIFY ALL LIGHTING FIXTURE TYPES, VOLTAGE, AND MOUNTING METHODS TO SUIT BUILDING STRUCTURE, CEILING SYSTEM, TRUSS, JOISTS, AND SUPPORTING SURFACES. ALL FIXTURE MOUNTING HEIGHTS SHALL BE APPROVED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. VERIFY CORRECT CATALOG NUMBERS PRIOR TO ORDERING OF FIXTURES. REFER TO CONTRACT DRAWINGS FOR LOCATIONS OF BATTERY PACK IN FIXTURES. ALL SUBSTITUTE LIGHT FIXTURES MUST BE SUBMITTED FOR APPROVAL PRIOR TO BID. APPROVED SUBSTITUTES WILL BE IDENTIFIED IN THE ELECTRICAL ADDENDUM. PROVIDE ONLY THE APPROVED SUBSTITUTE FIXTURES OR THE FIXTURES AS SPECIFIED. LIGHT FIXTURES WITHOUT PRIOR APPROVALS WILL NOT BE ALLOWED FOR SUBSTITUTION AFTER BIDS.
11. PROVIDE SEPARATE NEUTRALS FOR ALL INDIVIDUAL CIRCUITS.
12. WIRING SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE, EXCEPT IN ELECTRICAL ROOM, MECHANICAL ROOM, AND UTILITY AREAS, OR AS OTHERWISE NOTED.
13. SURFACE MOUNTED CONDUIT AND BOXES ARE ALLOWED ONLY WHERE CMU OR CONCRETE WALLS ARE PRESENT. ALL OTHER AREAS OF BUILDING ARE TO HAVE CONDUIT AND BOXES RECESSED IN WALLS.
14. EXTERIOR MOUNTED ELECTRICAL DEVICES (SUCH AS DISCONNECT SWITCH, STARTER, SPEAKER, FIRE ALARM HORN, ETC.) SHALL BE NEMA-3R WEATHERPROOF COVERS.
15. PROVIDE CONDUIT AND WIRE FROM ALL HVAC UNITS TO FIRE ALARM PANEL FOR HVAC UNIT CONTROL. CONDUIT AND WIRE IS NOT INDICATED IN ELECTRICAL DRAWINGS.
16. PROVIDE 1-HOUR FIRE RATED ENCLOSURE FOR RECESSED LIGHT FIXTURES IN FIRE RATED CEILING, (SEE ARCHITECTURAL PLAN FOR FIRE RATED CEILING). FIRE RATED ENCLOSURES FOR FLUORESCENT TROFFERS SHALL HAVE MINIMUM SIDE CLEARANCES OF 1" AND TOP CLEARANCES OF 5/8". FIRE-RATED ENCLOSURES FOR RECESSED INCANDESCENT FIXTURES SHALL HAVE ALL AROUND MINIMUM CLEARANCES OF 3".

GENERAL REQUIREMENTS CONT'

17. DO NOT INSTALL ANY FLUSH WALL OUTLET BACK TO BACK. A MINIMUM OF 24" SEPARATION IS REQUIRED BETWEEN ANY OUTLET INSTALLED ON FIRE RATED WALL.
18. INSTALLATION OF UNDERGROUND WIRING SYSTEMS SHALL INCLUDE EXCAVATION, CUTTING, PATCHING, BACKFILL, AND COMPACTION. DO NOT CUT OR DAMAGE ANY EXISTING UTILITIES, STRUCTURAL MEMBERS, OR BUILDING FOUNDATIONS. VERIFY EXISTING CONDITIONS PRIOR TO EXCAVATION WORK. INCLUDE COST FOR UNDERGROUND LOCATOR SERVICE TO IDENTIFY LOCATIONS OF EXISTING COMPONENTS. HAND EXCAVATE IN LOCATIONS WHERE EXISTING UNDERGROUND COMPONENTS ARE SUBJECT TO DAMAGE. REPAIR DAMAGE TO EXISTING UTILITIES OR BUILDING STRUCTURE TO OWNER'S SATISFACTION AT THE CONTRACTORS EXPENSE.
19. ONE-LINE DIAGRAM AND CONDUIT ROUTING ARE SCHEMATIC AND DO NOT SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT WHERE INDICATED ON DRAWINGS. JUNCTION BOXES, AND PULLBOXES ARE MINIMUM REQUIREMENTS. PROVIDE FITTINGS AND PULLBOXES OF ADEQUATE SIZE IN THE RACEWAY SYSTEM WHEREVER NECESSARY OR REQUIRED BY NATIONAL ELECTRICAL CODE. PROVIDE EXPANSION JOINT FITTINGS FOR CONDUITS PASSING THROUGH NEW OR EXISTING EXPANSION JOINTS INSTALLED BETWEEN BUILDINGS. VERIFY EXACT LOCATIONS AND DETAILS OF EXPANSION JOINTS PRIOR TO WORK. COORDINATE ALL CONDUIT ROUTING, PULLBOX, AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATIONS. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.
20. CONDUIT OR OTHER ELECTRICAL COMPONENTS SHALL NOT BE INSTALLED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY STRUCTURAL ENGINEER.
21. PROVIDE ELECTRICAL CONNECTION FOR ALL FAN SPEED SWITCHES. COORDINATE LOCATION OF CONNECTIONS WITH M.C. PROVIDE DISCONNECTS FOR ALL MECHANICAL UNITS. THESE DISCONNECTS SHALL BE IN ADDITION TO THOSE SPECIFIED BY MECHANICAL.
22. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALTERNATE BID NUMBERS AND CORRESPONDING AREAS AND RELATED ELECTRICAL WORK TO BE PROVIDED. INCLUDE IN BASE BID ALL ELECTRICAL WORK THAT IS REQUIRED FOR BASE BID IN THE ASSOCIATED AREAS OF CONSTRUCTION IF ANY OF THE ALTERNATE BIDS ARE NOT TAKEN OR ACCEPTED.
23. PROVIDE SEPARATE AS-BUILT DRAWINGS FOR VOICE AND LAN DROPS AND PA SYSTEM ON CAD DRAWINGS SHOWING LOCATIONS OF JACKS BY NUMBER, LOCATIONS OF SPEAKERS AND WIRE PATHS TO THE SPEAKERS.
24. PROVIDE DUCT SMOKE DETECTOR(S) FOR EACH UNIT GREATER THAN 2,000 CFM. E.C. SHALL PROVIDE DUCT SMOKE DETECTORS, M.C. SHALL INSTALL DUCT SMOKE DETECTORS, AND E.C. SHALL PROVIDE ALL RACEWAY/WIRE AND MAKE CONNECTIONS FOR COMPLETE OPERATION. COORDINATE LOCATIONS AND REQUIREMENTS WITH M.C.
25. PROVIDE AN UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY LIGHT FIXTURES IN ADDITION TO SWITCHED CONDUCTOR.

ELECTRICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL LEGEND AND SCHEDULES
E1.0	ELECTRICAL SITE PLAN
E1.1	WSEC LIGHTING COMPLIANCE FORMS
E1.2	MECHANICAL SCHEDULES
E2.0	OVERALL LIGHTING PLAN
E3.0	OVERALL POWER AND SYSTEMS PLAN
E3.1	OVERALL ROOF PLAN
E4.0	OVERALL FIRE ALARM PLAN.
E6.0	ONE-LINE DIAGRAM
E6.1	ELECTRICAL PANEL SCHEDULES
E7.0	ELECTRICAL DETAILS

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING OR POWER PANEL
	BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR CKTS DEVICES AND EQUIP INDICATED ON PLANS. (WIRING AND CONDUIT SIZE MAY NOT APPEAR ON PLANS). PROVIDE CONDUCTORS AND CONDUIT PER NEC CODE. #12 AWG, 1/2"C. MIN. EMT OR RIGID STEEL. I INDICATES EQUIP GND. INDICATES ISOLATED GROUND.
—C—	UNDERGROUND COMMUNICATIONS CONDUIT
	CONDUIT CONCEALED IN WALL OR CEILING SPACE ONLY
	CONDUIT UNDERGROUND OR FLOOR
—E—	EXISTING CONDUIT
—P—	UNDERGROUND SERVICE POWER CONDUIT
—T—	UNDERGROUND SERVICE TELECOM CONDUIT
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT STUB OUT WITH PLASTIC BUSHING
	BRANCH CIRCUIT HOME RUN (3/4"C, #12 CONDUCTORS & #12G UNO)
	GROUNDING ELECTRODE PER CODES
	FLEXIBLE CONDUIT
J	CODE SIZED JUNCTION BOX WITH COVER PLATE
	CORD REEL WITH RECEPTACLE
A	ELECTRICAL DEVICE AS INDICATED, A=ABOVE COUNTER
	DUPLEX RECEPTACLE
	TWO DUPLEX RECEPTACLES IN COMMON BACK BOX AND UNDER COMMON PLATE
	FLUSH FLOOR BOX WITH DEVICES AS INDICATED
	DUPLEX RECEPTACLE GFCI TYPE
	SPECIAL RECEPTACLE TYPE TO MATCH EQUIP SERVED, VERIFY REQUIREMENTS
	MULTI-GANG FLOOR BOX WITH DEVICES AS NOTED ON PLANS WITH 1"C.O. SPARE TO ADJACENT CEILING SPACE.
	CEILING MOUNT RECEPTACLE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	EMERGENCY LIGHT FIXTURE, SHADING INDICATES WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	WALL MOUNTED LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE ARROW INDICATES DIRECTION OF EMITTED LIGHT
	EMERGENCY LIGHT
	EXIT LIGHT
	COMBONATION EXIT LIGHT/EMERGENCY LIGHT
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
A	TYPICAL LIGHTING FIXTURE DESIGNATION, SEE SCHEDULE FOR TYPE
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$LV	LOW VOLTAGE SWITCH
$MS	ASTRONOMICAL TIME CLOCK MASTER SWITCH/MOMENTARY SWITCH
$OC	WALL MOUNT OCCUPANCY SENSOR SWITCH – DUAL TECHNOLOGY
$VS	WALL MOUNT VACANCY SWITCH
PC	CEILING MOUNTED PHOTOCELL/DAYLIGHT SENSOR. DUAL ZONE CONTROLS LIGHT FIXTURE WITH CORRESPONDING CIRCUIT NUMBER & SUBSCRIPT.
OD	LIGHTING CONTROL OCCUPANCY SENSOR DUAL TECHNOLOGY (WALL MOUNT)
OD	LIGHTING CONTROL OCCUPANCY SENSOR DUAL TECHNOLOGY (CEILING MOUNT)
TC	120V ASTRONOMICAL TIME CLOCK
SV	SOLENOID VALVE
AQ	AQUASTAT BY MC, CONNECTIONS TO CIRC PUMP BY EC
WAP	WIRELESS ACCESS POINT (WAP)

