

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-000 58-00-HP		RANDOLPH	38	C-1
LOCAL ROAD PROJECT		ILLINOIS		
FEDERAL AID PROJECT				

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# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED CHESTER WELCOME CENTER SECTION 06-00058-00-HP JOB NO. C-98-306-07 CITY OF CHESTER, ILLINOIS RANDOLPH COUNTY PROJECT NO. TE-00D8(120)

RANGE 7 WEST 3rd. P.M.

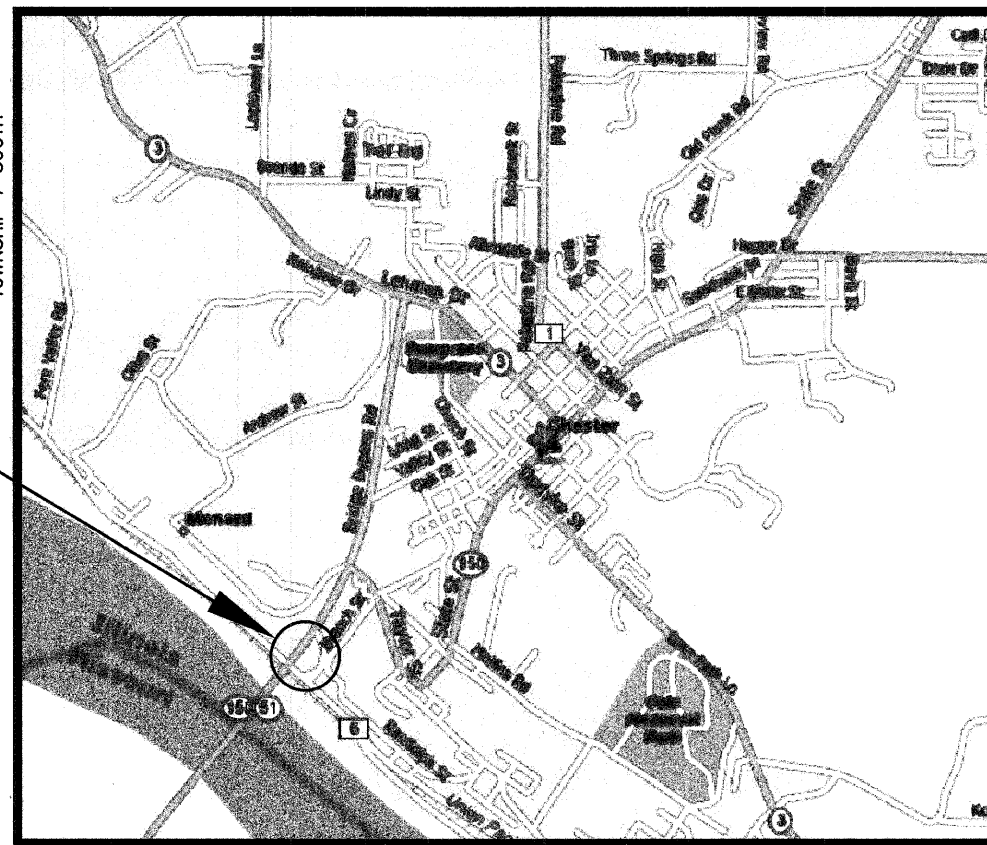
### IDOT STANDARDS

- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 442201-03 CLASS C&D PATCHES
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVDED
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAIL
- 720006-02 SIGN PANEL ERECTION DETAIL
- 728001-01 TELESCOPING STEEL SIGN SUPPORT

### UTILITIES

- WATER, SEWER & GAS** CITY OF CHESTER  
1330 SWANWICK STREET  
CHESTER, ILLINOIS 62233  
(618)826-2326
- ELECTRIC** AMEREN IP  
1050 WEST BOULEVARD  
BELLEVILLE, IL 62221  
(800)755-5000
- TELEPHONE** VERIZON  
1401 HIGH STREET  
CHESTER, ILLINOIS 62233  
(800)483-4000  
(618)826-4591
- CABLE T.V.** NEW WAVE  
823 EAST BROADWAY  
SPARTA, ILLINOIS 62286  
(888)863-9928

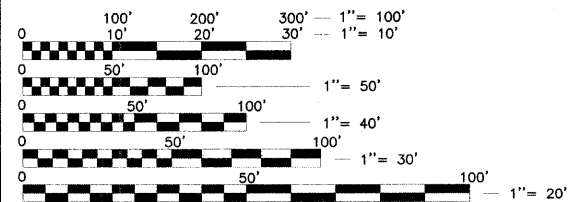
**CONSTRUCTION SITE**



**LOCATION MAP**  
NOT TO SCALE

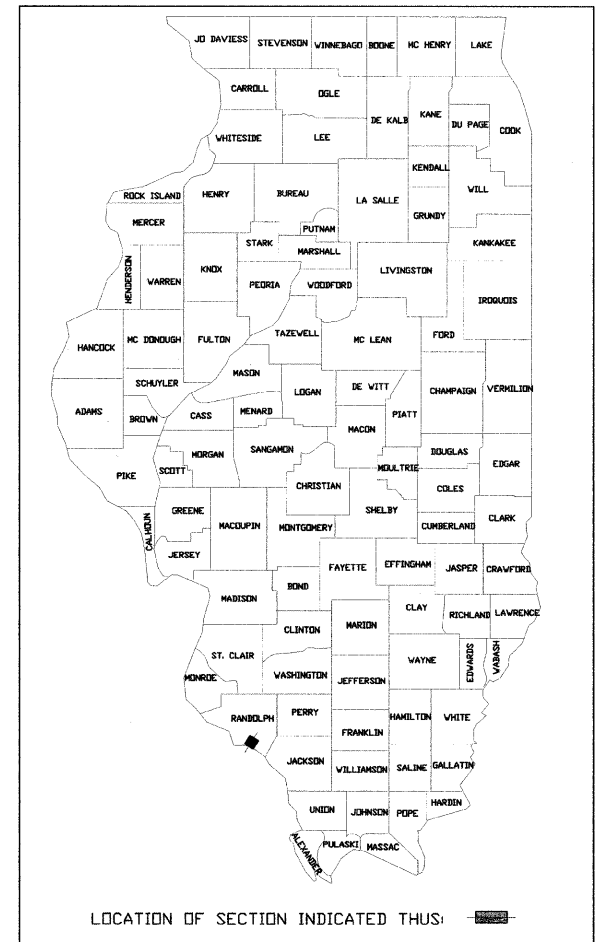
LENGTH OF PROJECT  
TOTAL SITE AREA ±3 ACRES

STREET DESIGN DESIGNATION:  
ROADWAY CLASSIFICATION - N/A  
DESIGN SPEED - N/A  
DESIGN TRAFFIC (2027) ADT - N/A



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	January 8 <sup>th</sup> 20 09 <i>Marty Beer</i> CITY OF CHESTER, MAYOR
PASSED	1/9 20 09 <i>[Signature]</i> DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	1/9 20 09 <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER



*Craig Brauer*  
CRAIG BRAUER, P.E.  
LICENSE NO. 047294  
DATE 1/8/09  
EXPIRES 11-30-09

**TWN** PREPARED BY:  
THOUVENOT, WADE & MOERCHEN, INC.

**THOUVENOT, WADE & MOERCHEN, INC.**  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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PROFESSIONAL ENGINEERING CORP.	02-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	01-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-00029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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**SUMMARY OF QUANTITIES AND DETAILS**

**CHESTER WELCOME CENTER  
CITY OF CHESTER  
RANDOLPH COUNTY, ILLINOIS**

CREATED ON:	JANUARY 04, 2008	
REV.	DATE	DESCRIPTION
▲	09/02/08	REVISIONS PER CITY OF CHESTER
▲	12/16/08	REVISIONS PER I.D.O.T.
▲	01/09/09	REVISIONS PER I.D.O.T.

DRAWN BY:	KAK	SHEET
DESIGNED BY:		<b>C-2</b>
CHECKED BY:		
APPROVED BY:		
PROJECT NUMBER:	D33050421	
<input type="checkbox"/> ISSUED FOR REVIEW		<input type="checkbox"/> RECORD DRAWING

**GENERAL NOTES**

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGE HIS OPERATIONS IN ORDER THAT THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE TYPE, SIZE, AND LOCATION OF UTILITIES AS DELINEATED IN THESE TOPOGRAPHIC LAND SURVEY DOCUMENTS AND/OR CIVIL ENGINEERING DESIGN DOCUMENTS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR RECORD DRAWINGS; FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS, THEREFORE THEIR EXACT LOCATION, SIZE AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN ON PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

EVERY TREE SHALL BE SAVED IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS, OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO INSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

ALL EARTH SURFACES DISTURBED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE SEEDED. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PAY ITEM "SEEDING, CLASS 1" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- 0.61 ACRES SEEDING CL 1
- 55 POUNDS NITROGEN FERTILIZER NUTRIENT
- 55 POUNDS PHOSPHORUS FERTILIZER NUTRIENT
- 55 POUNDS POTASSIUM FERTILIZER NUTRIENT

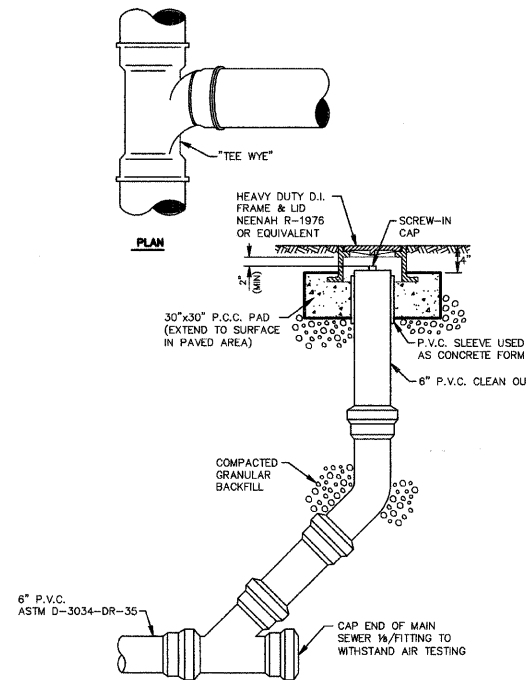
SEEDING DATES: FALL: AUG. 16 - DEC. 31  
SPRING: JAN. 1 - MAY 31  
NO SEEDING SHALL BE DONE BETWEEN JUNE 1 - AUG. 15.

IT IS INTENDED THAT ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

ALL TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO, WORK ZONE, TEMPORARY, AND PERMANENT, SHALL BE FURNISHED, INSTALLED, MAINTAINED, RELOCATED, AND/OR REMOVED IN ACCORDANCE WITH SECTION 701 OF THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL SIGNS SHALL BE 48" FLUORESCENT ORANGE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF CHESTER AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.



**CLEANOUT DETAIL**

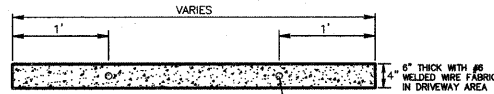
SPECIFICATIONS: SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034-DR-35 WITH ELASTOMERIC JOINTS IN CONFORMANCE WITH ASTM D-3212.

SUMMARY OF QUANTITIES			
PAY CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	95
20800150	TRENCH BACKFILL	CU YD	61
25000100	SEEDING, CLASS 1	ACRE	0.20
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18
25100105	MULCH, METHOD 1	ACRE	0.20
25101504	WOOD CHIP MULCH 4"	SQ YD	55
25200100	SODDING	SQ YD	40
28000400	PERIMETER EROSION BARRIER	FOOT	362
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	607
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	567
40300600	SEAL COAT AGGREGATE	TON	16
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	36
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	861
42400800	DETECTABLE WARNINGS	SQ FT	16
44000600	SIDEWALK REMOVAL	SQ FT	72
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	30
56200500	WATER SERVICE LINE 1 1/2"	FOOT	89
67100100	MOBILIZATION	LUMP SUM	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LUMP SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LUMP SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	2
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	12
X0321309	CONCRETE PAD	SQ YD	14
X0322672	SPLIT RAIL FENCE TO BE REMOVED AND RE-ERECTED	FOOT	100
XX000959	TRASH RECEPTACLES	EACH	3
XX005661	REMOVE AND RELOCATE SIGN NO. 1	EACH	1
XX005662	REMOVE AND RELOCATE SIGN NO. 2	EACH	1
XX005962	BENCH	EACH	2
XX007056	BUILDING	LUMP SUM	1
Z0056800	SANITARY SEWER, 6"	FOOT	262

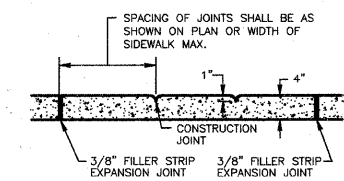
\* ASTERICK REPRESENTS SPECIALTY ITEMS.

EARTHWORK SCHEDULE				
LOCATION ENTIRE SITE	EARTH EXCAVATION (CU YD) 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)
	0	0	95	-95

**EARTHWORK NOTE:**  
THERE IS MINIMAL EARTH EXCAVATION WITH THE NEW SIDEWALK CONSTRUCTION AND THE FURNISHED EXCAVATION IS TO BE PLACED NEAR BRANCH STREET FOR COVER OVER THE PROPOSED SEWER LATERAL.

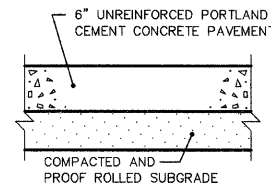


**SIDEWALK DETAIL**

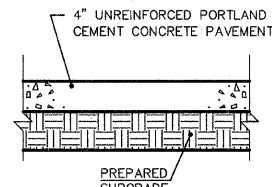


NOTE: MAXIMUM 25' SPACING BETWEEN EXPANSION JOINTS PROVIDE EXPANSION JOINT MATERIAL AND SEALANT WHERE SIDEWALK AND BUILDING INTERFACE.

**SIDEWALK JOINT DETAIL**



**HANDICAPPED PARKING PAVEMENT**



**CONCRETE PAD FOR RELOCATED PICNIC TABLE**

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PROFESSIONAL REGISTRATIONS	LICENSE NO.
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ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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EXISTING TOPOGRAPHY  
AND OVERALL SITE PLAN

CHESTER WELCOME CENTER  
CITY OF CHESTER  
RANDOLPH COUNTY, ILLINOIS

TITLE:

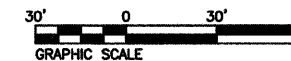
PROJECT:

CREATED ON: JANUARY 03, 2007

REV	DATE	DESCRIPTION
1	09/02/08	REVISIONS PER CITY OF CHESTER
2	12/16/08	REVISIONS PER I.D.O.T.

DRAWN BY: KAK	SHEET
DESIGNED BY:	<b>C-3</b>
CHECKED BY:	
APPROVED BY:	
PROJECT NUMBER: D33050421	

ISSUED FOR REVIEW  RECORD DRAWING



GRAPHIC SCALE

30' 0 30' 60'

EXISTING ROUTE 150

EXISTING ROUTE 150

EXISTING ROUTE 150

EXISTING ROUTE 150

EXISTING ROUTE 150

EXISTING ROUTE 150

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IT IS NOT WARRANTED THAT THIS PLAN CONTAINS COMPLETE INFORMATION REGARDING DEDICATIONS, EASEMENT RESERVATIONS, RIGHTS OF WAY, BUILDING LINES, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED.

● SITE BENCHMARK ELEV: 445.04  
BRASS MARKER ON THE NORTH BRIDGE ABUTMENT, 5.87' FEET NORTH OF THE NORTH EDGE OF PAVEMENT AND 48.06' NORTH OF THE NORTHWEST CORNER OF A WHITE BLOCK SHED.

G:\SDSK\PROJ\050421\dwg\PLANS\050421-SITE-02.dwg 12/22/2008 11:50:25 AM CST

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Signature: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
Professional Engineer  
Professional Engineer

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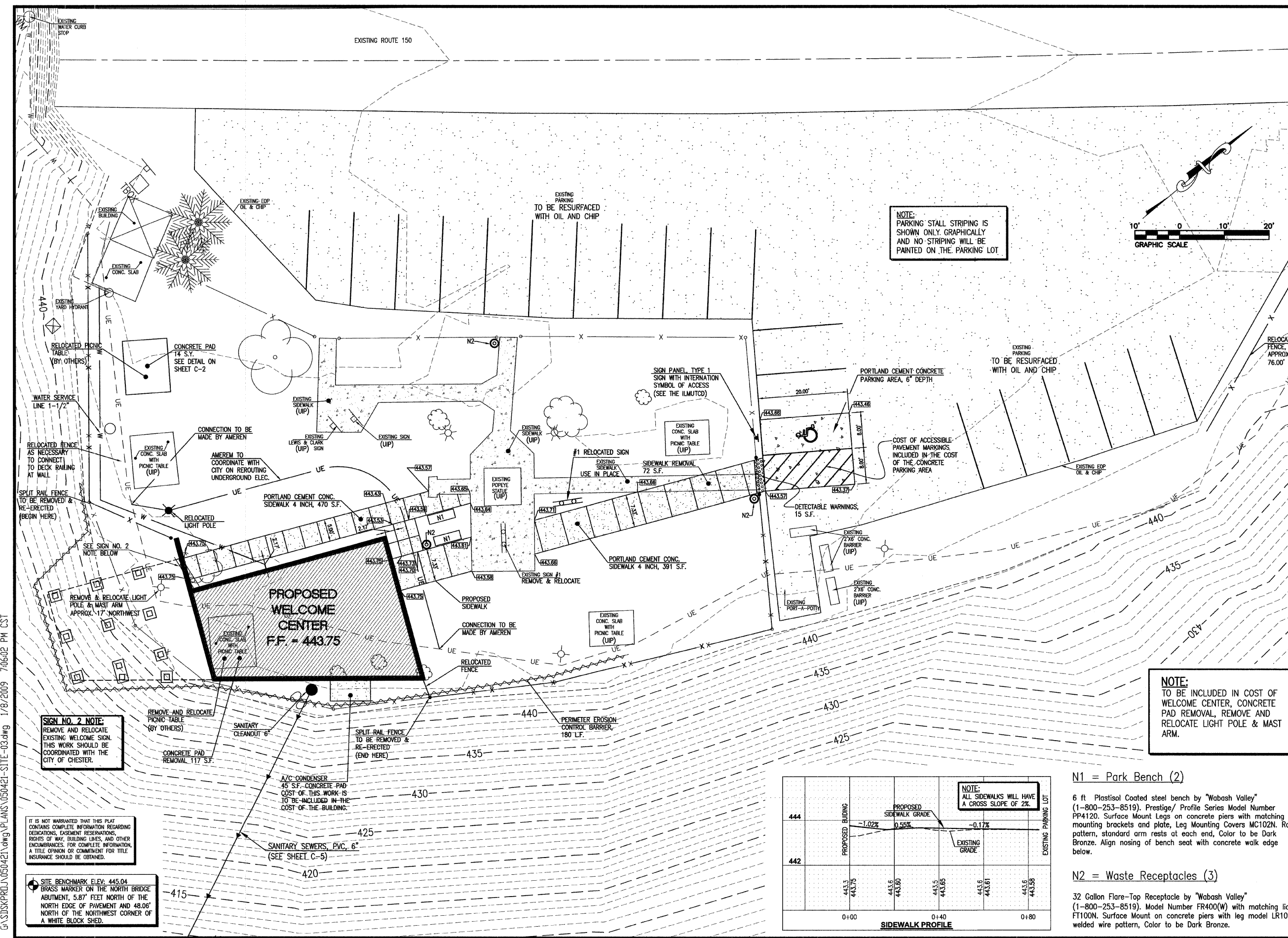
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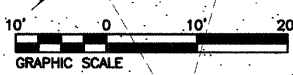
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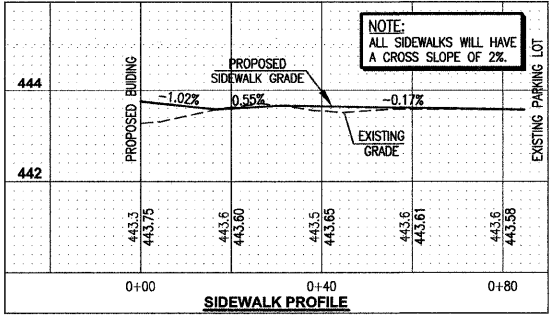
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**NOTE:**  
PARKING STALL STRIPING IS SHOWN ONLY GRAPHICALLY AND NO STRIPING WILL BE PAINTED ON THE PARKING LOT.



**NOTE:**  
TO BE INCLUDED IN COST OF WELCOME CENTER, CONCRETE PAD REMOVAL, REMOVE AND RELOCATE LIGHT POLE & MAST ARM.



**N1 = Park Bench (2)**  
6 ft. Plastisol Coated steel bench by "Wabash Valley" (1-800-253-8519), Prestige/ Profile Series Model Number PP4120. Surface Mount Legs on concrete piers with matching mounting brackets and plate, Leg Mounting Covers MC102N. Rod pattern, standard arm rests at each end, Color to be Dark Bronze. Align nosing of bench seat with concrete walk edge below.

**N2 = Waste Receptacles (3)**  
32 Gallon Flare-Top Receptacle by "Wabash Valley" (1-800-253-8519), Model Number FR400(W) with matching lid FT100N. Surface Mount on concrete piers with leg model LR105, welded wire pattern, Color to be Dark Bronze.

**SIGN NO. 2 NOTE:**  
REMOVE AND RELOCATE EXISTING WELCOME SIGN. THIS WORK SHOULD BE COORDINATED WITH THE CITY OF CHESTER.

IT IS NOT WARRANTED THAT THIS PLAN CONTAINS COMPLETE INFORMATION REGARDING EASEMENTS, EASEMENT RESERVATIONS, RIGHTS OF WAY, BUILDING LINES, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED.

**SITE BENCHMARK ELEV: 445.04**  
BRASS MARKER ON THE NORTH BRIDGE ABUTMENT, 5.87' FEET NORTH OF THE NORTH EDGE OF PAVEMENT AND 48.06' NORTH OF THE NORTHWEST CORNER OF A WHITE BLOCK SHED.

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**SITE AND GRADING PLAN**  
**CHESTER WELCOME CENTER**  
**CITY OF CHESTER**  
**RANDOLPH COUNTY, ILLINOIS**

REV	DATE	DESCRIPTION
01	03/08	REVISIONS PER CITY OF CHESTER
02	12/16/08	REVISIONS PER I.D.O.T.
03	01/09/09	REVISIONS PER I.D.O.T.

DRAWN BY: KAK  
DESIGNED BY:  
CHECKED BY:  
APPROVED BY:  
PROJECT NUMBER: D33050421  
SHEET: C-4  
OF SHEETS: \_\_\_\_\_  
 ISSUED FOR REVIEW  RECORD DRAWING

**THOUVENOT, WADE & MOERCHEN, INC.**  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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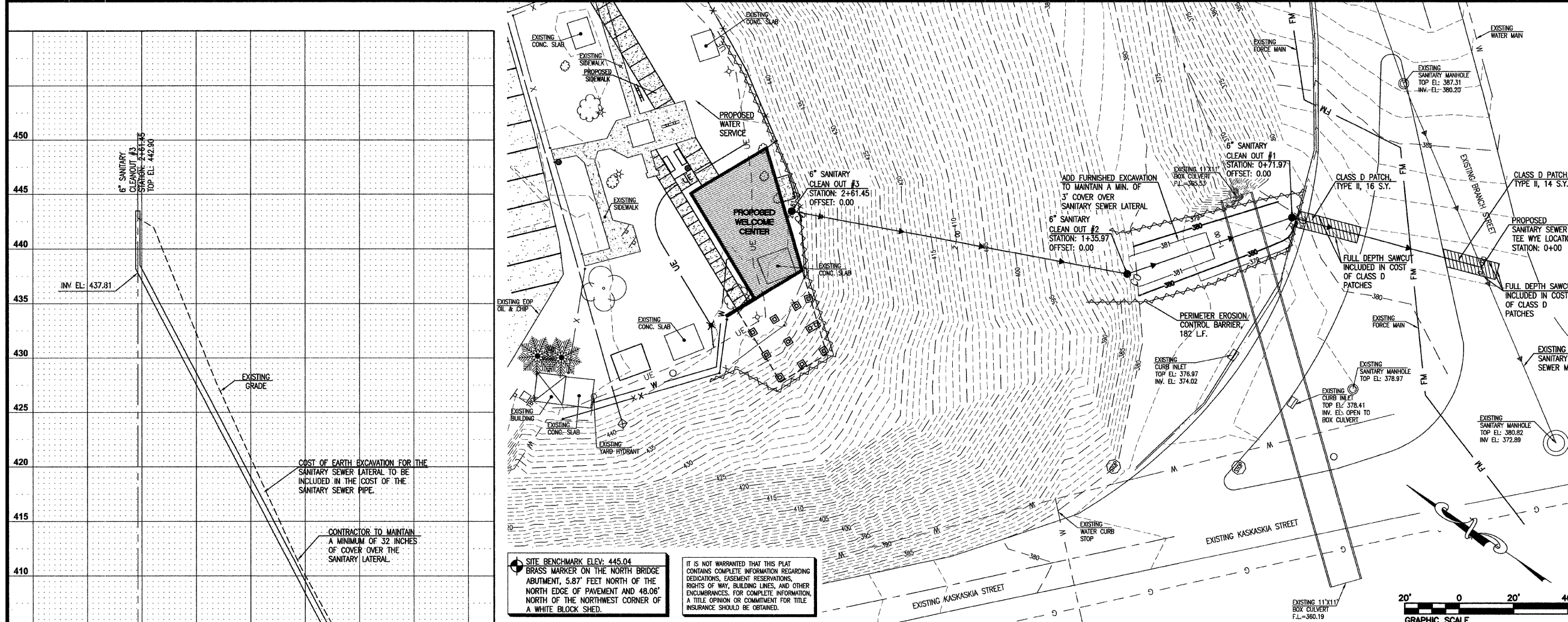
**ST. LOUIS OFFICE**  
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-011220
PROFESSIONAL ENGINEERING CORP.	02-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	01-000202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

SEAL

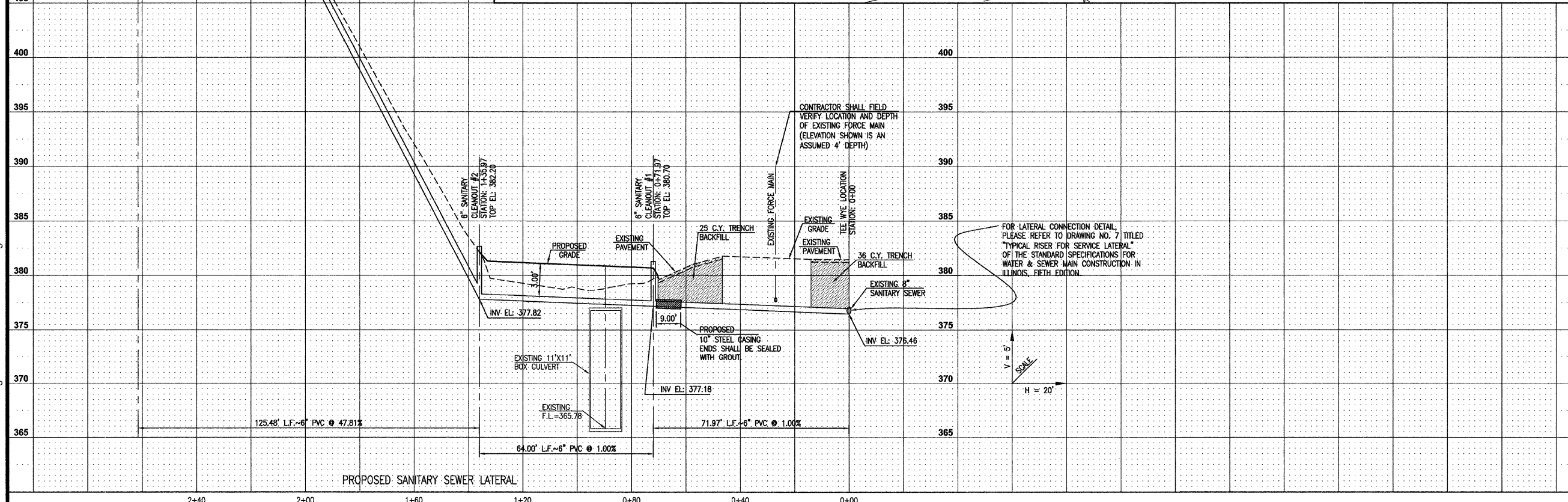
Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

**STATEMENT OF RESPONSIBILITY**  
I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.



**SITE BENCHMARK ELEV: 445.04**  
BRASS MARKER ON THE NORTH BRIDGE ABUTMENT, 5.87' FEET NORTH OF THE NORTH EDGE OF PAVEMENT AND 48.06' NORTH OF THE NORTHWEST CORNER OF A WHITE BLOCK SHED.

IT IS NOT WARRANTED THAT THIS PLAT CONTAINS COMPLETE INFORMATION REGARDING DEDICATIONS, EASEMENT RESERVATIONS, RIGHTS OF WAY, BUILDING LINES, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED.



**SANITARY SEWER LATERAL PLAN AND PROFILE**

**CHESTER WELCOME CENTER**  
CITY OF CHESTER  
RANDOLPH COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION
01	01/08/08	REVISIONS PER I.D.O.T.
02	09/02/08	REVISIONS PER CITY OF CHESTER
03	12/16/08	REVISIONS PER I.D.O.T.

