



BRIMLEY STATE PARK TOILET SHOWER BUILDING IMPROVEMENTS

CONSTRUCTION PLANS FOR MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET

Section 4, T.46 North, R.2 West
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

FILE NO.: 751/19154.TAP



VICINITY MAP
N.T.S.

PROJECT PERMITS

SOIL EROSION CONTROL PERMIT
CONTRACTOR SHALL OBTAIN SESC PERMIT FROM THE DEPARTMENT OF TECHNOLOGY AND MANAGEMENT AND BUDGET, BY COMPLETING THE PROCESS OUTLINED WITH THE BID DOCUMENTS.

EGL E CAMPGROUND GROUP PERMIT
A PERMIT FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY, BUILDING IS REQUIRED FOR PROPOSED UTILITY / PARKING AND BUILDING IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH EGL E TO OBTAIN THIS PERMIT.

EGL E/USACE JOINT PERMIT
A PERMIT FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY IS REQUIRED FOR PROPOSED STORM SEWER DISCHARGE TO THE STREAM/RIVER, HORIZONTAL DIRECTIONAL DRILL OF ELECTRICAL SERVICE CONDUITS UNDER THE STREAM/RIVER BED AND REMOVAL AND INSTALLATION OF PEDESTRIAN FOOTBRIDGE OVER THE STREAM/RIVER. CONTRACTOR SHALL COORDINATE WITH EGL E TO OBTAIN THIS PERMIT.

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (DLARA)
PERMITS FROM DLARA ARE REQUIRED FOR INSTALLATION OF PROPOSED ON-SITE ELECTRICAL AND PLUMBING IMPROVEMENTS / DEMOLITION. BUILDING PERMITS FROM DLARA ARE REQUIRED FOR THE PROPOSED BUILDINGS. CONTRACTOR SHALL COORDINATE WITH DLARA TO OBTAIN THIS PERMIT, PAY ALL FEES AND COORDINATE INSPECTIONS.



LOCATION MAP
N.T.S.

Civil Engineer

NF ENGINEERS
46777 Woodward Avenue
Pontiac, MI 48342
Contact: Steven Sutton, P.E.
Phone: (248) 332-7931
Fax: (248) 332-8257
E-mail: ssutton@nowakfraus.com

Architect

TDG Architects
79 Oakland Ave.
Pontiac, MI 48342
Contact: Brian S. Gill, A.I.A.
Phone: (248) 874-1420 - Ext. 225
E-mail: bgill@tdgarchitects.com

SHEET INDEX	
SHEET NO.	TITLE
CIVIL PLANS	
T	TITLE SHEET
C1	TOPOGRAPHIC SURVEY - WEST AREA
C2	TOPOGRAPHIC SURVEY - CENTRAL AREA
C3	TOPOGRAPHIC SURVEY - EAST AREA
C4	DEMOLITION PLAN AND IMPROVEMENT PLAN - WEST AREA
C5	DEMOLITION PLAN - CENTRAL AREA
C6	IMPROVEMENT PLAN - CENTRAL AREA
C7	DEMOLITION PLAN AND IMPROVEMENT PLAN - EAST AREA
ARCHITECTURAL PLANS - FOR ALL BUILDINGS	
CS 101	MOUNTING HEIGHTS AND GENERAL NOTES
A 101	CONCRETE SLAB PLAN AND FLOOR PLAN
A 201	REFLECTED CEILING PLAN AND ROOF PLAN
A 301	EXTERIOR ELEVATIONS AND DETAILS, STONE BASE - OPTION B
A 401	BUILDING SECTION AND DETAILS
A 501	INTERIOR ELEVATIONS
A 601	SCHEDULES, FINISH PLAN
S101	FOUNDATION PLAN, ROOF FRAMING PLAN AND DETAILS
S201	STRUCTURAL SPECIFICATIONS AND DETAILS
MEP PLANS	
WEST AREA	
M101	FLOOR PLAN - VENTILATION, UNDERGROUND DRAINAGE & ABOVEGROUND PIPING
M201	MECHANICAL SCHEDULES AND DETAILS
E101	FLOOR PLAN - POWER AND LIGHTING
E201	ELECTRICAL RISER AND SCHEDULES
CENTRAL AREA	
M101	FLOOR PLAN - VENTILATION, UNDERGROUND DRAINAGE & ABOVEGROUND PIPING
M201	MECHANICAL SCHEDULES AND DETAILS
E101	FLOOR PLAN - POWER AND LIGHTING
E201	ELECTRICAL RISER AND SCHEDULES
EAST AREA	
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E201	ELECTRICAL RISER AND SCHEDULES

CIVIL ENGINEER
NF ENGINEERS
46777 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL (248) 332-7931
FAX (248) 332-8257

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

01/24/2020	Phase 500 - 50% Review	Review
10/07/2019	Phase 500 - 30% Review	Review
DATE		