SYMBOL	DESCRIPTION
EF 1	MECHANICAL/PLUMBING EQUIPMENT CONNECTION, SEE EQUIPMENT CONNECTION SCHEDULES FOR SPECIFIC REQUIREMENTS.
	TELECOMMUNICATIONS OUTLET, SUBNUMBER=QUANTITY OF DROPS
	OVERHEAD DOOR MOTOR
	OVERHEAD PROJECTOR MOTOR
	SPECIAL EQUIP CONNECTION WITH LIQUID TIGHT FLEX TO MATCH EQUIPMENT
	EQUIPMENT CONNECTION
	MOTOR CONNECTION
	NON-FUSED DISCONNECT SWITCH (WP = WEATHERPROOF NEMA-3R)
F AS/AF	FUSED DISCONNECT SWITCH (WP = WEATHERPROOF NEMA-3R) SUBLETTER AS=AMP SWITCH, SUBLETTER AF=AMP FUSE
	COMBINATION FUSED DISCONNECT/STARTER
S	MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
	ELECTRICAL CONTACTOR, TYPE AS INDICATED
	SINGLE PUSH BUTTON
	PUSH BUTTON SWITCH TO MATCH EQUIPMENT STARTER AND CONTROLLER
	RED EMERGENCY SHUT-OFF PUSH BUTTON
SPD	SURGE PROTECTIVE DEVICE
	MOTOR RATED SWITCH
	COMBINATION FIRE/SMOKE DAMPER
FAP	FIRE ALARM PANEL
FAA	FIRE ALARM ANNUNCIATOR
SD	FIRE ALARM SMOKE DETECTOR
SD D	FIRE ALARM SMOKE DETECTOR, DUCT TYPE
H	FIRE ALARM HEAT DETECTOR, RATE-OF-RISE TYPE
H F	FIRE ALARM HEAT DETECTOR, FIXED TEMPERATURE TYPE
BT	FIRE ALARM SMOKE DETECTOR, PROJECTION BEAM TYPE
F	FIRE ALARM CONNECTION, TYPE AS NOTED ON PLANS
TS	TAMPER SWITCH FIRE ALARM MONITORING CONNECTION
FS	FLOW SWITCH FIRE ALARM MONITORING CONNECTION
F	FIRE ALARM AUDIO SPEAKER-VISUAL NOTIFICATION DEVICE
	FIRE ALARM STROBE LIGHT
	CEILING MOUNTED FIRE ALARM AUDIO SPEAKER-VISUAL NOTIFICATION DEVICE
F	FIRE ALARM MANUAL PULL STATION, D=DUAL ACTION TYPE
D	FIRE ALARM DOOR RELEASE CONNECTION
K	FIRE ALARM KNOX BOX
	COMBINATION FIRE/SMOKE DAMPER
SFP	SATTLELITE FIRE ALARM PANEL
SEC	SECURITY SYSTEM PANEL
	SECURITY SYSTEM MOTION DETECTOR
	SECURITY SYSTEM MOTION DETECTOR, CEILING MOUNTED, 360°
	SECURITY SYSTEM MAGNETIC CONTACT
DC	DOOR CONTACT
CR	SECURITY SYSTEM CARD KEY
PTZ	PAN/TILT/ZOOM SECURITY SYSTEM CAMERA
HD	FIXED HIGH DEFINITION SECURITY SYSTEM CAMERA
ACP	ACCESS CONTROL PANEL (BY OTHER)
C	WIRELESS DIGITAL CLOCK
B	BELL/BUZZER
DVR	DIGITAL VIDEO RECORDER
	OFF SITE STREET LIGHT. PROVIDED AND CONNECTED BY PSE.
FB 4	MULTI-GANG RECESSED FLOOR BOX WITH 1-1/4" C.O. SPARE TO ADJACENT CEILING SPACE. SEE PLANS FOR EXACT DEVICE TYPES AND QUANTITIES.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER		ACCEPTABLE ALTERNATVE		LAMP		INPUT	Notes
		NAME	CATALOG NUMBER	NAME	CATALOG NUMBER	QTY.	TYPE	WATTS	
F1	3 HEAD SQUARE PENDANT	**WINONA**	**5830 SERIES**	VISA	CP5532/5533-CBL-FS54-XXX-**MK7**	3	T5HO	180	**SEE SHEET E2.0, NOTES 3-6 FOR FIXTURE HEIGHTS. PROVIDE WITH MK VII BALLAST**
F2	3 HEAD COMBO LIGHT FIXTURE	LF ILLUMINATION	MF13BN-T-16-8035-M-YD-LD-1-WW	INTENSE LIGHTING	ICL-LED1600-35-3-D10-BW-FL32	3	LED	48/86	
F3	2' X 4' TBAR CEILING	LITHONIA	2TL4-46L-FW-A12-D50-LP835-NX-EL14L	COOPER	24SR-LD1-39-C-UNV-EL10W-L835-CD-1		**LED**	59	EMERGENCY BACKUP
F4	1' X 4' SURFACE MOUNT	RIGALITE	MHDA-265-4-2-U-P	FAILSAFE	HVSL8-4-LD3-1-STD-35-UNV-0-EDIC	2	F32T8	63	
F5	RECESSED CAN	LF ILLUMINATION	8022-MW-CL	HALO	H4571CATIE-EL406930-TL408WHWB		LED	20	
F6	1' X 4' SUSPENDED	LITHONIA	MS5HB-2-28T5-SBL-ND-MVOLT-GEB10PS-EL55	COOPER	MBF-2T8-NB-UNV-EB8	2	F28T5	64	EMERGENCY BACKUP
F7	SUSPENDED FIXTURE	SELUX	**M60-1T5HO-SD-C-008-BK-120-DM120**	COOPER	**22-D-P-1-T5HO-SC-4-U-EB-5-S92**	**1**	**T5HO**	**62**	**PROVIDE WITH MK VII BALLAST**
F8	RECESSED EXTERIOR LED FIXTURE	SELUX	**M125R1-2T8-SD-TS-008-BK-120-EMX**	**COOPER**	**22-DR-1-T5HO-SR-4-U-EB-S92**	**2**	**F32T8**	**63**	**PROVIDE 2 WITH EMEGENCY BACKUP**
X	EGRESS "BUGEYE" LIGHT	LITHONIA	ELM2-LED	SURELITE	LEM		LED	1.5	
X1	COMBINATION EXIT/EGRESS	LITHONIA	ECG-LED-M6	SURELITE	APC7-G		LED	3	
E1	WALL MOUNT UP/DOWN LIGHT	SPECTRUM	FRMC0314UD-2XMR16LED-E1(LED)-SMF-GB	BEGA/**COOPER**	BEGA = 3592 LED / **COOPER = LCSQWMUDG-10-MB-ERCM6A-10-8-35-6LM0-H**		LED	100	
E2	CEILING MOUNT EXTERIOR FIXTURE	GOTHAM	EVO-SQ-35/14-GAR/FL-120-EL120	**COOPER**	**LDSQ6A-15-ESQ6A15-8-35-6LSQ0-H**		LED	20	
E3	WALL MOUNT UP/DOWN LIGHT	**N/A**	**N/A**	COOPER	**303-W2-LEDB2-3000-UNV-T2-BK**		LED	18	**PROVIDE 4 FIXTURES WITH INVERTER**
E4	DECORATIVE WALL WASH	LUMENPULSE	**LOG RO-120-48-35K-30X60-WAM6-BK-NO-CRC**	**ELLIPTIPAR**	**S132-J424-X-02-1-00-0-35-00-HSD**		LED	36	
PL1	POLE MOUNTED LIGHT FIXTURE	LITHONIA	DSX0 LED-20C-700-40K-T3M-SPA-DBLXD	COOPER	GLEON-AE-01-LED-E1-T3-BK		LED	45	PROVIDE ON 16' POLE
POLE	PL1 POLE	LITHONIA	SSS-16-4.0X16.0-T25-DBL	COOPER	SSS-16-BLK-280				

LIGHTING NOTES:

1) ALL BALLASTS SHALL BE HIGH POWER FACTOR, ELECTRONIC.

2) FIXTURES WITH HATCH HAVE INTEGRAL EMERGENCY BALLAST AND EMERGENCY OPERATION TEST SWITCH

ABBREVIATIONS

ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AFC	AVAILABLE FAULT CURRENT	LAN	LOCAL AREA NETWORK
AFF	ABOVE FINISHED FLOOR	LCP	LIGHTING CONTROL PANEL
AIC	AMPERES INTERRUPTING CAPACITY	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	M.C.	MECHANICAL CONTRACTOR
AL	ALUMINUM	MLO	MAIN LUG ONLY
BKR	BREAKER	OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
C	CONDUIT	OL	OVERLOAD
CKT	CIRCUIT	PA	PUBLIC ADDRESS
C.O.	CONDUIT AND PULL WIRE ONLY	PNL	PANEL
COMM	COMMUNICATION	PS	PROJECTION SCREEN
Cu	COPPER	REF	REFRIGERATOR
E.C.	ELECTRICAL CONTRACTOR	SDP	SECONDARY DISTRIBUTION PNL
ECB	ENCLOSED CIRCUIT BREAKER	SPECS	SPECIFICATIONS
EF	EXHAUST FAN	STB	SHUNT-TRIP BREAKER
EQP	EQUIPMENT	SW	SWITCH
F	FURNACE	TEL	TELEPHONE
FOIO	FURNISHED BY OWNER/ INSTALLED BY OWNER	TELCOM	TELECOMMUNICATION
G	GROUND	THRU	THROUGH
G.C.	GENERAL CONTRACTOR	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GFP	GROUND FAULT PROTECTOR	W	WASHER
IDF	INTERMEDIATE DISTRIBUTION FRAME	WH	WATER HEATER
MB	MAIN BREAKER	WP	WEATHERPROOF
MDF	MAIN DISTRIBUTION FRAME	XFMR	TRANSFORMER
MDP	MAIN DISTRIBUTION PANEL		

140309_E0.1.dwg 3/12/2015

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS
1 02.17.2015
2 02.24.2015
3 03.12.2015