CREATED ON: JANUARY 04, 2008	<b>C-5</b>
DRAWN BY: KAK	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
PROJECT NUMBER: D33050421	OF SHEETS

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# Chester Welcome Center

## Elzie C. Segar Memorial Park

### Chester, Illinois 62233

1. NO GENERAL NOTES ON THIS SHEET.

### LIST OF ABBREVIATIONS

AC	acoustical	EXH	exhaust	OA	outside air
ACR	acrylic	EXP	expansion	OC	on center(s)
ACT	acoustical tile	EXT	exterior	OD	outside diameter; outside dimension
AD	area drain	FB	fabricated	OEM	original equipment manufacturer
ADD	addendum	FC	face brick	OH	overhead
ADH	adhesive	FD	foot candles	OPNG	opening
ADJ	adjustable	FE	floor drain	OPP	opposite
AFF	above finished floor	FE	fire extinguisher	PBG	plumbing
AGA	american gas association	FEC	fire extinguisher cabinet	PC	piece
AHJ	authority having jurisdiction	FF	finish floor	PCF	pounds per cubic foot
AHU	air-handling unit	FIN	finish	PH	phase
AIA	american institute of architects	FL	floor	PL	plate; property line
AISI	american iron & steel institute	FLX	flexible	PLAM	plastic laminate
ALUM	aluminum	FND	foundation	PLB	plumbing
ALLOW	allowance	FPM	feet per minute	PNT	paint(ed)
ALT	alternate	FT	foot; feet	PR	pair
ALUM	aluminum	FTG	footing	PREFAB	prefabricated
ANSI	american national standards institute	FTC	foot	PROJ	project; projected
ANOD	anodized	FTC	foot	PSF	pounds per square foot
APPROX	approximate	FUR	furred; furring	PSI	pounds per square inch
APP	approved	FXT	fixture	PT	point; point
ARCH	architect(ural)	G	gas	PVMT	pavement
ASHRAE	american society of heating, refrigerating and air-conditioning engineers, inc.	GA	95% gauge	PWR	power
ASPH	asphalt	GB	gypsum board	QTY	quantity
ASTM	american standard for testing & materials	GALV	galvanized	R	radius; riser
ATT	attachment	GC	general contract(or)	RD	roof drain
AUTH	authorized	GEN	general	RECT	rectangle
AVG	average	GFMU	ground face masonry unit	REF	refer(ence)
A/C	air conditioning	GL	gallons per minute	REG	refrigerator
AOR	area of refuge	GPM	gallons per minute	REG	regular
		GYF	gypsum board	REIN	reinforced
BACnet	data communication protocol for building automation and control networks	H	height	REQ	required
BAS	building automation system	HEPA	high-efficiency particulate air	REQ'D	required
BD	board	HORIZ	horizontal	REV	revise; revision
BITUM	bituminous	HC	handicap	RFC	roofing
BLDG	building	HDR	header	RFP	request for proposal
BLKG	blocking	HDM	hardwre	RH	relative humidity
BM	beam	HDW	hardware	RM	room
BPL	bearing plate	HR	handrail; hour	RND	round
BRG	bearing	HT	height	RO	rough opening
BRK	brick	HTG	heating	SCH	schedule
BRZ	bronze	HTR	heater	SD	storm drain; smoke detector
BSMT	basement	HVAC	heating/ventilating/air conditioning	SD	section
BTM	bottom	HW	hot water	SECT	section
BTU	british thermal unit	H.P.	high point	SF	square foot
BTUH	BTU per hour	HWR	hot water return	SH	single hung
B/	bottom of	HWS	hot water supply	SHT	sheet
				SIM	similar
C	channel	IAQ	indoor air quality	SPEC	specification(s)
CALC	calculated	IBC	international building code	SQ	square
CAP	capacity	ICC	impact insulation class	SST	stainless steel
CB	catch basin	ID	inside diameter	STC	sound transmission coefficient
CDX	plywood, grade C&D, exterior glue	ID	inside diameter	STD	standard
CF	cubic feet	IN	inch	STL	steel
CFM	cubic feet per minute	INCL	included; including	STOR	storage
CL	clear(ance)	INS	insulate (ed,ing),(on)	STRUCT	structural
CLG	ceiling	INSF	insulating fill	SUBJ	subject
CLR	clear(ance)	INT	interior	SURF	surface
CMU	concrete masonry unit(s)	INT'	inch	SUSP	suspended
COL	column	IPC	international plumbing code	SW	switch
CONC	concrete	IRC	international residential code	SYS	system
CONST	construction	JRC	joiner's closet	T & G	tongue and groove
CONT	continuous; continued	JT	joint	T/C	top of curb
CONTR	contract(or)	KIT	kitchen	TAB	testing and balancing
COORD	coordinate	KSI	kips per square inch	TEL	telephone
CORR	corroded	KW	kilowatt (s)	TH	thick(ness)
CPG	coping	L	long; length; longitudinal; angle	TRANSF	transformer
CT	ceramic tile	LB/LF	pounds per linear foot	TYP	typical
C/TOP	countertop	LAM	laminated	UL	underwriters laboratory
CTR	counter; center	LAV	lavatory	UNO	unless noted otherwise
CU	cubic	LD	load	UV	ultraviolet
CW	cold water; concrete walk	LEED	leadership in energy & environmental design	V	volt; vertical
C/	center of	LF	linear foot	VAR	varnish
		LG	long; length; large	VAV	variable air volume
d	penny (nail size)	LL	live load	VERT	vertical
DBL	decibel	LT	light	VEST	vestibule
DC	direct current	LV	low voltage	VF	vinyl fabric
DEPT	department	LVR	lower	VG	vertical grain
DET	detail	L.P.	low point	VIF	verify in field
DF	drinking fountain	MAINT	maintenance	VIN	vinyl
DH	double hung	MAS	masonry	VOL	volume
DIA	diameter	MATL	material	VSG	vinyl sheet good
DIM	diagonal	MAX	maximum	W	west; width
DIV	dimension	MD	metal deck	WAN	wide air network
DL	division; divider	MDF	medium density fiberboard	WC	water closet; water column
DN	down	MECH	mechanical	WD	wood
DO	door opening, ditto	MED	medium	WH	water heater
DOE	u.s. department of energy	MEP	mechanical, electrical, plumbing	WIN	window
DP	depth	MEZZ	mezzanine	WP	waterproof(ing)
DR	door	MFD	manufactured	WOC	water, oil, gas (cold working pressure)
DS	double strength, downspout	MFR	manufacturer	WR	water resistant
DTL	detail	MIN	minimum	WT	weight
DWG	drawing	MISC	miscellaneous	WWF	welded wire fabric
		MO	masonry opening	W	with
EA	each	MTL	metal	W/O	without
EL	elevation	MRE	marble	YD	yard
ELEC	electric(al)	MULT	multi; multiply	YR	year
ELEV	elevator / elevation	NA	not available; not applicable	EQV	equivalent
ENCL	enclose; enclosure	NIC	not in contract	#	pound; number
ENL	enlarged	NFPA	not in national fire protection association	%	percent
EPA	u.s. environmental protection agency	NOM	nominal	~	approximately
EPDM	ethylene propylene diene monomer	NO.	number		
EQ	equal	NTS	not to scale		
EQUIV	equivalent	NRC	noise reduction coefficient		
EST	estimated				
EWC	electric water cooler				
EXTG	existing				

### CODE DATA

CODES RELEVANT TO THIS PROJECT INCLUDE BOTH CODES LEGALLY ADOPTED BY GOVERNMENTAL AGENCIES AND CODES ADOPTED BY THE CLIENT AS A MINIMUM STANDARD OF DESIGN AND INSTALLATION. ONE CODE OR STANDARD MAY REFER TO ANOTHER, THEN BOTH CODES SHALL BE CONSIDERED A REQUIREMENT OF THIS PROJECT, CODES RELEVANT TO THIS PROJECT INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

CHESTER ZONING ORDINANCE  
2006 INTERNATIONAL BUILDING CODE  
INTERNATIONAL MECHANICAL CODE  
ILLINOIS PLUMBING CODE  
NATIONAL ELECTRIC CODE-NFPA 70  
NATIONAL FUEL GAS CODE-NFPA 54  
INTERNATIONAL ENERGY CONSERVATION CODE (ICC/ANSI A90.1)  
AMERICANS WITH DISABILITIES ACT  
ILLINOIS ACCESSIBILITY CODE

**BUILDING CODE DATA**  
PROPOSED BUILDING AREA 1236 S.F. (PER IBC 502)  
PROPOSED DECK AREA 132 S.F. (PER IBC 502)

**BUILDING CODE OCCUPANCY:** A3-ASSEMBLY  
**BUILDING CODE CONSTRUCTION TYPE:** 5B, UNPROTECTED - COMBUSTIBLE  
**BUILDING AREA, PER FLOOR, ALLOWED BY IBC:** 9000 S.F. BASE

**BUILDING OCCUPANT LOAD:**  
DISPLAY AREA = (1 PERSON PER 15 S.F.) = 41  
CHAMBER OFFICE = 2  
TOTAL BUILDING OCCUPANT LOAD: 43

**DECK OCCUPANT LOAD:**  
(1 PERSON PER 15 S.F.) = 49

### ACCESSIBILITY NOTES

- THIS PROJECT MUST COMPLY FULLY WITH ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE 400.310 - PUBLIC FACILITIES, NEW CONSTRUCTION. PUBLIC FACILITIES WITHIN THE PROJECT WILL BE ACCESSIBLE PER ADA REQUIREMENTS.
  - THIS PROJECT WILL COMPLY FULLY WITH ADA/ADAAG REQUIREMENTS OF SECTION 4.1.6
  - ALL NEW, ALTERED, REPAIRED, OR REPLACED DOORS LEADING INTO REQUIRED ACCESSIBLE ROOMS AND SPACES TO BE 3" WIDE MINIMUM, HAVE LEVER-OPERATED HARDWARE OR EQUAL AND COMPLY FULLY WITH IAC SECTION 400.310(J) AND ADA/ADAAG SECTION 4.13
  - ALL NEW, ALTERED, REPAIRED, OR REPLACED DOORS LEADING INTO HAZARDOUS ROOMS TO HAVE KURLED LEVERS.
  - ALL CONTROLS AND OPERATING MECHANISMS TO BE WITHIN REACH RANGE PER IAC 400.310(K) AND ADAAG
  - ALL PROVIDED EMERGENCY WARNING (ALARM) SYSTEMS TO BE AUDIBLE AND VISUAL AND COMPLY FULLY WITH IAC AND ADAAG. STROBE LIGHTS AND HORNS ARE NOT REQUIRED.
- PUSH/PULL SHALL NOT EXCEED 5 1/2 LBS ON EXTERIOR DOORS AND 5 LBS ON INTERIOR DOORS.
  - THERE ARE NO PUBLIC TELEPHONES IN THIS FACILITY
  - TOILET ROOMS WILL COMPLY WITH IAC 400.310 SECTIONS n THROUGH o AND ICC/ANSI A11.1 CHAPTER 6
  - ACCESSIBLE TOILETS WILL HAVE OPEN-FRONT SEATS 11" - 19" ABOVE FINISHED FLOOR. EXPOSED PIPES BENEATH LAVATORIES WILL BE INSULATED WITH "HANDI-LAY" INSULATION. FAUCETS WILL BE LEVER TYPE OPERATION.
  - AT LEAST 5% (NOT LESS THAN 1) OF ALL TABLES WILL BE FULLY ACCESSIBLE AND COMPLY WITH IAC 400.310.
  - NEW OR ALTERED SEATING, TABLES, AND WORK SURFACES WILL COMPLY WITH IAC 400.310(w)
- TOILET ROOM AND PARKING SPACE SIGNAGE WILL BE PROVIDED PER IAC SECTION 400.310 AND ADAAG 4.13

### FIRE ALARM & DETECTION

- A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED IN THIS PROJECT. (GROUP A OCCUPANCY WITH A TOTAL OCCUPANT LOAD OF LESS THAN 300)
- IF ANY SMOKE ALARMS ARE INSTALLED, UNITS MUST HAVE STROBE NOTIFICATION, HAVE PRIMARY AC POWER, BE INTERCONNECTED, AND BE LOCATED IN EACH ROOM WHERE EMPLOYEES OR MEMBERS OF THE PUBLIC MAY BE.
- IF A CENTRAL ALARM SYSTEM IS PROVIDED, IT MUST MEET THE NATIONAL FIRE ALARM CODE, NFPA 72.

### FIRE SPRINKLERS

THIS BUILDING DOES NOT REQUIRE AN AUTOMATIC SPRINKLER SYSTEM PER IBC 903. (A-3 ASSEMBLY OCCUPANCY IN A ONE STORY BUILDING WITH LESS THAN 12,000 SF OF FIRE AREA AND HAS AN OCCUPANT LOAD OF LESS THAN 300 PEOPLE.)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (WITHOUT SPRINKLERS): 200 FT. (TABLE 1016.1)

### SIGNAGE

- OWNER OR THEIR SIGN PROVIDER MUST FILE SEPARATE SIGN PERMIT APPLICATION FOR SIGNS. ANY SIGNS INDICATED ON THESE DRAWINGS ARE PRELIMINARY ONLY. DO NOT BEGIN FABRICATION OF ANY SIGNS, SUPPORTS, ETC., UNTIL SIGN PERMITS HAVE BEEN ISSUED.
- ISSUANCE OF A BUILDING PERMIT DOES NOT IMPLY ANY APPROVAL OF SIGNS INDICATED HEREIN.
- SIGNS ARE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE ELECTRICAL NEEDS SUCH AS POWER AND DATA LINES OR LIGHTING WITH OWNER AND GENERAL CONTRACTOR.
- SUPPORTS INCLUDING COLUMNS, WALLS, AND FOUNDATIONS FOR FREESTANDING SIGNS MUST MEET APPLICABLE BUILDING CODE REQUIREMENTS INCLUDING SEISMIC PERFORMANCE. SIGN CONTRACTOR IS RESPONSIBLE FOR THOSE DRAWINGS AND OR CALCULATIONS.

### SCOPE DOCUMENTS

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the type of structural, mechanical, electrical, and utility systems, and an outline of major architectural elements of construction. As "scope" documents, these drawings do not necessarily indicate or describe all work required for the full performance and completion of the work. Contracts will be let on the basis of such documents with the understanding that the Contractor, Subcontractors, and Material Suppliers are to furnish all items required for proper completion of the work without adjustment to the contract or subcontract price. It is intended that the work be of sound and quality construction and the Contractor, Subcontractors, and Material Suppliers will be solely responsible for the inclusion of adequate amounts to cover installation of all items indicated, described, or implied.

### SYMBOL LIST

	EARTH, COMPACTED FILL		CONCRETE		STEEL or STAINLESS STEEL		BATT INSULATION		TILE
	UNDISTURBED SOIL		BRICK		GYPSUM BOARD		RIGID INSULATION		CARPET
	GRAVEL		CONCRETE MASONRY UNIT		WOOD FRAMING		BLOWN-IN INSULATION		PLYWOOD
	LIMESTONE		ALUMINUM		FINISH WOOD		HIGH DENSITY FIBERBOARD		
	detail number sheet number		detail number sheet number		detail number sheet number		detail number sheet number		detail number sheet number
	door number		window type		room name room number		see note 5, same sheet		

### THE DRAWINGS IN THIS SET BEARING MY STAMP WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION...

THE DRAWINGS IN THIS SET BEARING MY STAMP WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION. TO THE BEST OF MY KNOWLEDGE, THE DESIGN ILLUSTRATED HEREIN COMPLIES WITH APPLICABLE CODES AND REGULATIONS.

MICHAEL J. SCHNEIDER  
001-013566  
ILLINOIS LICENSED ARCHITECT  
#001-013566 EXPIRES 11.30.10

### INDEX OF DRAWINGS

- A0.1 ARCHITECTURAL LEGEND SHEET
- A1.1 ARCHITECTURAL SITE PLAN & NOTES
- A2.2 ARCHITECTURAL FIRST FLOOR PLAN & PARTITION TYPES
- A2.3 ROOF PLAN & NOTES
- A3.1 REFLECTED CEILING PLAN
- A4.1 BUILDING ELEVATIONS & SECTION
- A4.2 BUILDING ELEVATIONS
- A5.1 EXTERIOR WALL SECTIONS & DETAILS
- A6.1 DOOR & WINDOW TYPES SCHEDULES & DETAILS
- A7.1 INTERIOR ELEVATIONS
- M1.1 MECHANICAL PLAN & NOTES
- E1.1 POWER & COMMUNICATIONS PLAN & NOTES
- E2.1 LIGHTING PLAN & NOTES
- P1.1 PLUMBING PLAN & NOTES
- S1 STRUCTURAL NOTES AND SPECIFICATIONS
- S2 FOUNDATION PLAN
- S3 ROOF FRAMING PLAN AND SHEAR WALL PLAN
- S4 WALL DETAILS
- S5 FRAMING DETAILS
- S6 SHEAR WALL DETAILS
- S7 SHEAR WALL SCHEDULE
- S8 DECK FRAMING PLAN
- S9 DECK FRAMING PLAN DETAILS

### ARCHITECTURAL LEGEND SHEET

**CHESTER WELCOME CENTER**

Chester, Illinois



135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

job number 20525  
drawn by JE  
checked by MB  
file name Welcome Center Cover  
scale Noted

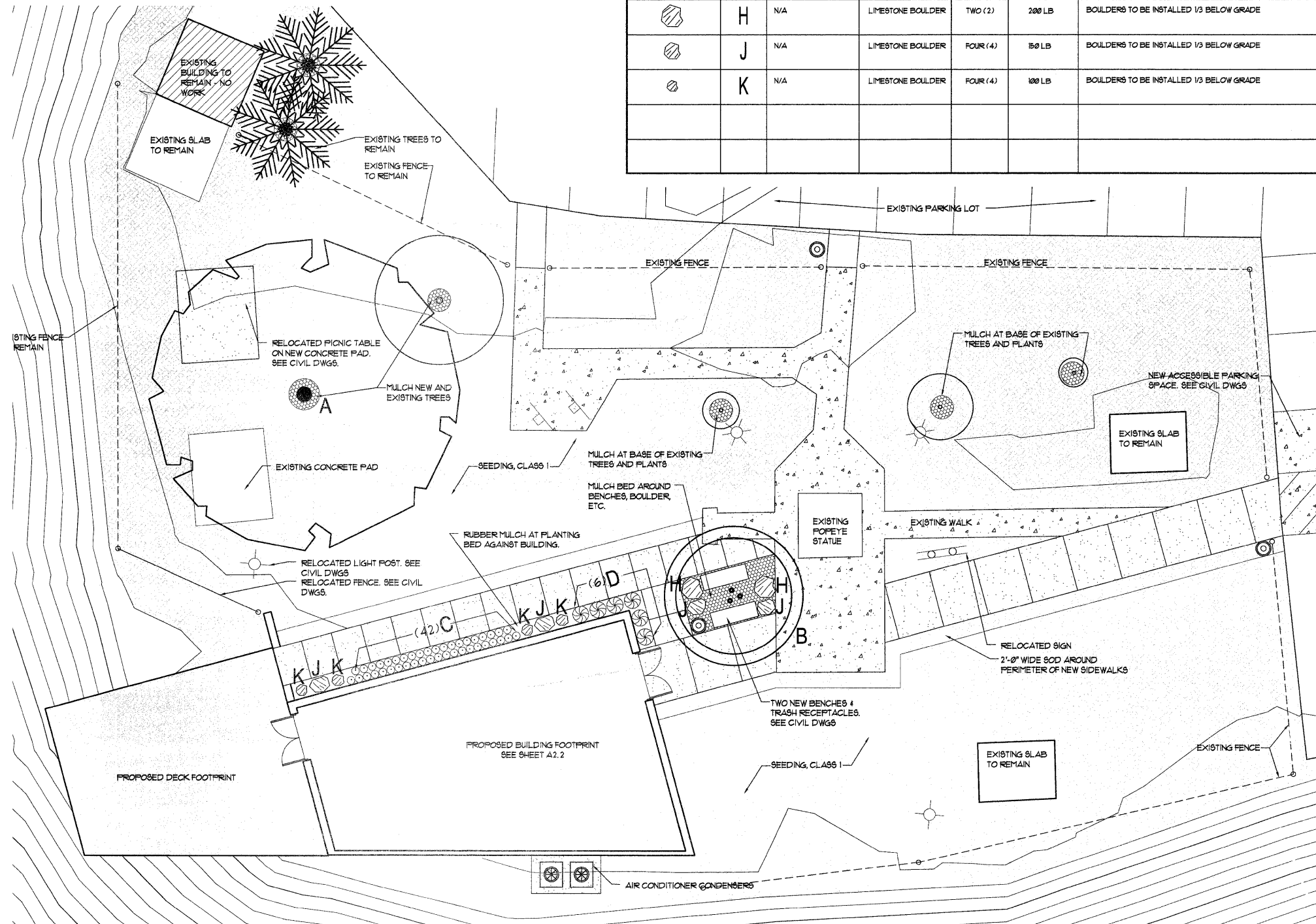
sheet **A0.1**

LANDSCAPE SCHEDULE

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
	A	ACER SACCHARUM NIGRUM	BLACK MAPLE	ONE (1)	3"-4" CALLIPER	
	B	BETULA NIGRA DURA-HEAT OR HERITAGE	CLUMP RIVER BIRCH	ONE (1)	2" CALLIPER	
	C	LIRIOPE SPICATA	CREEPING LILYTURF	FORTY TWO (42)	1 GAL. CONTAINER	
	D	PENNISETUM ALOPECUROIDES HAMELYN	DWARF FOUNTAIN GRASS	SIX (6)	3 GAL. CONTAINER	
	E	GRASS SEED MIX: 5% KENTUCKY BLUEGRASS 95% EQUAL PARTS OF FESCUE TURF BLEND (USE THREE FESCUES)		200 LBS PER ACRE	--	SEED ALL AREAS NOT INDICATED TO BE SOG, PAVED, OR PLANTING BEDS
	F	SOD GRASS MIX: 5% KENTUCKY BLUEGRASS 95% EQUAL PARTS OF FESCUE TURF BLEND (USE THREE FESCUES)		SEE PLAN	--	
	G	N/A	SHREDDED HARDWOOD BARK MULCH	26" BED DEPTH		3'-0" CIRCUMFERENCE AT NEW AND EXISTING PLANT & TREE BASES, AND IN INDICATED PLANTING BEDS
	H	N/A	LIMESTONE BOULDER	TWO (2)	200 LB	BOULDERS TO BE INSTALLED 1/3 BELOW GRADE
	J	N/A	LIMESTONE BOULDER	FOUR (4)	150 LB	BOULDERS TO BE INSTALLED 1/3 BELOW GRADE
	K	N/A	LIMESTONE BOULDER	FOUR (4)	100 LB	BOULDERS TO BE INSTALLED 1/3 BELOW GRADE

Contract # 97367  
GENERAL NOTES

1. SEE SPECIFICATIONS FOR GRASS LAWN 029320 AND LANDSCAPE PLANTING 029350 SPECIFICATIONS.



01.09.09 IDOT Submittal  
Issued description

ARCHITECTURAL SITE PLAN & NOTES

CHESTER WELCOME CENTER

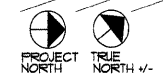
Chester, Illinois

**QUADRANT** design  
architects & planners

135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

job number 20525  
drawn by JE  
checked by MS  
file name Welcome Center Site  
scale noted

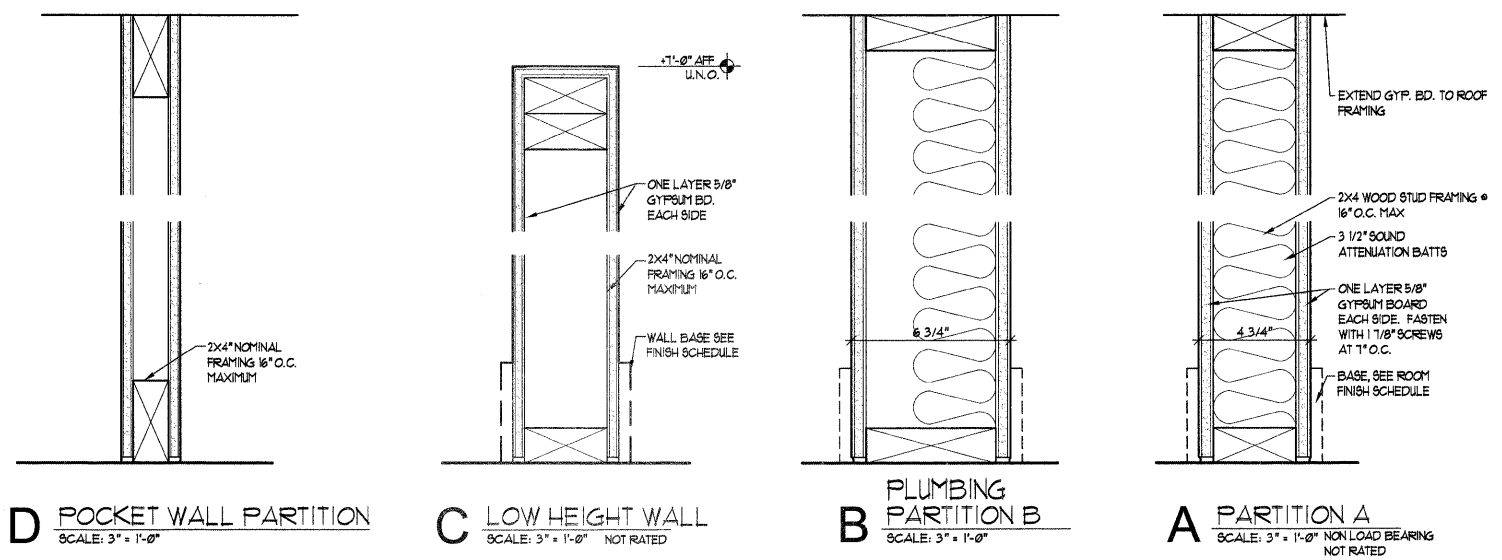
1 ARCHITECTURAL SITE PLAN  
SCALE: 1/8" = 1'-0"



sheet A1.1

1. PROVIDE BLOCKING IN CLOSET WALLS FOR INSTALLATION OF ADJUSTABLE SHELVING AND STANDARDS FROM FLOOR TO 8'-0" AFF. PROVIDE ACCESSIBLE COAT ROD AND SHELVING IN EACH CLOSET.
3. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
4. ALL BATHROOMS OR TOILET ROOMS TO HAVE BLOCKING INSIDE WALLS TO SUPPORT GRAB BARS (CURRENT OR FUTURE) AND ACCESSORIES.
5. THE HEIGHT OF TABLES OR COUNTER TOPS SHALL BE FROM 28" TO 34" IN HEIGHT ABOVE THE FINISH FLOOR. IF SEATING IS PROVIDED AT TABLES OR COUNTERS, KNEE SPACE AT LEAST 21" HIGH, 30" WIDE AND 19" DEEP SHALL BE PROVIDED.
6. FIRE EXTINGUISHERS SHOWN ON PLAN ARE MINIMUM. VERIFY EXACT NUMBER AND LOCATION PER APPLICABLE CODES.

- PARTITION NOTES:**
1. PROVIDE HORIZONTAL FIRE STOPPING AS REQUIRED BY CODE
  2. CONNECT PARTITIONS TO FLOOR OR ROOF FRAMING ABOVE WITH METAL STUDS / STRUTS FOR UNSUPPORTED END WALLS AND WALLS WITH MORE THAN 12'-0" OF UNSUPPORTED LENGTH. PROVIDE BLOCKING BETWEEN FRAMING MEMBERS RUNNING PARALLEL TO PARTITIONS. LOCATE BLOCKING AT SAME SPACING AS PARTITION STUDS.
  3. PROVIDE CROSS BRACING @ ALL GYP. CEILING PANEL JOINTS
  4. PARTITION CONSTRUCTION INCLUDES ALL REQUIREMENTS OF THE U.L. OR GYPSUM ASSOCIATION ASSEMBLY NOTED FOR FIRE SEPARATION. FULL TEXT MAY BE REVIEWED AT ARCHITECT'S OFFICE.
  5. USE MOISTURE RESISTANT GYP. BD. AT ALL WET LOCATIONS AND PLUMBING WALLS
  6. CONTRACTOR MAY USE METAL STUDS IN PLACE OF WOOD STUDS AT THEIR OPTION.
  7. SEE WALL SECTIONS FOR SUB-CEILING AND BLOW-IN INSULATION NOTES.



**D POCKET WALL PARTITION**  
SCALE: 3" = 1'-0"

**C LOW HEIGHT WALL**  
SCALE: 3" = 1'-0" NOT RATED

**B PLUMBING PARTITION B**  
SCALE: 3" = 1'-0"

**A PARTITION A**  
SCALE: 3" = 1'-0" NON LOAD BEARING NOT RATED

**LEGEND**

	NEW CONSTRUCTION
	NEW POTTER-ROEMER #1022-B-16-VH
	SEMI-RECESSED CABINET W/ #3010 FIRE EXTINGUISHER

01.09.09	IDOT Submittal
Issued	description

**ARCHITECTURAL FLOOR PLAN & PARTITION TYPES**

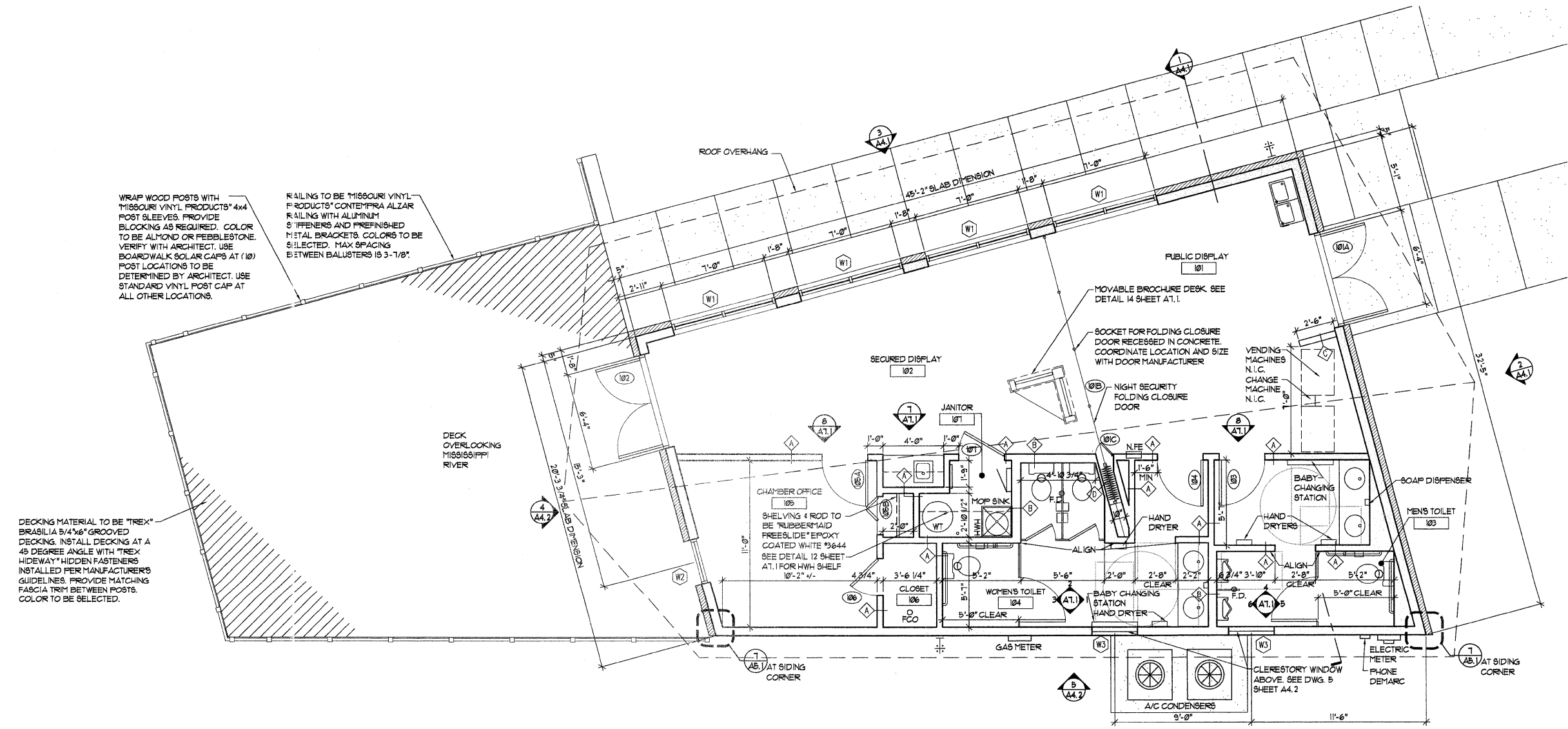
**CHESTER WELCOME CENTER**

Chester, Illinois

**QUADRANT** design  
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phone 618.939.0606

job number 10525  
drawn by JE  
checked by MGS  
file name Welcome Center Plan  
scale noted



WRAP WOOD POSTS WITH MISSOURI VINYL PRODUCTS' 4x4 POST SLEEVES. PROVIDE BLOCKING AS REQUIRED. COLOR TO BE ALMOND OR PEBBLESTONE. VERIFY WITH ARCHITECT. USE BOARDWALK SOLAR CAPS AT (10) POST LOCATIONS TO BE DETERMINED BY ARCHITECT. USE STANDARD VINYL POST CAP AT ALL OTHER LOCATIONS.

DECKING MATERIAL TO BE TREX® BRASILIA 5/4x6" GROOVED DECKING. INSTALL DECKING AT A 45 DEGREE ANGLE WITH TREX® HIDEWAY® HIDDEN FASTENERS INSTALLED PER MANUFACTURER'S GUIDELINES. PROVIDE MATCHING FASCIA TRIM BETWEEN POSTS. COLOR TO BE SELECTED.

**1 ARCHITECTURAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH TRUE NORTH 1/4"



NO GENERAL NOTES ON THIS SHEET.