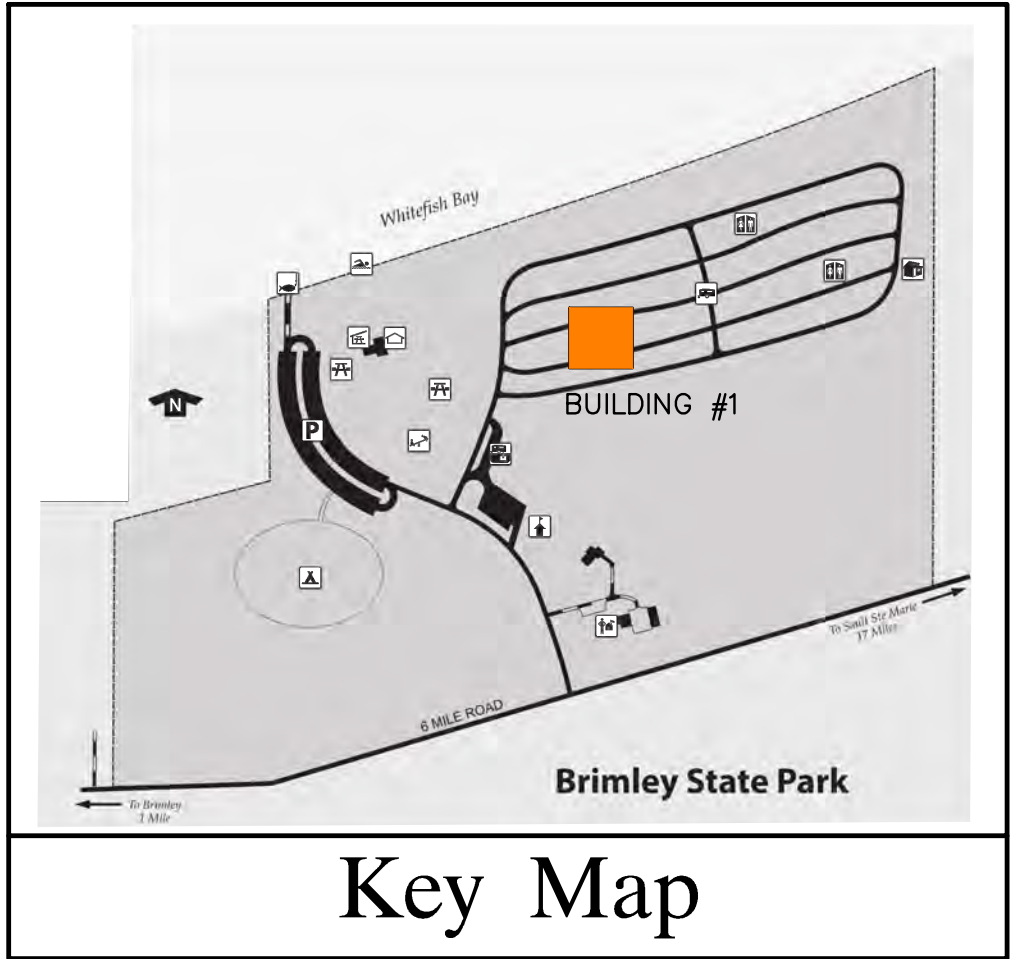
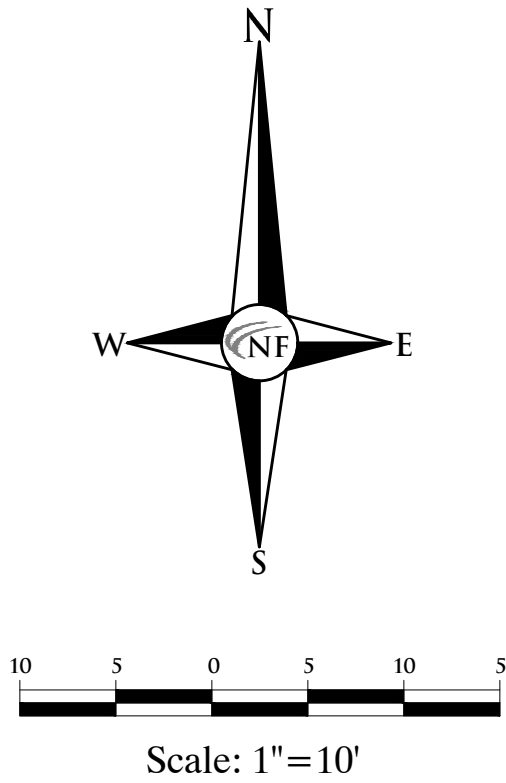
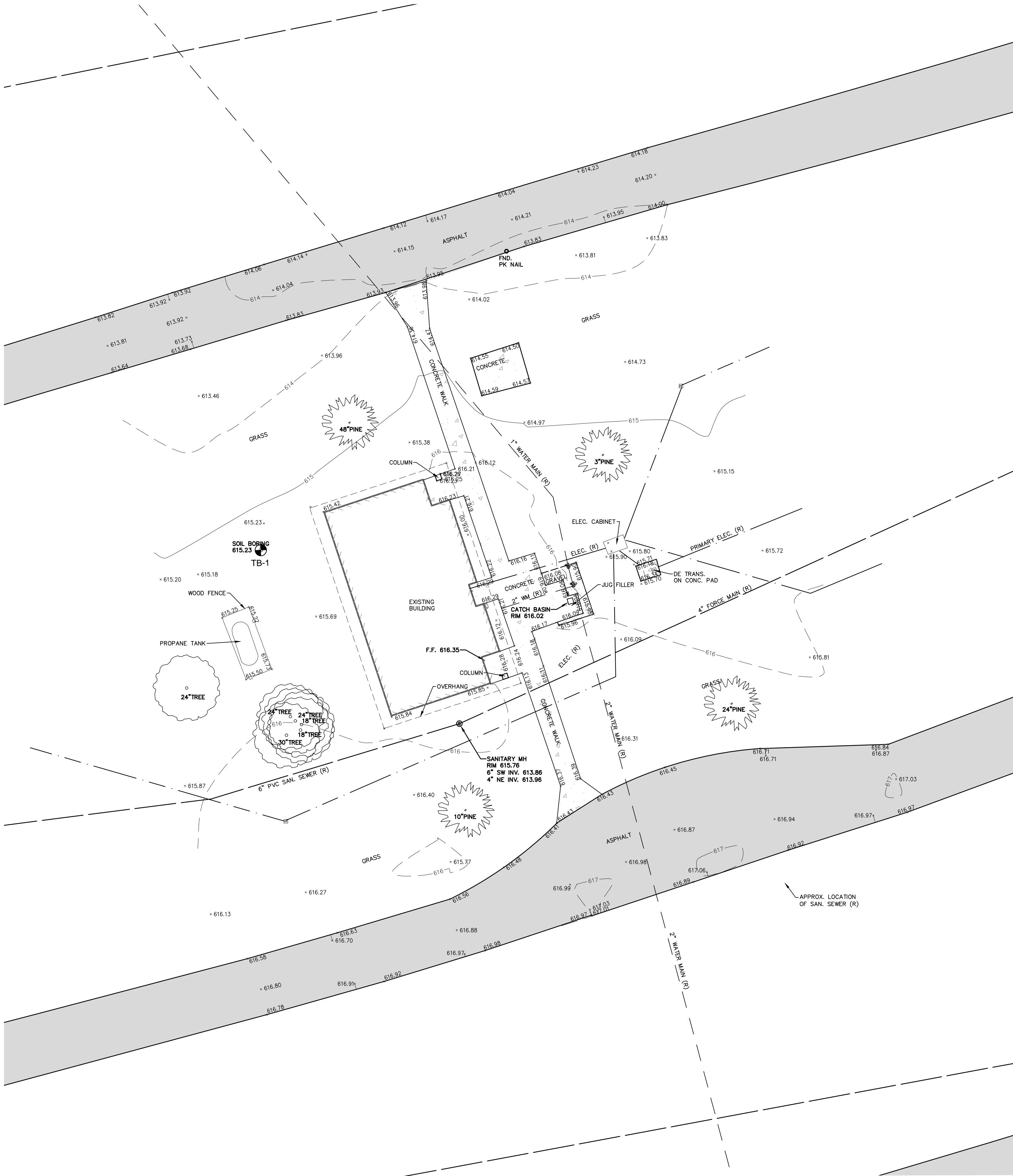
PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

TITLE

PROJECT NO.	751/19154.TAP
INDEX	-
PCA	00-0000
DRAWN BY	PK
DESIGNED BY	PK
JO/ENG BY	SWS

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N.T.S.

SOIL BORING INFORMATION

A SOILS REPORT HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS / CONTRACT BOOK.