DATE
02.17.15

BCRA NO.
14013

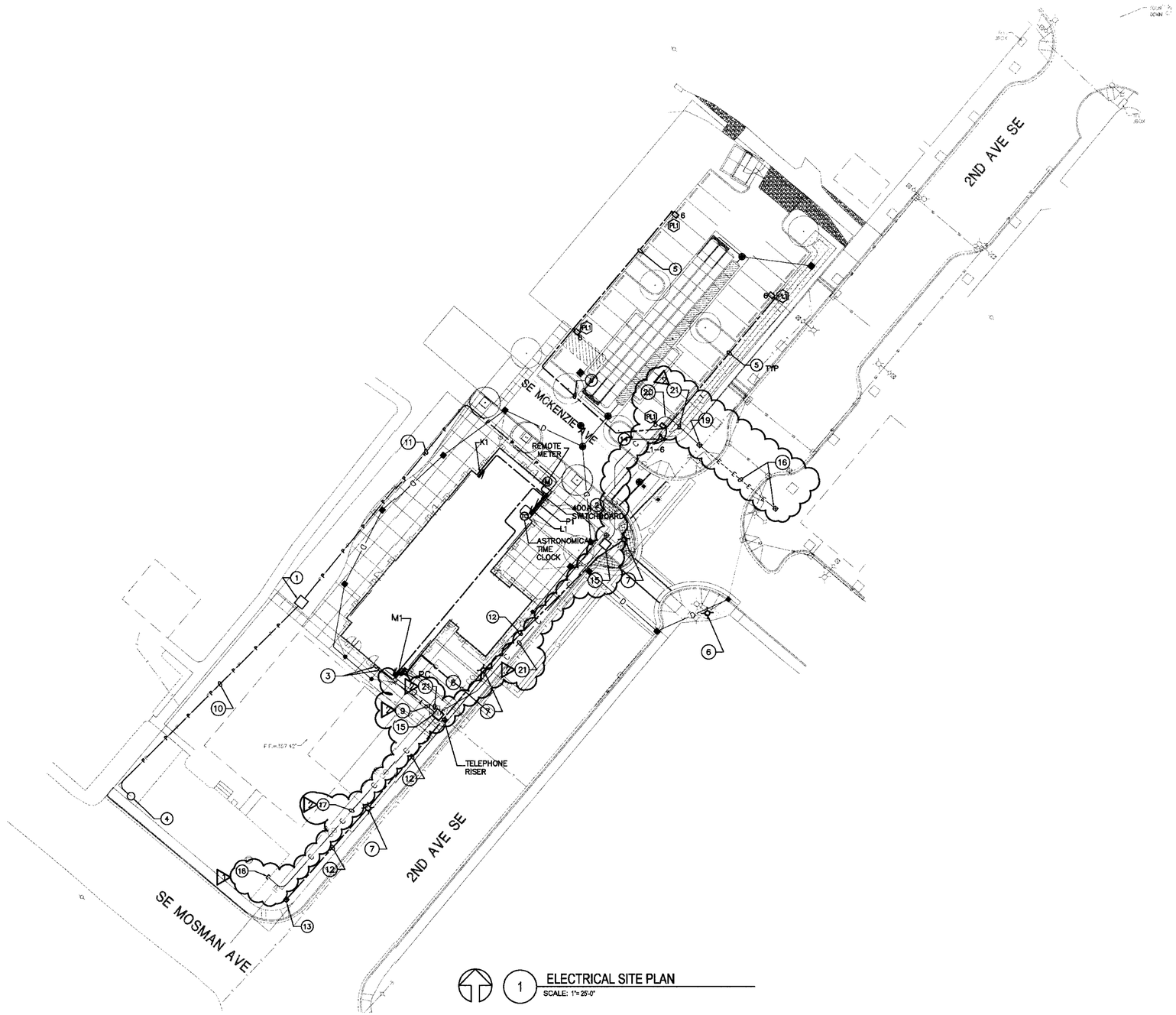
CADD FILE

SHEET TITLE
GENERAL REQ'S, LIGHTING FIXTURE SCHEDULE AND ELECTRICAL LEGEND

SHEET
E0.1

AS1 #1

Date Plotted: Mar 12, 2015 – 3:39pm Filename: 140309_E0.1.dwg By: BJN



1 ELECTRICAL SITE PLAN
SCALE: 1"= 25'-0"

GENERAL NOTES

1. ALL EXTERIOR LIGHTS WITHIN THE PROPERTY ROUTED VIA ASTRONOMICAL TIME CLOCK.
2. COORDINATE ALL WORK WITH PSE AND ADHERE TO THE CITY OF YELM'S GUIDELINES.
3. PROVIDE 1"CONDUIT AND #10 WIRE FOR ALL SITE LIGHTING.
4. SEE RISER DIAGRAM ON SHEET E6.0 FOR WIRE AND CONDUIT SIZE.
5. COORDINATE ALL ELECTRICAL SITE WORK WITH CAROLYN SOETENGA (POTELCO) 1 (360) 570-6810.

PLAN NOTES

1. NEW PSE TRANSFORMER. CONTRACTOR TO PROVIDE VAULT, TRENCHING AND CONDUITS PER PSE STANDARDS.
2. PROVIDE 400A 120/208 3ϕ,4W SWITCHBOARD.
3. PROVIDE (2)2"C. AND PULL WIRE ROUTED TO BUILDING B (APPROX. 20'-0". BUILDING NOT SHOWN) FOR FUTURE USE.
4. VERIFY EXACT LOCATION OF EXISTING PSE POWER POLE.
5. PROVIDE #10CU THHN. AND 1" CONDUIT.
6. REMOVE AND REPLACE EXISTING LIGHT POLE PER CITY OF YELM STANDARDS. SEE 'INTOLIGHT' PLANS FOR ADDITIONAL INFORMATION REGARDING POLE AND FIXTURE TYPE. STORE LUMINAIRE HEAD IN SECURE LOCATION WHILE WORK IS DONE.
7. PROPOSED NEW POLE AND LUMINAIRE FIXTURE LOCATION. FIXTURE IS TO CONFORM WITH CITY OF YELM STANDARDS. LOCATIONS OF STREET SIDE LIGHT FIXTURES ARE PROVIDED VIA 'INTOLIGHT' (PSE) PLANS.
8. PROVIDE (1)1" CONDUIT ROUTED APPROXIMATELY 25'-0" TO STEP TANK. SEE CIVIL PLANS FOR EXACT LOCATION. SEE ONE-LINE DIAGRAM ON SHEET E6.0 FOR WIRE SIZE.
9. PROVIDE (1)4"C FOR TELECOMMUNICATION USE. COORDINATE WITH COMMUNICATIONS COMPANY TO PROVIDE SERVICE TO THE BUILDING.
10. PROVIDE (1)4" CONDUIT ROUTED 36" BELOW GRADE. COORDINATE ALL REQUIREMENTS WITH PSE.
11. PROVIDE SECONDARY CONDUIT AND CONDUCTORS BELOW GRADE TO MAIN SWITCHBOARD. SEE RISER DIAGRAM ON SHEET E6.0 FOR CONDUIT AND CONDUCTOR SIZE.
12. PROVIDE 2"C.O. WITH PULL WIRE 24" BELOW GRADE.
13. LIGHTING PEDESTAL. ROUTE 2" C.O. TO LIGHTING PEDESTAL. COORDINATE EXACT LOCATION WITH PSE.
14. ROUTE VIA TIME CLOCK.
15. PROVIDE 444-LA COMMUNICATIONS VAULT WITH TRAFFIC RATED COVER AT THIS LOCATION. PROVIDE TRENCHING AND CONDUIT PER UTILITY STANDARDS.
16. EXISTING JUNCTION BOX AND FIBER CONDUIT LOCATION.
17. PROVIDE (2)4" CONDUITS AND TRENCHING FOR ROUTING OF FIBER OPTIC AND COMMUNICATIONS CABLE.
18. PROVIDE JUNCTION BOX, MARKER TAPE AND TERMINATIONS AT THIS LOCATION FOR FIBER OPTIC CABLING TO FUTURE BUILDING.
19. CONTRACTOR TO COORDINATE EXACT LOCATION OF EXISTING JUNCTION BOX WITH THE CITY OF YELM.
20. 48" SWEEP AT 90 DEGREE FIBER OPTIC CONDUIT BEND.
21. PROVIDE (1)4" CONDUIT AND TRENCHING FOR ROUTING OF FIBER OPTIC CABLE.

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PROJECT
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REVISIONS
02.17.2015
02.24.2015

DATE
02.17.15

BCRA NO.
14013

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SHEET TITLE
ELECTRICAL SITE PLAN

BCRA

SHEET
E1.0

AS1 #1

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2/24/2015 11:1.303

Date Plotted: Feb 24, 2015 - 4:28pm Filename: 140309_E1.0.dwg By: BJN

Interior Lighting Summary — LTG-SUM

2012 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Jan 2014

Project Info *Compliance forms do not require a password to use. Instructional and calculating cells are write-protected.*	Project Address:	**Yelm Community Center** **301 2nd Street SE** **Yelm, Wa**	Date: 6/19/2014 For Building Department Use
	Applicant Name:	**Tres West Engineers**	
	Applicant Address:	**2702 South 42nd Street, Suite 301, Tacoma, Wa 98409**	
	Applicant Phone:	**253-472-3300**	

Project Description	ew Building	ddition	lteration	Plans Included
Lighting Compliance Path				
Lighting Power Allowance Method *Selection required to enable LPA forms*				
Interior Lighting System Description *Briefly describe lighting system type and features.*	Mix of LED and Fluorescent fixtures. Exterior to be controlled via Astronomical Time Clock. Rooms are to be controlled by dual tech occupancy sensors. Daylight harvesting to be accomplished by use of dual zone photo cell's and occupancy sensors.			

Interior Lighting Summary - Space-By-Space — LTG-INT-SPACE

Project Address: **Yelm Community Center** — Date: 6/19/2014 — For Building Department Use

Lighting Alterations, Renovations & Building Additions

Less than 60% fixtures replaced | 60% or more fixtures replaced | Stand alone bldg addition | Addition combined w/exist | Clear

Notes:
a. *Lighting fixtures in a building addition may comply as a stand alone project, or they may be combined with the overall existing bldg lighting to demonstrate compliance. Refer to C101.4.3.*
b. *For retrofits and building additions, provide Space Types and gross interior areas in the Maximum Allowed Lighting table. If a building addition will comply as combined with the overall existing building, include all applicable existing Space Types and gross interior areas.*
c. *Document new fixtures and all existing to remain fixtures in the Proposed Lighting table.*
d. *If less than 60% of existing fixtures will be replaced, provide total existing lighting wattage (prior to retrofit) in the space provided in the Maximum Allowed Lighting table.*

Maximum Allowed Lighting Wattage

Location (plan #, room #)	Space Type*	Allowed Watts per ft²	Gross Interior Area in ft²	Watts Allowed (watts/ft² x area)
		1.23	3158	3884
		0.95	183	174
		0.99	382	378
		0.66	316	209
		1.11	96	107
		0.98	480	470
	Retail Display Allowance from LTG-INT-DISPLAY			
			Area Total: 4615	Allowed Watts: 5222

* *Select Table C405.5.2(2) category from drop down menu*
** *For atriums, indicate height. Allowed wattage for first 40 feet is 0.03 W/ft. ht., above 40 feet is 0.02 W/ft. ht.*

Proposed Lighting Wattage

Location (plan #, room #)	Fixture Description***	Number of Fixtures	Watts/ Fixture	Watts Proposed
		8	182	1456
		12	86	1032
		5	59	295
		3	59	177
		19	20	380
		2	64	128
		1	36	36
		5		
		7		
	Retail Display Lighting from LTG-INT-DISPLAY			
	Total Proposed Watts may not exceed Total Allowed Watts for Interior Lighting		Total Proposed Watts:	3504

*** *Include existing to remain lighting fixtures and exempt lighting equipment per notes below.*

Notes:
1. *Include ALL proposed lighting fixtures.*
2. *For proposed Fixture Description, indicate fixture type, lamp type (e.g. T-8), number of lamps in the fixture, and ballast type (if included). For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.*
3. *For proposed Watts/Fixture, use manufacturer's listed maximum input wattage of the fixture (not simply the lamp wattage) and other criteria as specified in Section C405.5.1. For line voltage track lighting, list the greater of actual luminaire wattage or length of track multiplied by 50, or as applicable, the wattage of current limiting devices of the transformer. For low voltage track lighting list the transformer rated wattage.*
4. *For lighting equipment eligible for exemption per C405.5.1, note exception number and leave Watts/Fixture blank.*
5. *Document existing to remain fixtures in Proposed Lighting table in the same manner as new fixtures. Identify as existing in fixture description.*
6. *If #NA appears in Retail Display cells, information in LTG-INT-DISPLAY is incomplete.*

Interior Lighting Power Allowance — **COMPLIES**

Exterior Lighting Summary — LTG-EXT

Project Info	Project Address:	**Yelm Community Center** **301 2nd Street SE** **Yelm, Wa**	Date: 6/19/2014 For Building Department Use
	Applicant Name:	**Tres West Engineers**	
	Applicant Addr:	**2702 South 42nd Street, Suite 301, Tacoma, Wa 9**	
	Applicant Phone:	**253-472-3300**	

Project Description	New Building	Addition	Alteration	Plans Included	
Lighting Zone *As specified by jurisdiction. Zone selection required to enable LTG-EXT form*	Zone 1	Zone 2	Zone 3		Clear
Compliance Option					Clear
Building Grounds *Applies to luminaires > 100 Watts*	Efficacy > 60 lumens/W		Controlled by motion sensor		
	Exemption (list)				
Exterior Lighting Alterations	No changes are being made to the existing exterior lighting				
	New wiring installed to serve added fixtures and/or fixtures relocated to new circuit				
	Provide applicable exterior lighting controls per C405.2.4 and commissioning per				

Tradable Maximum Allowed Lighting Wattage — Base Site Allowance: 600

Tradable Surfaces	Surface Description	Allowed Watts per ft² or per lf	Area (ft²), perimeter (lf) or # of items	Allowed Watts x ft² (or x lf)
		20W/LF door width	161	3220
		0.7 W/LF	667	467
		0.14 W/ft2	1244	174
		0.06 W/ft2	10304	618
			Total Allowed Tradable Watts:	4479