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ROOF PLAN & DETAILS

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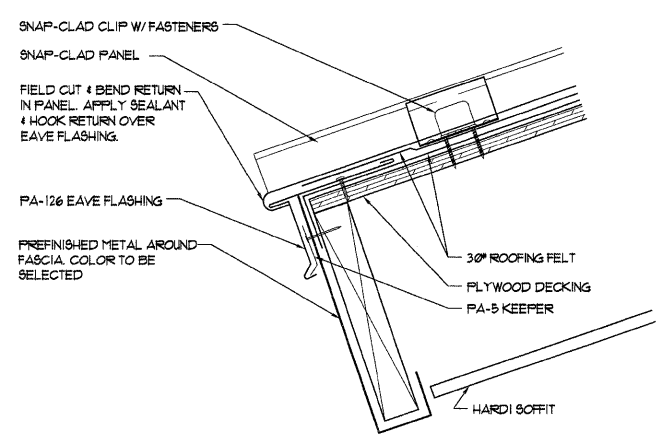
Chester, Illinois

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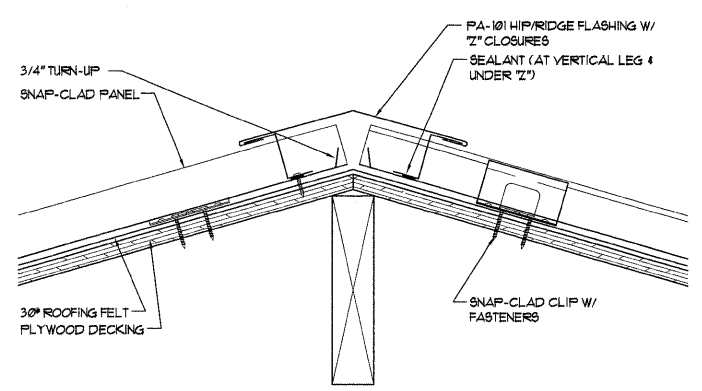
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scale noted

sheet **A2.3**



**3 EAVE DETAIL**  
SCALE: 3/4" = 1'-0"



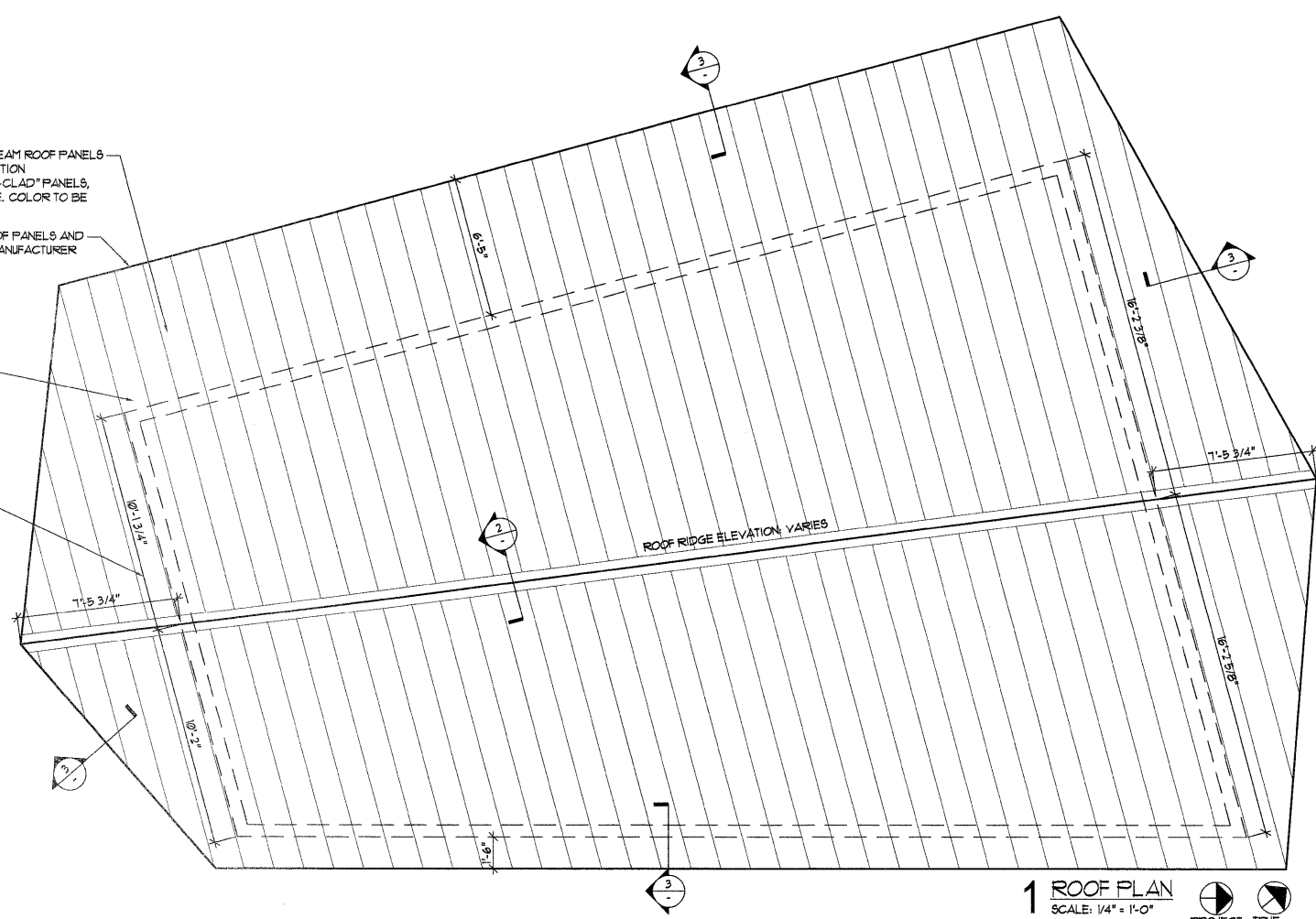
**2 STANDING SEAM RIDGE DETAIL**  
SCALE: 3/4" = 1'-0"

ARCHITECTURAL METAL STANDING SEAM ROOF PANELS BY "PETERSEN ALUMINUM CORPORATION (PAC-CLAD)." SYSTEM TO BE "SNAP-CLAD" PANELS, 24 GAUGE STEEL, 1 3/4" HIGH, 16" WIDE. COLOR TO BE SELECTED BY ARCHITECT

ALL FLASHING & TRIM TO MATCH ROOF PANELS AND BE FABRICATED BY ROOF PANEL MANUFACTURER

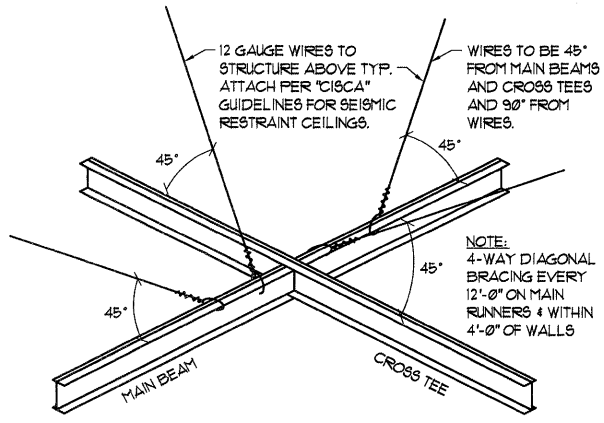
LINE OF WALL BELOW

ROOF DIMENSIONS ARE TO FACE OF WALL SHEATHING

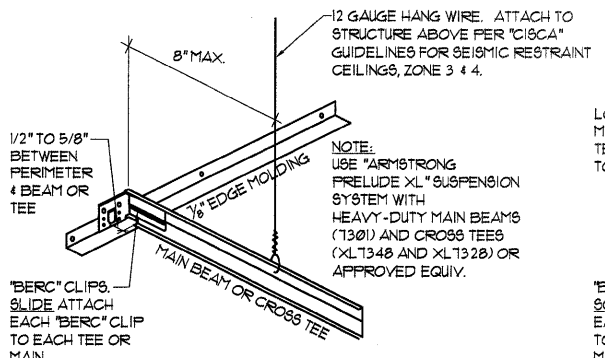


**1 ROOF PLAN**  
SCALE: 1/4" = 1'-0"

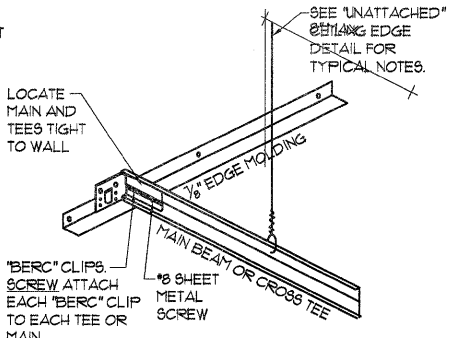




**C3 SEISMIC DIAGONAL BRACING DETAIL**  
SCALE: NOT TO SCALE  
SEISMIC ZONES C & D ON EVERY CEILING



**C2 "UNATTACHED" CEILING EDGE**  
SCALE: NOT TO SCALE  
SEISMIC ZONE D ON ADJACENT EDGES OF EVERY CEILING



**C1 "ATTACHED" CEILING EDGE**  
SCALE: NOT TO SCALE  
SEISMIC ZONE D ON ADJACENT EDGES OF EVERY CEILING

**SEISMIC BRACING NOTES**

1. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2" IN EACH ORTHOGONAL HORIZONTAL DIRECTION. ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE 2" CLOSURE ANGLE. THE MAIN AND CROSS RUNNERS SHALL BE TIED TOGETHER TO PREVENT TWISTING.
2. SUSPENDED CEILING EXCEEDING 2300 SQ. FT. SHALL HAVE A SEPARATION JOINT.
3. CEILING LESS THAN 144 SQ. FT. WITH WALLS CONNECTED DIRECTLY TO STRUCTURE ABOVE ARE EXEMPT FROM SEISMIC LATERAL REQUIREMENTS. ADD ONE 12 GAUGE SUPPLEMENTARY GRID HANGER WITHIN 3" OF EACH LIGHT FIXTURE CORNER.

**REFLECTED CEILING SYMBOLS**  
SEE LIGHTING PLAN FOR LIGHT FIXTURE SCHEDULE

	LINEAR FLUORESCENT PENDANT
	CEILING FAN
	TRACK LIGHTING 4 FIXTURES
	2x4 LAY-IN FLUORESCENT
	1x4 SURFACE MOUNT FLUORESCENT
	UNDER CABINET LIGHTING
	UTILITY FIXTURE
	CAN LIGHT
	COMBINATION EXIT SIGN / EMERGENCY LIGHT
	EMERGENCY LIGHTING BATTERY WALL PACK WITH WHITE ENCLOSURE
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	EXHAUST FAN

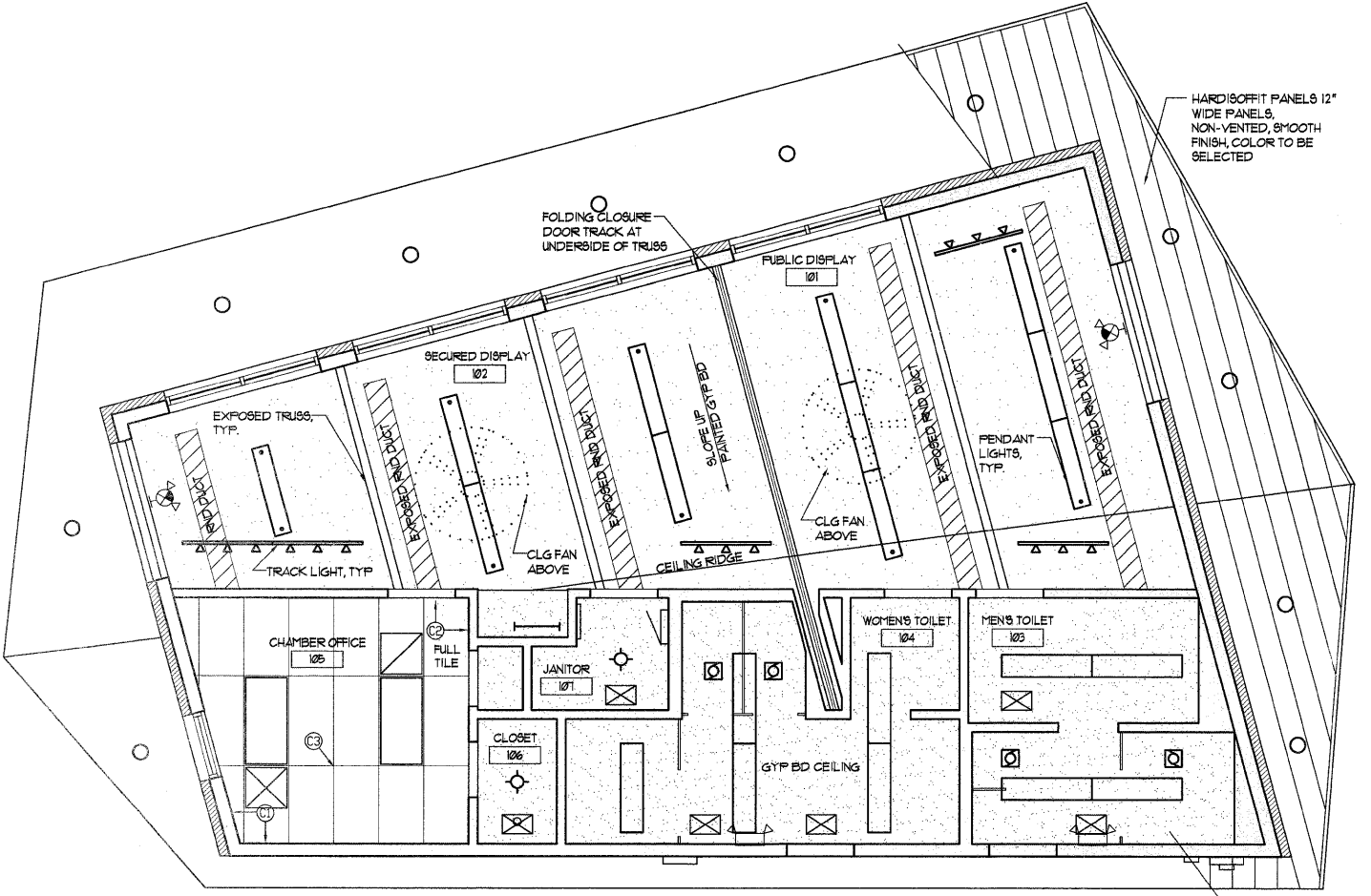
**GENERAL NOTES**

1. TAPE AND PAINT ALL GYP. BOARD CEILING, TYP.
2. SEE FINISH MATERIAL SCHEDULE FOR CEILING MATERIALS AND HEIGHTS.
3. PROVIDE SEISMIC ATTACHMENTS PER DETAIL C1, C2, C3
4. CENTER CEILING ITEMS SUCH AS DIFFUSERS, LIGHTS, ETC IN 2x2 SECTION OF TILES

**KEYED NOTES**

1. "ATTACHED" CEILING PERIMETER PER SEISMIC REQUIREMENTS, SEE DETAIL C1, THIS SHEET.
2. "UNATTACHED" CEILING PERIMETER PER SEISMIC REQUIREMENTS, SEE DETAIL C2, THIS SHEET.

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**REFLECTED CEILING PLAN**

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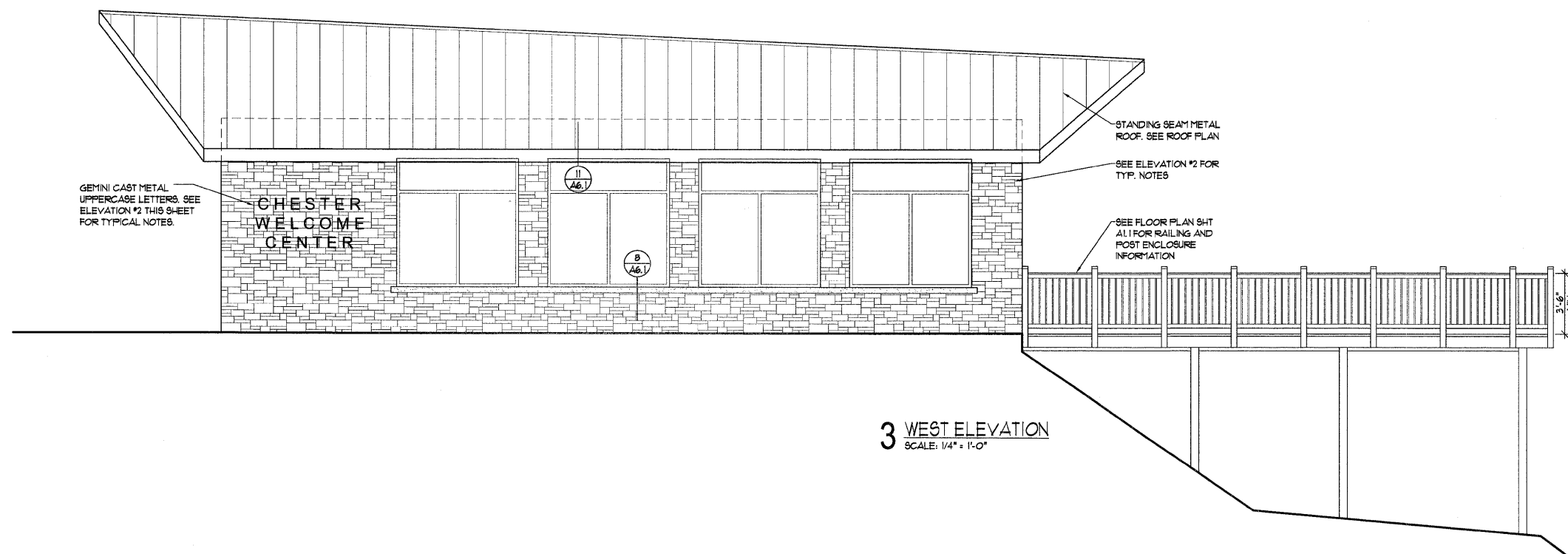
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Job number 20525  
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checked by MS  
file name Chester Center Plan  
scale noted

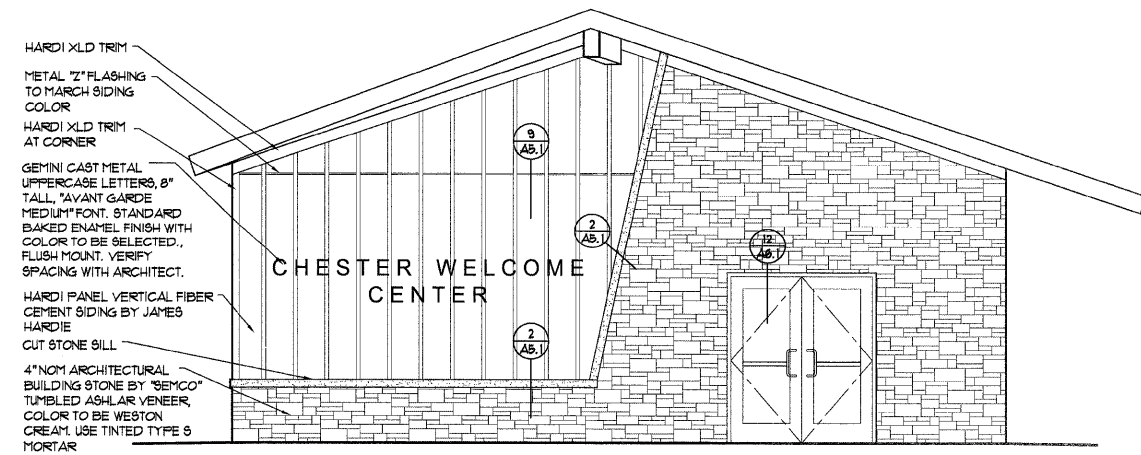
**1 REFLECTED CEILING PLAN**  
SCALE: 1/4" = 1'-0"



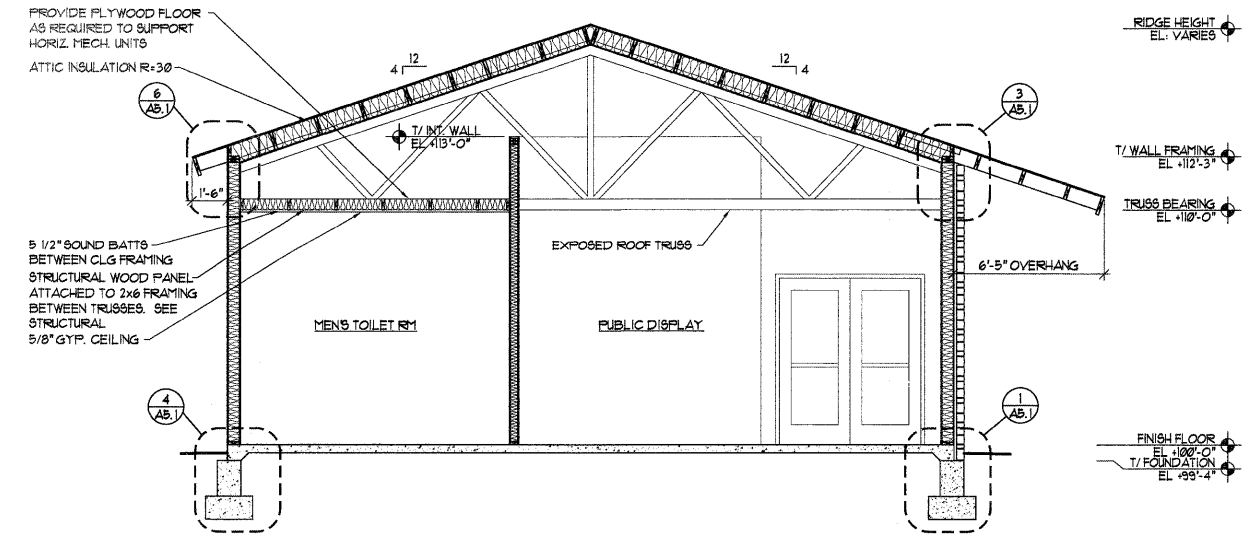
1. NO GENERAL NOTES ON THIS SHEET.



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



2 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"



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

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BUILDING ELEVATIONS & SECTION

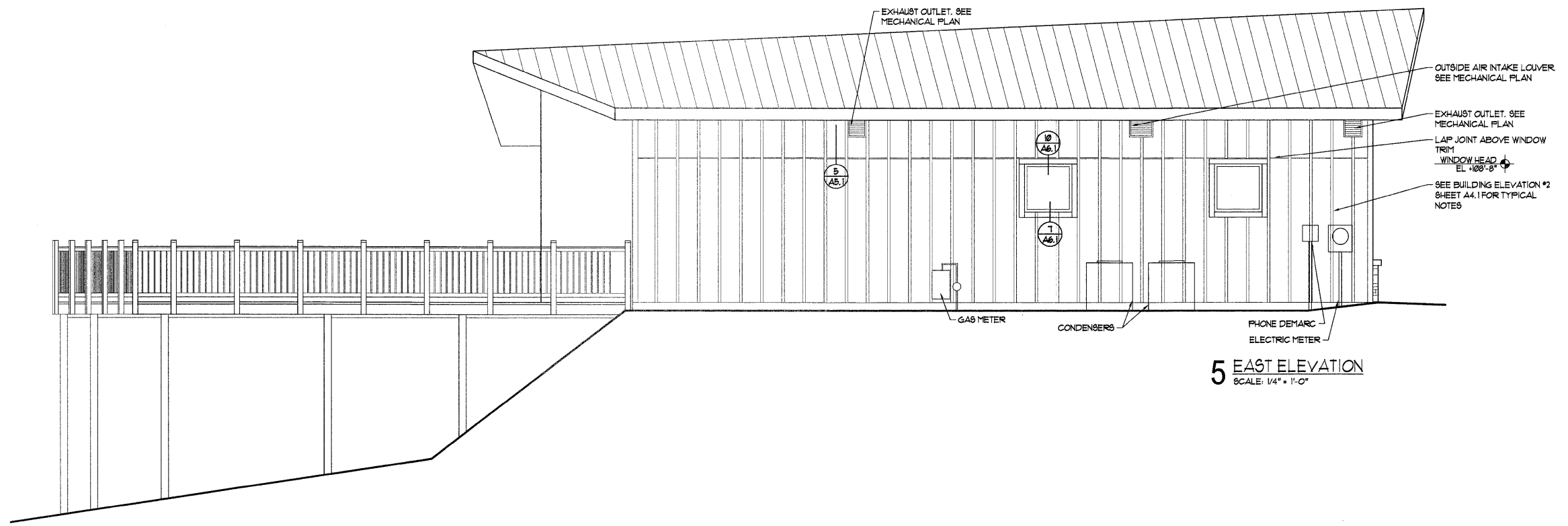
CHESTER WELCOME CENTER

Chester, Illinois

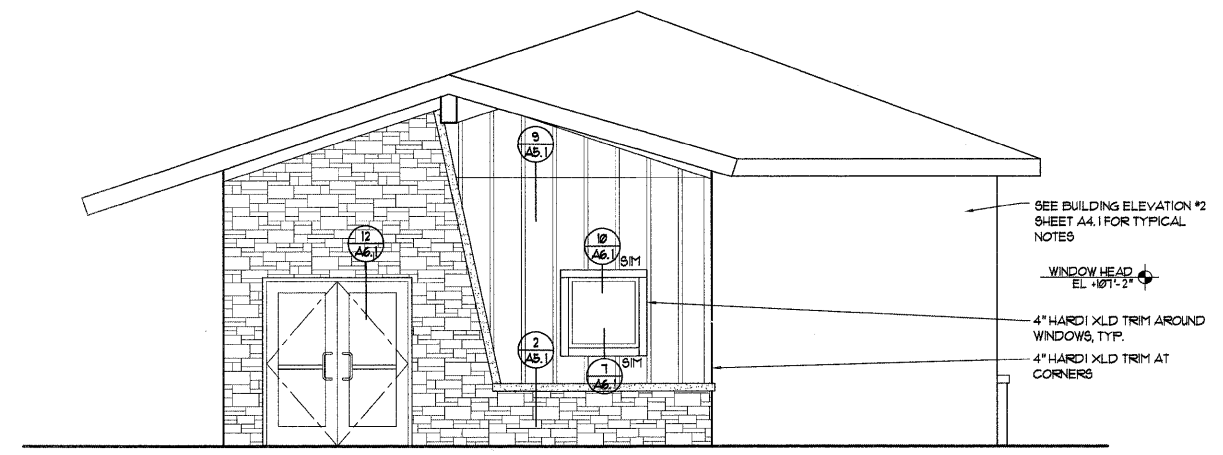
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scale noted



5 EAST ELEVATION  
SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"

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Issued	description

BUILDING ELEVATIONS

CHESTER WELCOME CENTER

Chester, Illinois

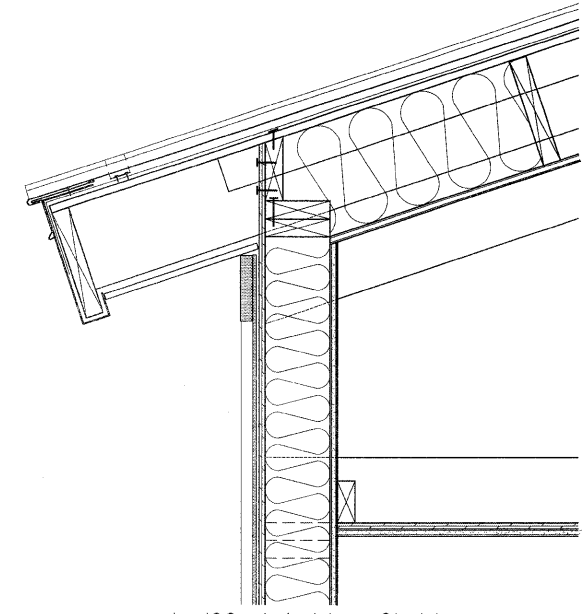


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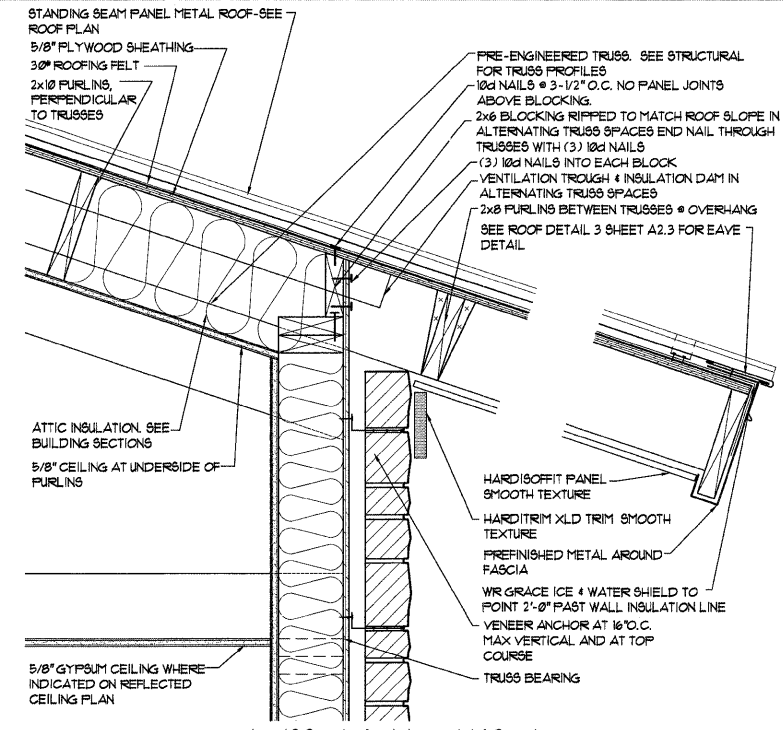
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drawn by	JE
checked by	MS
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scale	noted

sheet A4.2

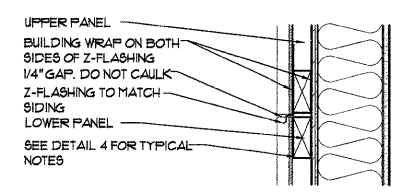
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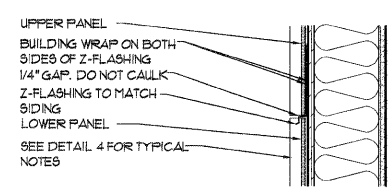
**6 TRUSS BEARING @ SIDING**  
SCALE: 1 1/2" = 1'-0"



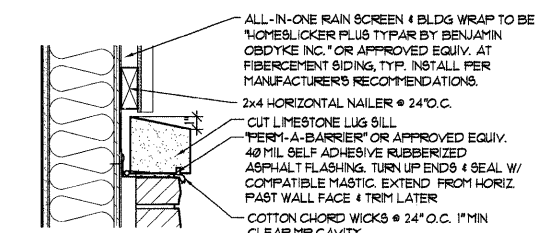
**3 TRUSS BEARING @ MASONRY**  
SCALE: 1 1/2" = 1'-0"



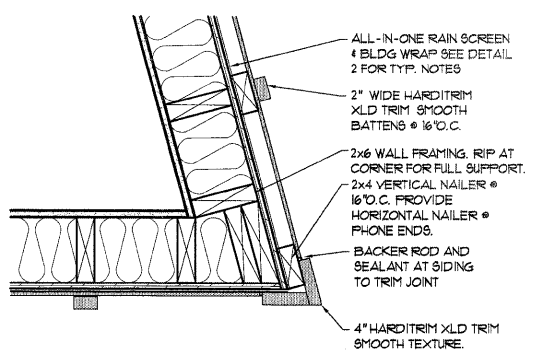
**9 SIDING LAP JOINT @ GABLE ENDS**  
SCALE: 1 1/2" = 1'-0"