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

BORING LEGEND

TEST BORING
TB-1

LEGEND

MANHOLE
HYDRANT
GATE VALVE
MANHOLE
CATCH BASIN
UTILITY POLE
GUY WIRE
EXISTING SANITARY SEWER
EXISTING SAN. CLEAN OUT
EXISTING WATER MAIN
EXISTING STORM SEWER
EX. R.Y. CATCH BASIN
EXISTING BURIED CABLES
OVERHEAD LINES
LIGHT POLE
EXISTING GAS MAIN
EXISTING CONCRETE
EXISTING ASPHALT PAVEMENT

CIVIL ENGINEER
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
4677 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL (248) 332-7931
FAX (248) 332-8257
NF
ENGINEERS

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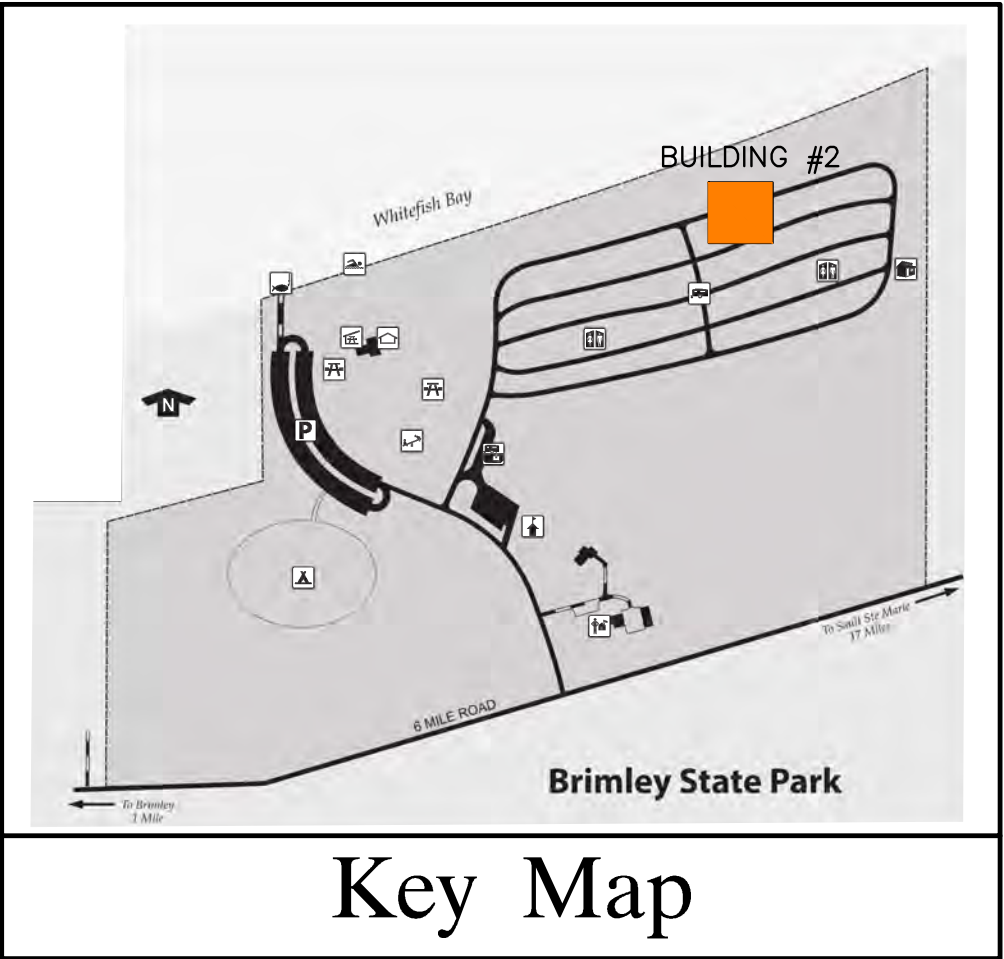
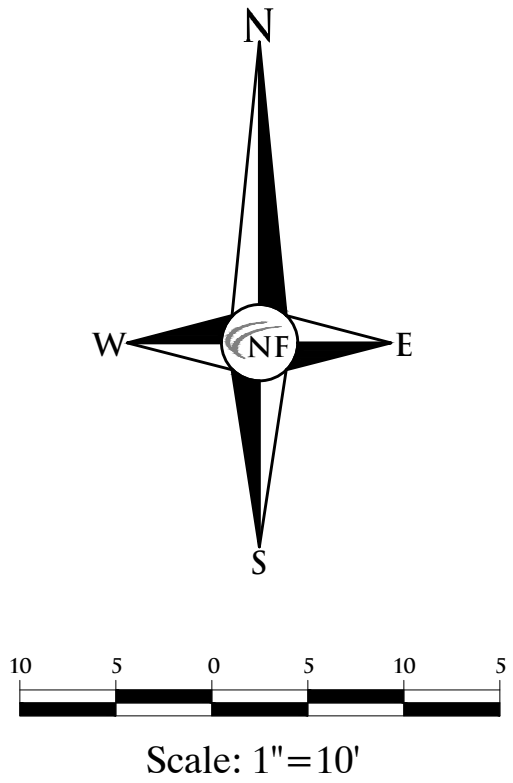
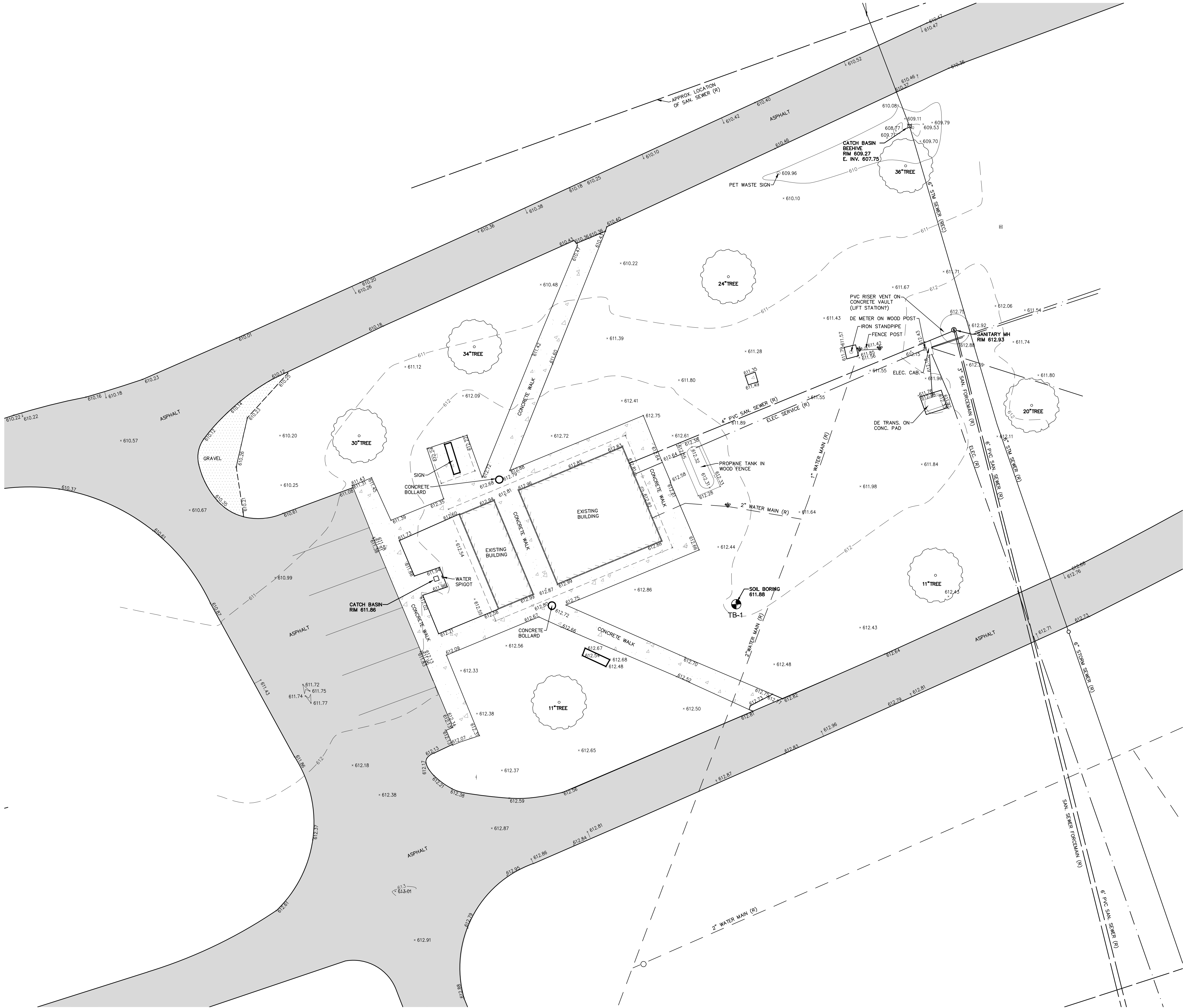
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PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