Tradable Proposed Lighting Wattage *(Use mfgr listed maximum input wattage for luminaire.)*

Tradable Surface	Fixture Description	Number of Fixtures	Watts/ Fixture	Watts Proposed
		2	74	148
		4	100	400
		6	20	120
		1	47	47
		1	34	34
		1	36	36
		6	100	600
		4	45	180
	Total proposed tradable watts may not exceed the sum of total allowed tradable watts plus the base site allowance. Any base site allowance not needed to make tradable watts comply can be applied to individual non-tradable categories.		Total Proposed Tradable Watts:	1565

Non-Tradable Maximum Allowed Lighting Wattage — Base Site Allowance Remaining: 600

Non-Tradable Surfaces	Surface Description	Allowed Watts per ft² or per lf	Area (ft²), perimeter (lf) or # of items	Allowed Watts x ft² (or x lf)

Non-Tradable Proposed Lighting Wattage

Non-Tradable Surface	Fixture Description	Number of Fixtures	Watts/ Fixture	Watts Proposed
	Non-tradable proposed watts may not exceed allowed watts for any individual surface unless the total excess watts for all non-tradable surfaces are less than the remaining site allowance.		Total excess Non-Tradable watts:	0
			Site Allowance Balance:	600

Exterior Lighting — **COMPLIES WITH SITE ALLOWANCE**

Lighting, Motor, and Transformer Permit Documents Checklist — LTG-CHK

Project Address: **Yelm Community Center** — Date: 6/19/2014

The following information is necessary to check a permit application for compliance with the lighting, motor, and transformer requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
LIGHTING CONTROLS (Section C405.2)					
Yes	C405.2.1.1 C405.2.1.2	Manual interior lighting controls	Indicate on plans the manual control type & locations served; Indicate of plans the 50% lighting load reduction method provided or identify exception taken	E0.1/E2.0 E0.1/E2.0	
Yes	C405.2.2.1	Automatic time switch controls and override switching	Indicate lighting system automatic shut-off capability - identify lighting zone areas served on plans; Indicate locations of override switches on plans and the areas served, include area sq. ft.; Indicate locations where automatic shutoff is provided by other methods (occupancy sensor, daylight controls, etc)	E2.0 E2.0 E2.0	
Yes	C405.2.2.2	Occupancy sensors	Indicate on plans the locations served by occupancy sensors	E2.0	
Yes	C405.2.2.3	Daylight zones - Vertical fenestration and skylights	Indicate vertical fenestration primary and secondary daylight zone areas on plans, include sq. ft.; Indicate skylight daylight zone areas on plans, include sq. ft	All of Multi-Purpose rooms N/A	
Yes	C405.2.2.3.2	Daylight zone controls	Indicate on plans the locations served by daylight zone controls; Indicate in plans the lighting load reduction (dimming) method - stepped or continuous dimming	All of Multi-Purpose rooms Dimming E0.1	
Yes	C405.2.3	Specific application lighting controls - General	Indicate on plans the locations served by specific application lighting controls	Time Clock E2.0/E7.0	
NA	C405.2.3 - Items 1&2	Display and accent lighting	Indicate lighting control method for display and accent lighting, and display case lighting; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space	N/A N/A	
NA	C405.2.3 - Item 3	Hotel/motel guest rooms	Provide a lighting control device at each guest room entry for all permanently installed fixtures in guest room; Indicated whether lighting control is manual or automatic	N/A N/A	
NA	C405.2.3 - Item 4	Supplemental task lighting	Provide automatic shut-off vacancy controls for supplemental task lighting, including under-shelf or under-cabinet lighting	N/A	
NA	C405.2.3 - Item 5	Lighting for non-visual applications	Identify eligible non-visual applications and method of lighting control; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space	N/A N/A	
NA	C405.2.3 - Item 6	Lighting equipment for sale or demonstration	Indicate lighting control method for lighting equipment for sale or demonstration; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space	N/A N/A	
Yes	C405.2.3 - Item 7	Means of egress lighting	If egress lighting power density is greater than 0.05W/ft², indicate method of automatic shut-off during unoccupied periods; Identify on plans the egress fixtures that function as both normal and emergency means of egress illumination	E2.0 Hatch Fix E2.0	
NA	C405.10 C405.11	Cooler and freezer lighting	Provide vacancy device or timer to turn off fixtures within 15 minutes of unoccupancy for cooler and freezer lighting fixtures with lamp efficacy less than 40 lumens per watt	N/A	
Yes	C405.2.4	Exterior lighting controls	Indicate on exterior lighting plans the automatic lighting control method and locations served	Time Clock E2.0/E7.0	
Yes	C405.6.1	Exterior building grounds lighting controls	Provide motion sensor controls for building grounds fixtures rated at greater than 100 watts with lamp efficacy less than 60 lumens, or identify exception taken	Motion Sensor E0.1/E2.0	
NA	C408.3	Lighting system functional testing	Identify applicable commissioning documentation requirements per Section C408 or eligibility for exception; Provide written procedures for functional testing of all automatic controls and describe the expected system response.; Identify in construction documents the party responsible for functional testing of automatic lighting controls	N/A N/A N/A	
INTERIOR LIGHTING POWER & EFFICACY (Sections C405.5, C405.10, C405.11)					
Yes	C405.5.1 C405.5.1.1 C405.5.1.2 C405.5.1.3 C405.5.1.4	Total connected exterior lighting power	Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; Identify spaces eligible for lighting power exemption on plans and in compliance forms; Identify lighting equipment eligible for exemption in fixture schedule and in compliance forms; Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently	E0.1 E0.1 N/A	
Yes	C405.4	Exit signs	Provide exit sign types and rated watts per fixture in fixture schedule (maximum 5 watts per fixture)	E0.1	
NA	C405.10 C405.11	Cooler and freezer lighting	For lighting in walk-in coolers and freezers, and refrigerated warehouse coolers and freezers, provide rated lamp efficacy (in lumens per watt) in fixture schedule	N/A	
	Lighting Power Calculation - Indicate compliance path taken				
No	C405.5.2	Building Area Method	Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans		
Yes	C405.5.2	Space-By-Space Method	Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage. Identify locations of space types on plans, including retail display areas as applicable	E6.2	
EXTERIOR LIGHTING POWER & EFFICACY (Section C405.6)					
Yes	C405.6.2	Total connected exterior lighting power	Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting	E0.1 N/A N/A	
	Table C405.6.2(1)	Exterior lighting zone	Indicate building exterior lighting zone as defined by the AHJ		
NA	C405.6.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts, provide rated lamp efficacy (in lumens per watt) in fixture schedule	N/A	
Yes	C405.6.2	Exterior lighting power calculations	Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed	E6.2	
MOTORS & TRANSFORMERS (Sections C405.8, C405.9)					
NA	C405.8	Electric Motors	For motors not part of an HVAC system, provide electric motor schedule on electrical plans with hp, rpm, and rated efficiency	N/A	
NA	C405.9	Transformers	Provide distribution transformer schedule on electrical plans with transformer size and efficiency	N/A	

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REVISIONS

DATE
08.20.14

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SHEET TITLE
WSEC COMPLIANCE FORMS

SHEET
E1.1

100% CD SET

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AIR HANDLING UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL CAPACITY COOLING	SENSIBLE CAPACITY COOLING	INPUT HEATING	OUTPUT HEATING	EFFICIENCY EER	EFFICIENCY IEER	SUPPLY FAN CFM	SUPPLY FAN RPM	SUPPLY FAN ESP	MIN OSA	FILTER EFFICIENCY PRE	FILTER EFFICIENCY FINAL	ELECTRICAL VOLT	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	STARTER VFD	STARTER MFG	STARTER EC	STARTER N/A	WEIGHT (LBS)	NOTES
AHU-1	TRANE	YHC092F	88.14	65.02	150	120	12.6	14.5	3000	1242	1	600	-	MERV-8	208	3	38.2	60	-	-	X	-	1026	1,2
AHU-2	TRANE	YHC060F	58.25	42.75	80	64	15	-	2000	1040	1	550	-	MERV-8	208	3	28	40	-	-	X	-	755	1,2

NOTES:

1. PROVIDE WITH 100% CAPABLE LOW LEAK ECONOMIZER.
2. PROVIDE WITH SEISMIC ISOLATION ROOF CURBS.

5

GREASE TRAP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	GPM	GREASE CAPACITY (LBS)	CONNECTIONS (IN) INLET	CONNECTIONS (IN) OUTLET	VOLT	W	HZ	MOUNTING	NOTES
GI-1	THERMACO	W-200-IS	20	40	2"	2"	115	520	60	FLOOR	
GI-2	THERMACO	W-200-IS	20	40	2"	2"	115	520	60	FLOOR	

NOTES:

FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	CFM	SP (IN)	RPM	SOUND POWER (UNITS)	MOUNTING	ELECTRICAL HP	ELECTRICAL W	ELECTRICAL VOLT	ELECTRICAL PHASE	STARTER VFD	STARTER MFG	STARTER EC	STARTER N/A	WEIGHT (LBS)	NOTES
EF-1	GREENHECK	CUE-141	H-1	2400	0.75	1725	65	ROOF	1	-	208	1	-	-	X	-	79	3
EF-2	GREENHECK	CUE-080-VG	RESTROOMS	420	0.25	1665	56	ROOF	1/6	-	208	1	-	-	X	-	44	2,4,5
EF-3	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1
EF-4	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1
EF-5	GREENHECK	SP-B90	TOILET 108	70	0.25	700	40	CEILING	-	65	120	1	-	X	-	-	10	1

NOTES:

1. FAN OPERATES UPON ACTIVATION OF LIGHT SWITCH.
2. FAN OPERATES ON AN OCCUPIED/UNOCCUPIED SCHEDULE.
3. INTEGRATE FAN CONTROLS TO ACTIVATE WHEN COOKING EQUIPMENT IS ACTIVE.
4. PROVIDE WITH HINGED CURB CAP WITH CABLES, GREASE TRAP, AND MUST HAVE A UL 762 RATING.
5. ENSURE DUCT EXTENDS 18 INCHES ABOVE THE ROOF SURFACE AND EXHAUST DISCHARGE OPENING BE NOT LESS THAN 40 INCHES ABOVE THE ROOF SURFACE.