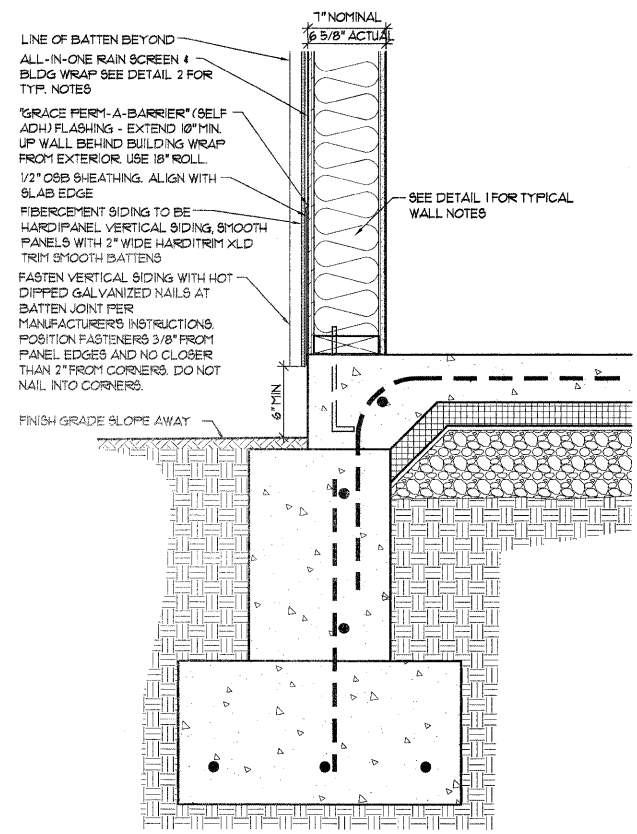
**5 SIDING LAP JOINT @ EAST ELEVATION**  
SCALE: 1 1/2" = 1'-0"



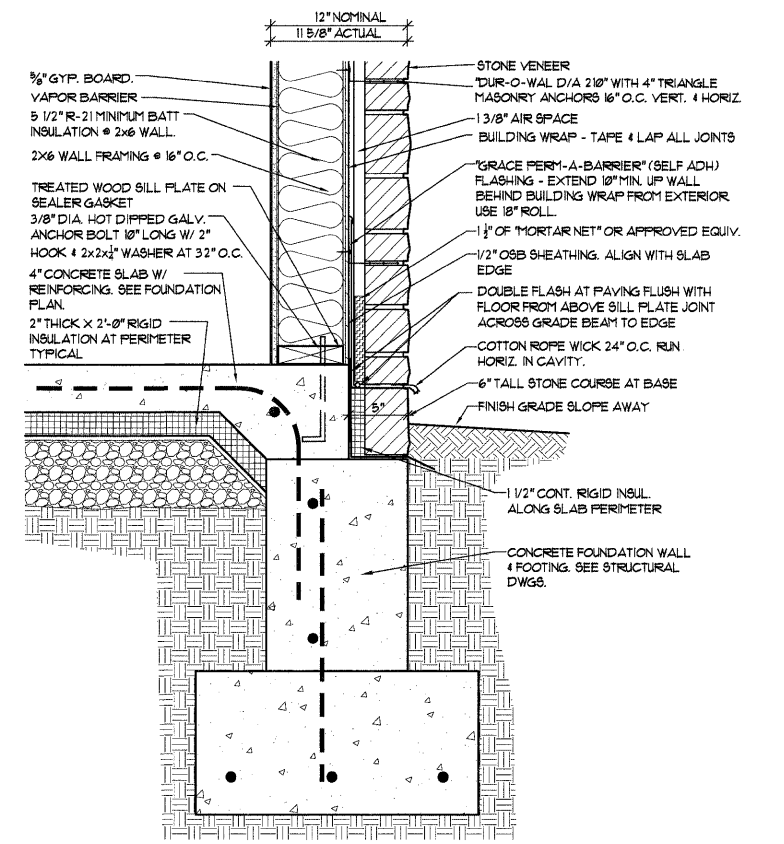
**2 MASONRY / SIDING SILL**  
SCALE: 1 1/2" = 1'-0"



**7 PLAN DETAIL @ SIDING CORNER**  
SCALE: 1 1/2" = 1'-0"



**4 WALL BASE AT SIDING**  
SCALE: 1 1/2" = 1'-0"



**1 WALL BASE AT MASONRY**  
SCALE: 1 1/2" = 1'-0"

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**WALL SECTIONS & EXTERIOR DETAILS**

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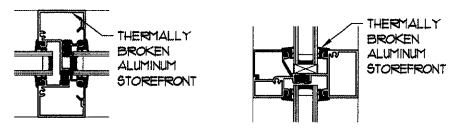
Chester, Illinois

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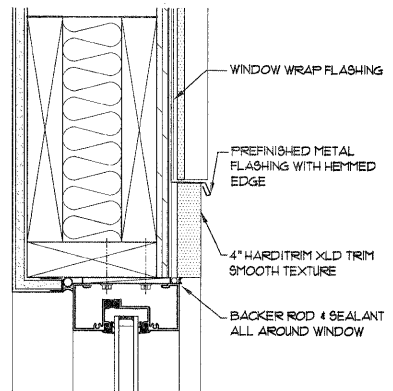
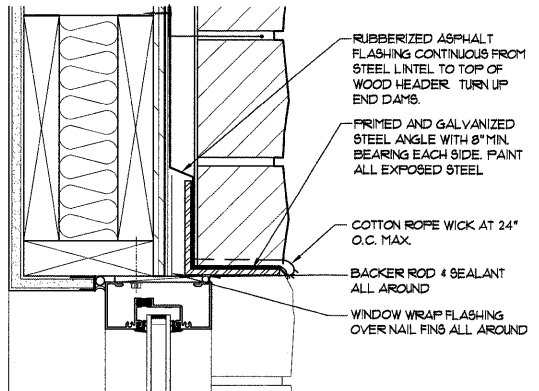
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job number 20525  
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NO GENERAL NOTES ON THIS SHEET.

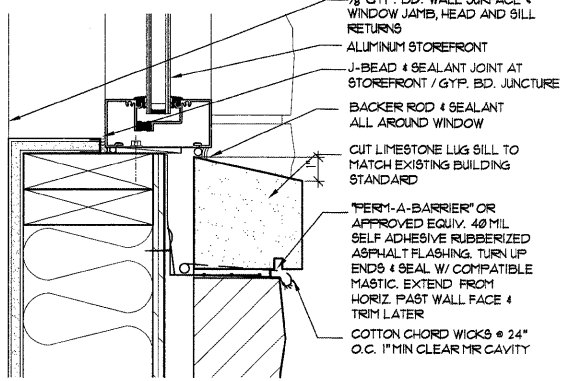


17 VERTICAL SCALE: 3" = 1'-0"  
16 HORIZONTAL SCALE: 3" = 1'-0"

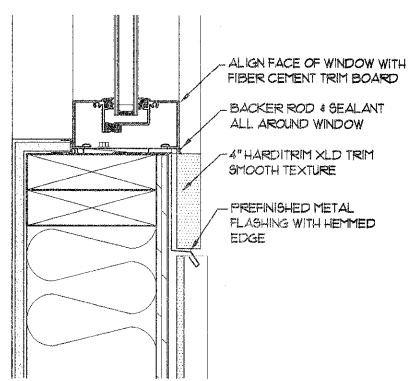


10 WINDOW HEAD AT SIDING SCALE: 3" = 1'-0"

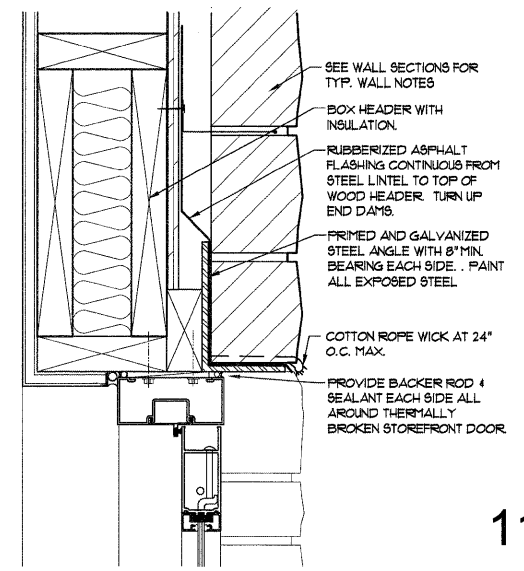
11 WINDOW HEAD AT MASONRY SCALE: 3" = 1'-0"



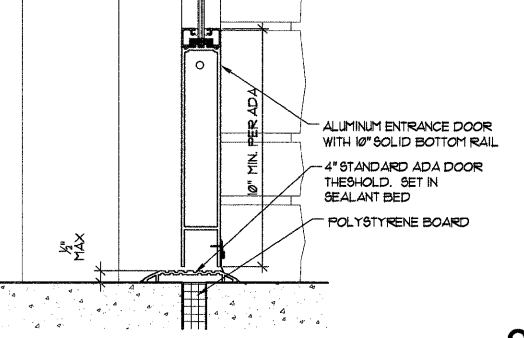
8 WINDOW SILL AT MASONRY SCALE: 3" = 1'-0"



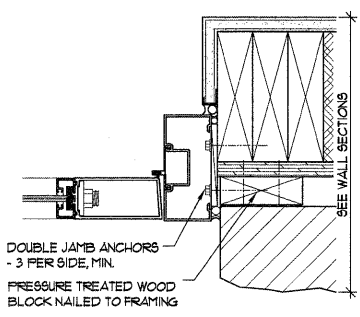
7 WINDOW SILL AT SIDING SCALE: 3" = 1'-0"



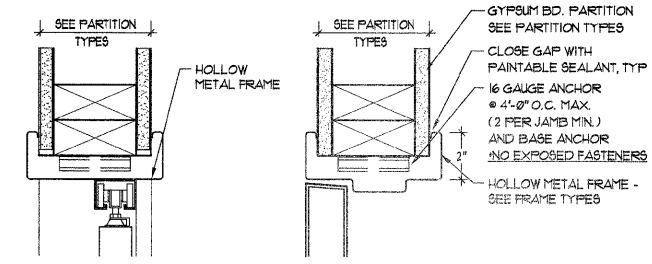
12 DOOR HEAD SCALE: 3" = 1'-0"



9 DOOR SILL SCALE: 3" = 1'-0"

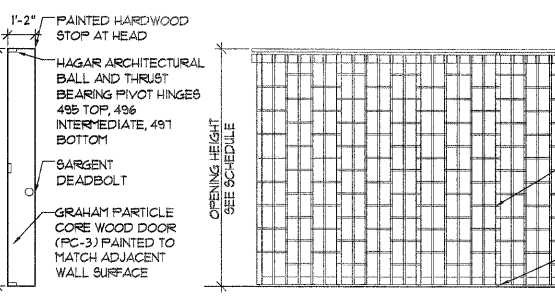
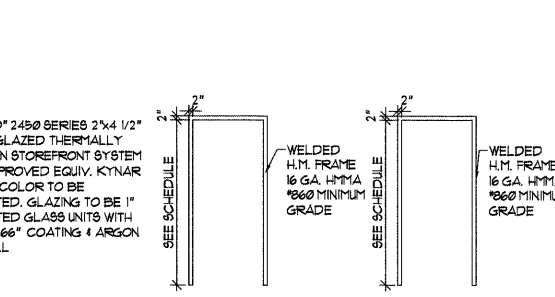
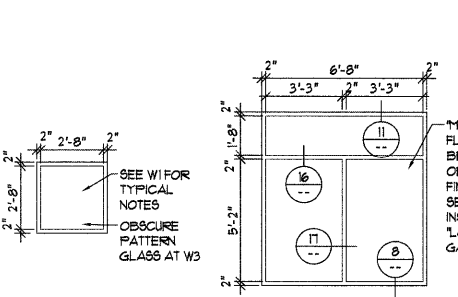


6 JAMB DETAIL @ MASONRY SCALE: 3" = 1'-0"



2 BIFOLD HEAD SCALE: 3" = 1'-0"

1 DOOR HEAD & JAMB SCALE: 3" = 1'-0"



ROOM NO.	ROOM NAME	WALLS								CEILING		FLOOR		REMARKS	
		NORTH		SOUTH		EAST		WEST		MATERIAL	FINISH HEIGHT	MATERIAL	FINISH BASE		
101	PUBLIC DISPLAY	GYP	PT	GYP	PT	GYP	PT	GYP	PT	GYP	PT	VARIES	CONC.	VIN-1	
102	SECURED DISPLAY	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP	PT	9'-11"	CONC.	CT-3	
104	WOMEN'S TOILET	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP/CT-1	PT/-	GYP	PT	9'-11"	CONC.	CT-3	
105	CHAMBER OFFICE	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACT	PT	9'-0"	CONC.	VIN-1	
106	CLOSET	GYP	PT	GYP	PT	GYP	PT	GYP	PT	GYP	PT	9'-11"	CONC.	VIN-1	
107	JANITOR	GYP	PT	GYP	PT	GYP	PT	GYP	PT	GYP	PT	9'-11"	CONC.	VIN-1	

BUILDING AND FINISH MATERIAL SCHEDULE				
SYMBOL	MATERIAL	MANUFACTURER	NUMBER/NAME	COMMENTS
ACT	ACOUSTICAL CEILING TILE 4 GRID	ARMSTRONG	15/16" PRELUDE GRID W/ CORTEGA SECOND LOOK CEILING TILE	COLORS TO BE SELECTED
CONC	STAINED & POLISHED CONCRETE	LMI		SEE SPECIFICATIONS
CT-1	CERAMIC TILE WALL	DALTILE	FOLIO TWO 6x6" GLAZED CERAMIC TILE	COLOR TO BE SELECTED
CT-2	CERAMIC BULLNOSE TILE	DALTILE	FOLIO TWO 6x6" GLAZED CERAMIC BULLNOSE TILE AT TOP OF WAINSCOT	COLOR TO BE SELECTED
CT-3	CERAMIC TILE BASE	DALTILE	FOLIO TWO 6x6" GLAZED CERAMIC TILE	COLOR TO BE SELECTED
GYP	GYPSUM BOARD	-	5/8" THICK GYPSUM BOARD	USE GREEN BD. AT MET LOCATIONS
PT	PAINT	-		SEE PAINT SCHEDULE AND SPECIFICATIONS
VIN-1	VINYL WALL BASE	ARMSTRONG	4" COVED COLOR INTEGRATED VINYL WALL BASE	COLOR TO BE SELECTED

EXTERIOR BUILDING MATERIAL SCHEDULE			
MATERIAL	MANUFACTURER	NUMBER/NAME	COMMENTS
METAL ROOF PANELS	PAC-CLAD	SEE ROOF PLAN SHEET A2.3	
FIBERCEMENT SIDING 4 TRIM	JAMES HARDIE	SEE WALL SECTIONS 4 DETAILS FOR TRIM SIZES, TEXTURE, ETC.	
STONE VENEER	SEMCO	SEE BUILDING ELEVATION #2 SHEET A4.1	
STOREFRONT WINDOWS 4 DOORS	MANKO	SEE WINDOW TYPES THIS SHEET	
SIGNAGE LETTERS	GEMINI	SEE ELEVATION #2 SHEET A4.1	

PAINT SCHEDULE		
ALL COLORS TO BE SELECTED BY ARCHITECT. CONTACT ARCHITECT IMMEDIATELY IF PAINT SYSTEM FOR A BUILDING MATERIAL IS OMITTED.		
FINISH MATERIAL	PRIME COAT	FINISH COAT
GYPSUM BOARD	REGAL FIRSTCOAT (216)	2 COATS REGAL AQUAPEARL (310) = PEARL
INTERIOR MTL DOOR FRAMES	IRONCLAD LATEX LOW LUSTRE METAL 4 WOOD ENAMEL (363)	2 COATS REGAL AQUAGLO (333)
HARDI TRIM 4 SIDING	FRESH START ACRYLIC PRIMER (023)	2 COATS MOORCRAFT SUPER SPEC LATEX HOUSE 4 TRIM PAINT

DOOR SCHEDULE														
DOOR NO.	LOCATION	DOOR				FRAME				U.L. LABEL	HWDR. SET	REMARKS		
		FRAME	OPENING	TYPE	MAT'L.	FIN.	TYPE	FIN.	DETAILS (THIS SHEET)					
101A	PUBLIC DISPLAY	6'-0" X 1'-0"	13/4"	D3	ASF	KYNAR	D3	KYNAR	12	6	9	-	H1	
101B	PUBLIC DISPLAY	5'-0" X 10'-0"	-	D4	ALUM	ANOD.	-	-	-	-	-	-	-	VERIFY DOOR SIZE IN FIELD
101C	PUBLIC DISPLAY	1'-2" X 10'-0"	13/4"	D5	WD	PT	-	-	-	-	-	-	-	SEE DOOR TYPE FOR HARDWARE
102	SECURED DISPLAY	6'-0" X 1'-0"	13/4"	D3	ASF	KYNAR	D3	KYNAR	12	6	9	-	H1	
103	MEN'S TOILET	3'-0" X 1'-0"	13/4"	D1	WD	FLAM	F1	PT	1	1	-	-	H2	UNDERCUT DOOR 1"
104	WOMEN'S TOILET	3'-0" X 1'-0"	13/4"	D1	WD	FLAM	F1	PT	1	1	-	-	H2	UNDERCUT DOOR 1"
105A	CHAMBER OFFICE	3'-0" X 1'-0"	13/4"	D1	WD	FLAM	F1	PT	1	1	-	-	H4	
105B	CHAMBER OFFICE	2'-6" X 1'-0"	13/4"	D2	WD	FLAM	F2	PT	2	-	-	-	H5	
106	CLOSET	3'-0" X 1'-0"	13/4"	D1	WD	FLAM	F1	PT	1	1	-	-	H6	
107	JANITOR	3'-0" X 1'-0"	13/4"	D1	WD	FLAM	F1	PT	1	1	-	-	H3	UNDERCUT DOOR 1"

HARDWARE SCHEDULE				
SET NO.	LOCKSET	HINGE	CLOSER	OTHER ITEMS / REMARKS
H1	DOUBLE DOOR STOREFRONT ENTRANCE	TWO SARGENT 8400 SERIES PANIC DEVICE W/ CONCEALED VERTICAL RODS 4 CTL. UNDER DOGGING. AUXILIARY CONTROL (80) ON ACTIVE LEAF. ADA STAINLESS STEEL FULL 4842 SATIN STAINLESS STEEL FINISH (32D)	PIR STANDARD 3 PIVOTS-TOP BOTTOM, AND INTERMEDIATE	DORMA 1414 SURFACE APPLIED DOOR CLOSER W/ COVER PROVIDE DOOR SWEEP
H2	TOILET	ROCKWOOD 100 FULL 100 4x18" PUSH BAR EACH SIDE. K1050 8x24" KICK PLATE. US32D SATIN STAINLESS STEEL FINISH. 481 DEADBOLT WITH ADA THURSTUR	4 1/2x4 1/2" MCKINNEY #A2114 (1/2 PAIR)	PROVIDE ADA SIGNAGE AT RESTROOMS. MOUNT ON ADJACENT WALL PER ADA REQUIREMENTS @ 60" A.F.F. MAX HEIGHT TO DEADBOLT 48" AFF
H3	CLASSROOM	SARGENT 10 LINE LEVER TYPE CLASSROOM LOCKSET WITH LB TRIM OR APPROVED EQUIV.	4 1/2x4 1/2" MCKINNEY #A2114 (1/2 PAIR)	DORMA 1414 SURFACE APPLIED DOOR CLOSER W/ COVER
H4	OFFICE	SARGENT 10 LINE LEVER TYPE OFFICE LOCKSET WITH LB TRIM OR APPROVED EQUIV.	4 1/2x4 1/2" MCKINNEY #A2114 (1/2 PAIR)	NONE
H5	BIFOLD	HAGER 9810 SERIES HEAVY DUTY BI-FOLD ALUMINUM TRACK 4 HARDWARE WITH 4" WIRE FULL HANDLE (ADA)	MRF STD FINISH TO MATCH	NONE
H6	PASSAGE	SARGENT 10 LINE LEVER TYPE PASSAGE LOCKSET WITH LB TRIM OR APPROVED EQUIV.	4 1/2x4 1/2" MCKINNEY #A2114 (1/2 PAIR)	NONE

1. HARDWARE SCHEDULE INCLUDES TRADE NAMES THAT REPRESENT DESIRED FUNCTION, FEATURES & QUALITY. APPROVED EQUIVALENT ITEMS SHOULD BE SUBMITTED BEFORE BID IS BASED ON SUCH MATERIALS.  
2. PROVIDE A GRAND MASTER / MASTER KEY SYSTEM. COORDINATE WITH ARCHITECT.

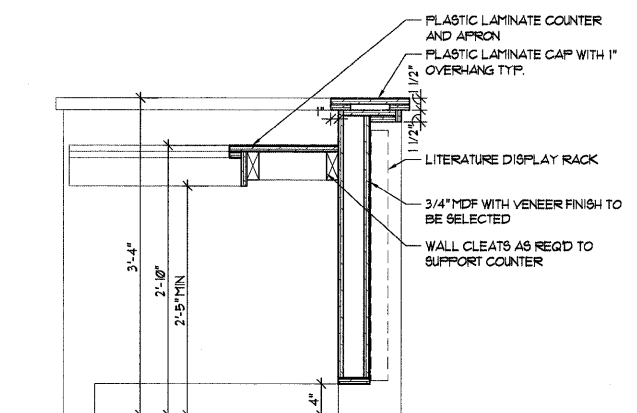
**QUADRANT** design architects & planners

135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

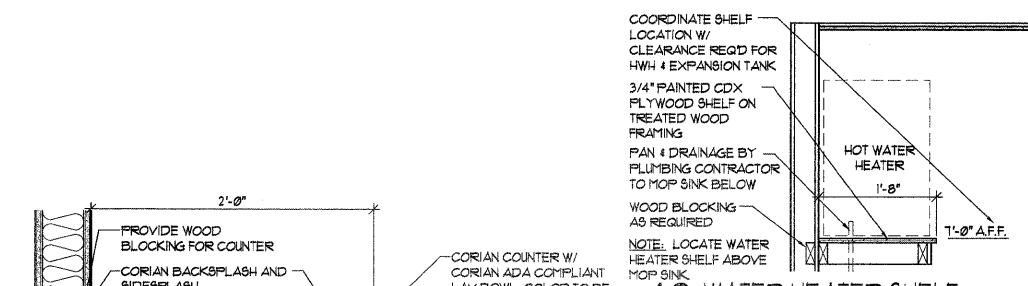
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scale noted

1. NO GENERAL NOTES ON THIS SHEET.

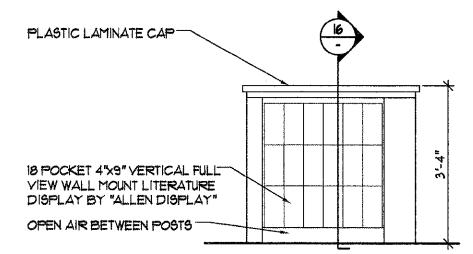
TOILET ROOM ACCESSORY SCHEDULE			
FIXTURE	MFG	MODEL	REMARKS
GRAB BARS	BOBRICK OR EQ.	B-6006	ONE 18" ONE 36" AND ONE 42" PER ACCESSIBLE WC
FRAMED MIRROR	BOBRICK OR EQ.	B-290 2436	ONE PER LAV. 24x36 W/STAINLESS FRAME
TOILET PAPER DISPENSERS	GEORGIA PACIFIC OR EQUIV.	B2102	MICRO-TWIN DOUBLE ROLL COVERED BATHROOM TISSUE DISPENSER. COLOR TO BE SELECTED.
SANITARY NAPKIN DISPOSAL	BOBRICK OR EQ.	B-210	ONE PER NEW WOMEN'S W.C.
SOAP DISPENSERS	BOBRICK OR EQ.	B-2111	ONE PER TOILET ROOM. SEE INTERIOR ELEVATIONS.
HAND DRYER	EXCEL DRYER OR EQUIV.	XLERATOR	ONE PER LAV. WITH XLERATOR ADA RECESS KIT. COLOR TO BE SELECTED.
TOILET PARTITIONS	METPAIR CORP. OR EQUIV.	POWER SHIELD	FLOOR MOUNTED, OVERHEAD BRACED, PAINTED STEEL. COLOR TO BE SELECTED.
COAT HOOKS	BOBRICK OR EQ.		ONE IN EACH W.C. STALL
BABY CHANGING STATION	KOALA KARE	KB-100-00	ONE PER TOILET ROOM. SEE INTERIOR ELEVATIONS.



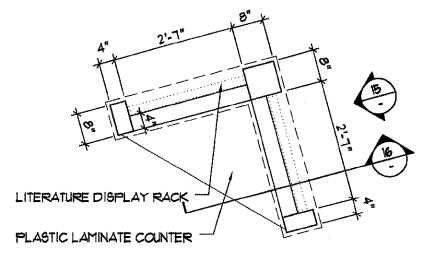
16 BROCHURE DESK DETAIL  
SCALE: 1" = 1'-0"



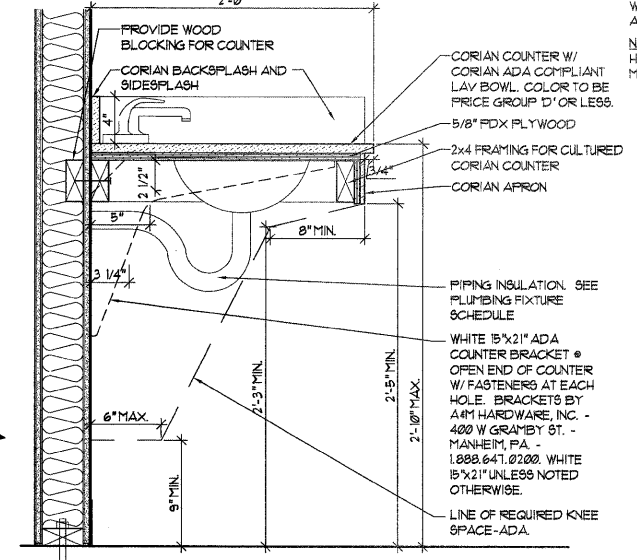
12 WATER HEATER SHELF  
SCALE: 3/4" = 1'-0"



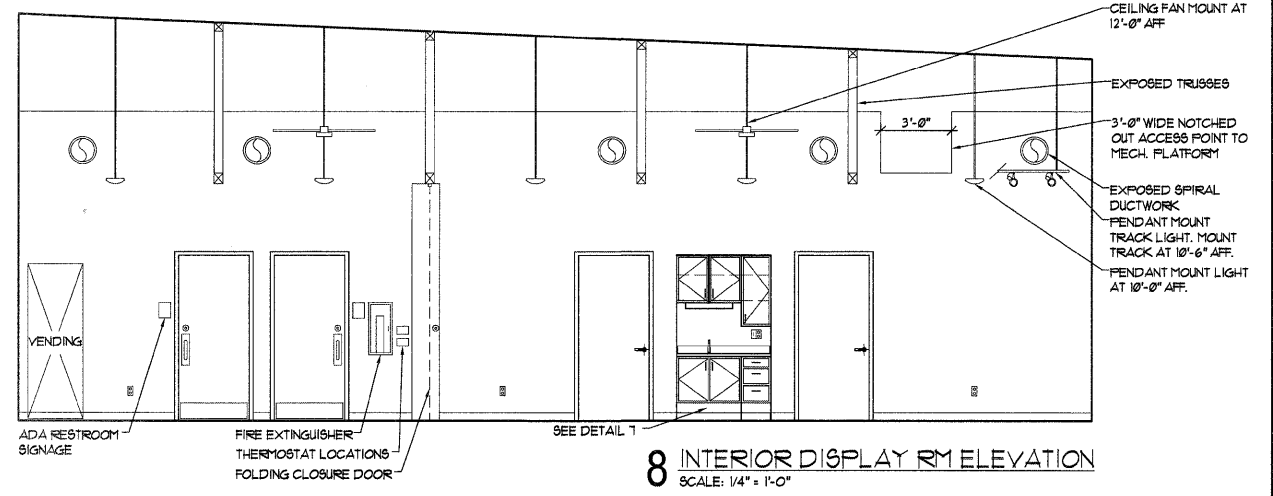
15 BROCHURE DESK ELEV.  
SCALE: 1/2" = 1'-0"



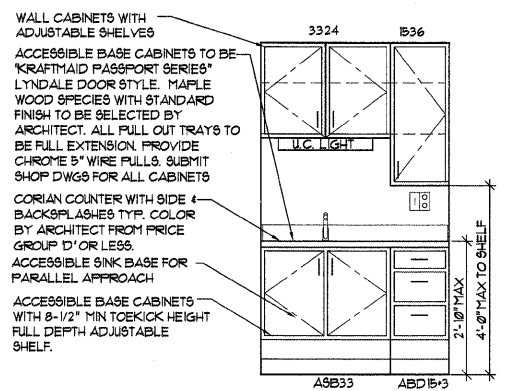
14 BROCHURE DESK PLAN  
SCALE: 1/2" = 1'-0"



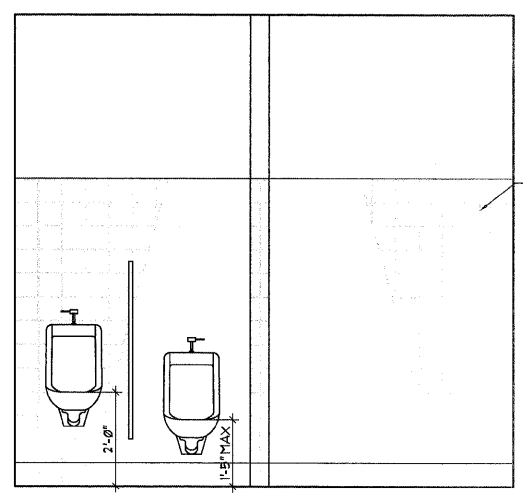
11 ACCESSIBLE SINK SECTION  
SCALE: 1 1/2" = 1'-0"



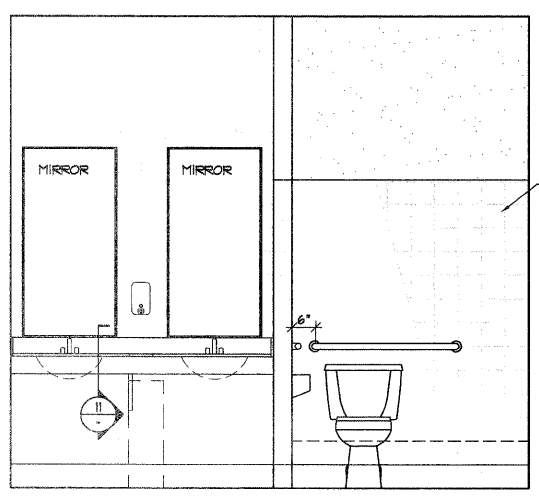
8 INTERIOR DISPLAY RM ELEVATION  
SCALE: 1/4" = 1'-0"



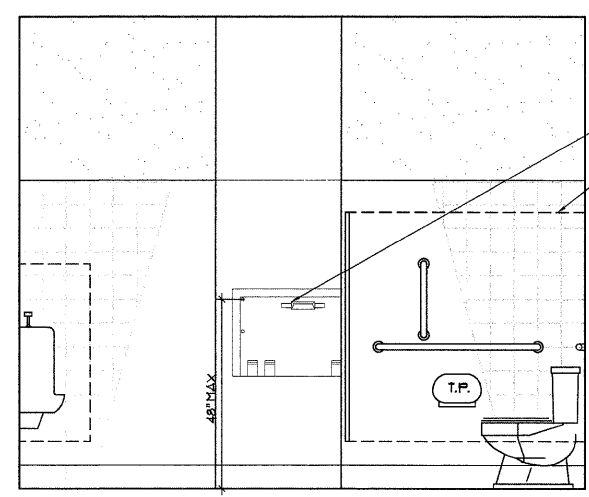
7 INTERIOR DISPLAY RM ELEVATION  
SCALE: 1/2" = 1'-0"



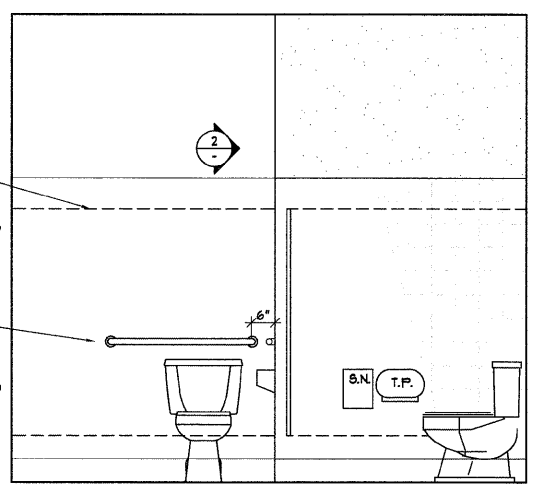
6 MENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"