TOPOGRAPHIC SURVEY
WEST AREA

PROJECT NO.	75119154-TAP
INDEX	-
PCA	00-0000
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JOINED BY	SWS

C1



TOPOGRAPHIC SURVEY NOTES
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BORING LEGEND	
	TEST BORING

LEGEND	
	MANHOLE
	HYDRANT
	GATE VALVE
	MANHOLE
	CATCH BASIN
	UTILITY POLE
	GUY WIRE
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
	EXISTING CONCRETE
	EXISTING ASPHALT PAVEMENT
	EXISTING SANITARY SEWER
	EXISTING SAN. CLEAN OUT
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EX. R.Y. CATCH BASIN
	EXISTING BURIED CABLES
	OVERHEAD LINES

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CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
NF
ENGINEERS
4677 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL (248) 332-7931
FAX (248) 332-8257

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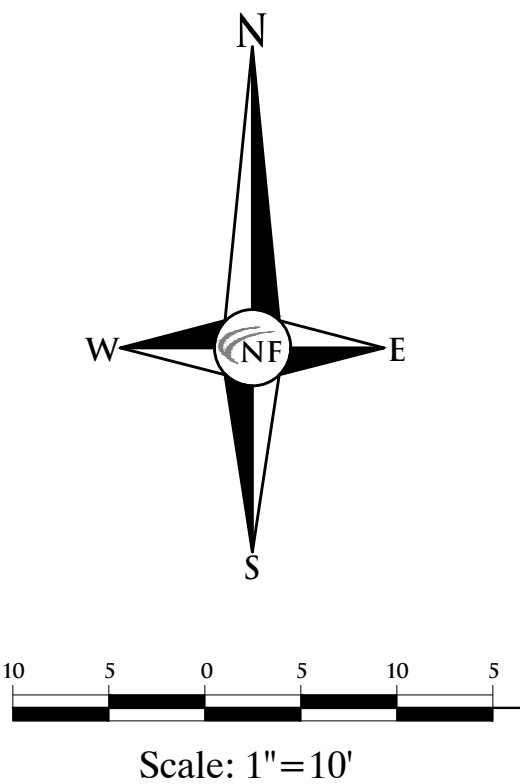
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PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

TOPOGRAPHIC SURVEY
CENTRAL AREA

PROJECT NO.	75119154.TAP
INDEX	-
PCA	00-0000
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C2



Scale: 1"=10

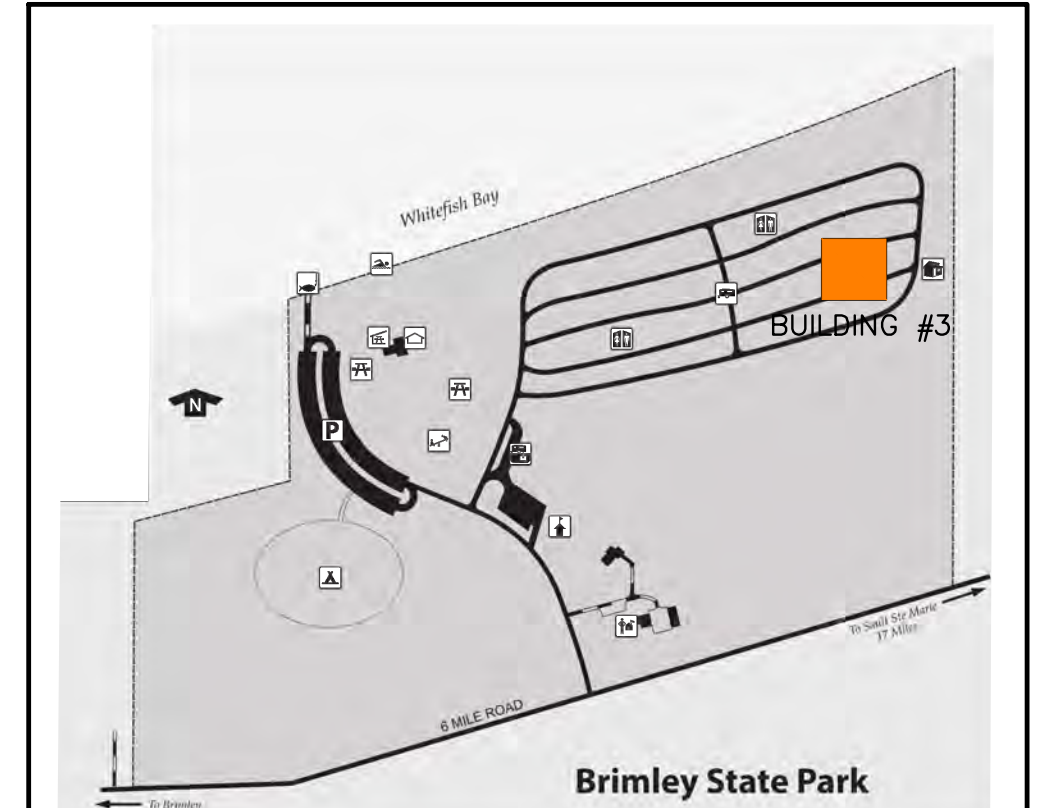
NF
ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