KITCHEN HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DIMENSIONS (IN) LENGTH	DIMENSIONS (IN) WIDTH	SUPPLY FAN	EXHAUST FAN	LIGHTS QTY	LIGHTS TYPE	FILTERS QTY	FILTERS SIZE (IN)	FILTERS TYPE	RATING	ELECTRICAL VOLT	ELECTRICAL PHASE	ELECTRICAL AMPS	NOTES
H-1	-	-	72	48	-	2400	-	-	-	-	-	-	-	-	-	1

NOTES:

1. EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLY. HOOD INSTALLED BY OTHERS.

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	OSA CFM	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY AFUE	FAN HP	FAN RPM	ELECTRICAL VOLT	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	WEIGHT (LBS)	NOTES
MUA-1	GREENHECK	IG-109-1110	2400	175	140	80	1-1/2	1390	208	3	10.8	15	779	1,2,3

NOTES:

1. PROVIDE WITH MODULATING GAS BURNER.
2. MOTOR EFFICIENCY MEETS NEMA STD MG-1.
3. UNIT SHALL ACTIVATE UPON ACTIVATION OF EF-1.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	TYPE	FLOW GPM (DESIGN)	FLOW GPM (MIN)	FLOW GPD	HEAD (FT)	NPSHR (FT)	RPM	ELECTRICAL HP	ELECTRICAL W	ELECTRICAL AMP	ELECTRICAL VOLT	ELECTRICAL PHASE	MOUNTING	WEIGHT (LBS)	NOTES
CP-1	BELL & GOSSETT	NRF-9	HOT WATER RECIRCULATION	IN-LINE	12	5	-	5	-	2800	0.05	41.00	0.40	115	1	IN LINE		

NOTES:

ELECTRIC HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	ELECTRICAL KW	ELECTRICAL VOLT	ELECTRICAL PHASE	NOTES
UH-1	INDEECO	AS2448-515-208	0.515	208	1	
UH-2	INDEECO	AS2448-515-208	0.515	208	1	
UH-3	INDEECO	AS2448-515-208	0.515	208	1	
UH-4	INDEECO	932U01500V	1.125	208	1	
UH-5	INDEECO	C-10508	1.050	208	1	
UH-6	INDEECO	AS2448-515-208	0.515	208	1	

NOTES:

GAS WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CAPACITY (GAL)	GAS RATINGS (MBH) INPUT	GAS RATINGS (MBH) OUTPUT	EFF	DISCHARGE TEMP (DEG F)	RECOVERY GPH	RECOVERY TEMP RISE	ELECTRICAL VOLT	ELECTRICAL PHASE	ELECTRICAL KW	WEIGHT (LBS)	NOTES
WH-1	A.O. SMITH	BDP-75	75	70	56	80%	140	75	90	120	1	-		1

NOTES:

1. PROVIDE WITH HORIZONTAL CONCENTRIC KIT.

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PROJECT
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REVISIONS
1 02.17.2015
2 02.24.2015
3 03.12.2015

DATE
02.17.15

BCRA NO.
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SHEET TITLE
MECHANICAL SCHEDULES

SHEET
E1.2

AS1 #1

Date Plotted: Mar 12, 2015 – 3:45pm Filename: 140309_E1.2.dwg By: BJN

140309_E1.2.dwg
3/12/2015 3:45:11 PM

GENERAL NOTES

1. ALL EXTERIOR LIGHTS ROUTED VIA ASTRONOMICAL TIME CLOCK.
2. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY FIXTURES.

PLAN NOTES

(1) PROVIDE (2) 2"C. AND PULL CORD ROUTED TO BUILDING B FOR FUTURE USE.

(2) CENTER FIXTURE,"E4" ABOVE THE FACADE SIGN READING, "YELM COMMUNITY CENTER." COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.

(3) 24" PENDANT 'F1' FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

(4) 30" PENDANT 'F1' FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

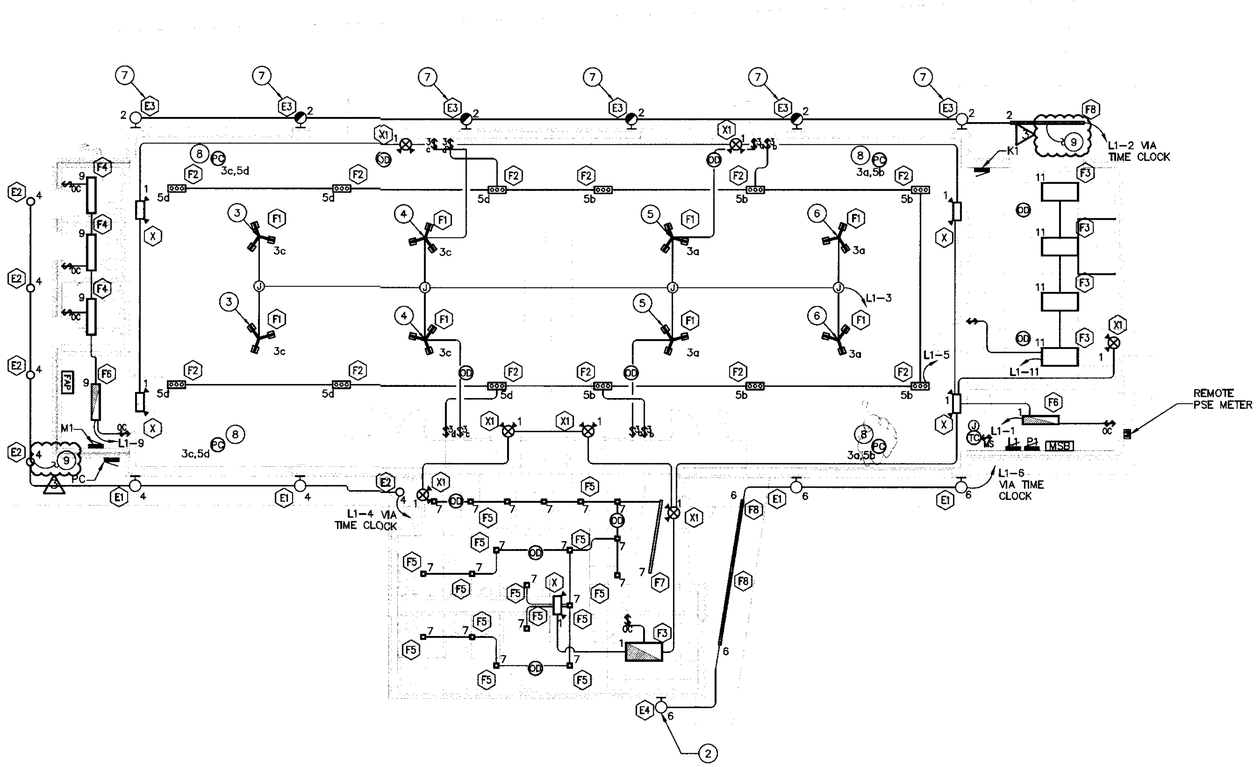
(5) 36" PENDANT 'F1' FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

(6) 42" PENDANT 'F1' FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

(7) REFER TO ARCHITECTURAL SHEET A7.01 FOR MOUNTING LOCATION AND INFORMATION ON FIXTURE 'E3'.

(8) PHOTOCELL CONTROLS LIGHT FIXTURE WITH CORRESPONDING CIRCUIT NUMBER AND SUBSCRIPT LETTER.

(9) LIGHTING CIRCUIT VIA TIME CLOCK CONTROLS EXTERIOR RECEPTACLE FOR CHRISTMAS LIGHTS. SEE SHEET E3.0 FOR DEVICE LOCATION.



1 OVERALL LIGHTING PLAN
SCALE: 1/8"= 1'-0"

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

1	02.17.2015
2	02.24.2015
3	03.12.2015

DATE
02.17.15

BCRA NO.
14013

CADD FILE

SHEET TITLE
OVERALL LIGHTING PLAN

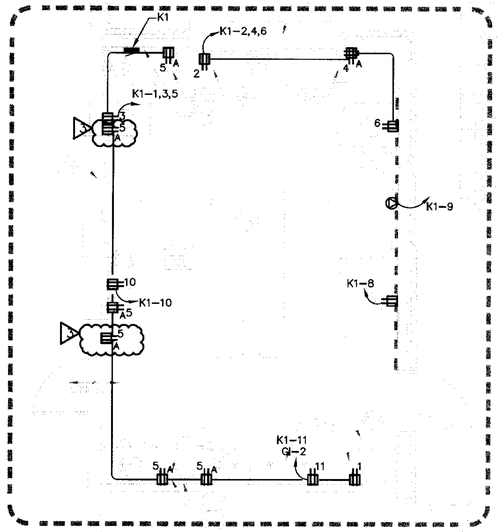
BCRA

SHEET
E2.0

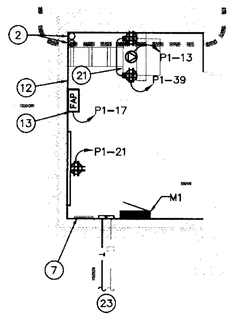
AS1 #1

Date Plotted: Mar 12, 2015 - 3:45pm Filename: 140309_E2.0.dwg By: BJN

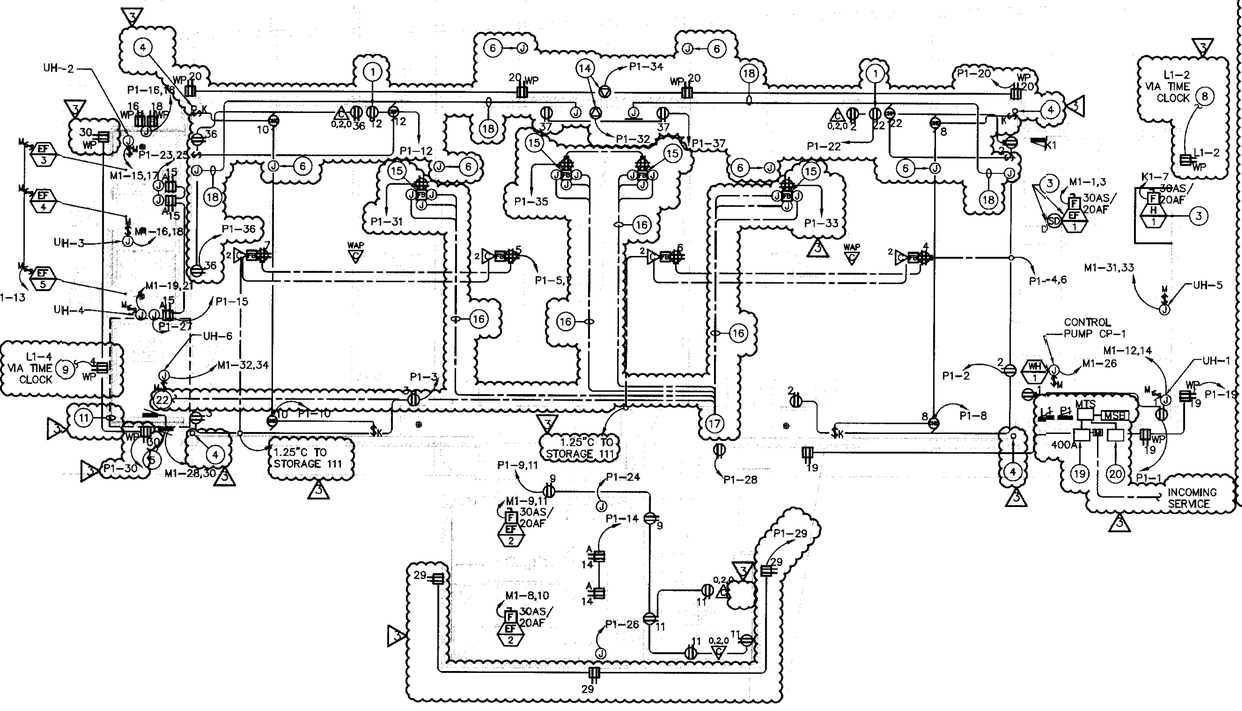
1:\3\5\0_E2.0.dwg
3/12/2015 11:1



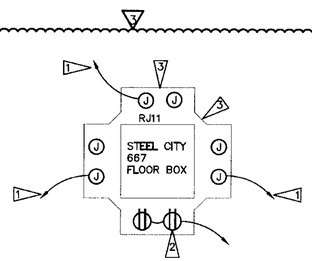
2 ENLARGED KITCHEN PLAN
SCALE: 1/4"= 1'-0"



3 ENLARGED STORAGE 111 ROOM DATA PLAN
SCALE: 1/4"= 1'-0"



1 OVERALL POWER AND SYSTEMS PLAN
SCALE: 1/8"= 1'-0"



FLOOR BOX DIAGRAM 'E'

NOT TO SCALE

1. PROVIDE A 1-1/4" CONDUIT WITH PULL STRING FROM FLOOR BOX TO STORAGE CLOSET 113.
2. PROVIDE DOUBLE DUPLEX HOUSING AT THIS COMPARTMENT ROUTE TO PANEL P1 AND CIRCUIT AS SHOWN ON PLANS.
3. LABEL ALL DEVICES AND PROVIDE CIRCUIT DESIGNATIONS FOR ALL POWER OUTLETS. PROVIDE INDUSTRIAL STRENGTH SELF LAMINATING LABELS.