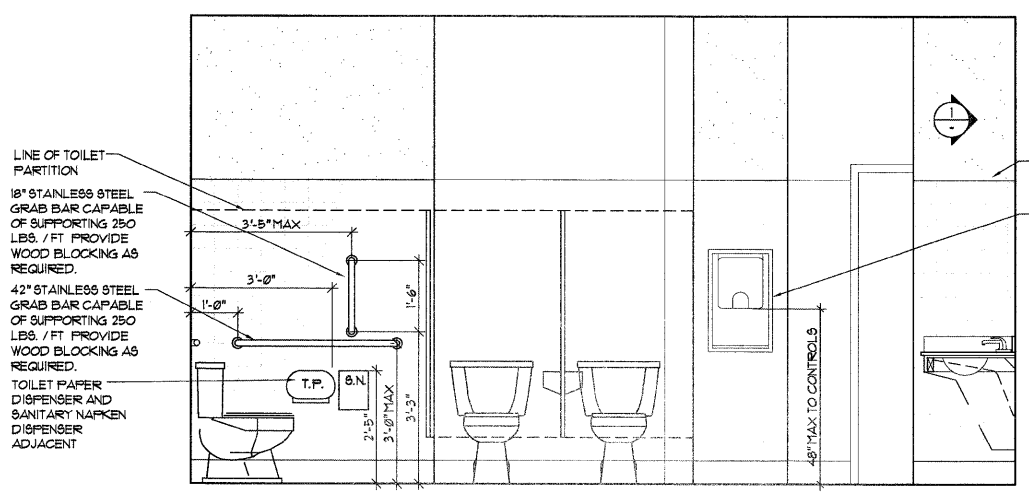
5 MENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"



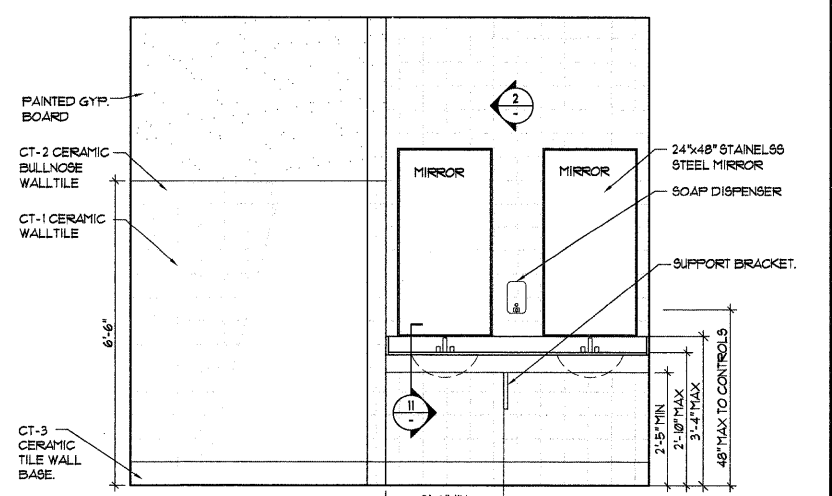
4 MENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"



3 WOMENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"



2 WOMENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"



1 WOMENS TOILET RM ELEV.  
SCALE: 1/2" = 1'-0"

INTERIOR ELEVATIONS & DETAILS

CHESTER WELCOME CENTER

Chester, Illinois

QUADRANT design architects & planners

135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

job number 20525  
drawn by JE  
checked by M6  
file name W.Center Detail  
scale noted

MECHANICAL NOTES

- M1. MECHANICAL SYSTEMS TO BE DESIGN/BUILD PROJECT. ARCHITECT'S PRELIMINARY STUDY IS INCLUDED FOR REFERENCE ONLY. SUBMIT DESIGN CALC'S AND PROPOSED DUCT LAYOUT TO ARCHITECT FOR COORDINATION AND OWNER'S RECORD.
- M2. ALL WORK SHALL MEET APPLICABLE CODES, STANDARDS, AND REGULATIONS. PROVIDE COMPLETE HEATING AND AIR CONDITIONING UNIT SYSTEMS FOR THE BUILDING, INCLUDING UNITS, DUCTWORK, GRILLES, REGISTERS, BALANCING DAMPERS, TEMPERATURE CONTROL WORK AND OUTDOOR AIR INTAKE DUCTS.
- M3. NEW DUCTWORK/TRUNKS SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. SEAL WITH DUCT SEALER SUCH AS "UNITED DUCT SEALER". ALL DUCTWORK (OTHER THAN EXPOSED SPIRAL PIPE) SHALL LINED WITH "REFLECTIX BUBBLE" INSULATION (R-5.6) OR APPROVED EQUIV., UNLESS NOTED OTHERWISE. EXTERIOR DUCTWORK TO BE INSULATED R3 MINIMUM, UNLESS NOTED OTHERWISE.
- M4. CONTRACTOR SHALL VERIFY THE CONDITION & SPACE FOR THE INSTALLATION WORK, MAKE ALL NECESSARY ROUTING, FITTING, AND DUCTWORK MODIFICATIONS TO AVOID ANY INTERFERENCE.
- M5. NEW INDOOR FURNACES (IF ANY) TO BE SEALED COMBUSTION UNITS WITH PVC COMBUSTION AIR AND EXHAUST LINES. SIZE AND INSTALL LINES PER MFR. GUIDELINES. INDOOR FURNACES TO HAVE OUTSIDE AIR INTAKE DUCTS TIED TO RETURN MAIN WITH MOTORIZED DAMPER.
- M6. ALL THERMOSTATS TO BE PROGRAMMABLE 14-EVENT TYPE WITH SUB-BASE AND LOCKING COVER. MOUNT AT 48" AFF.
- M7. PROVIDE 1 HOUR FIRE SEPARATION OR AUTOMATIC FIRE EXTINGUISHING SYSTEM IN MECHANICAL ROOMS WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT.
- M8. POSITIVELY ATTACH CEILING MOUNTED TERMINALS OR SERVICES WEIGHING LESS THAN 20 LBS TO CEILING GRID. CONTACT ARCHITECT FOR ITEMS WEIGHING MORE THAN 20 LBS.
- M9. ELECTRICAL CONTRACTOR TO PROVIDE & INSTALL EXHAUST FAN. MECHANICAL CONTRACTOR TO PROVIDE & INSTALL DUCTS, CAPS, AND BACKDRAFT DAMPERS.
- M10. PROVIDE BALANCING DAMPER AT EACH DUCT TAKE-OFF FROM MAIN DUCTWORK. PROVIDE LOCKING DEVICE FOR EACH BALANCING DAMPER.
- M11. ALL NOISE GENERATED FROM MECHANICAL EQUIPMENT SHALL NOT EXCEED 55db AT LOT LINES.
- M12. ALL OUTDOOR AIR INTAKE SHALL BE MINIMUM 15'-0" FROM EXHAUST OR PLUMBING VENTS.
- M13. ALL REFRIGERANT PIPING SHALL BE TYPE "K" COPPER. INSULATE ALL SUCTION PIPING.
- M14. BALANCE SYSTEMS AND SUBMIT COPY OF BALANCING REPORT TO ARCHITECT. BALANCING MAY BE PERFORMED BY QUALIFIED MEMBERS OF MECH CONTRACTOR'S STAFF.
- M15. PROVIDE FIRE DAMPERS IN DUCTS AT RATED WALLS OR CEILING (IF ANY). RATINGS TO MATCH WALL OR CEILING ASSEMBLY.
- M16. CHANGE ALL FILTERS ON GENERAL CONTRACTOR'S DATE OF SUBSTANTIAL COMPLETION & PROVIDE ONE MORE REPLACEMENT SET TO OWNER FOR EACH UNIT.
- M17. ASSEMBLE COPIES OF ALL MAINTENANCE AND OPERATING MANUALS FOR ALL EQUIPMENT AND SUBMIT TO OWNER.
- M18. PROVIDE 50 CFM AIR SUPPLY IN JANITOR AREA UNDERCUT DOOR 1'.
- M19. FLEXIBLE DUCTWORK TO BE "FLEXITITE" OR OTHER APPROVED MATERIAL WITH SAME R-VALUE & FRICTION. USE SHORTEST, STRAIGHTEST LENGTH FEASIBLE. NOTIFY ARCHITECT IF ANY SUPPLY OR RETURN FLEX RUNS EXCEED 8 FEET BEFORE INSTALLATION.
- M20. PROVIDE SMOKE DETECTORS & UNIT SHUT-DOWNS IN MAIN DUCTS WHERE RETURN AIR EQUALS OR IS GREATER THAN 2000 CFM PER CODE.
- M21. PROVIDE EXHAUST FAN IN TOILET ROOM SWITCHED WITH LIGHTS. ALL ROOF PENETRATIONS TO BE ON BACK SIDE OF ROOF RIDGE.
- M22. PROVIDE MOTORIZED DAMPER ON OUTSIDE AIR INTAKE DUCT CONNECTED TO AIR RETURN TRUNK.
- M23. MECHANICAL SYSTEMS IN THIS PROJECT ARE REQUIRED TO COMPLY WITH THE 2006 INTERNATIONAL ENERGY CONSERVATION CODE.
- M24. COVERS AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH ASTM E 84. DUCT COVERINGS AND LININGS SHALL NOT FLAME, GLOW, SMOLDER, OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM C411 AT THE TEMPERATURE TO WHICH THEY ARE EXPOSED IN SERVICE. THE TEST TEMPERATURE SHALL NOT FALL BELOW 250°F.

MECHANICAL EQUIPMENT SCHEDULE

TAG NO.	SERVICE AREA	MANUFACTURER	HEATING CAPACITY BTU/H IN	CAPACITY BTU/H OUT	COOLING CAPACITY	ASSUMED CFM	REMARKS
F-1 (5 TON)	ENTIRE BUILDING	TRANE XR90 TUX SERIES	80,000	74,000	5 TON 14 SEER MIN	2000 CFM	DIRECT VENT GAS FIRED FURNACE. 90% EFFICIENT HEAT MIN. 14 SEER MIN. SEE REQUIRED OUTDOOR VENT AIR SCHEDULE BELOW. PROVIDE O.A.I. DUCT W/ MOTORIZED DAMPER
F-2 (5 TON)	PUBLIC & SECURED DISPLAY	TRANE XR90 TUX SERIES	80,000	74,000	5 TON 14 SEER MIN	2000 CFM	DIRECT VENT GAS FIRED FURNACE. 90% EFFICIENT HEAT MIN. 14 SEER MIN. SEE REQUIRED OUTDOOR VENT AIR SCHEDULE BELOW. PROVIDE O.A.I. DUCT W/ MOTORIZED DAMPER

REQUIRED OUTDOOR VENTILATION AIR

OCCUPANCY CLASSIFICATION	OCCUPANT LOAD	OUTDOOR AIR (CUBIC FEET PER MINUTE (CFM) PER PERSON) UNLESS NOTED
CORRIDORS AND UTILITIES	N/A	.05 CFM PER SQ. FT.
PUBLIC TOILET ROOMS	N/A	75 CFM EXHAUST PER WATER CLOSET
OFFICE SPACES	2	20 CFM PER PERSON
RECEPTION AREAS	36	15 CFM PER PERSON

Contract # 97367  
GENERAL NOTES

1. NO GENERAL NOTES ON THIS SHEET.

01.09.09 IDOT Submittal  
Issued description

MECHANICAL PLAN & NOTES

CHESTER WELCOME CENTER

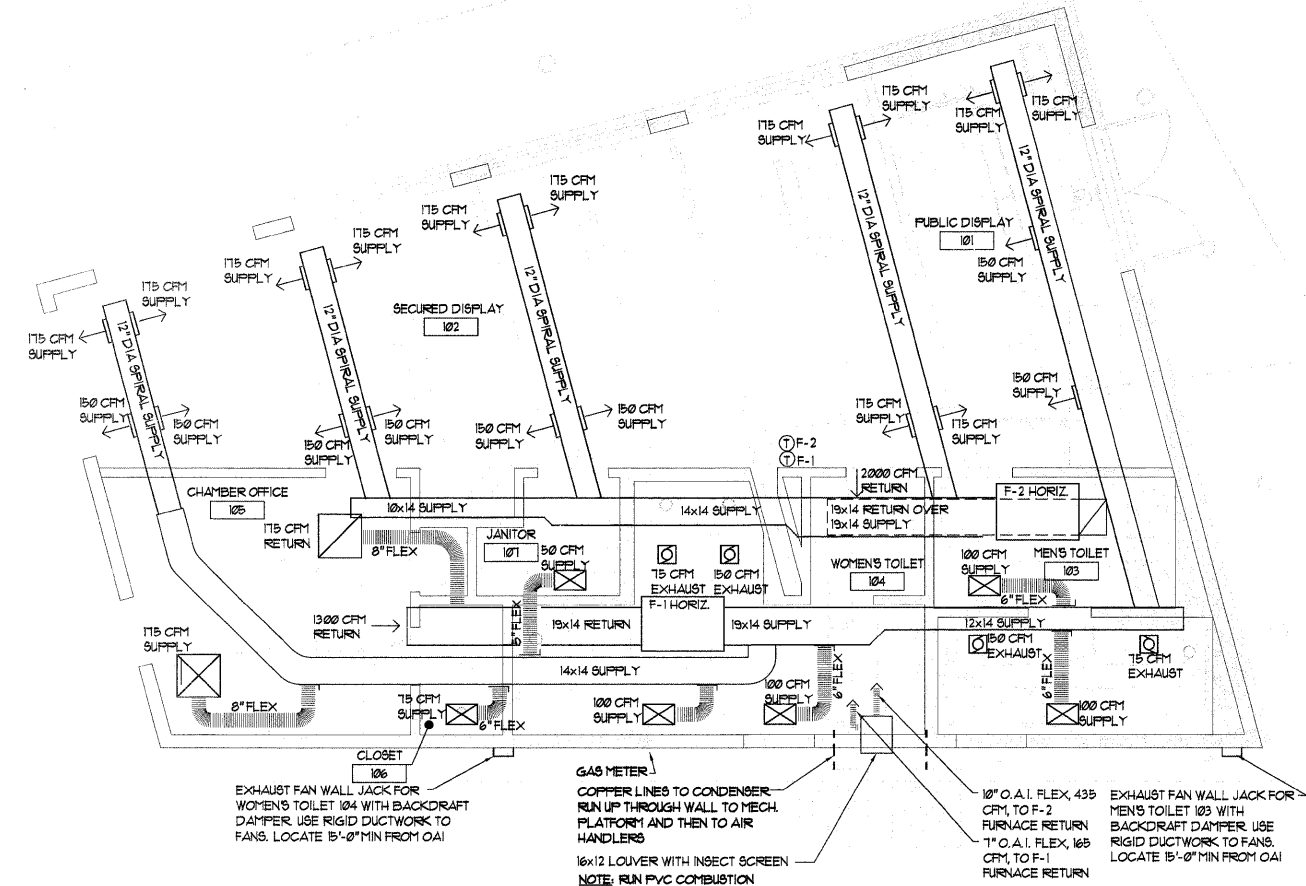
Chester, Illinois

QUADRANT design  
architects & planners

135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

job number 20525  
drawn by JE  
checked by MS  
file name  
scale

sheet M1.1



1 MECHANICAL PLAN  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH TRUE NORTH 4-



**ELECTRICAL NOTES**

E1. ELECTRICAL SYSTEMS ARE TO BE PROVIDED AS A DESIGN/BUILD SYSTEM. THESE DRAWINGS ARE INTENDED TO PROVIDE A BASE SCOPE OF PROJECT APPROACH. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING SERVICE, PANEL AND BRANCH CIRCUITING. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS, INCLUDING THE NATIONAL ELECTRICAL CODE, INTERNATIONAL ENERGY CODE, AND UTILITY PROVIDER STANDARDS. ELECTRICAL SYSTEM TO BE COMPLETE, PROPERLY GROUNDED WORKING SYSTEM COMPRISED OF NEW EQUIPMENT FROM END OF UTILITY COMPANY SERVICE THROUGHOUT BUILDING. EXISTING MATERIALS MEETING THE REQUIREMENTS OF CURRENT CODES MAY BE RE-USED IN PLACE. DO NOT REMOVE AND REINSTALL ITEMS WITHOUT APPROVAL OF OWNER AND ARCHITECT.

E2. CONTRACT TO INCLUDE ALL TAP FEES, CONNECTION FEES, PERMIT, AND INSPECTION FEES, UNLESS NOTED OTHERWISE IN BID FORM. COORDINATE WITH GENERAL CONTRACTOR. INCLUDE CONDUITS AND SERVICE CABLES REQUIRED BY CODE OR UTILITY COMPANY.

E3. ALLOW FOR EXPANSION WITHIN PANEL FOR FUTURE USE - MINIMUM 30 AMP SERVICE AND 4 CIRCUITS.

E4. LIGHTING SYSTEMS IN THIS PROJECT ARE REQUIRED TO COMPLY WITH THE 2006 INTERNATIONAL ENERGY CONSERVATION CODE.

E5. NUMBER NOT USED

E6. PROVIDE SUBMITTALS THROUGH GENERAL CONTRACTOR AS REQUIRED BY FULL SPECIFICATIONS. AT A MINIMUM, PROVIDE OWNER (THROUGH ARCHITECT) A 3-RING BINDER WITH CUT SHEETS, INSTALLATION AND OPERATIONS MANUALS, PARTS LISTS, WARRANTY INFORMATION, ETC. FOR ALL FIXTURES AND EQUIPMENT INSTALLED. ALSO MARK COPY OF THIS PLAN WITH FINAL DEVICE LOCATIONS AND CIRCUIT NUMBERS UPON COMPLETION OF WORK AND SUBMIT WITH 3 RING BINDER. CONTRACTOR TO PUT ALL IN A 3 RING OR 3 CLIP BINDER AND GIVE TO OWNER AT COMPLETION OF WORK.

E7. WHEREVER TELECOM, DATA, OR CENTRAL ALARM DEVICES ARE INDICATED, PROVIDE EMPTY BOX AND CONDUITS WITH FULL WIRE AS NOTED IN SYMBOL LEGEND. LABEL ALL CABLES AT BOTH ENDS. AT A MINIMUM, USE DIFFERENT COLORS FOR PHONE, DATA, AND ALARM WIRING. SEE SYMBOL LEGEND FOR COMPLETE INFORMATION CONCERNING CABLING TO BE INCLUDED IN THIS CONTRACT.

E8. MOUNT ALL ELECTRICAL DEVICES AT ADA + OTHER ACCESSIBILITY CODE COMPLIANT HEIGHTS. CONTACT ARCHITECT IF REQUIREMENTS ARE NOT CLEAR.

E9. VERIFY WITH OWNER WHETHER ANY DEDICATED CIRCUITS ARE NEEDED FOR LARGE APPLIANCES, COPIERS, OR COMPUTERS BEFORE INSTALLATION. ISOLATE ALL POWER DEVICES WITH MOTOR LOADS FROM CIRCUITS SERVING OFFICE AREAS OR COMPUTERS.

E10. ALL WIRING IN CONDUIT SHALL BE COPPER AND COLOR CODED THW, THWN, OR THHN. CONDUIT SHALL BE EMT OR RIGID CONDUIT AS PER CODE.

E11. OWNER DOES NOT OBJECT TO USE OF NON-METALLIC CABLE (ROMEX, ETC), METALLIC CABLE, OR ARMORED CABLE WHERE ALLOWED BY CODE. SEE NEC 534 FOR NON-METALLIC CABLE RESTRICTIONS. SUPPORT AND PROTECT NON-METALLIC CABLE AS REQUIRED.

E12. ELECTRICAL CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING FOR THE INSTALLATION OF THEIR OWN WORK. DO NOT COMPROMISE THE INTEGRITY OF STRUCTURAL ELEMENTS. SEE GENERAL M-E-P SPECS AND NOTES FOR PRIORITIES OF ELECTRICAL ROUTING RELATED TO OTHER TRADES.

E13. START-UP AND GUARANTEE: CHECK AND ADJUST SYSTEMS FOR PROPER OPERATION. GUARANTEE LABOR AND MATERIAL OF MANUFACTURER'S WARRANTY.

E14. NUMBER NOT USED

E15. PROVIDE HARDWIRED SMOKE ALARMS WITH BATTERY BACK-UP (INTERCONNECTED) AS NOTED ON PLANS WITH STROBE NOTIFICATION. USE CARBON MONOXIDE DETECTOR COMPATIBLE WITH UNITS. NOTE SMOKE ALARMS ARE NOT AN APPROVED NFPA ALARM SYSTEM.

E16. ELECTRICIAN TO PROVIDE MECHANICAL CONTROL / THERMOSTAT WIRING. VERIFY REQUIRED WIRES WITH MECHANICAL CONTRACTOR. SEE MECH. PLANS FOR THERMOSTAT LOCATIONS. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT UNITS AND MAKE FINAL CONNECTIONS. MOUNT THERMOSTAT AT AN ACCESSIBLE HEIGHT (48" AFF), U.N.O.

E17. PROVIDE POWER AS REQUIRED FOR SPECIALTY EQUIPMENT NOTED ON PLANS AND MECHANICAL SYSTEMS.

E18. RUN EXPOSED CONDUITS PARALLEL TO OR PERPENDICULAR TO FRAMING. WHEN RUNNING PARALLEL TO FRAMING, LOCATE CONDUIT ON SIDE OF FRAMING MEMBERS FURTHER FROM VIEW. DO NOT MOUNT CONDUITS TO UNDERSIDE OF TRUSS BOTTOM CHORD.

E19. COORDINATE FINAL JUNCTION BOX LOCATIONS W/ APPLIANCE OR EQUIPMENT MANUFACTURER'S CUT SHEETS. REQUEST FROM GENERAL CONTRACTOR AT LEAST 10 WORKING DAYS BEFORE INFORMATION IS NEEDED.

E20. CONNECT MICROWAVE OVENS, REFRIGERATORS, DISHWASHERS, ETC TO APPLIANCE CIRCUITS.

E21. VERIFY RECESSED POWER PANEL DEPTH(S) FITS WITH PARTITION TYPES BEFORE ORDERING EQUIPMENT. NOTIFY ARCHITECT OF CONFLICTS.

E22. PROVIDE CIRCUIT(S) FOR EXTERIOR SITE LIGHTING, MONUMENTS SIGNS, ETC. NOT ATTACHED TO BUILDING.

E23. VERIFY LOCATION OF AIR CONDITIONER DISCONNECTS WITH GENERAL CONTRACTOR.

E24. POSITIVELY ATTACH LIGHT FIXTURES TO ACOUSTIC CEILING GRID WITH CAPACITY OF FIXTURE WEIGHT APPLIED IN ANY DIRECTION. VERIFY THAT SUPPLEMENTARY HANGERS ARE INSTALLED WITHIN 3" OF EACH FIXTURE CORNER BEFORE PLACING ANY LIGHT INTO CEILING.

**ELECTRICAL SYMBOL LEGEND**

	DUPLEX OUTLET, LEVITON COMMERCIAL GRADE SERIES OR APP. EQUIV. - COLOR SELECTED BY ARCH. USE DECORA SERIES AT COUNTERS.		THERMOSTAT WITH LOCKING COVER. SEE MECHANICAL NOTES. WIRING BY ELECTRICIAN.
	WATER PROOF GFI DUPLEX OUTLET, COMMERCIAL GRADE - COLOR SELECTED BY ARCH.		POWER DISCONNECT. SIZE FOR CONNECTED EQUIPMENT LOAD.
	GFI DUPLEX OUTLET, COMMERCIAL GRADE - COLOR SELECTED BY ARCH.		RECESSED POWER PANEL. VERIFY DEPTH WITH PARTITION BEFORE ORDERING.
	DOUBLE DUPLEX. SEE DUPLEX DESCRIPTION		EXHAUST FAN TO BE PROVIDED AND INSTALLED BY ELECTRICIAN. SEE LIGHT FIXTURE SCHEDULE FOR FAN. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCTING, OUTLETS, AND DAMPERS.
	DEDICATED CIRCUIT. VERIFY LOCATION + LOADS WITH SPECIFIC EQUIPMENT		DUPLEX BOX, COVER PLATE, AND 3/4" CONDUIT WITH FULL WIRE TO TV SPLITTER IN RM 101
	LEVITON DECORA COMMERCIAL GRADE. SINGLE POLE SWITCH OR APP. EQUIV. COLOR SELECTED BY ARCH. SIZE SWITCH WITH LOAD.		
	LEVITON DECORA COMMERCIAL GRADE THREE WAY SWITCH OR APP. EQUIV. SIZE SWITCH WITH LOAD. COLOR SELECTED BY ARCH.		
	LEVITON DECORA MOTION DETECTOR SWITCH WITH MANUAL OVERRIDE. SET TIMER FOR 15 MINUTES.		
	LEVITON CEILING MOUNT MOTION DETECTOR SWITCH WITH 30 MINUTE TIMER		
	JUNCTION BOX		
	RECESSED WALL BOX FOR FUTURE CAMERA. PROVIDE DUPLEX BOX, BLANK COVER PLATE, AND 3/4" CONDUIT WITH FULL WIRE TO ROUTER LOCATION IN RM 101		
	COMBINATION TELEPHONE + COMMUNICATION OUTLET. PROVIDE DOUBLE BOX WITH BLANK COVER PLATE AND TWO CONDUITS WITH CAT 5E CABLES, ONE EACH TO PHONE PANEL AND ROUTER LOCATIONS IN RM 101. SEE ALSO NOTE E1.		

Contract # 97367  
GENERAL NOTES

1. NO GENERAL NOTES ON THIS SHEET.

01.09.09 IDOT Submittal  
issued description

**POWER & COMMUNICATIONS PLAN & NOTES**

**CHESTER WELCOME CENTER**

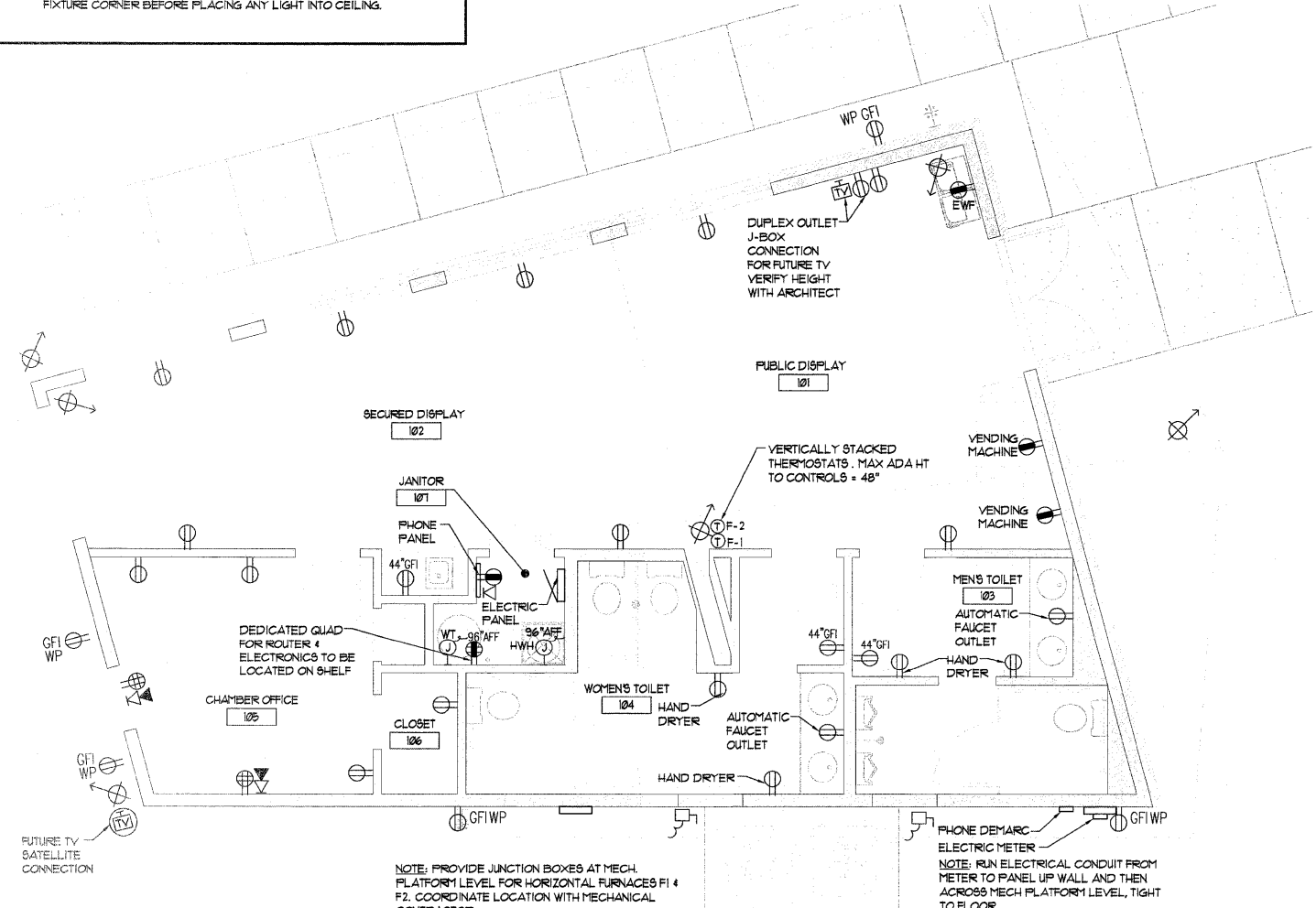
Chester, Illinois

**QUADRANT** design  
architects & planners

135 south main street  
waterloo, illinois 62298  
phone 618.939.0606

job number 20525  
drawn by JE  
checked by MS  
file name  
scale

sheet **E1.1**



**1 POWER & COMMUNICATIONS PLAN**  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH TRUE NORTH

**LIGHT FIXTURE SCHEDULE**  
SUBMIT CUT SHEETS FOR VERIFICATION BEFORE ORDERING FIXTURES. TYPICAL

NOTE: SEE ELECTRICAL SYMBOL LEGEND FOR LIGHT SWITCH INFO

1. NO GENERAL NOTES ON THIS SHEET.

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
A		2x4 RECESSED INDIRECT LAY-IN	HUBBELL LIGHTING-COLUMBIA LIGHTING	STR 2x4	ELECTRONIC BALLAST (2) 28W T5 LAMPS	
B		LINEAR HIGH ABUSE FLUORESCENT SURFACE MOUNT	KENALL-MILLENIUM STRETCH	MLHA126 SERIES	ELECTRONIC BALLAST (2) 28W T5 LAMPS	ROUNDED END CAPS, MATTE WHITE HOUSING FINISH, CLEAR POLYCARBONATE LENS. SEE LIGHTING PLAN FOR ROW LENGTHS
C		LINEAR FLUORESCENT PENDANT	HUBBELL LIGHTING-ALERA LIGHTING	CURY (CV)	ELECTRONIC BALLAST (2) 28W T5 LAMPS	PERFORATED HOUSING, 9C" SHALLOW CURV END CAP, ADJUSTABLE CABLE MOUNT AT EACH END OF ROW. ELECTRONIC BALLAST, LIGHT GREY FINISH RAL T035, SEE LIGHTING PLAN FOR ROW LENGTHS
D		TRACK LIGHTING	HUBBELL LIGHTING-FRESCOLITE ARCHITRAK	AKTGF38	40 W PAR 38 FRONT LOADING, WHITE FINISH	SEE PLAN FOR TRACK LENGTH, WHITE FINISH, PROVIDE 10 ADDITIONAL TRACK HEADS FOR 'ATTIC' STOCK
E		UTILITY FIXTURE	KICHLER	0102NI	(2) 13 W A19 BASE FLUORESCENT	
F		UNDER CABINET LIGHTING	KICHLER	XENON 1058055	(3) LIGHTS, 21.5"	
G		PENDANT CEILING FAN	HUNTER	THE ALLEGRO 28412	NO LAMPS	ADJUSTABLE PENDANT MOUNT, 52", WHITE HOUSING, ALL FAN 3 SPEED DIAL FAN CONTROL
H		EXTERIOR SLOPED CEILING DOWNLIGHT	HUBBELL LIGHTING-FRESCOLITE	SCIBX8	20 W A19 BASE FLUORESCENT	8" TRIM TO BE OPEN SLOPED SPECULAR CLEAR ALZAK REFLECTOR T9C8C
--		CEILING MOUNTED EXIT SIGN	HUBBELL LIGHTING-FRESCOLITE	PLEDS	L.E.D. RED	EXIT SIGN WITH WHITE PLASTIC ENCLOSURE WITH RED LED LIGHTS.
--		COMBINATION EXIT SIGN / EMERGENCY LIGHT	HUBBELL LIGHTING-FRESCOLITE	PEXHL-3-R-EC	L.E.D. RED EXIT & ADJUSTABLE 5.4 WATT INCANDESCENT LAMPHEADS	MOUNT AT 7'-6" AFF UNLESS NOTED OTHERWISE WHITE HOUSING FINISH
EF-1		EXHAUST FAN	BROAN-ULTRA SILENT SERIES	QXTE080	N/A	80 CFM, 3 SONES, 6" DUCTING. SEE NOTE M9 SHEET M1.1
EF-2		EXHAUST FAN	BROAN-ULTRA SILENT SERIES	QXTE150	N/A	150 CFM, 1.4 SONES, 6" DUCTING. SEE NOTE M9 SHEET M1.1
--		EMERGENCY LIGHTING BATTERY WALL PACK WITH WHITE ENCLOSURE	HUBBELL LIGHTING-FRESCOLITE	ELB4	1.2 W STANDARD INCANDESCENT LAMPS WITH REMOTE CAPABILITY, 6 OUTPUT BOLTS	BATTERY PACK TO MATCH EXIT SIGN

CAPITAL LETTERS ADJACENT TO SYMBOLS INDICATE FIXTURE TYPE. NUMBERS ADJACENT TO SYMBOLS INDICATE CIRCUIT NUMBER.