CIVIL ENGINEER 46'

6677 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
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Key Map

N.T.S

01/24/2020	Phase 500 - 50% Review
10/07/2019	Phase 500 - 30% Review
DATE	Review

**BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS**
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

TOPOGRAPHIC SURVEY
EAST AREA

PROJECT NO.	751/19154.TAP
INDEX	--
PCA	00-0000
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3

TOPOGRAPHIC SURVEY NOTES

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










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BORING LEGEND

TEST BORING


TB-1

LEGEND

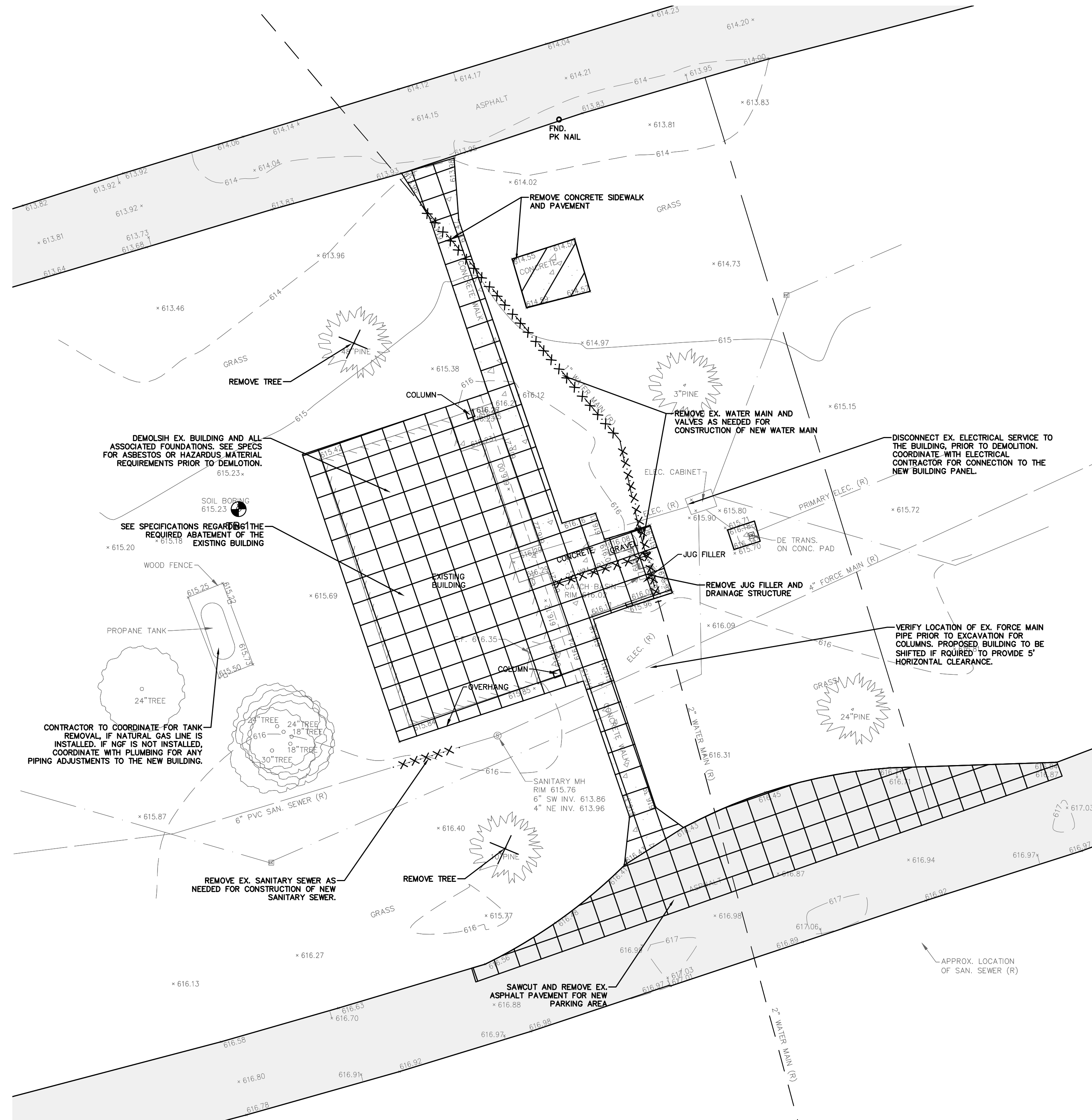
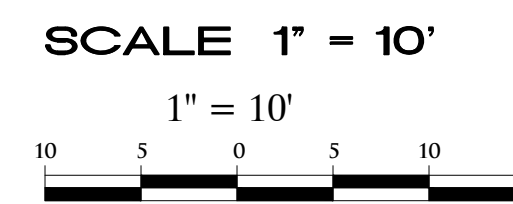
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	HYDRANT	EXISTING SAN. CLEAN OUT
	GATE VALVE	EXISTING WATER MAIN
	MANHOLE	EXISTING STORM SEWER
	CATCH BASIN	EX. R.Y. CATCH BASIN
	UTILITY POLE	EXISTING BURIED CABLES
	GUY POLE	OVERHEAD LINES
	GUY WIRE	LIGHT POLE
	1	SIGN
		EXISTING GAS MAIN
		EXISTING CONCRETE
		EXISTING ASPHALT PAVEMENT

ALL WORK REQUIRED TO INSTALL NG PIPING AS OUTLINED IS INCLUDED IN THE PROJECT ALTERNATE. IF ALTERNATE IS ACCEPTED, THE CONTRACTOR SHALL COMPLETE ALL PROPANE TANK WORK REQUIRED TO ACCOMMODATE THE NEW BUILDING SITES AND PIPING FROM NEW TANK LOCATION TO BUILDING.