4 VIDEO CART FLOOR BOX DETAIL
SCALE: NO SCALE

GENERAL NOTES

1. REFER TO MECHANICAL PLANS SHEET M100 FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
2. REFER TO PLAN 2, "ENLARGED KITCHEN POWER" ON THIS SHEET FOR THE PLACEMENT AND CIRCUITING OF KITCHEN POWER.
3. PROVIDE 120V POWER TO WATER CLOSETS AND URINALS. REFER TO PLUMBING SHEETS P101 ON PLUMBING PLANS FOR LOCATIONS.

PLAN NOTES

1. MOUNT RECEPTACLE FOR OVERHEAD PROJECTOR (OHP) AT 10'-0" AFF.
2. (2) 2"C. AND PULL CORD ROUTED TO BUILDING B FOR FUTURE USE.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND DUCT DETECTORS WITH MECHANICAL PLANS SHEET M100.
4. PROVIDE JUNCTION BOX AND (1)1"C FOR EXTERIOR MOUNTED CCTV CAMERA'S. ROUTE CONDUIT BACK TO DVR IN OFFICE 103. COORDINATE WITH OWNER ON THE EXACT MOUNTING LOCATION OF SECURITY CAMERA'S.
5. LOCATION OF PANEL 'PC'. SEE SHEET E6.0 FOR WIRE SIZE AND AMOUNT. SEE SHEET E7.1 DETAILS 1,2 & 3 FOR ADDITIONAL INFORMATION.
6. LOCATION OF OWNER PROVIDED SOUND SYSTEM SPEAKER. PROVIDE JUNCTION BOX WITH COVER PLATE AND (1)1-1/4" CONDUIT BACK TO SOUND SYSTEM HEAD END RACK IN CLOSET.
7. LOCATE GROUNDING BUS BAR AT THIS LOCATION. SEE SHEET E7.0 DETAIL #2 FOR ADDITIONAL INFORMATION.
8. RECEPTACLE MOUNTED AT 6" BELOW ROOF LINE FOR XMAS LIGHTS. CIRCUIT TIED INTO LIGHTING CIRCUIT 2 VIA TIME CLOCK.
9. RECEPTACLE MOUNTED AT 6" BELOW ROOF LINE FOR XMAS LIGHTS. CIRCUIT TIED INTO LIGHTING CIRCUIT 4 VIA TIME CLOCK.
10. NOT USED.
11. SEE ENLARGED STORAGE ROOM 111 DATA PLAN THIS SHEET.
12. PROVIDE 3/4" PLYWOOD AROUND ALL WALLS.
13. FIRE ALARM PANEL LOCATION. PROVIDE 120V DEDICATED CIRCUIT AND (2) DEDICATED TELEPHONE LINES.
14. PROVIDE 50A RECEPTACLE AND CIRCUIT AS SHOWN. PROVIDE (1)1" CONDUIT W/(2)#8Cu & (1)#10Cu GROUND. VERIFY REQUIREMENTS WITH OWNER.
15. SEE DETAIL 4 THIS SHEET FOR ADDITIONAL INFORMATION FOR THE VIDEO CART FLOOR BOX.
16. (3) 1-1/4"CONDUIT WITH PULL STRING.
17. LOCATION OF OWNER PROVIDED SOUND SYSTEM RACK AND EQUIPMENT.
18. PROVIDE (1)1-1/4" CONDUIT WITH PULL STRING BETWEEN BOX LOCATIONS AS SHOWN FOR CONNECTION OF PORTABLE SOUND SYSTEM SPEAKERS. PROVIDE JUNCTION BOX WITH XLR SPEAKER CONNECTION AT END'S OF CONDUIT RUN.
19. 400A WEATHER PROOF SERVICE RATED DISCONNECT.
20. GENERATOR CONNECTION POINT.
21. AMP/TE 2-POST 19" EQUIPMENT RACK, 84" HIGH, PART #1933560-1.
22. (1)1" CONDUIT CONTAINING NETWORK COAXIAL CABLE FROM RACK IN STORAGE ROOM 111 TO OWNER PROVIDED SOUND SYSTEM RACK (NOTE 17).
23. (2)4" CONDUITS. PENETRATE FROM EXTERIOR OF BUILDING AT 6" AFF. FIRE RATE PENETRATION POINTS AS REQUIRED. (1)4"CONDUIT FOR UTILITY FIBER AND (1)4" CONDUIT FOR UTILITY COPPER. SEE ELECTRICAL SITE PLAN SHEET E1.0 FOR POINT ON ORIGIN AND ROUTING INFORMATION.

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS
1 02.17.2015
2 02.24.2015
3 03.12.2015

DATE
02.17.15

BCRA NO.
14013

CADD FILE

SHEET TITLE
OVERALL POWER AND SYSTEMS PLAN

SHEET
E3.0

AS1 #1

Date Plotted: Mar 17, 2015 - 10:31am Filename: 140309_E3.0.dwg By: BJN

140309_E3.0.dwg
3/17/2015 1:1

GENERAL NOTES

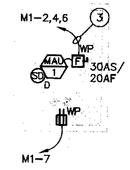
1. VERIFY EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL SHEET M100

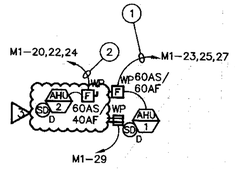
PLAN NOTES

(1) PROVIDE (1)1"C W/(3)#6Cu. THHN AND (1)#10Cu GROUND.

(2) PROVIDE (1)1"C W/(3)#8Cu. THHN AND (1)#10Cu GROUND.

(3) PROVIDE (1)1"C W/(3)#12Cu. THHN AND (1)#12Cu GROUND.





1 OVERALL ROOF PLAN
SCALE: 1/8"= 1'-0"

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

1	02.17.2015
2	02.24.2015
3	03.12.2015

DATE
02.17.15

BCRA NO.
14013

CADD FILE

SHEET TITLE
OVERALL ROOF PLAN

SHEET
E3.1

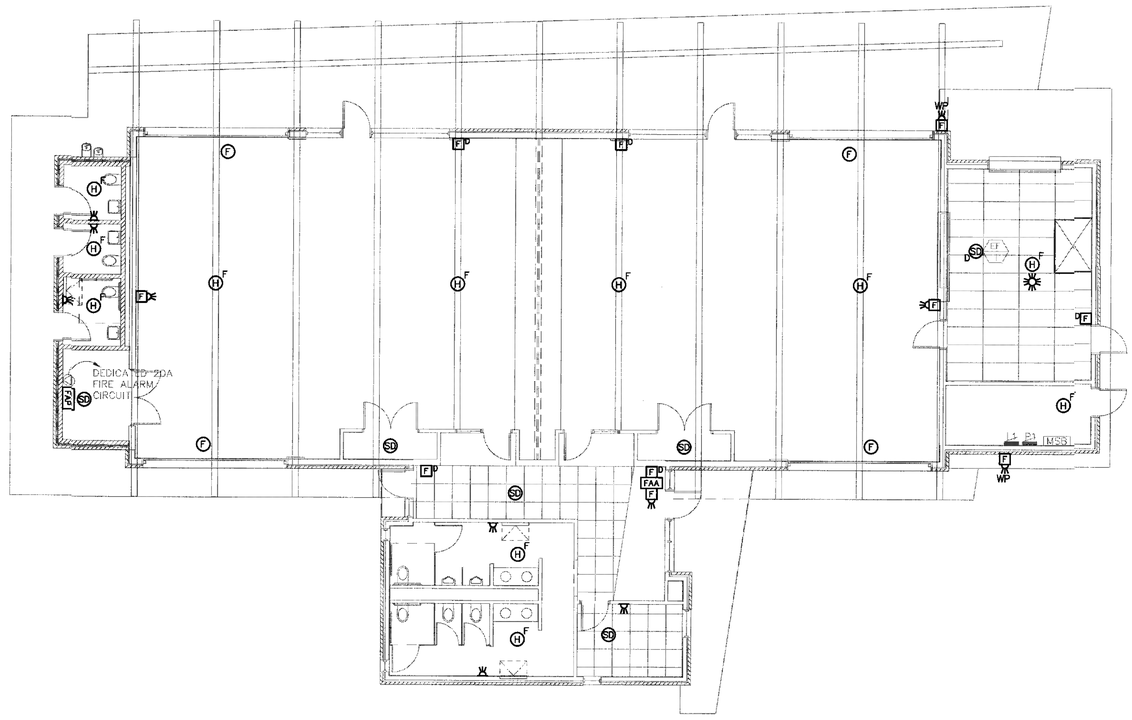
AS1 #1

Date Plotted: Mar 12, 2015 - 3:46pm Filename: 140309_E3.1.dwg By: BJN

140309_E3.1.dwg
3/12/2015 1:1"

GENERAL NOTES

1. FIRE ALARM PLANS ARE BASED ON A DESIGN BID PROCESS. CONTRACTOR IS TO PROVIDE PLANS BASED ON CURRENT FIRE ALARM CODES.
2. SEE SHEET E3.1 FOR FIRE ALARM DUCT DETECTOR LOCATIONS FOR MECHANICAL DEVICES, "MAU-1, AHU-1,AND AHU-2."



1 FIRE ALARM PLAN
SCALE: 1/8"= 1'-0"

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2108 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

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08-20-2014

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS

DATE
08.20.14

BCRA NO
14013

CADD FILE

SHEET TITLE
FIRE ALARM PLAN

SHEET
E4.0

100% CD SET

Date Plotted: Aug 18, 2014 – 4:12pm Filename: 140309_E4.0.dwg By: BJN

140309_E4.0.dwg
8/18/2014 1:1

GENERAL NOTES

1. PROVIDE SERVICE RATED DISCONNECTS AND PANELS AS REQUIRED.

PLAN NOTES

(1) GROUND PER NEC CODE.