01.09.09 IDOT Submittal

issued description

LIGHTING PLAN & NOTES

CHESTER WELCOME CENTER

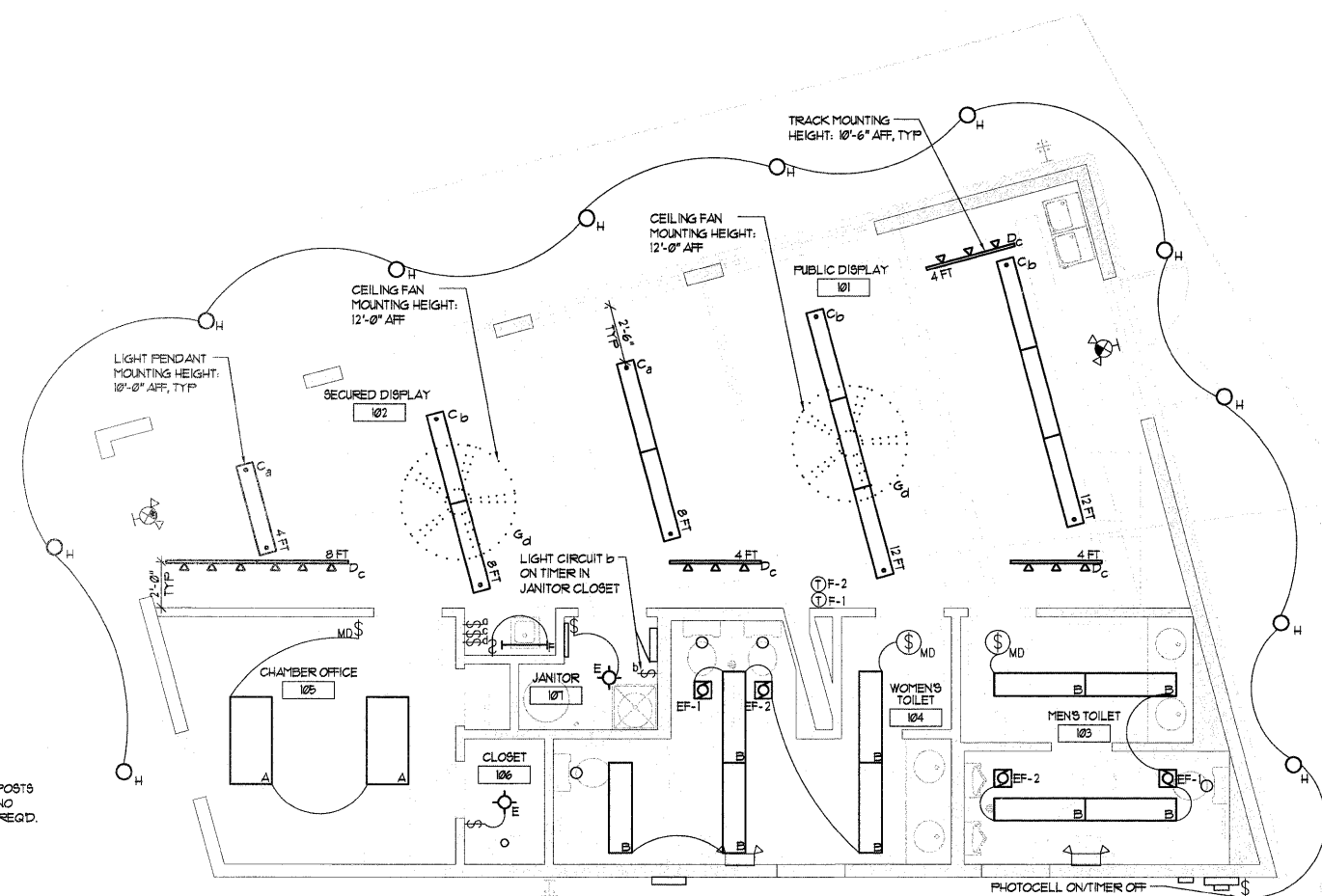
Chester, Illinois

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checked by M6  
file name  
scale

sheet E2.1



NOTE: LIGHTS ON DECK POSTS ARE SOLAR POWERED. NO SWITCHING OR CIRCUITS REQ'D.

PHOTOCELL ON/TIMER OFF FOR EXTERIOR LIGHTING  
**1 LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"  
PROJECT NORTH TRUE NORTH

**PLUMBING NOTES**

**PLUMBING FIXTURE SCHEDULE**

FIXTURE	MFG	MODEL	REMARKS
WC-1 ACCESSIBLE TOILET	TOTO OR APP. EQUIV.	DRAKE CST1445L 1.6GPF LOW CONSUMPTION	ACCESSIBLE ELONGATED WHITE WITH OPEN FRONT RESIN SEAT (TYPE 1). PROVIDE GRAB BARS.
UR-1 URINAL	TOTO OR APP. EQUIV.	UT44TV LOW CONSUMPTION TOP WASHOUT URINAL	ACCESSIBLE URINAL UNIT WITH TOTO T-MUNIC-22 FLUSH VALVE. MOUNT FIRST UNIT @ 1'-5" MAX A.F.F. WITH "JAY R. SMITH" HANGER.
LAV-1 LAVATORY	DUPONT CORIAN	24" DEEP CORIAN COUNTER WITH CORIAN MODEL 810 ADA UNDERMOUNT BOWL WITH FRONT OVERFLOW. COLOR TO BE PRICE GROUP 'D' OR LESS.	POSITION BOWL. ADA LOCATION PER MANUFACTURER'S INSTRUCTION. PROVIDE INTEGRAL BACKSPASH & ADDED SIDESPASH. COUNTER AND BOWL COLOR AND PATTERN TO BE SELECTED. AUTOMATIC SENSER FAUCET + SLOAN 9F-2150 TRANSFORMER POWERED WITH BATTERY BACK UP, CHROME FINISH SCALD PROTECTION ON WATER SUPPLY INSULATE DRAIN & SUPPLY LINES WITH "TRUE BRO HANDILAV". VERIFY DIMENSION IN FIELD BEFORE ORDERING.
S-1 SINGLE BOWL SINK	DUPONT CORIAN	25" DEEP CORIAN COUNTER WITH CORIAN MODEL 804 UNDERMOUNT SINK. COLOR TO BE PRICE GROUP 'D' OR LESS.	PROVIDE INTEGRAL BACKSPASH & ADDED SIDESPASH. COUNTER AND BOWL COLOR AND PATTERN TO BE SELECTED. ADA COMPLIANT DELTA 181 FAUCET WITH CHROME FINISH. SCALD PROTECTION ON WATER SUPPLY INSULATE DRAIN & SUPPLY LINES WITH "TRUE BRO HANDILAV".
MS-1 MOP SINK	FIAT OR APP. EQUIV.	MSB2424	PROVIDE FIAT '830-AA' SERVICE FAUCET, W/ VACUUM BREAKER, INTEGRAL STOPS. ADJUSTABLE WALL BRACE, 3/4" HOSE THREAD AND '832-AA HOSE OR APPROVED EQUIV.
EWC ELEC. WATER COOLER	ELKAY	EZTL8C	TWO STATION WALL MOUNT BARRIER FREE WATER COOLER WITH CONTROLS ON FRONT ONLY.
WCO WALL CLEAN OUT	JOSAM OR APP. EQUIV.	58110 SERIES	ROUND STAINLESS STEEL ACCESS COVER
FCO FLOOR CLEAN OUT	JOSAM OR APP. EQUIV.	56000 SERIES	
FD FLOOR DRAIN	JOSAM OR APP. EQUIV.	30000 SERIES WITH STRAINER	PROVIDE SATIN FINISH BRONZE TOP STRAINER
HWH HOT WATER HEATER	BRADFORD WHITE OR APP. EQUIV.	M-1-20L6D5	ENERGY SAVER ELECTRIC-LOWBOY WITH 19 GAL CAPACITY. 20 GPH RECOVERY AT 90°F RISE. ADD EXPANSION TANK AND TAP VALVE. 240 VOLT ELEMENT WITH 30 AMP BREAKER. PROVIDE DRAINAGE PAN
HB HOSE BIB RECESSED	WOODFORD	B65	ANTI-SIPHON, AUTOMATIC DRAINED FREEZELESS RECESSED WALL HYDRANT. CHROME FINISH.
WT WATER TANK	GOULD HYDRO PRO	#0490-055	65 GALLON DIAPHRAGM PRESSURE TANK WITH STAND #V200

- P1. THESE DRAWINGS ARE SCOPE DOCUMENTS. PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE, CODE-COMPLIANT SYSTEM WITH ALL MATERIALS, LABOR, FITTINGS, AND TRIM. REVIEW DRAWINGS AND NOTIFY ARCHITECT IMMEDIATELY OF AREAS OF CONCERN OR CONFLICT. WHERE OWNER-SUPPLIED FIXTURES ARE NOTED (IF ANY), CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING CONNECTIONS INCLUDING TAIL PIECES AND TRAPS. UNLESS NOTED OTHERWISE, NEW PLUMBING FIXTURES INCLUDING WATER HEATER, ARE PROVIDED BY THE CONTRACTOR.
- P2. CONTRACTOR SHALL VERIFY THE CONDITION AND SPACE FOR THE INSTALLATION OF WORK. MAKE ALL NECESSARY ROUTING, FITTING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE SYSTEM.
- P3. THIS BUILDING, LESS THAN 5,000 SQ. FEET IS NOT REQUIRED TO HAVE A DRINKING FOUNTAIN PER IPC 809.010-0241. IF THE OWNER REQUESTS A DRINKING FOUNTAIN, IT MUST BE PHYSICALLY ACCESSIBLE.
- P4. THE DRINKING FOUNTAIN MUST BE A HIGH/LOW ACCESSIBLE UNIT.
- P5. ALL PLUMBING WORK TO CONFORM TO APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO THE ILLINOIS PLUMBING CODE AND THE ILLINOIS ACCESSIBILITY CODE.
- P6. WATER SUPPLY AND SEWER SYSTEMS ARE PROVIDED BY AND INSTALLATIONS MUST CONFORM WITH THEIR REGULATIONS AND STANDARD PROCEDURES.
- P7. PROVIDE COMPLETE NEW DOMESTIC WATER DISTRIBUTION SYSTEM INSIDE BUILDING INCLUDING HOT WATER PIPING, COLD WATER PIPING, DOMESTIC HOT WATER HEATER INSULATION AND ALL NECESSARY SHUTOFF VALVES. ANY UNDERGROUND WATER SERVICE PIPE SHALL BE TYPE "K" COPPER PER ALL APPLICABLE CODES.
- P8. PROVIDE DIELECTRIC FITTING AND SEPARATION BETWEEN TWO DISSIMILAR METALS.
- P9. PROVIDE SHUT-OFF VALVES TO FACILITATE CONTINUED OCCUPANCY OF THE INDEPENDENT OF PROJECT AREA.
- P10. ALL BRANCH PIPING SHUT-OFF VALVES TO BE 125 LB. BALL TYPE.
- P11. ALL HOT AND COLD WATER LINES TO BE TYPE K (UNDERGROUND) AND TYPE L (EXPOSED) COPPER WITH LEAD-FREE SWEATED FITTINGS. REMOVE ALL (IF ANY) LEAD WATER LINES AND REMOVE ALL EXPOSED OR ACCESSIBLE GALVANIZED WATER SUPPLY LINES.
- P12. ROD EXISTING SEWER LINES TO STREET BEFORE ADDING TO OR REVISING THE SYSTEM. PROVIDE A CLEAN-OUT AT THE BASE OF THE VERTICAL STACK IF ONE DOES NOT EXIST.
- P13. PROVIDE ANTI-SCALD PROTECTION ON ALL FAUCETS.
- P14. PROVIDE AT LEAST ONE MAIN VENT STACK EXTENDING THROUGH ROOF. ROD EXISTING IF NECESSARY TO CREATE PROPERLY FUNCTIONING SYSTEM.
- P15. PROVIDE STAINLESS STEEL GRAB BARS AND FRAMED MIRROR IN EACH TOILET ROOM, INSTALLED PER ILLINOIS ACCESSIBILITY CODE AND ANSI A117.1.
- P16. TOILETS TO BE ACCESSIBLE WITH OPEN FRONT SEATS. LAVATORY FAUCETS TO BE ACCESSIBLE UNITS MOUNTED ON WALL HUNG LAVATORIES, MOUNTED AT ACCESSIBLE HEIGHT. INSULATE WASTE AND SUPPLY LINES BENEATH LAV TO PROTECT LEGS FROM SCALDS OR CUTS WITH "TRUEBRO" UNITS OR EQUAL.
- P17. INSULATE ALL HOT WATER LINES AND HORIZONTAL COLD WATER LINES WITH 1/2" THICK INSULATION. LOCATE ALL WATER LINES WITHIN THE TEMPERED SPACES OF THE BUILDING. DO NOT RUN WATER LINES ABOVE THE BUILDING INSULATION LEVEL.
- P18. PROVIDE BACKFLOW PREVENTERS, AIR CHAMBERS, AIR GAPS, ETC. AS REQUIRED BY ILLINOIS PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.
- P19. ALL GAS PIPING TO BE SCHEDULE 40 BLACK STEEL PIPE WITH MINIMUM OF 12 P816 FITTING. PROVIDE A SHUT-OFF WITHIN 42" OF EACH APPLIANCE.
- P20. TESTING AND GUARANTEE: CONTRACTOR SHALL START-UP, CHECK, AND ADJUST SYSTEMS FOR PROPER OPERATION. TESTING SHALL BE PERFORMED BEFORE APPLYING INSULATION. FLUSH AND/OR STERILIZE WATER PIPING AS REQUIRED BY LOCAL CODE. CONTRACTOR TO GUARANTEE THEIR WORK (BOTH LABOR AND MATERIALS) TO BE FREE OF DEFECTS FOR ONE YEAR.
- P21. CONTRACTOR TO PUT ALL BOOKLETS, OPERATION INSTRUCTIONS, WARRANTY INFO, PARTS, DIAGRAMS, ETC., IN ONE 3 RING BINDER OR 3 CLIP FOLDER AND GIVE TO OWNER AT COMPLETION OF WORK.
- P22. CONTRACTOR TO PROVIDE ALL TOILETS, SINKS, AND OTHER SCHEDULED PLUMBING FIXTURES NOT SPECIFICALLY LABELED AS PROVIDED BY OTHERS. CONTRACTOR TO PROVIDE ALL TRIM, SHUTOFFS, ETC UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS.
- P23. PROVIDE ALL NECESSARY PIPING CONNECTIONS TO THE OWNER FURNISHED FIXTURES OR EQUIPMENT, INCLUDING ALL TAIL PIECES AND TRAPS.
- P24. METAL ROOF PAN LAYOUT TAKES PRECEDENCE OVER PLUMBING VENT LOCATION. COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR.
- P25. PROVIDE WATER CLOSETS WITH FLUSH LEVER ON THE OPEN SIDE OF THE ROOM.
- P26. ALL PUMP PUMP PITS TO HAVE SEALED AIRTIGHT PLASTIC OR POLYCARBONATE LIDS WITH RUBBER COUPLINGS AND A CLEAR VIEW-PORT FOR OBSERVATION.

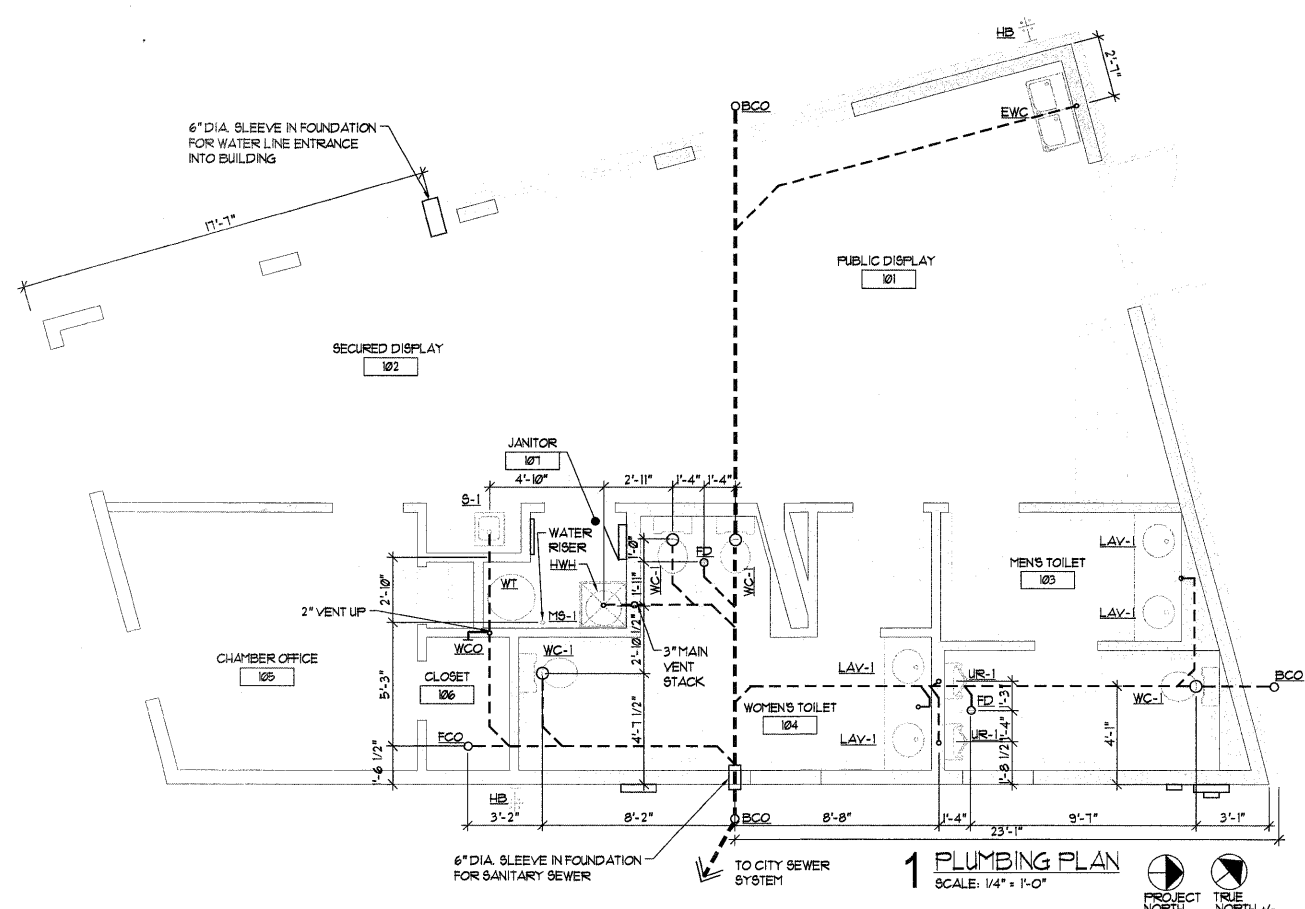
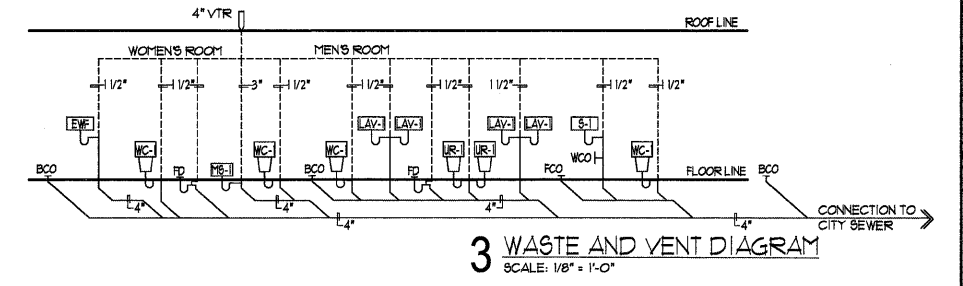
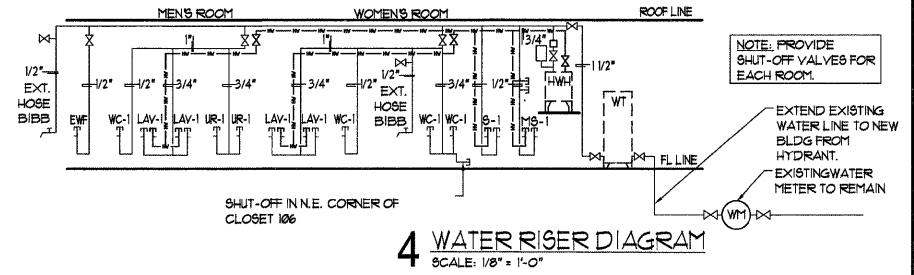
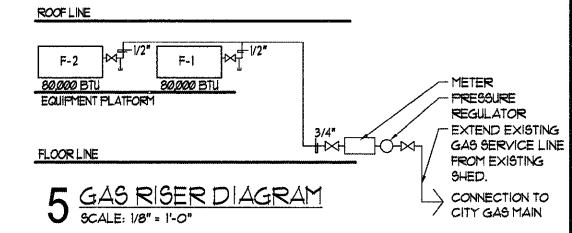
Contract # 97367

**GENERAL NOTES**

1. NO GENERAL NOTES ON THIS SHEET.

NOTE: PROVIDE SHUT-OFF VALVES FOR EACH ROOM.

NOTE: PROVIDE SHUT-OFF, AND DIRT LEG AT EACH APPLIANCE. ADJUST LINE SIZES IF INSTALLED APPLIANCE BTUS VARY FROM THOSE INDICATED.



Issued	description
01.09.09	IDOT Submittal

**PLUMBING PLAN & NOTES**

**CHESTER WELCOME CENTER**  
Chester, Illinois

**QUADRANT design**  
architects & planners

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job number 20525  
drawn by JE  
checked by MS  
file name  
scale

sheet **P1.1**

**STRUCTURAL NOTES**

**DESIGN CODES AND SPECIFICATIONS.**

THE INTERNATIONAL BUILDING CODE 2006 (IBC 2006).  
 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-05  
 MANUAL OF STEEL CONSTRUCTION, ASD 9TH EDITION (AISC)  
 STRUCTURAL WELDING CODE - STEEL (D1.1) - AWS  
 THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS), 2005 EDITION

**DESIGN LOADS**

DECK LIVE LOAD = 65 psf.

**SNOW LOAD**

Pf = 20 psf.  
 Ce = .9  
 I = 1.1  
 Ct = 1

**EARTHQUAKE LOAD (BUILDINGS)**

Seismic Importance Factor = 1.0

Occupancy Category = II

Ss = 0.85

S1 = 0.24

Site Class = D

Seismic Design Category = D

Basic Seismic Force Resisting System

= Wood Shear Walls

Base Shear = 3.7 K

Cs = 0.109

R = 6.0

Analysis procedure = Equivalent

Lateral Force Procedure

**WIND LOAD**

Basic Wind speed = 90 mph (3 SECOND GUST)

Importance Factor: I = 1

Occupancy Category = II

Exposure = C

Internal Pressure Coefficient = 0.18

Component and Cladding Pressures:

Zone 4 = 16.50 psf, -17.99 psf

**STRUCTURAL SPECIFICATIONS**

**GENERAL REQUIREMENTS**

- THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF THE CONTRACTOR DETERMINES OR SUSPECTS THAT ANY DETAILS, MATERIALS, MEANS OR METHODS INCLUDED IN THE STRUCTURAL SPECIFICATIONS OR STRUCTURAL DRAWINGS ARE INCORRECT, NEED TO BE CHANGED, INADEQUATE, UNFEASIBLE OR DETRIMENTAL TO THE COMPLETED CONSTRUCTION. NOTIFICATION SHALL BE MADE AT THE EARLIEST POSSIBLE TIME AND, WHEN POSSIBLE, PRIOR TO ORDERING MATERIALS OR COMMENCING WORK.
- DEVIATION FROM THE STRUCTURAL SPECIFICATIONS AND STRUCTURAL DRAWINGS SHALL NOT BE MADE WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.
- DO NOT SCALE DIMENSIONS FROM STRUCTURAL DRAWINGS, (S SHEETS) WHEN SCALES ARE NOT SHOWN. WHEN SCALES AND DIMENSIONS ARE BOTH SHOWN FOR A DETAIL OR SHEET, DIMENSIONS SHALL TAKE PRECEDENCE WHEN IN CONFLICT WITH SCALE. ANY CONFLICT DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED IN ACCORDANCE WITH NOTE 1. OF THIS SPECIFICATION SECTION.
- HOLES FOR ANCHORS, DOWELS, ETC., SHALL NOT BE DRILLED THROUGH REINFORCING BARS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- NEITHER THE PRESENCE NOR LACK OF CONSTRUCTION OBSERVATION SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLETING WORK IN FULL COMPLIANCE WITH THE STRUCTURAL SPECIFICATION AND STRUCTURAL DRAWINGS.

**STRUCTURAL FOUNDATION AND EXCAVATION SPECIFICATION**

- NET BEARING CAPACITY = 1,800 PSF
- FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL INORGANIC SOIL OR STRUCTURAL FILL OF BEARING CAPACITY CONFIRMED TO EQUAL OR EXCEED THE MINIMUM INDICATED IN NOTE 1. BOTTOMS OF FOOTINGS SHALL ALSO BE A MINIMUM OF TWELVE INCHES BELOW EXISTING NATURAL GRADE. BOTTOMS OF FOOTINGS SHALL BE DEEPENED AS NECESSARY TO SATISFY THESE REQUIREMENTS, OR UNSUITABLE SOIL SHALL BE REMOVED DOWN TO ACCEPTABLE SOIL AND REPLACED WITH LEAN CONCRETE OR CA6 PLACED IN LIFTS NOT TO EXCEED 4" AND COMPACTED TO 95 STANDARD PROCTOR.
- BOTTOMS OF FOUNDATIONS SHALL BE FREE OF LOOSE MATERIAL AND EXCAVATOR CLAW MARKS
- FOUNDATION CONCRETE SHALL BE PLACED BEFORE DETERIORATION OF THE SUBGRADE DUE TO WEATHER, GROUND WATER SEEPAGE, FOOT TRAFFIC, OR CONSTRUCTION OPERATIONS. ANY PORTIONS OF THE SUBGRADE PERMITTED TO DETERIORATE SHALL BE REMOVED AND REPLACED WITH COMPACTED CA6 OR LEAN CONCRETE WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- COMPACTED GRANULAR BACKFILL SHALL BE CA6.
- COMPACTED GRANULAR BACKFILL SHALL BE PLACED IN MAXIMUM LIFTS OF 8".
- COMPACTED GRANULAR BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF TEMPORARY SHORING. TEMPORARY SHORING SHALL BE INSTALLED AS REQUIRED TO PROTECT EXISTING STRUCTURES AND CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL SUBMIT DESIGN DETAILS AND CALCULATIONS SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER FOR TEMPORARY SHORING.

**STRUCTURAL CONCRETE SPECIFICATIONS**

- STRUCTURAL CONCRETE WORK ON THIS PROJECT SHALL BE CONFORM TO ALL REQUIREMENTS OF ACI 301-05, SPECIFICATION FOR STRUCTURAL CONCRETE, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THESE STRUCTURAL CONCRETE SPECIFICATIONS AND/OR STRUCTURAL DRAWINGS.
- THE FOLLOWING INFORMATION IS EITHER MODIFIES OR IS IN ADDITION TO ACI 301-05, ACI 301-05 AND ALL DOCUMENTS REFERENCED BY ACI 301-05 MUST BE REVIEWED FOR COMPLETE REQUIREMENTS FOR STRUCTURAL CONCRETE WORK.
- REFER TO GENERAL REQUIREMENTS OF STRUCTURAL SPECIFICATIONS. GENERAL REQUIREMENTS OF STRUCTURAL SPECIFICATIONS APPLY TO STRUCTURAL CONCRETE.
- STRUCTURAL CONCRETE SHALL BE DEFINED AS ALL CONCRETE CONSTRUCTION DESCRIBED OR DETAILED BY THE STRUCTURAL CONCRETE SPECIFICATIONS AND STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL POSSESS AND BE FAMILIAR WITH ALL REFERENCED SPECIFICATIONS. A COMPLETE SET OF THE STRUCTURAL DRAWINGS AND ACI 301-05 SHALL BE MAINTAINED AT THE PROJECT SITE AND SHALL BE AVAILABLE TO ALL PARTIES (SUBCONTRACTORS, SUPERINTENDENTS, FOREMEN, ETC.) WHOSE UNDERSTANDING OF THE PROJECT REQUIREMENTS MAY AFFECT THE QUALITY OF STRUCTURAL CONCRETE CONSTRUCTION.
- SUBMITTALS
  - THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER THE METHODS AND PRODUCTS THAT WILL BE USED TO PROTECT AND CURE STRUCTURAL CONCRETE.
  - THE CONTRACTOR SHALL SUBMIT THE LOCATIONS, DETAILS AND MATERIALS DATA FOR ALL JOINTS IN STRUCTURAL CONCRETE THAT ARE NOT INCLUDED IN THE STRUCTURAL SPECIFICATIONS AND STRUCTURAL DRAWINGS, AND ARE PROPOSED BY THE CONTRACTOR.
  - SUBMITTALS, AS APPLICABLE IN COMPLIANCE WITH THE FOLLOWING SECTIONS OF ACI 301-05: 1.6.3.2E, 1.6.3.4.1C, 3.1.1.1, 3.1.1.2, 3.1.1.3, 3.3.2.2, 3.3.2.8, 4.1.2.1, 4.1.2.5, 4.1.2.9, 4.2.1.1, 5.1.2.2B, 5.1.2.3A
- REINFORCEMENT
  - MINIMUM SPECIFIED YIELD STRENGTH OF REINFORCING BARS AND WELDED WIRE FABRIC, Fy = 60,000 PSI.
  - WELDED WIRE FABRIC SHALL BE FLAT SHEETS, NOT FROM ROLLS. WELDED WIRE FABRIC SHALL BE SUPPORTED ON CHAIRS THAT LOCATE THE FABRIC AT MID-DEPTH OF SLABS UNLESS SHOWN OTHERWISE. CHAIRS SHALL BE SPACED CLOSE ENOUGH TO PREVENT BENDING AND MAINTAIN FLATNESS OF THE SHEETS. CHAIRS PLACED ON SOIL OR CRUSHED ROCK SHALL HAVE CONTINUOUS RUNNERS, NOT INDIVIDUAL FEET.
  - REINFORCING BARS AND FABRIC SHALL BE FIRMLY TIED IN PLACE AND NOT FLOATED IN UNLESS NOTED OTHERWISE.
  - CARE SHALL BE TAKEN IN THE LOCATION OF REINFORCEMENT TO AVOID CONFLICT WITH DRILLED ANCHORS.
  - REINFORCEMENT SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- CONCRETE REQUIREMENTS ACCORDING TO CLASSIFICATION. STRUCTURAL CONCRETE SHALL BE PROVIDED ACCORDING TO THE CLASSIFICATION INDICATED IN THE STRUCTURAL CONCRETE SCHEDULE. REQUIREMENTS ACCORDING TO CLASS ARE AS FOLLOWS:

	CLASS A	CLASS B
28 DAY COMPRESSIVE STRENGTH, F'c (PSI)	4,000	4,000
MINIMUM CEMENT CONTENT (LB/CY)	540	540
WATER/CEMENTITIOUS RATIO	.45	.45
SLUMP WITHOUT HIGH RANGE WATER REDUCER (INCHES) +/- 1"	3	3
SLUMP WITH HIGH RANGE WATER REDUCER (INCHES) +/- 1 1/2"	5	5
AIR ENTRAINMENT EXPOSURE CONDITION *	MILD	SEVERE

\* PROVIDE AIR ENTRAINMENT IN ACCORDANCE WITH TABLE 4.2.2.4 OF ACI 301-05, REPRINTED.