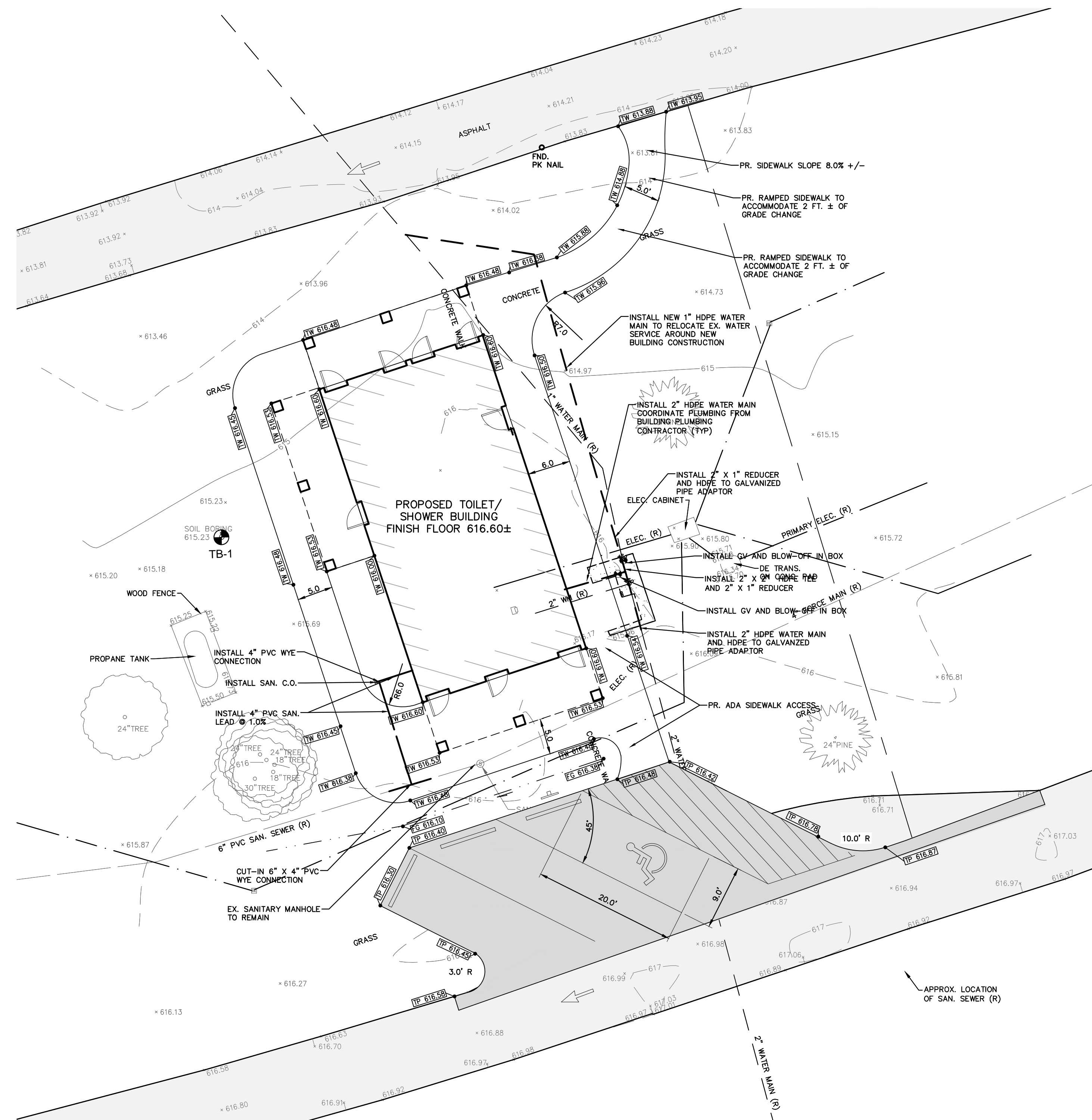


EXISTING CONCRETE

EXISTING ADJUTANT DAM



WEST AREA DEMOLITION PLAN
SCALE 1" = 10'



WEST AREA IMPROVEMENT PLAN
SCALE 1" = 10'

CIVIL ENGINEER

CIVIL ENGINEERS 46777 WOODWARD AVENUE
LAND SURVEYORS PONTIAC, MI 48342-5032
LAND PLANNERS TEL. (248) 332-7931
 FAX. (248) 332-8257



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DESIGN AND CONSTRUCTION DIVISION
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PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET SHOWER BUILDING IMPROVEMENTS

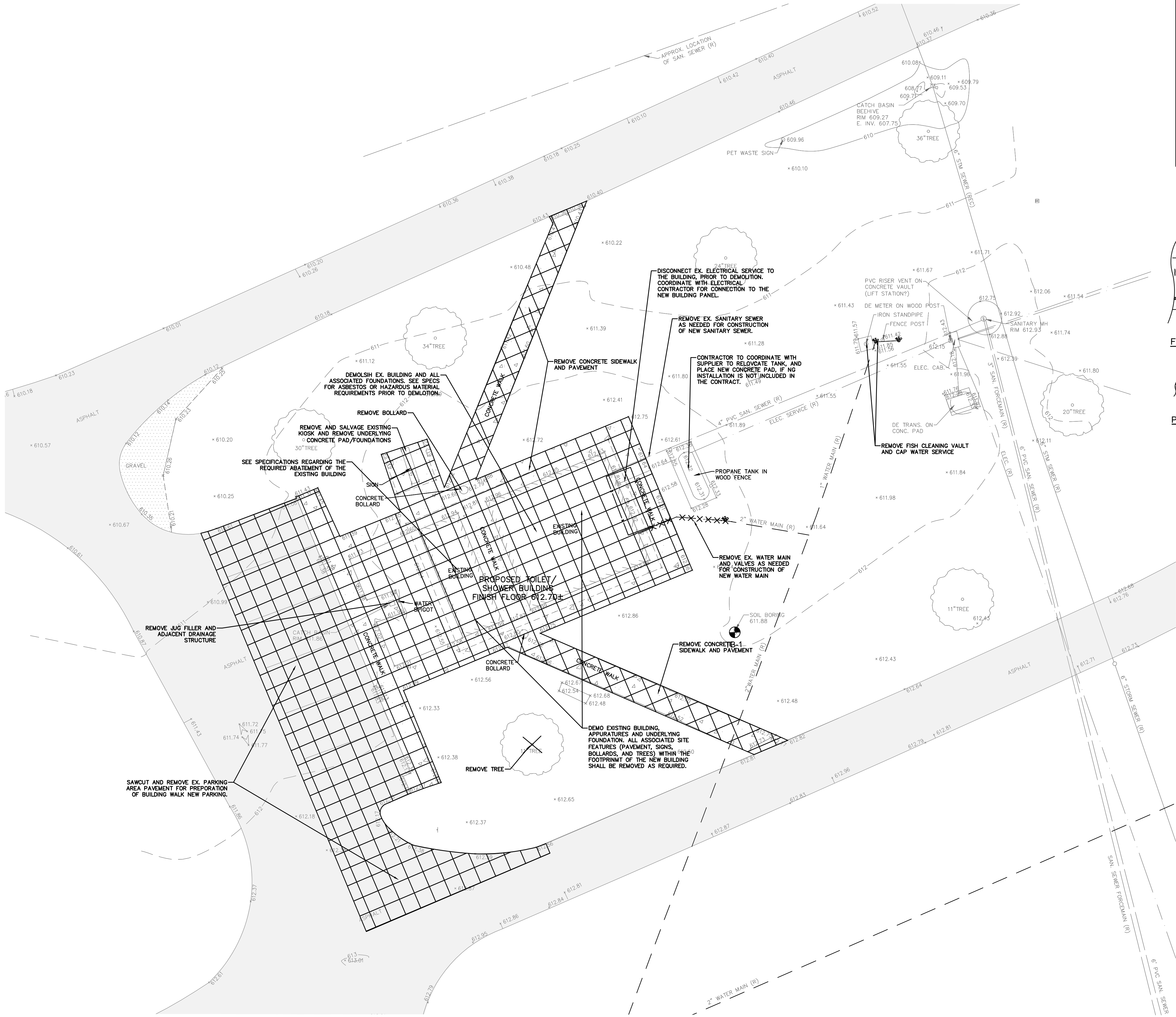
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