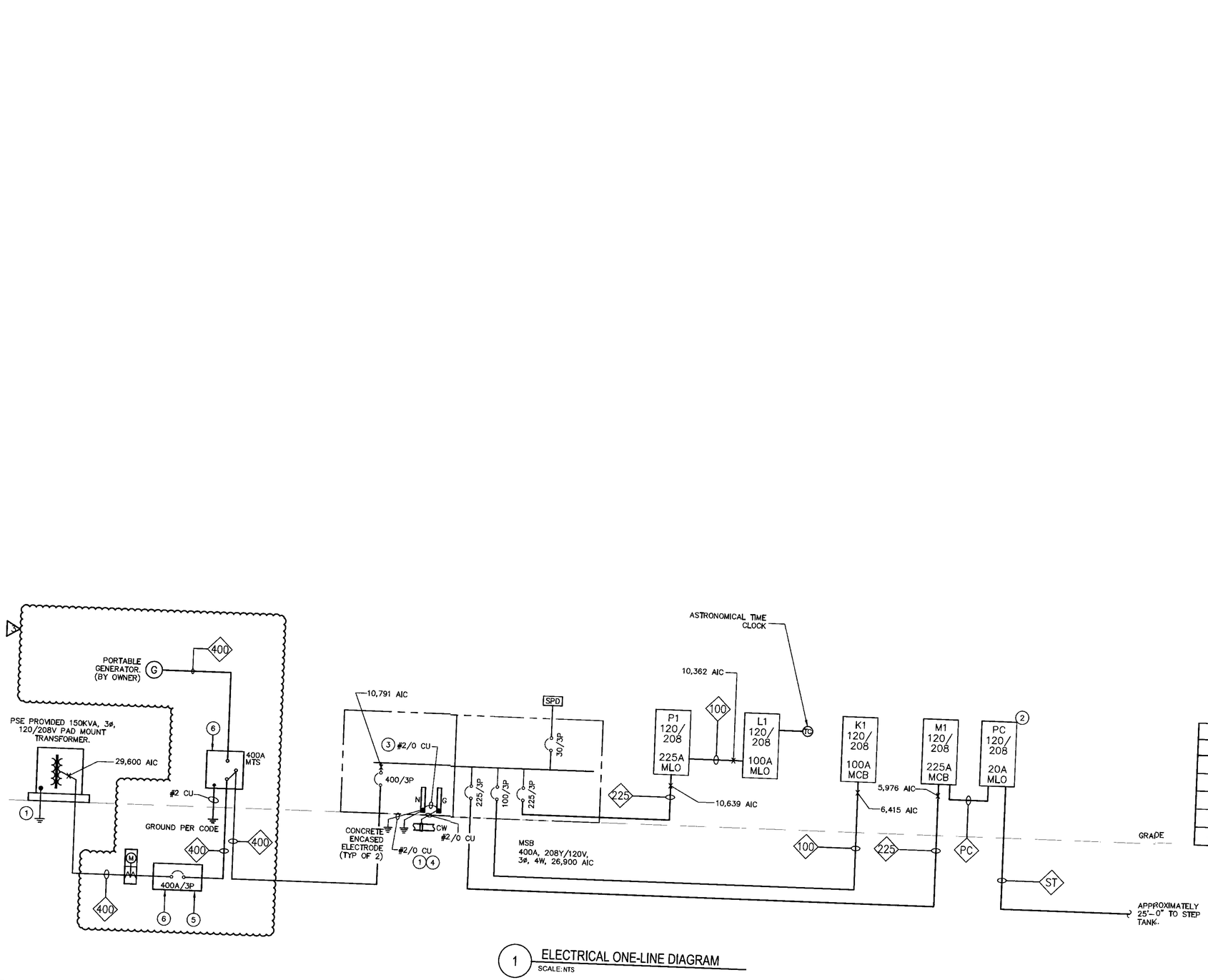
(2) POWER FOR PANEL 'PC' IS FROM PANEL 'M1' CIRCUITS 28 AND 30.

(3) BONDING JUMPER SHALL BE INSTALLED IN ACCORDANCE WITH NEC 250-64 AND SHALL BE CONNECTED IN THE MANNER SPECIFIED IN NEC 250-70.

(4) INSTALL CONCRETE-ENCASED ELECTRODE IN COMPLIANCE WITH NEC 250.52.

(5) 400A WEATHER PROOF SERVICE DISCONNECT LOCATED ON EXTERIOR OF THE BUILDING.

(6) PROVIDE KIRK KEY INTERLOCK.



FEEDER SCHEDULE		
TAG	FEEDER AMPS	CONDUIT AND FEEDER
400	400A	(2)2-1/2"C (4)#4/0 Cu
225	225A	(1)2-1/2"C (4)#4/0 Cu & (1)#4 Cu GRD
100	100A	(1)2"C (4)#1 Cu & (1)#8 Cu GRD
PC	20A	(1)3/4"C (2)#12 Cu - PANEL M1 CKT 28
ST	20A	(1)1"C (8)#12 Cu

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NTS

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

REVISIONS
02.17.2015
02.24.2015
03.12.2015

DATE
02.17.15

BCRA NO.
14013

CADD FILE

SHEET TITLE
ONE-LINE DIAGRAM

SHEET
E6.0

AS1 #1

Date Plotted: Mar 12, 2015 - 3:47pm Filename: 140309_E6.0.dwg By: BJN

140309_E6.0.dwg
3/12/2015 1:1

PANEL MSB

LOCATION: MECH/ELEC RM 107
SERVING: 3PHASE LOADS
FED FROM: TRANSFORMER

208/120 VOLT, 3 PHASE, 4 WIRE — 400 AMP BUS RATING — 400 AMP MAIN BREAKER — SCCR: 22,000 A — AFC: 10,791 A — MOUNTING: SURFACE

CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	PANEL P1	P	34.956	225/3	A	100/3	12.346	P	PANEL K1	2
3	(MECH/ELEC RM 107)	-	-	-	B	-	-	-	(KITCHEN 106)	4
5	-	-	-	-	C	-	-	-	-	6
7	PANEL L1	P	5.979	100/3	A	225/3	33.588	P	PANEL M1	8
9	(MECH/ELEC RM 107)	-	-	-	B	-	-	-	(STORAGE 111)	10
11	-	-	-	-	C	-	-	-	-	12
13	SPACE	S	-	-	A	-	-	S	SPACE	14
15	SPACE	S	-	-	B	-	-	S	SPACE	16
17	SPACE	S	-	-	C	-	-	S	SPACE	18

PHASE LOAD — PHASE A= 32.00 KVA — PHASE B= 30.92 KVA — PHASE C= 23.95 KVA

LOAD TYPE	L	R	M	H	WH		D	A	K	LM	TOTAL LOADS	
PANEL MSB											KVA	AMP
PANEL P1		20.40	1.44				13.12			0.72	34.96 KVA	97.03 AMP
PANEL L1	5.98										5.98 KVA	16.60 AMP
PANEL K1		1.08	1.08				1.19	9.00		1.08	12.35 KVA	34.27 AMP
PANEL M1		9.36	23.56		0.90		0.57			1.76	33.39 KVA	93.28 AMP
CONN. LOAD	5.98	21.84	35.07		0.30		14.68	9.00		14.76	86.87 KVA	241.12 AMP
CALC. LOAD	7.47	15.92	35.07		0.30		14.68	9.00		3.69	86.13 KVA	239.08 AMP

REQUIRED: SERVICE ENTRANCE RATED
OPTIONS:

NOTES:

PANEL P1

LOCATION: MECH/ELEC RM 107
SERVING: POWER LOADS
FED FROM: MSB

208/120 VOLT, 3 PHASE, 4 WIRE — 225 AMP MAIN LUGS ONLY — SCCR: 22,000 A — AFC: 10,639 A — MOUNTING: SURFACE

CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	REC - MECH/ELEC 107	R	0.360	20/1	A	20/1	0.720	R	MULTIPURPOSE 2 - REC	2
3	REC - MULTIPURPOSE 1	R	0.360	20/1	B	20/1	0.720	R	MULTIPURPOSE FLOOR BOX - REC	4
5	REC - MULTIPURPOSE FLOOR BOX	R	0.720	20/1	C	20/1	0.720	R	MULTIPURPOSE FLOOR BOX - REC	6
7	REC - MULTIPURPOSE FLOORBOX	R	0.720	20/1	A	20/1	0.720	M	(2) 1/2 HP OVERHEAD DOORS - M	8
9	REC - LOBBY 102	R	0.360	20/1	B	20/1	0.720	M	(2) 1/2 HP OVERHEAD DOORS - M	10
11	REC - OFFICE 103	R	0.720	20/1	C	20/1	0.580	D	OVERHEAD PROJECTOR - DED	12
13	STORAGE 111 30A RECEPTACLE	D	1.000	30/1	A	20/1	0.360	R	RESTROOM GFCI - REC	14
15	REC - RESTROOM GFCI	R	0.540	20/1	B	20/1	0.528	D	DRINKING FOUNTAIN - DED	16
17	DED - FIRE ALARM CONTROL PANEL	D	0.500	20/1	C	20/1	0.528	D	DRINKING FOUNTAIN - DED	18
19	REC - OUTDOOR RECEPTACLES	R	0.540	20/1	A	20/1	0.720	R	OUTDOOR RECEPTACLES - REC	20
21	DED - TELEPHONE BOARD	D	0.720	20/1	B	20/1	0.580	D	OVERHEAD PROJECTOR - DED	22
23	DED - RESTROOM HAND DRYER	D	1.500	20/1	C	20/1	1.500	D	RESTROOM HAND DRYER - DED	24
25	DED - RESTROOM HAND DRYER	D	1.500	20/1	A	20/1	1.500	D	RESTROOM HAND DRYER - DED	26
27	DED - RESTROOM HAND DRYER	D	1.500	20/1	B	20/1	0.180	D	FIRE ALARM ANNUNCIATOR - DED	28
29	REC - OUTDOOR RECEPTACLES	R	0.540	20/1	C	20/1	0.360	R	OUTDOOR RECEPTACLES - REC	30
31	REC - AV CART FLOORBOX	R	0.360	20/1	A	50/1	4.800	R	50 AMP INTERIOR RECEPTACLE - REC	32
33	REC - AV CART FLOORBOX	R	0.360	20/1	B	50/1	4.800	R	50 AMP EXTERIOR RECEPTACLE - REC	34
35	REC - AV CART FLOORBOX	R	0.720	20/1	C	20/1	0.540	R	MULTI PURPOSE RECEPTACLES - REC	36
37	REC - MULTIPURPOSE ROOM RECEPT	R	0.360	20/1	A	20/1	-	S	SPARE	38
39	STORAGE 111 RACK RECEPT	D	1.000	20/1	B	20/1	-	S	SPARE	40
41	SPARE	S	-	20/1	C	20/1	-	S	SPARE	42

PHASE LOAD — PHASE A= 13.66 KVA — PHASE B= 12.37 KVA — PHASE C= 8.93 KVA

LOAD TYPE	L	R	M	H	WH		D	A	K	LM	TOTAL LOADS	
CONN. LOAD		20.40	1.44				13.12			0.72	34.96 KVA	97.03 AMP
CALC. LOAD		15.20	1.44				13.12			0.18	29.94 KVA	83.09 AMP

NOTES:

PANEL M1

LOCATION: STORAGE 111
SERVING: 3PHASE MECHANICAL LOADS
FED FROM: MSB

208/120 VOLT, 3 PHASE, 4 WIRE — 225 AMP BUS RATING — 225 AMP MAIN BREAKER — SCCR: 10,000 A — AFC: 5,976 A — MOUNTING: SURFACE

CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	M - 1 HP EXHAUST FAN 1	M	1.000	20/2	A	20/3	1.200	M	1-1/2 HP MAU 1 - M	2
3	-	-	-	-	B	-	-	-	-	4
5	SPARE	S	-	20/1	C	-	-	-	-	6
7	REC - ROOF GFCI	R	0.180	20/1	A	20/2	0.360	M	EXHAUST FAN 2 WOMENS RR - M	8
9	M - EXHAUST FAN 2 MENS RR	M	0.360	20/2	B	-	-	-	1/6HP	10
11	1/6HP	-	-	-	C	20/2	0.515	M	UH 1 - M	12
13	M - EXHAUST FANS 3, 4, & 5	M	0.200	20/1	A	-	-	-	-	14
15	M - UH 2	M	0.515	20/2	B	20/2	0.515	M	UH 3 - M	16
17	-	-	-	-	C	-	-	-	-	18
19	M - UH 4	M	1.125	20/2	A	40/3	10.440	M	AHU 2 - M	20
21	-	-	-	-	B	-	-	-	-	22
23	M - AHU 1	M	14.760	60/3	C	-	-	-	-	24
25	-	-	-	-	A	20/1	0.300	WH	WATER HEATER AND CONTROL PUMP - WH	26
27	-	-	-	-	B	20/1	1.150	P	STEP TANK CONTROL PANEL - DED	28
29	REC - ROOF GFCI	R	0.180	20/1	C	20/1	0.373	D	1/2 HP STEP TANK PUMP - DED	30
31	M - UH 5	M	1.050	20/2	A	20/2	0.515	M	UH 6 - M	32
33	-	-	-	-	B	-	-	-	-	34
35	SPARE	S	-	20/1	C	20/2	-	S	SPARE	36
37	SPARE	S	-	20/1	A	-	-	-	-	38
39	SPARE	S	-	20/1	B	20/2	-	S	SPARE	40
41	SPARE	S	-	20/1	C	-	-	-	-	42