TABLE 4.2.2.4-AIR CONTENT: OF CONCRETE FOR VARIOUS SIZES OF COARSE AGGREGATE

NOMINAL MAXIMUM SIZE OF AGGREGATE, IN.	AIR CONTENT, PERCENT †		
	SEVERE EXPOSURE	MODERATE EXPOSURE	MILD EXPOSURE
LESS THAN 3/8	9	7	5
3/8	7.5	6	4.5
1/2	7	5.5	4
3/4	6	5	3.5
1	6	4.5	3
1-1/2	5.5	4.5	2.5
2	5	4	2
3	4.5	3.5	1.5
6	4	3	1

† MEASURED IN ACCORDANCE WITH ASTM C 231, C 173, OR C 138 AIR-CONTENT TOLERANCE IS ±1-1/2%  
 Portland Cement Type Requirement per Concrete Class shall be as follows:  
 Class A - Any Type  
 Class B and C: Type II, Type IP (MS), Type IS (MS), Type I (PM)(MS) or Type I (SM)(MS).

- CHLORIDE CONTENT
  - CALCIUM CHLORIDE OR ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE FROM OTHER THAN INCIDENTAL IMPURITIES SHALL NOT BE USED.
  - THE MAXIMUM WATER-SOLUBLE ION CONTENT, EXPRESSED AS A PERCENT OF THE CEMENT, CONTRIBUTED FROM ALL INGREDIENTS OF THE CONCRETE MIX, INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND ADMIXTURES, SHALL NOT EXCEED 0.10%.
- WATER ADDED AT JOB SITE
  - WATER MAY BE ADDED TO STRUCTURAL CONCRETE AT THE JOB SITE ONLY IN THE AMOUNT INDICATED ON THE BATCH TICKET.
  - IF NO AMOUNT OF JOB SITE WATER IS INDICATED ON THE BATCH TICKET NO WATER SHALL BE ADDED AT THE JOB SITE.
  - WHEN WATER IS ADDED AT THE JOB SITE, IT SHALL BE DONE SO AT THE CONTRACTORS RISK. A SLUMP TEST SHALL BE TAKEN AFTER WATER HAS BEEN ADDED. IF THE SLUMP EXCEEDS THE LIMIT SET BY THE STRUCTURAL CONCRETE SPECIFICATION THE CONCRETE SHALL NOT BE USED.
- STRUCTURAL CONCRETE SHALL BE VIBRATED TO ENSURE CONSOLIDATION. VIBRATION SHALL NOT BE USED TO MOVE CONCRETE. CARE SHALL BE TAKEN TO PREVENT SEGREGATION AND LOSS OF AIR ENTRAINMENT CAUSED BY EXCESSIVE VIBRATION.
- FINISHING UNFORMED SURFACES
  - DO NOT SPRINKLE WATER ONTO CONCRETE SURFACES.
  - DO NOT WORK BLEED WATER INTO CONCRETE SURFACES. WAIT UNTIL BLEED WATER HAS DISAPPEARED OR, IF BLEED WATER IS PRESENT WHEN FINISHING MUST BEGIN, REMOVE BLEED WATER BY BLOTTING.
  - DO NOT SPRINKLE DRYERS SUCH AS SAND/CEMENT MIXTURES ONTO CONCRETE SURFACE.
  - DO NOT USE STEEL TROWELS UNLESS INDICATED IN THE STRUCTURAL CONCRETE SCHEDULE FOR A SMOOTH FINISH.
- PROTECTION AND CURING
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF PROBLEMS RESULTING FROM INADEQUATE PROTECTION AND CURING OF CONCRETE.
  - THE CONTRACTOR SHALL DETERMINE WHEN PROTECTION IS NECESSARY AND WHAT METHODS AND MATERIALS WILL BE USED. PROTECTION SHALL BE IN COMPLIANCE WITH SECTION 5.3.6.5 OF ACI 301-05.
  - CURING SHALL COMMENCE AS SOON AS NECESSARY TO PRESERVE MOISTURE AND SHALL BE CONTINUOUSLY MAINTAINED FOR A MINIMUM OF SEVEN DAYS. CURING SHALL BE IN ACCORDANCE WITH SECTION 5.3.6.1 OF ACI 301-05.
- BATCH TICKET INFORMATION - THE CONCRETE SUPPLIER SHALL INDICATE ON EACH BATCH TICKET THE AMOUNT OF WATER THAT MAY BE ADDED AT THE JOB SITE, PER CUBIC YARD OF CONCRETE, WHICH WILL NOT RESULT IN A WATER/CEMENTITIOUS RATIO IN EXCESS OF THAT SPECIFIED. THIS SHALL BE IN ADDITION TO THE INFORMATION REQUIRED BY ASTM C94/C 94M-99.

STRUCTURAL MEMBER OR COMPONENT	CONCRETE CLASS	UNFORMED SURFACE FINISH
BUILDING FOOTINGS	B	BOARD STRIKE OFF
INTERIOR SLABS ON GRADE	A	STEEL TROWEL FINISH
EXTERIOR WALLS	B	BROOM FINISH

**STRUCTURAL STEEL SPECIFICATIONS**

- STRUCTURAL STEEL WORK ON THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF PART 5 SPECIFICATIONS AND CODES OF THE MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, NINTH EDITION, AND TO THESE STRUCTURAL STEEL SPECIFICATIONS AND STRUCTURAL DRAWINGS.
- HOT ROLLED STRUCTURAL STEEL, PLATES AND BARS SHALL BE ASTM A572 GRADE 50 OR ASTM A992, UNLESS SHOWN OTHERWISE.
- HOT ROLLED STRUCTURAL STEEL ANGLES SHALL BE ASTM A36.
- CAST IN PLACE ANCHOR BOLTS SHALL BE ASTM A307 UNLESS NOTED OTHERWISE.
- WELDING SHALL BE DONE WITH E70XX ELECTRODES.
- INDICATED STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED PER ALL REQUIREMENTS OF ASTM A123.
- INDICATED STRUCTURAL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ALL REQUIREMENTS OF ASTM A153.

**STRUCTURAL WOOD FRAMING SPECIFICATIONS**

- STRUCTURAL FRAMING LUMBER SHALL BE NO. 2 S-P-F OR BETTER UNLESS OTHERWISE INDICATED IN THIS SPECIFICATION, OR IN THE SCHEDULES AND DETAILS ON THESE DRAWINGS. SHORT INDIVIDUAL PIECES OF BLOCKING SHALL BE FREE OF SPLITS, KNOTS, TWISTS, AND WARPS WHICH REDUCE THE STRENGTH OF MECHANICAL CONNECTIONS.
- FRAMING ANCHORS SHALL BE FASTENED WITH THE TOTAL NUMBER OF FASTENERS WHICH THE ANCHOR CAN RECEIVE. THE TYPE AND SIZE OF FASTENERS SHALL BE AS REQUIRED BY THE MANUFACTURER. THE ANCHORS SHALL BE PLACED AND ALIGNED SO THAT ALL FASTENERS ARE FULLY EMBEDDED AND DO NOT CONFLICT WITH OTHER FASTENERS OR COMPONENTS. ANCHORS SHALL NOT BE INSTALLED AND THE ENGINEER SHALL BE CONTACTED IF PHYSICAL CONSTRAINTS PREVENT THE PROPER INSTALLATION OF ANCHORS. POWER NAILING OF FRAMING ANCHORS WILL BE PERMITTED ONLY WHEN THE NAIL TYPE AND DRIVING METHOD BOTH MEET THE REQUIREMENTS OF THE FRAMING ANCHOR MANUFACTURER.
- THE MINIMUM HORIZONTAL OR VERTICAL DIMENSIONS OF ANY STRUCTURAL WOOD PANEL SHALL NOT BE LESS THAN 2'-0".
- SHEATHING NAILS WHICH ARE NOT FULLY EMBEDDED INTO FRAMING SHALL BE REMEDIATED AS AND IF DEEMED NECESSARY BY THE ENGINEER. ADDITIONAL COMPENSATION WILL NOT BE PAID AND THE REMEDIATION SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE.

**PLATED WOOD TRUSS SPECIFICATION**

- THE TRUSS FABRICATOR SHALL PROVIDE A FRAMING PLAN, A SHOP DRAWING FOR EACH TRUSS TYPE AND DESIGN CALCULATIONS. THE FRAMING PLAN, EACH TRUSS SHOP DRAWING AND DESIGN CALCULATIONS SHALL BE SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- THE TRUSS SHOP DRAWINGS SHALL INDICATE THE LOCATION, SIZE, AND FASTENING DETAILS OF PERMANENT LATERAL BRACING OF TRUSS MEMBERS.
- IF TRUSSES ARE NOT TO BE IMMEDIATELY INSTALLED, THEY SHALL BE STORED IN A HORIZONTAL OR VERTICAL POSITION AS RECOMMENDED BY THE TRUSS PLATE MANUFACTURER. THEY SHALL NOT BE IN CONTACT WITH THE EARTH AND SHALL BE COVERED TO PREVENT CONTACT WITH WATER, SNOW OR ICE.
- CONTRACTOR AND TRUSS FABRICATOR SHALL FIELD MEASURE AND COORDINATE TRUSS DIMENSIONS.

**WOOD DECK SPECIFICATION**

- ALL SIMPSON'S SDS SCREWS SHALL HAVE A DOUBLE BARRIER COATING.
- WOOD SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) ACQ NOT LESS THAN 0.25 PCF OR MORE THAN 0.30 PCF PRESERVATIVE RETENTION. ACQ PRESERVATIVE TREATMENT SHALL NOT CONTAIN AMMONIA.
- SUBMITTALS - THE CONTRACTOR SHALL SUBMIT THE PRESSURE TREATED LUMBER MANUFACTURERS SPECIFICATIONS. THE SPECIFICATIONS SHALL INCLUDE THE AMOUNT OF PRESERVATIVE RETENTION, A LIST OF ALL CHEMICALS, AND EXPLICIT STATEMENT THAT AMMONIA IS NOT USED.

**THOUVENOT, WADE & MOERCHEN, INC.**  
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**STRUCTURAL NOTES AND SPECIFICATIONS**  
 PROJECT: **CHESTER WELCOME CENTER**

REV	DATE	DESCRIPTION
△	12/16/08	REVISIONS PER IDOT COMMENTS
△		
△		

DRAWN BY: DJH	SHEET
DESIGNED BY: DJH	<b>S1</b>
CHECKED BY: KPC	OF 9 SHEETS
APPROVED BY: KPC	PROJECT DESCRIPTION
PROJECT NUMBER: 050421	

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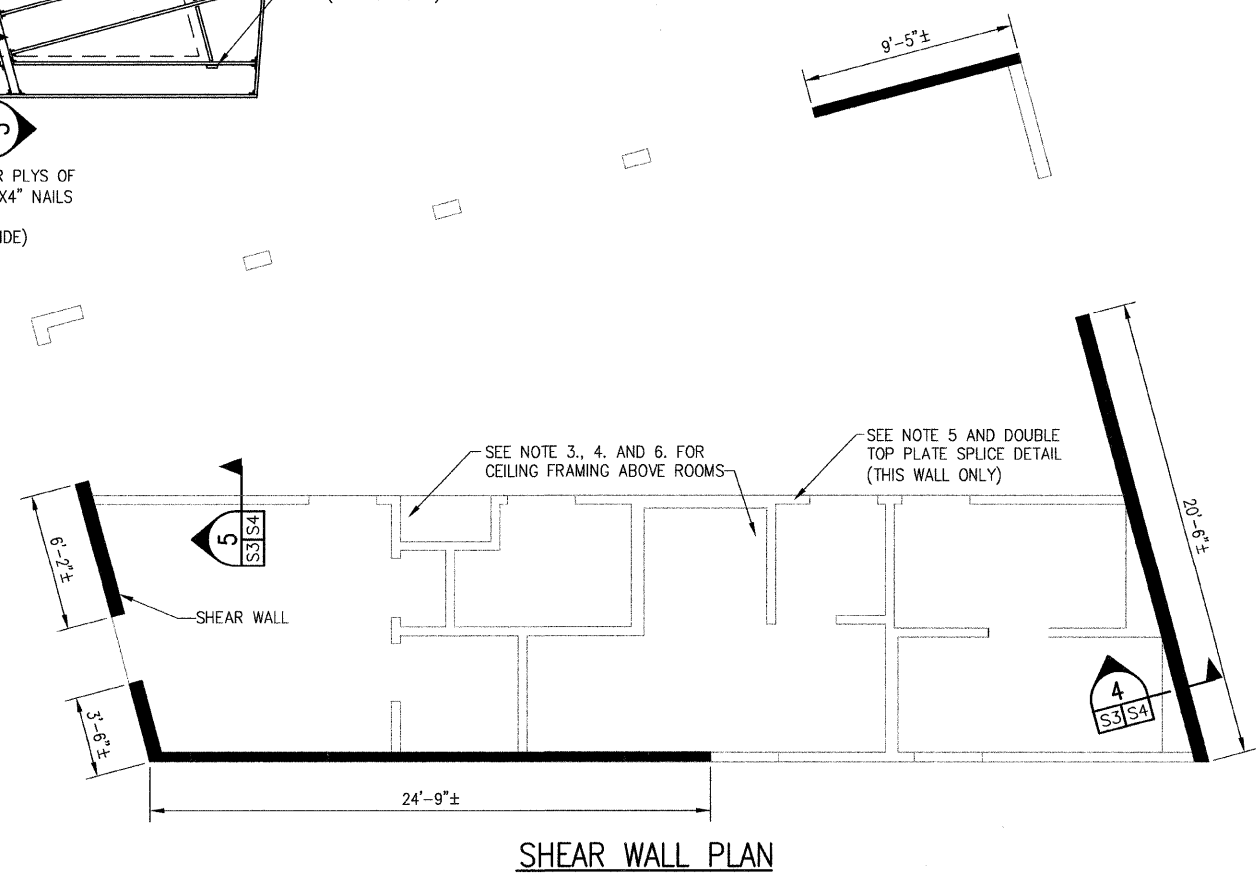
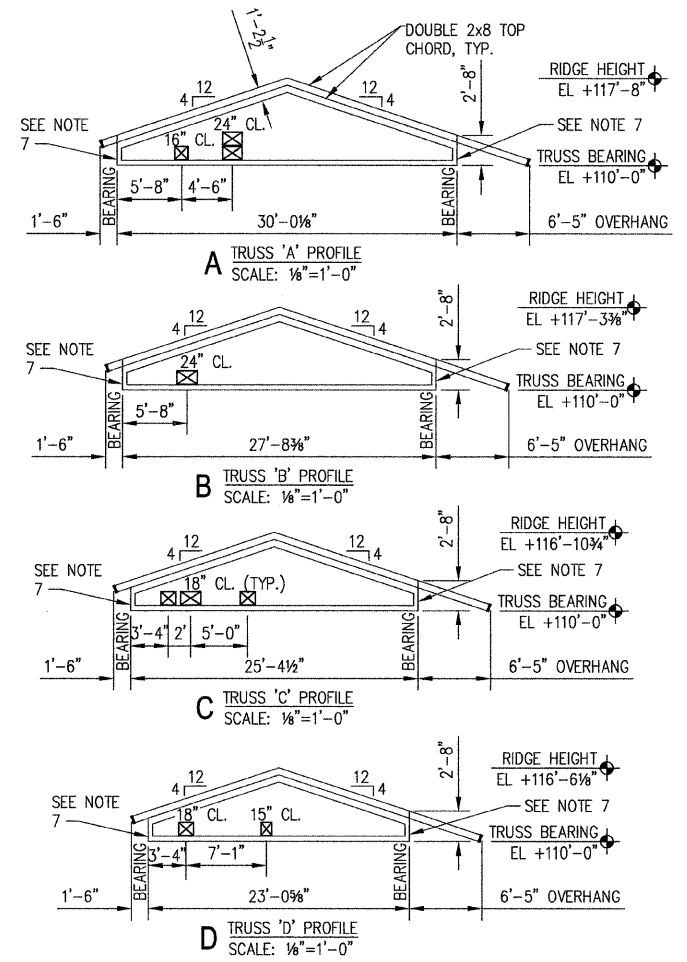
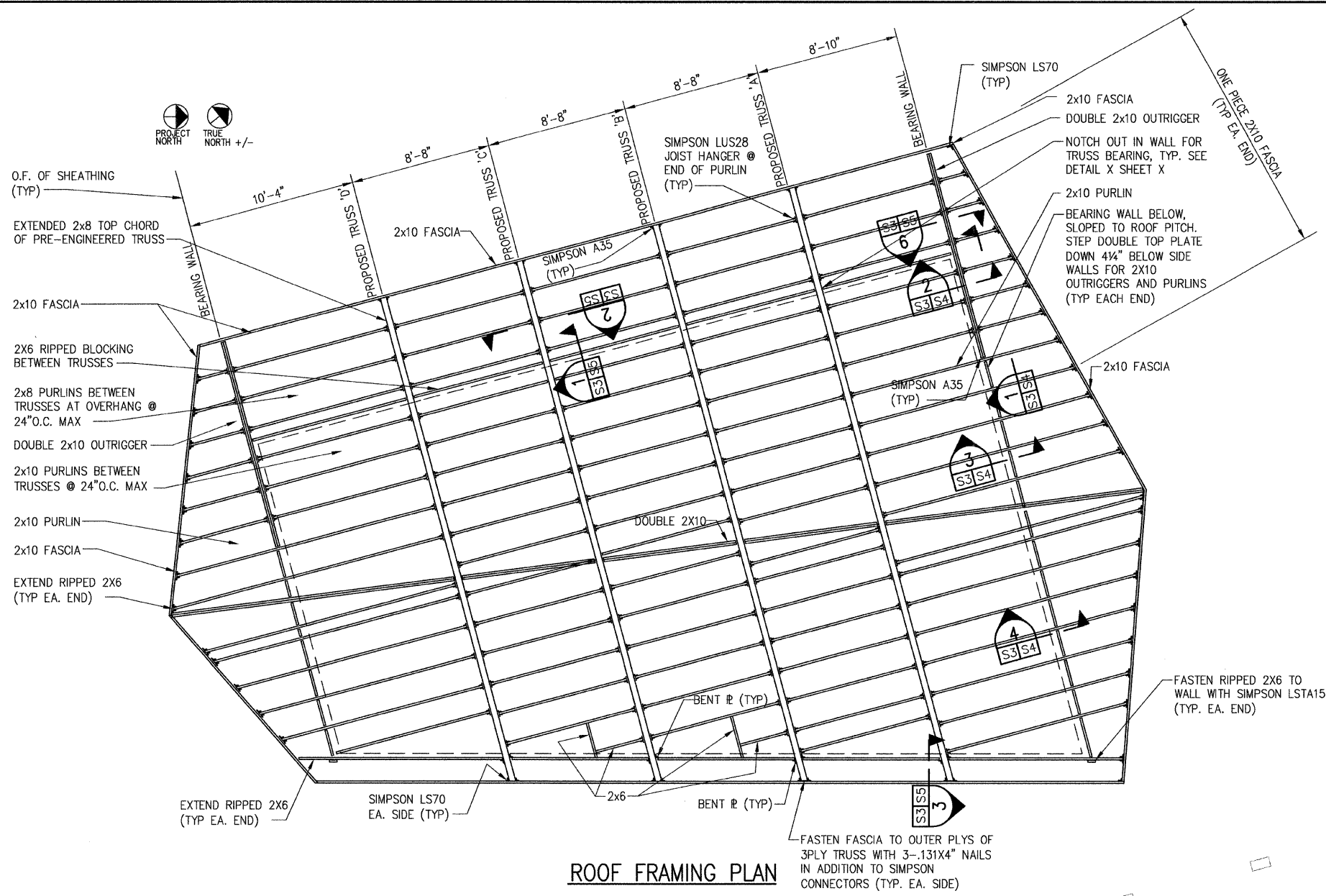
**ROOF FRAMING PLAN AND SHEAR WALL PLAN**

TITLE: \_\_\_\_\_  
PROJECT: **CHESTER WELCOME CENTER**

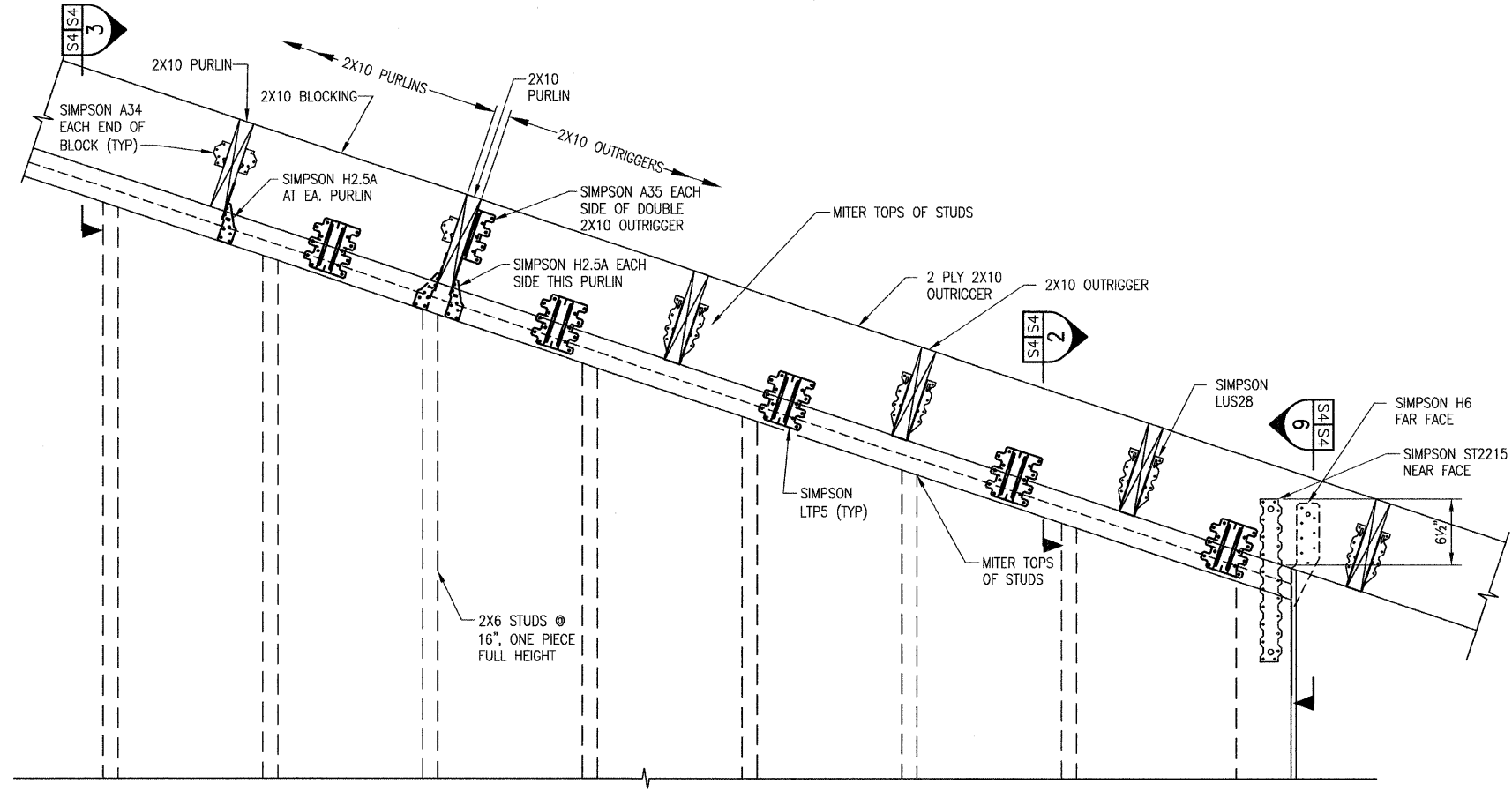
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APPROVED BY: KPC	PROJECT DESCRIPTION
PROJECT NUMBER: T33050421	PROJECT DESCRIPTION

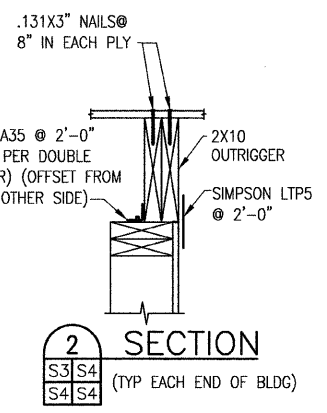
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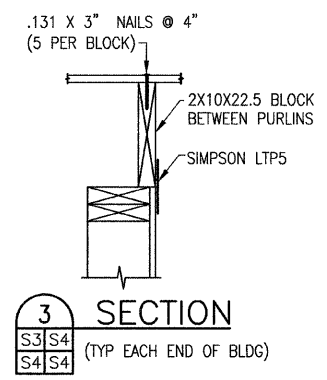
- NOTES:**
- SEE SHEET A2.3 FOR PROPOSED TRUSS TYPES A,B,C&D.
  - TRUSSES TO BE 3 PLY.
  - FRAME CEILING WITH 2X6 NO. 2 SPF BETWEEN TRUSSES. FRAME TO TRUSSES AT EACH END WITH SIMPSON LUS26.
  - INSTALL ALL WOOD STRUCTURAL PANEL SHEATHING BEFORE FRAMING WALLS EXCEPT AS STIPULATED IN NOTE 5.
  - FRAME THIS WALL BEFORE INSTALLING WOOD STRUCTURAL PANEL SHEATHING ON CEILING.
  - ALL CEILING STRUCTURAL WOOD PANEL EDGES THAT ARE NOT ATTACHED TO FRAMING OR NAILERS SHALL BE BACKED WITH 2X4 WOOD BLOCKING AND FASTENED WITH .131X2 1/2" NAILS.
  - END POSTS OF TRUSSES SHALL BE 2X6 MIN.