DEMOLITION PLAN AND
IMPROVEMENT PLAN
WEST AREA

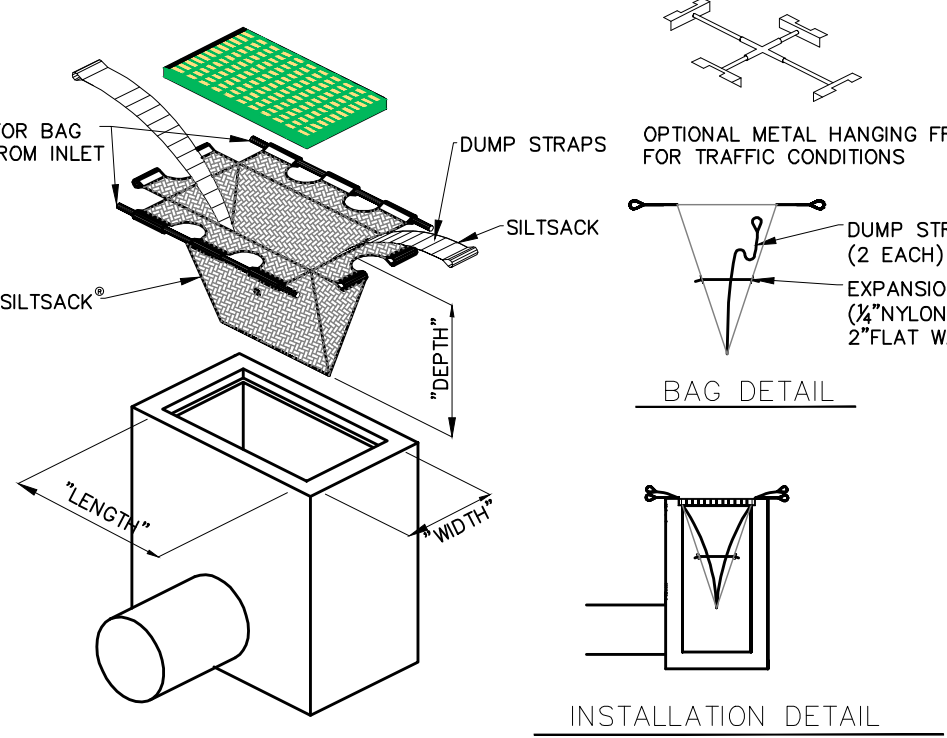
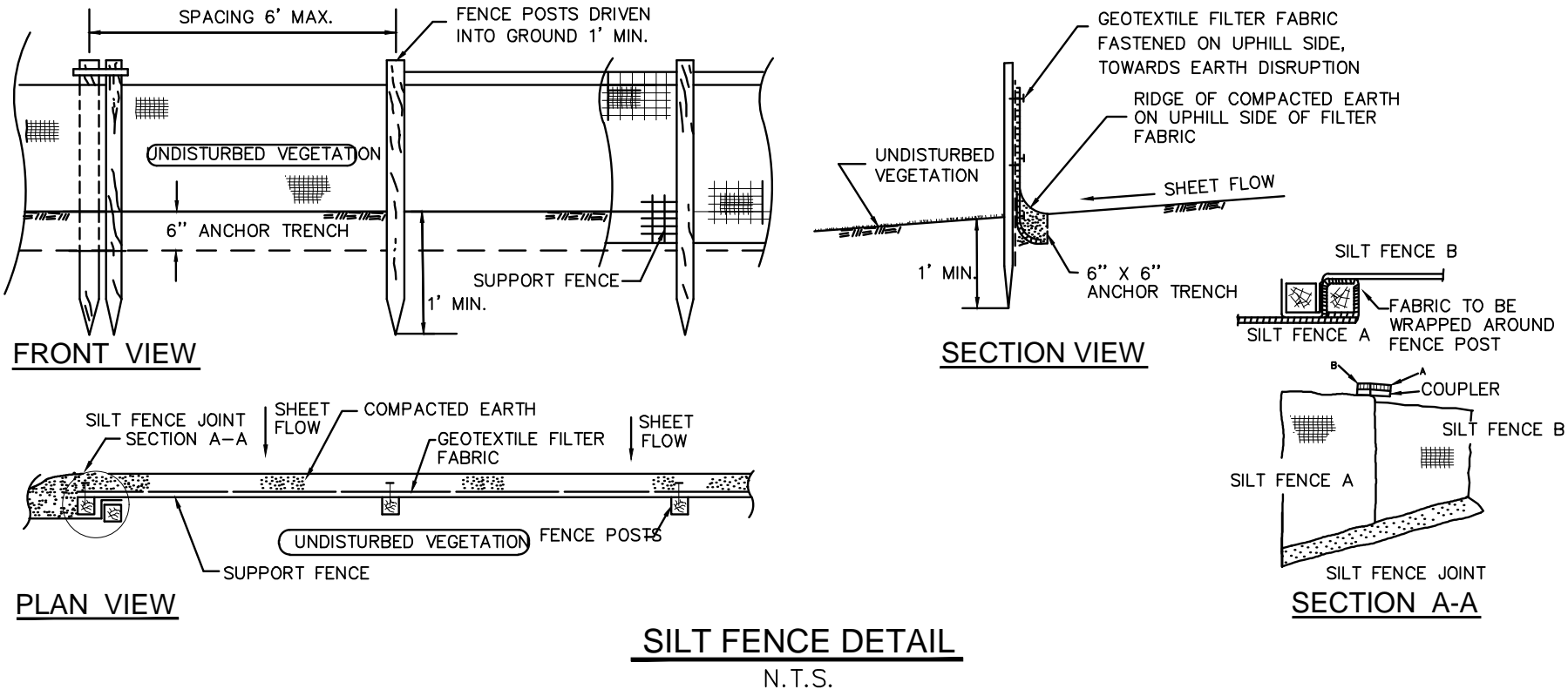
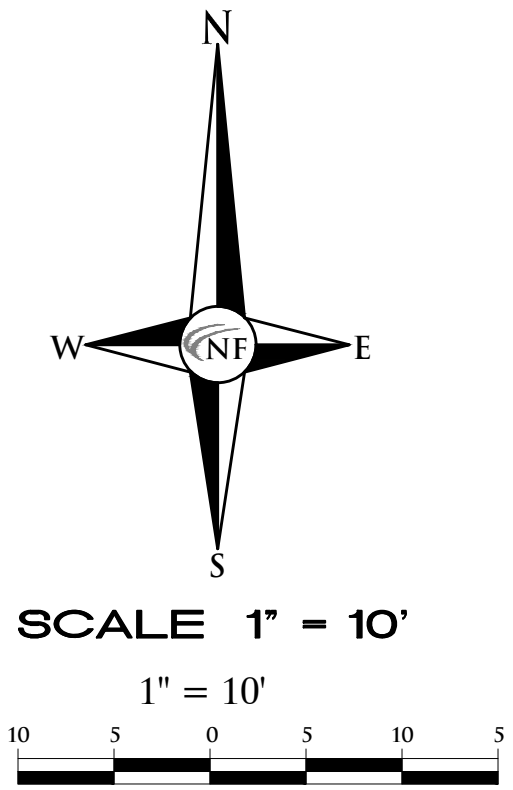
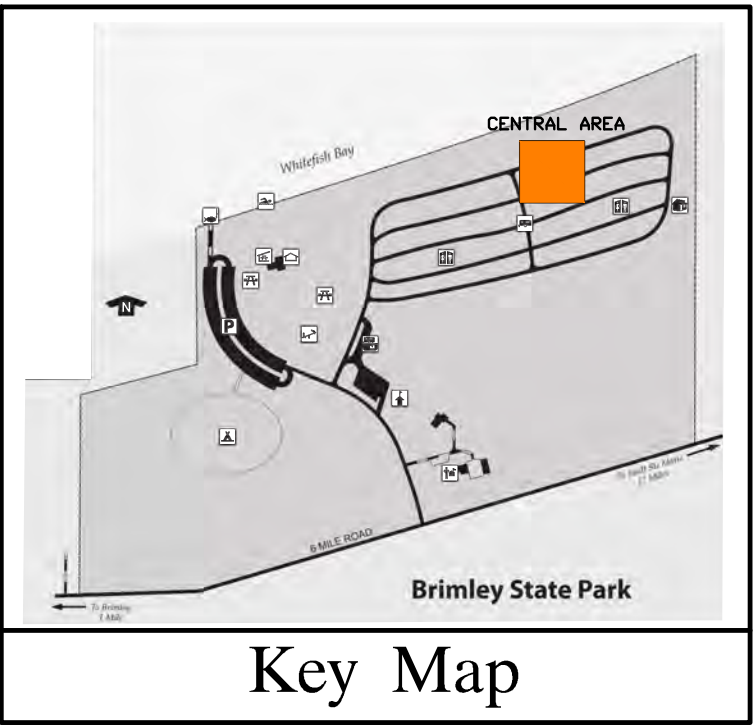
PROJECT NO.	751/19/154 TAP
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DESIGNED BY	PK