PHASE LOAD — PHASE A= 11.38 KVA — PHASE B= 12.29 KVA — PHASE C= 9.92 KVA

LOAD TYPE	L	R	M	H	WH		D	A	K	LM	TOTAL LOADS	
CONN. LOAD		0.36	32.56		0.30		0.37			14.76	33.59 KVA	93.23 AMP
CALC. LOAD		0.36	32.56		0.30		0.37			3.69	37.28 KVA	103.47 AMP

NOTES:

PANEL L1

LOCATION: MECH/ELEC RM 107
SERVING: LIGHTING LOADS
FED FROM: MSB

208/120 VOLT, 3 PHASE, 4 WIRE — 100 AMP MAIN LUGS ONLY — SCCR: 22,000 A — AFC: 10,362 A — MOUNTING: SURFACE

CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	LTG - EMERGENCY	L	0.180	20/1	A	20/1	0.902	L	EXT LTG/XMAS RECEPT VIA TIME CLOCK - LTG	2
3	LTG - MULTI PURPOSE PENDANTS	L	1.456	20/1	B	20/1	0.873	L	EXT LTG/XMAS RECEPT VIA TIME CLOCK - LTG	4
5	LTG - MULTI PURPOSE TASK	L	1.404	20/1	C	20/1	0.362	L	EXTERIOR SITE LIGHTING VIA TIME CLOCK - LTG	6
7	LTG - RESTROOM/CORRIDOR	L	0.304	20/1	A	20/1	-	S	SPARE	8
9	LTG - PUBLIC RESTROOM	L	0.262	20/1	B	20/1	-	S	SPARE	10
11	LTG - KITCHEN	L	0.236	20/1	C	20/1	-	S	SPARE	12
13	SPARE	S	-	20/1	A	20/1	-	S	SPARE	14
15	SPARE	S	-	20/1	B	20/1	-	S	SPARE	16
17	SPARE	S	-	20/1	C	20/1	-	S	SPARE	18
19	SPARE	S	-	20/1	A	20/1	-	S	SPARE	20
21	SPACE	S	-	-	B	-	-	S	SPACE	22
23	SPACE	S	-	-	C	-	-	S	SPACE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30

PHASE LOAD — PHASE A= 1.39 KVA — PHASE B= 2.59 KVA — PHASE C= 2.00 KVA

LOAD TYPE	L	R	M	H	WH		D	A	K	LM	TOTAL LOADS	
CONN. LOAD	5.98										5.98 KVA	16.60 AMP
CALC. LOAD	7.47										7.47 KVA	20.75 AMP

NOTES:

PANEL K1

LOCATION: KITCHEN 106
SERVING: 3PHASE KITCHEN LOADS
FED FROM: MSB

208/120 VOLT, 3 PHASE, 4 WIRE — 100 AMP MAIN BREAKER — SCCR: 10,000 A — AFC: 6,415 A — MOUNTING: SURFACE

CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	APPL - DISHWASHER	A	1.500	20/1	A	20/1	1.500	A	MICROWAVE - APPL	2
3	APPL - ICE MAKER	A	1.500	20/1	B	20/1	1.500	A	COFFEE MACHINE - APPL	4
5	REC - GENERAL PURPOSE	R	1.080	20/1	C	20/1	1.500	A	FREEZER - APPL	6
7	M - KITCHEN HOOD UV	M	1.076	20/1	A	20/1	1.500	A	REFRIGERATOR - APPL	8
9	DED - GAS RANGE	D	0.150	20/1	B	20/1	0.520	D	GREASE REMOVAL SYSTEM GI-1 - DED	10
11	DED - GREASE REMOVAL SYSTEM GI-2	D	0.520	20/1	C	20/1	-	S	SPARE	12
13	SPARE	S	-	20/1	A	20/1	-	S	SPARE	14
15	SPARE	S	-	20/1	B	20/1	-	S	SPARE	16
17	SPARE	S	-	20/1	C	20/1	-	S	SPARE	18
19	SPARE	S	-	20/1	A	20/1	-	S	SPARE	20
21	SPARE	S	-	20/1	B	20/1	-	S	SPARE	22
23	SPARE	S	-	20/1	C	20/1	-	S	SPARE	24
25	SPACE	S	-	-	A	-	-	S	SPACE	26
27	SPACE	S	-	-	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30

PHASE LOAD — PHASE A= 5.58 KVA — PHASE B= 3.67 KVA — PHASE C= 3.10 KVA

LOAD TYPE	L	R	M	H	WH		D	A	K	LM	TOTAL LOADS	
CONN. LOAD		1.08	1.08				1.19	9.00		1.08	12.35 KVA	34.27 AMP
CALC. LOAD		1.08	1.08				1.19	9.00		0.27	12.62 KVA	35.02 AMP

NOTES:

Date Plotted: Mar 12, 2015 – 3:47pm Filename: 140309_E6.1.dwg By: BJN

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
YELM, WA

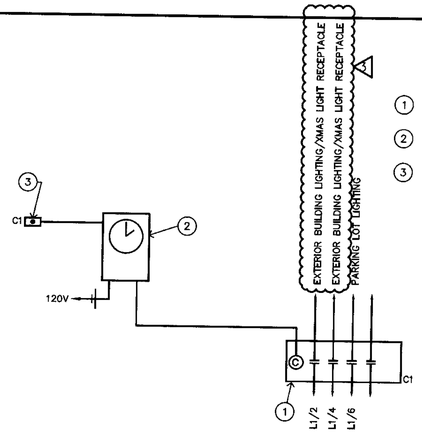
REVISIONS
02.17.2015
02.24.2015
03.12.2015

DATE
02.17.15
BCRA NO.
14013
CADD FILE

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET
E6.1

AS1 #1



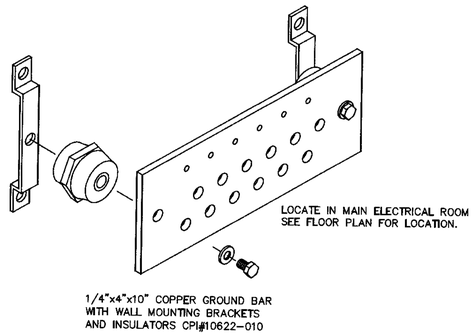
LIGHTING CONTROL CENTER DETAIL NOTES

1. PROVIDE MECHANICALLY HELD LIGHTING CONTACTORS SQ-D LXG SERIES, CLASS 8903, 20A, 4 POLES, 120V NEMA 1.
2. PROVIDE TORK #K600Z-120V, 4-CHANNEL, EACH WITH OVERRIDE AND ASTRONOMIC OPTION, SURFACE MOUNT, OR EQUAL.
3. PROVIDE REMOTE OVERRIDE SWITCHES, MOMENTARY CONTACT TYPE PUSH BUTTON, SQ-D 9001 OR EQUAL. PROVIDE CONNECTION TO TIME CLOCK TO PROVIDE REMOTE OVERRIDE CONTROL. SEE MECH/ELEC 107 ON PLANS FOR EXACT LOCATION.

1 E7.0 LIGHTING CONTROL CENTER/TIME CLOCK

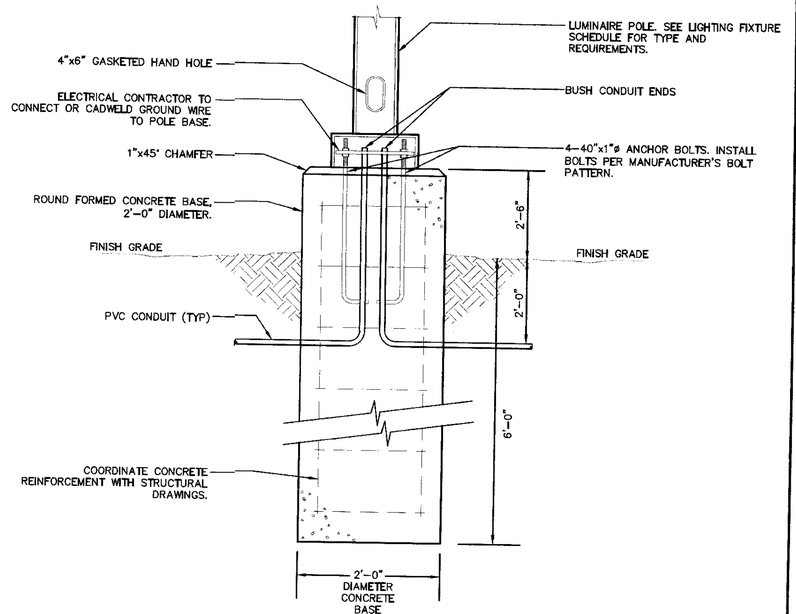
SCALE: NONE

PROVIDE LIGHTING PROGRAMMING PER OWNER'S TIME SCHEDULES.



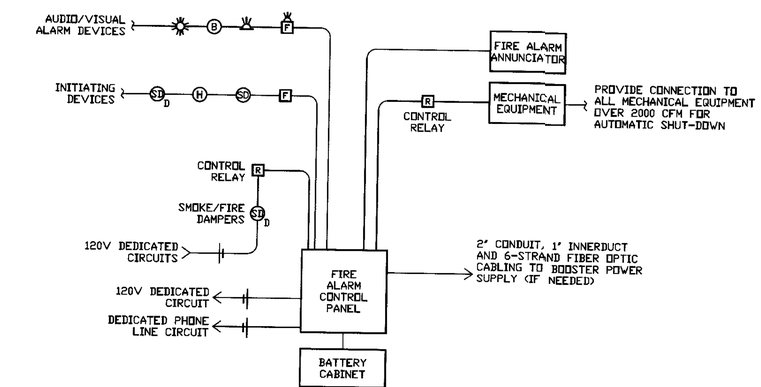
2 E7.0 GROUND BUS BAR ASSEMBLY

SCALE: NONE



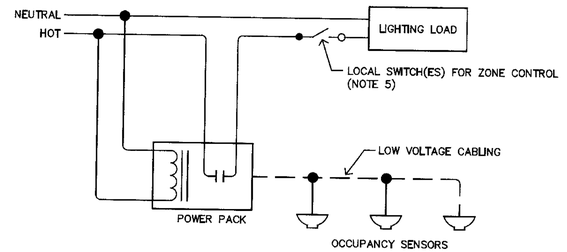
3 E7.0 FIXTURE 'PL1' POLE BASE DETAIL

SCALE: NONE



4 E7.0 FIRE ALARM SYSTEM ONE-LINE DIAGRAM

SCALE: NONE



NOTES:

1. DESIGN IS BASED ON HUBBELL BUILDING AUTOMATION STAND ALONE OCCUPANCY SENSORS. ALTERNATE MANUFACTURERS SHALL BE APPROVED PRIOR TO BID.
2. PROVIDE QUANTITY OF OCCUPANCY SENSORS AS SHOWN ON PLAN.
3. PROVIDE A MAXIMUM OF (3) OCCUPANCY SENSORS PER POWER PACK. PROVIDE ADDITIONAL AUXILIARY POWER PACKS AS REQUIRED.
4. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE WORKING SYSTEM.
5. PROVIDE QUANTITY OF SWITCHES AS SHOWN ON PLAN.
6. PROVIDE LOW VOLTAGE CABLE PER MANUFACTURER'S INSTRUCTIONS.

5 E7.0 STAND ALONE OCCUPANCY SENSOR DIAGRAM

SCALE: NONE

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PROJECT
YELM COMMUNITY CENTER
301 2nd STREET SE
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REVISIONS
02.17.2015
02.24.2015
03.12.2015

DATE
02.17.15

BCRA NO.
14013

CADD FILE

SHEET TITLE
ELECTRICAL DETAILS

SHEET
E7.0

AS1 #1