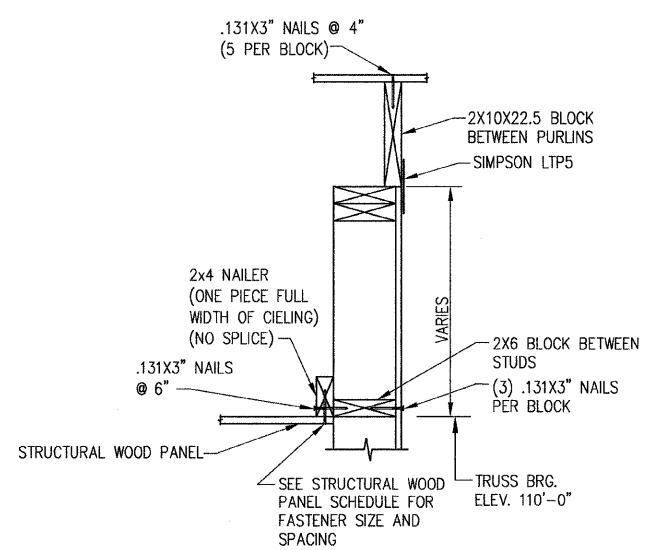
**1 SECTION**  
S3/S4 (TYP EACH END OF BLDG)



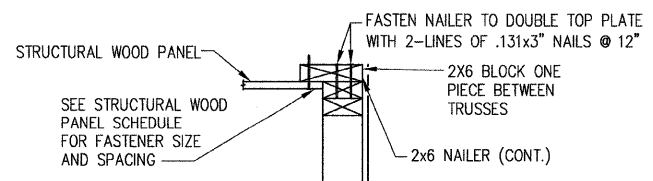
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S3/S4 (TYP EACH END OF BLDG)



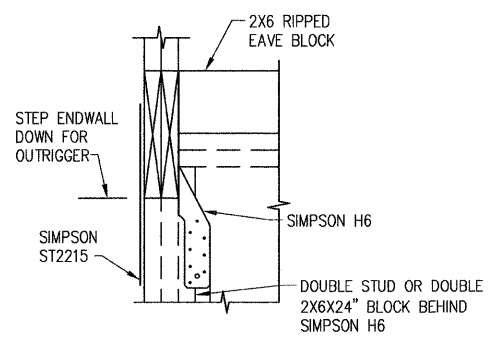
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S3/S4 (TYP EACH END OF BLDG)



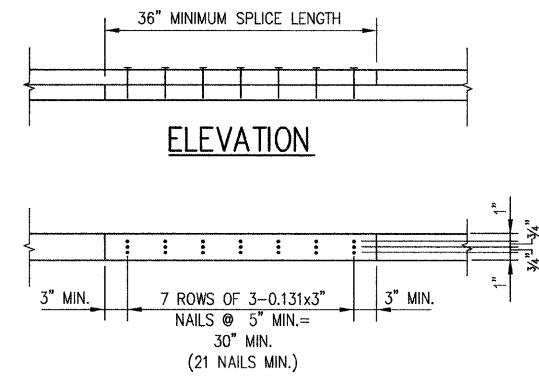
**4 SECTION**  
S3/S4 (TYP EACH END OF BLDG)  
(SEE SECTION 1 FOR ADDITIONAL INFORMATION)



**5 SECTION**  
S3/S4



**6 SECTION**  
S3/S4



**DOUBLE TOP PLATE SPLICE DETAIL**  
(MINIMUM CONDITION SHOWN, SPLICE MAY BE LONGER WITH LONGER NAIL SPACINGS WITH TWO LINES OF NAILS THAT TOTAL 21 NAILS WITHIN SPLICE LENGTH)

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**WALL DETAILS**

TITLE: \_\_\_\_\_  
PROJECT: **CHESTER WELCOME CENTER**

REV	DATE	DESCRIPTION
△	12/16/08	REVISIONS PER IDOT COMMENTS
△		
△		

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DESIGNED BY: DJH	<b>S4</b>
CHECKED BY: KPC	OF 9 SHEETS
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PROJECT NUMBER: T33050421	

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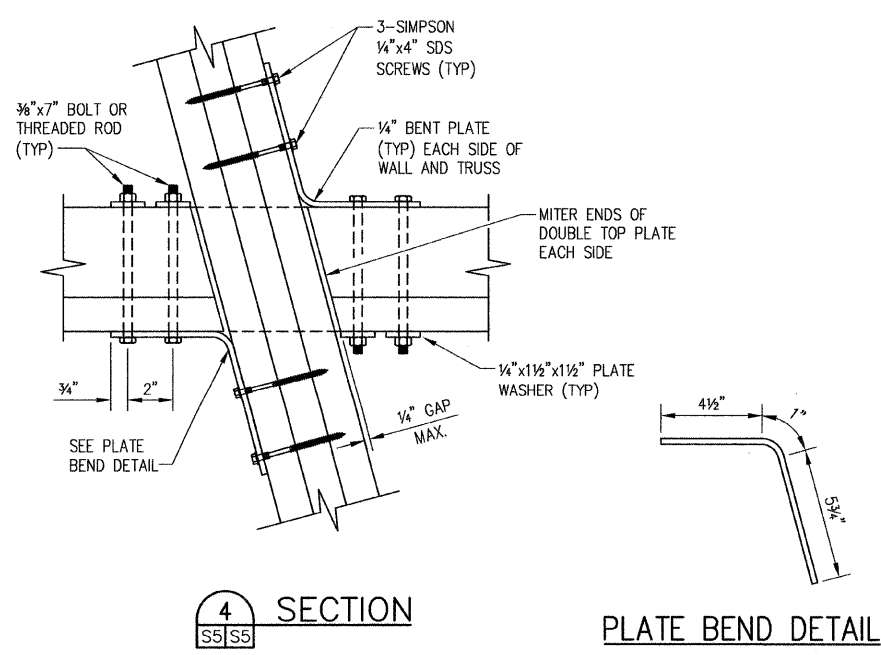
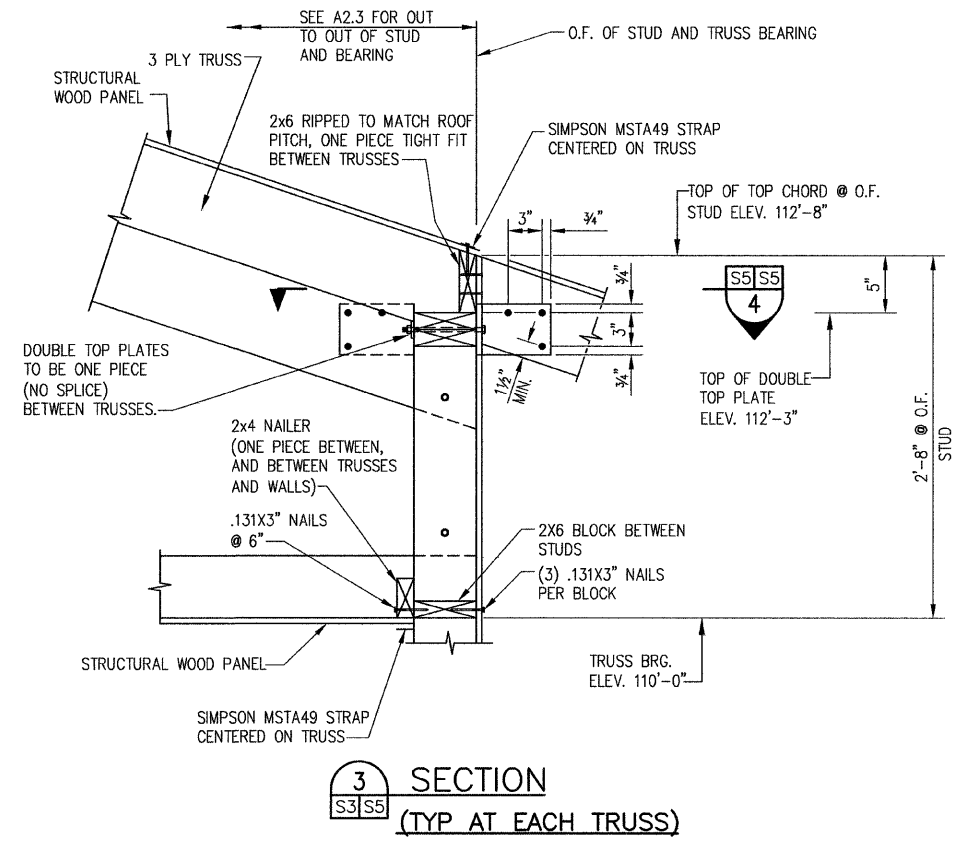
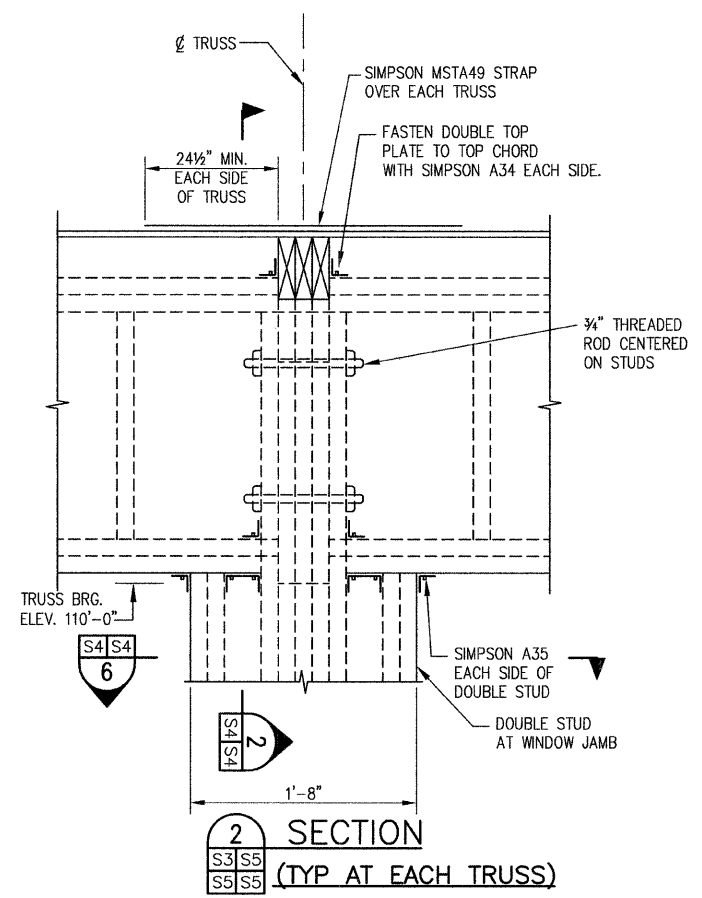
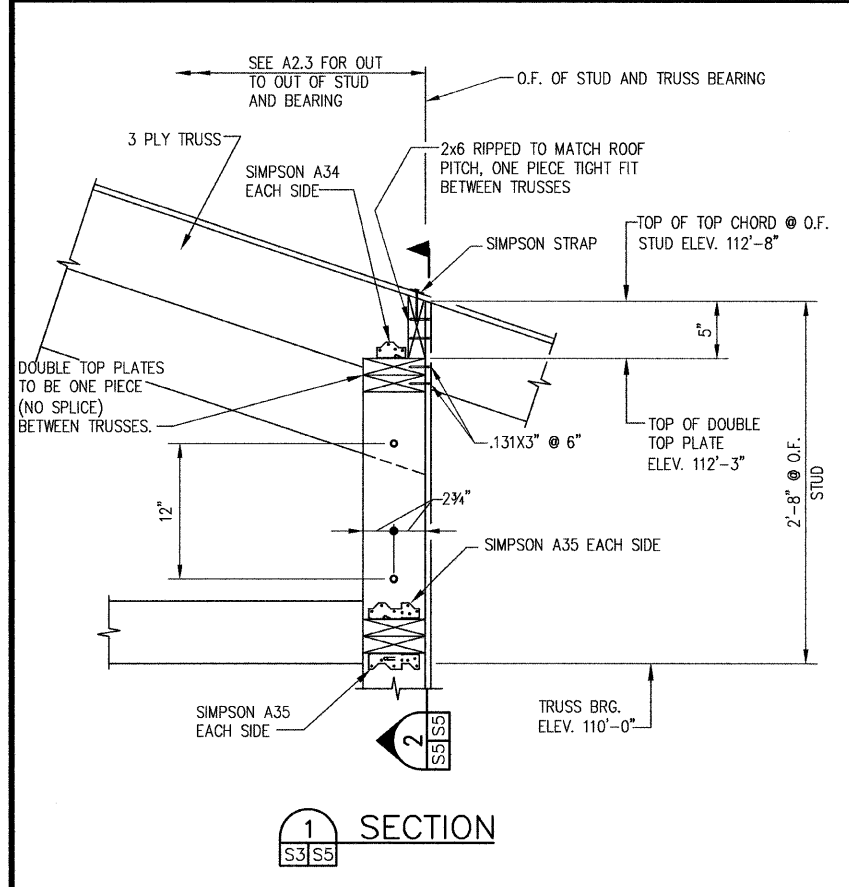
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**FRAMING DETAILS**  
PROJECT: **CHESTER WELCOME CENTER**

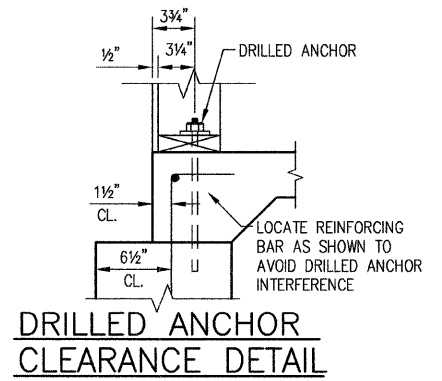
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APPROVED BY: KPC	PROJECT NUMBER: T33050421

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**PLATE BEND DETAIL**  
NOTE: DIMENSIONS ARE ALONG INSIDE FACE



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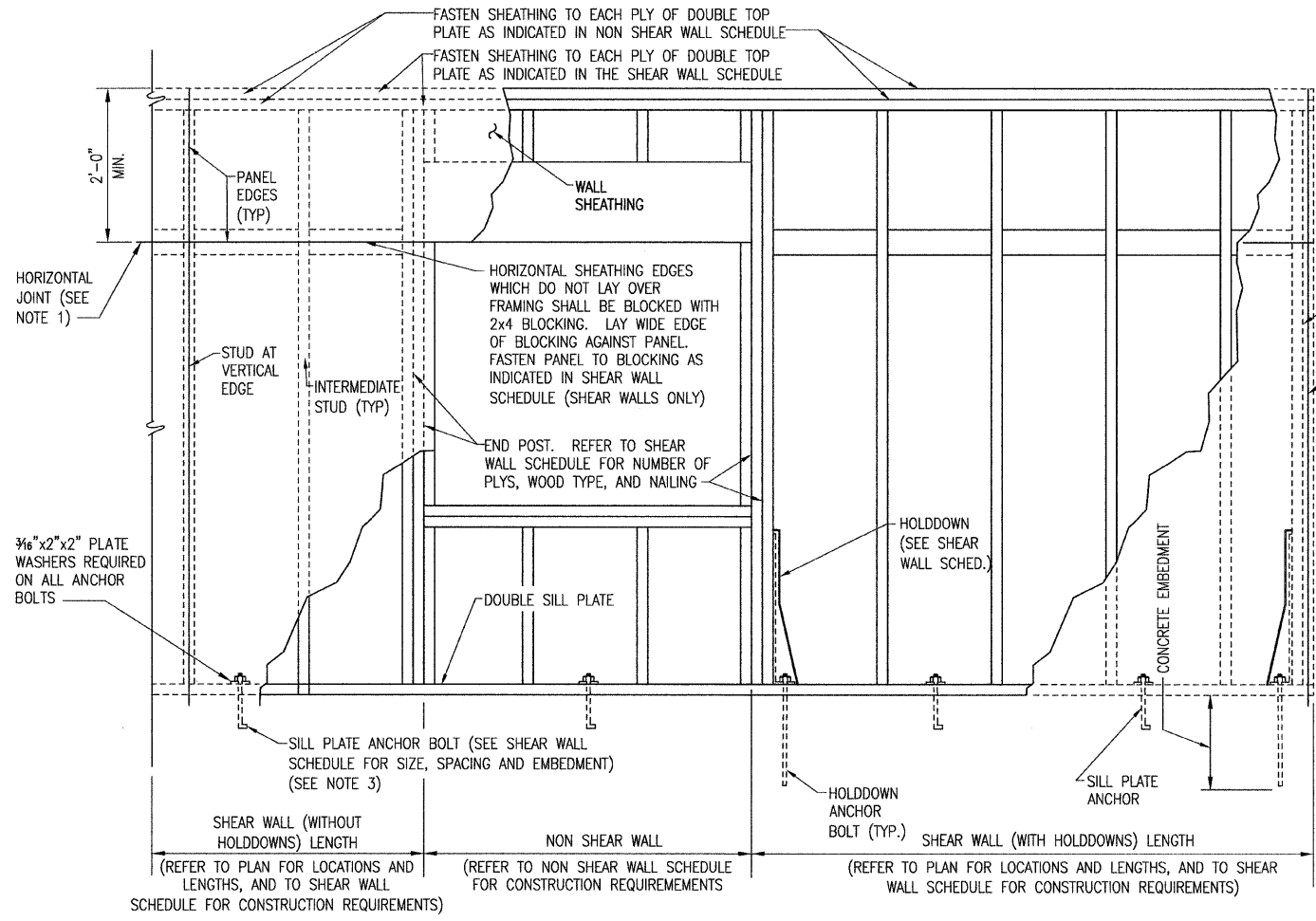
TITLE:  
SHEAR WALL DETAILS

PROJECT:  
CHESTER WELCOME CENTER

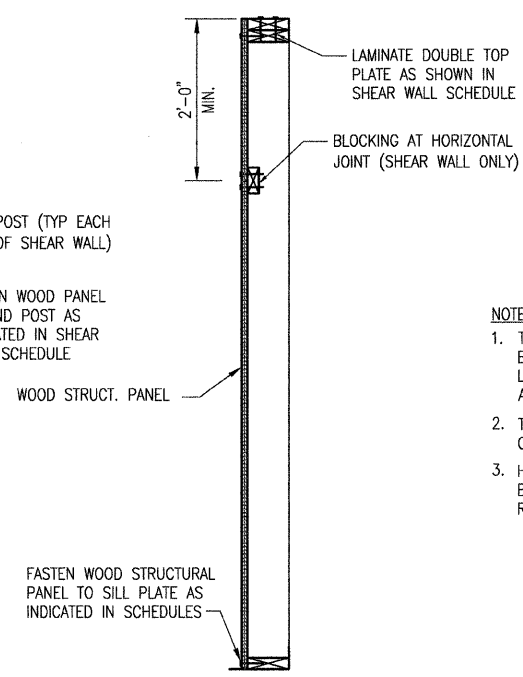
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GENERIC PARTIAL WALL ELEVATION



TYP. EXT. WALL SECTION FOR SHEAR & NONSHEAR WALLS

- NOTES:
1. THE INDICATED HORIZONTAL JOINTS ARE NOT REQUIRED, AND MAY BE ELIMINATED BY FULL HEIGHT PANELS WHERE PRACTICAL. CONTRACTOR LOCATE PANEL JOINTS, SUBJECT TO LIMITATIONS SHOWN ON DETAILS AND AS NOTED ON SHEAR WALL SCHEDULE AND NONSHEAR WALL SCHEDULE.
  2. THIS IS A GENERIC SKETCH INTENDED TO ILLUSTRATE THE TYPICAL DETAILS OF WALL CONSTRUCTION AND IS NOT A DETAIL OF ANY PARTICULAR WALL.
  3. HOLDDOWN ANCHOR BOLTS SHALL NOT BE CONSIDERED AS SILL PLATE ANCHOR BOLTS. SILL PLATE ANCHOR BOLTS WILL BE SPACED AS SHOWN WITHOUT REGARD TO THE PRESENCE OF HOLDDOWN ANCHOR BOLTS.

SHEAR WALL SCHEDULE															Holddown			Sill Plate Anchor Bolts (Note 6)		
Wood Structural Panels (note 8)		Studs		End Posts			Bottom Plate	Wood Structural Panel Nail Sizes and Spacings				Other Nail Sizes & Spacing			Manf. and Model	Anchor Bolt Size	Conc. Embed. (Note 9)	Size	Max. Spacing	Conc. Embed.
Minimum Thickness	Min. Grade and Span Rating	Size	Spacing	Lumber Grade and Species	Lumber Size	Number of Pys (Note 3)	Lumber Grade and Species	Lumber Grade and Species	To: Double Top Plate, Bottom Plate, Horizontal Blocking, End Posts (Note 2) and Studs @ Vertical Edges	To: Intermediate Studs	Double Top Plate Ply to Ply	Bottom Plate to Floor Sheathing	End Post Ply to Ply							
15/32"	APA Rated Sheathing 24/0 Exposure 1	2x6	16"	No.2 S-P-F	2x6	2	Stud S-P-F	No. 2 Pressure Treated S.P.	.131"x3" @ 4"	.131"x3" @ 12"	2 lines of .131"x3" @ 8" (Note 4)	N.A.	(Note 3)	Simpson HTT22	3/4"	9"	1/2"	32"	(Note 6)	

Shear Wall Schedule Notes:

- Size, grade and species of double top plate shall match studs.
- Where 2 ply end posts are used, the panels shall be fastened to each ply with one line of nails at double the spacing shown in the Shear Wall Schedule.
- Laminate pys of 2 ply end posts to each other with 1 line of .131"x3" @ 6".
- Laminate pys of double top plate to each other with 2 lines of nails sized and spaced as shown in the Shear Wall Schedule.
- In addition to the maximum sill plate anchor bolt spacing, there shall be a minimum of 2 sill plate anchor bolts per piece of plate.
- Minimum concrete embedment for sill plate anchor bolts shall be 7" for cast -in-place anchor bolts and 5-1/2" for expansion anchor bolts.
- The minimum horizontal or vertical dimension of any individual sheathing panel within a wall shall not be less than 2'-0" without permission of the structural engineer.
- Review structural details for possible additional nailing requirements.
- The hold down anchor bolts shall be drilled through the hold down and fastened with an adhesive. Care shall be taken to prepare the hole and install the anchor as required by the adhesive manufacturer.

NONSHEAR EXTERIOR WALL SCHEDULE														
Wall Description	Wood Structural Panels (note 9)		Studs		Sill Plate	Nail sizes and spacings						Sill Plate Anchor Bolts (Note 4)		
	Minimum Thickness	Grade and Span Rating	Size	Spacing	Lumber Grade and Species	Lumber Grade and Species	Wall sheathing to :				Double Top Plate Ply to Ply	Bottom Plate to Floor Sheathing	Diameter & Spacing	Conc. Embed.
							Double Top Plate (Note 2)	Sill Plates, Sole Plates, and Studs @ Vertical Edges	Intermediate Studs	Rim Board				
Exterior Walls other than Shear Walls	15/32"	APA Rated Sheathing 24/0 Exposure 1	2x6	16"	No. 2 S-P-F	No. 2 Pressure Treated S.P.	.131"x3" @ 6"	.131"x3" @ 6"	.131"x3" @ 12"	.131"x3" @ 6"	(Note 3)	.131"x3" @ 6"	1/2" A.B. @ 6" -0" max.	(Note 5)

Nonshear Exterior Wall Schedule Notes:

- Size, grade and species of double top plate and sole plate shall match studs.
- Where the wood structural panels lap over the top ply of the double top plate by 3/4" or more, the panels shall be fastened to each ply with one line of nails at double the spacing shown in the Nonshear Wall Schedule.
- Laminate pys of double top plate to each other with 1 line of .131"x3" @ 12", except at the top plate splice, where the two pys will be nailed as shown in the top plate splice detail.
- There shall be a minimum of 2 sill plate anchor bolts per section of plate and anchor bolts shall be placed a minimum of 12" from each end of each section of plate.
- Minimum concrete embedment for sill plate anchor bolts shall be 7" for cast -in-place anchor bolts and 5-1/2" for expansion anchor bolts.
- The minimum horizontal or vertical dimension of any individual sheathing panel within a wall shall not be less than 2' - 0" without permission of the structural engineer.

ROOF AND CEILING STRUCTURAL WOOD PANEL SCHEDULE					
Location	Minimum Thickness	Grade and Span Rating	Nail sizes and spacings (note 1.)		
			Diaphragm Boundry Nailing	Rafters, Trusses, Headers Nailers, and Blocking @ Edges	Intermediate Framing
Roof	19/32 " or 5/8"	APA Rated Sheathing 24/0 Exposure 1	.131"x3" @ 6"	.131"x3" @ 6"	.131"x3" @ 12"
Ceiling	15/32 "	APA Rated Sheathing 24/0 Exposure 1	.131"x3" @ 6"	.131"x3" @ 6"	.131"x3" @ 12"

Roof Sheathing Schedule Notes:

- Refer to structural details for possible additional nailing requirements.
- The minimum horizontal or vertical dimension of any individual sheathing panel shall not be less than 2'-0" without permission of the structural engineer.

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SHEAR WALL SCHEDULE	PROJECT: CHESTER WELCOME CENTER
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DRAWN BY: DJH	SHEET
DESIGNED BY: DJH	S7
CHECKED BY: KPC	OF 9 SHEETS
APPROVED BY: KPC	PROJECT DESCRIPTION
PROJECT NUMBER: T33050421	

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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-011220
ILLINOIS PROFESSIONAL ENGINEERING CORP.	62-053370
PROFESSIONAL STRUCTURAL ENGR. CORP.	61-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

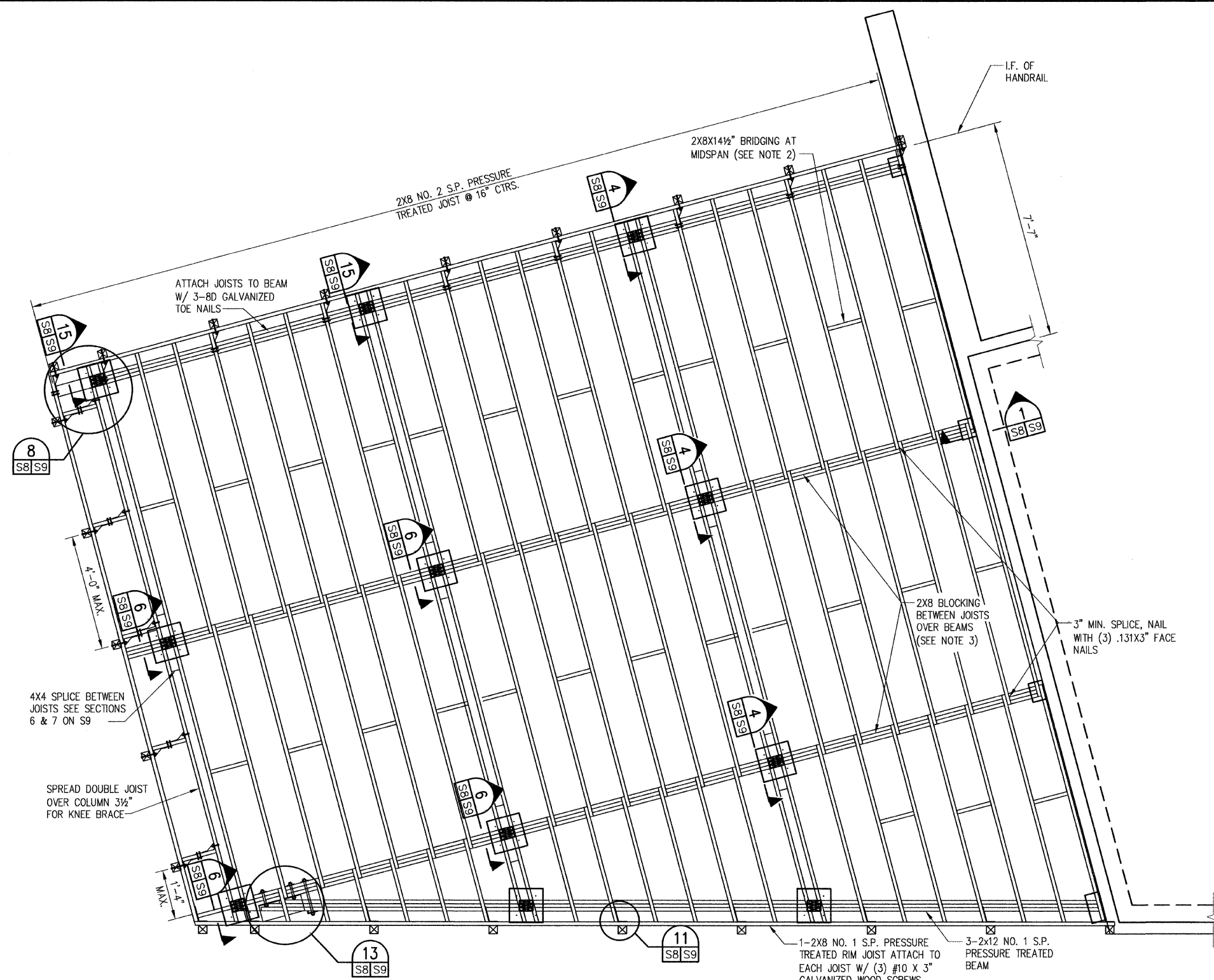
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TITLE: **DECK FRAMING PLAN**

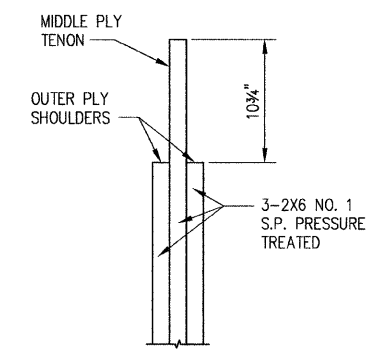
PROJECT: **CHESTER WELCOME CENTER**

REV	DATE	DESCRIPTION
△	12/16/08	REVISIONS PER IDOT COMMENTS
△		
△		

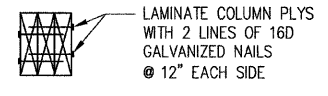
DRAWN BY: DJH	SHEET
DESIGNED BY: DJH	<b>S8</b>
CHECKED BY: KPC	OF 9 SHEETS
APPROVED BY: KPC	PROJECT DESCRIPTION
PROJECT NUMBER: 050421	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



- FRAMING NOTES:**
- WHERE JOISTS ARE NOT CONTINUOUS OVER BEAMS LAP 3" AND FASTEN WITH 3-.131x3" GALVANIZED NAILS.
  - FASTEN BRIDGING TO JOISTS WITH 2-.131x3" GALVANIZED TOENAILS INTO EACH END OF 2X8.
  - 2X8 BLOCKING SHALL BE PLACED BETWEEN JOISTS ABOVE BEAMS IN SAME JOIST SPACES AS MIDSPAN BRIDGING. BLOCKING SHALL BE TIGHT FIT AND FASTENED TO JOISTS WITH 2-.131x3" GALVANIZED TOENAILS AT EACH END AND TOE NAILED TO THE BEAM WITH 2-.131x3" GALVANIZED NAILS.

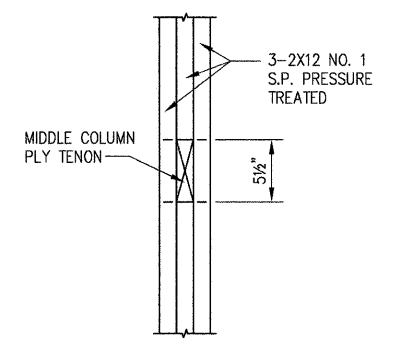


**ELEVATION**

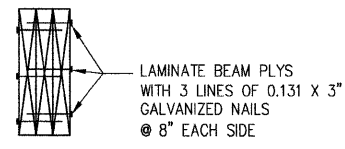


**SECTION**

**COLUMN DETAILS**



**PLAN**



**SECTION**

**BEAM DETAILS**

**THOUVENOT, WADE & MOERCHEN, INC.**  
ENGINEERS • SURVEYORS • PLANNERS



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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
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PROFESSIONAL STRUCTURAL ENGR. CORP.	01-005202
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**DECK FRAMING PLAN DETAILS**

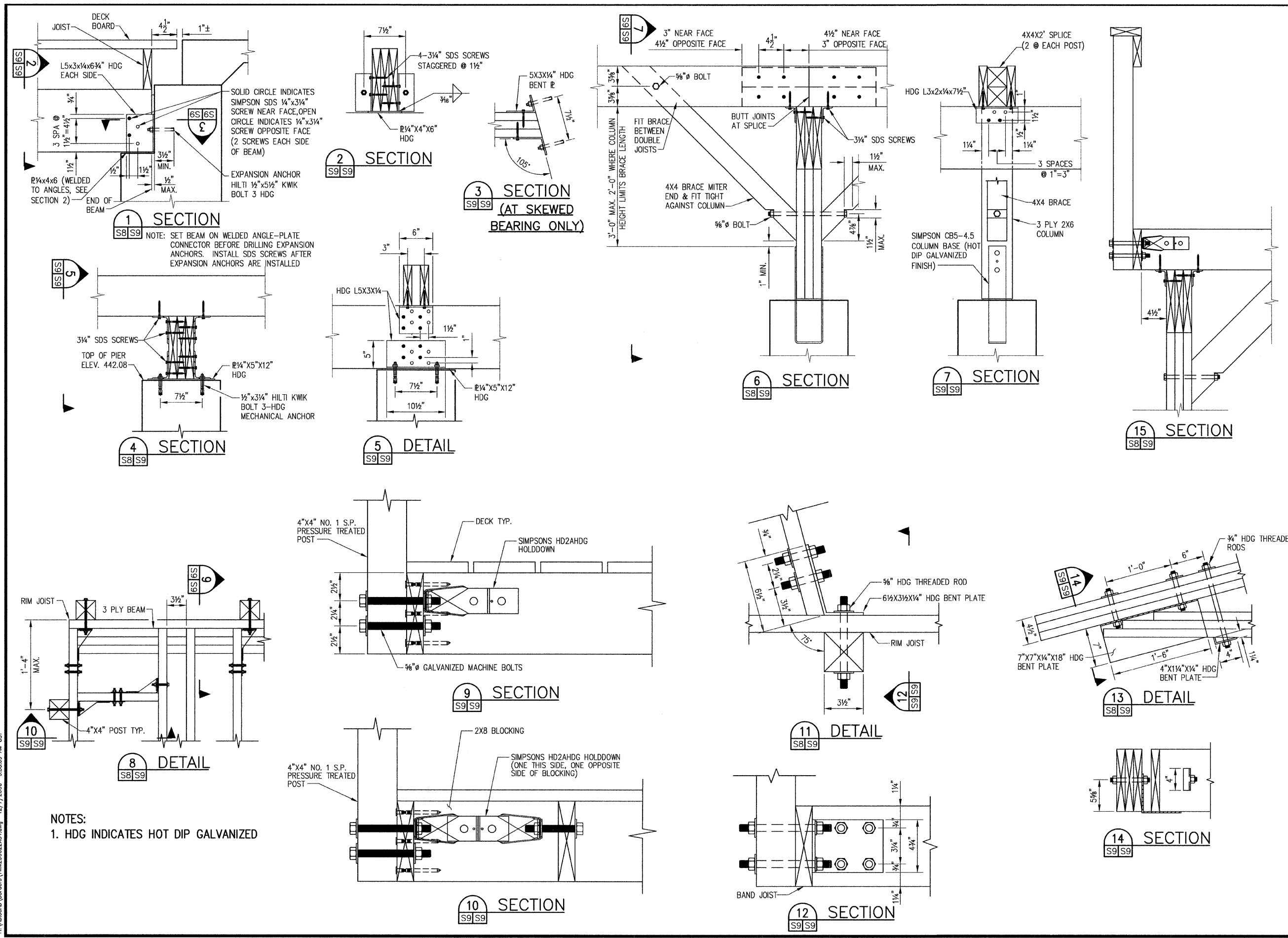
PROJECT: **CHESTER WELCOME CENTER**

TITLE: \_\_\_\_\_

REV.	DATE	DESCRIPTION
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△		
△		

DRAWN BY: DJH	SHEET
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