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CENTRAL AREA DEMOLITION PLAN
SCALE 1" = 10'



LEGEND	
	EXISTING SANITARY SEWER
	EXISTING SAN. CLEAN OUT
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EX. R.Y. CATCH BASIN
	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
	EXISTING CONCRETE
	EXISTING ASPHALT PAVEMENT

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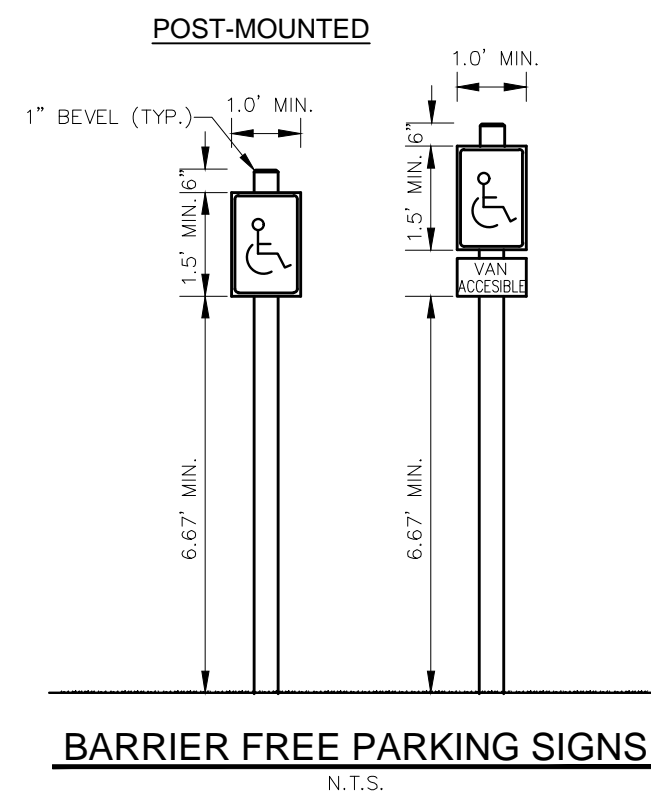
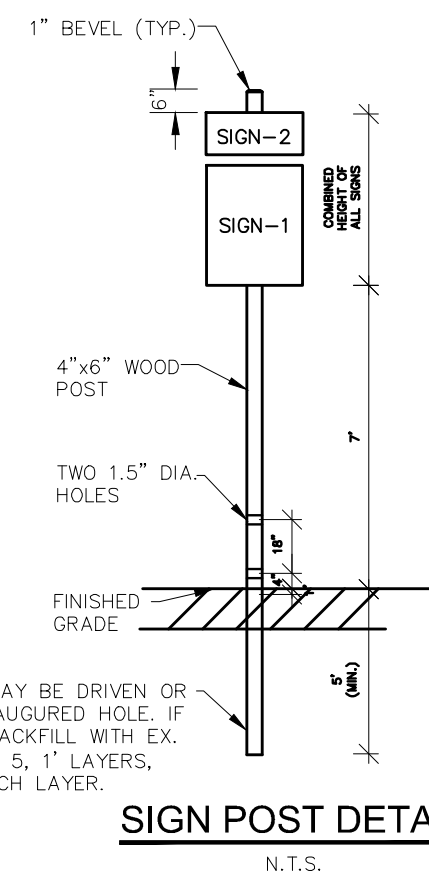
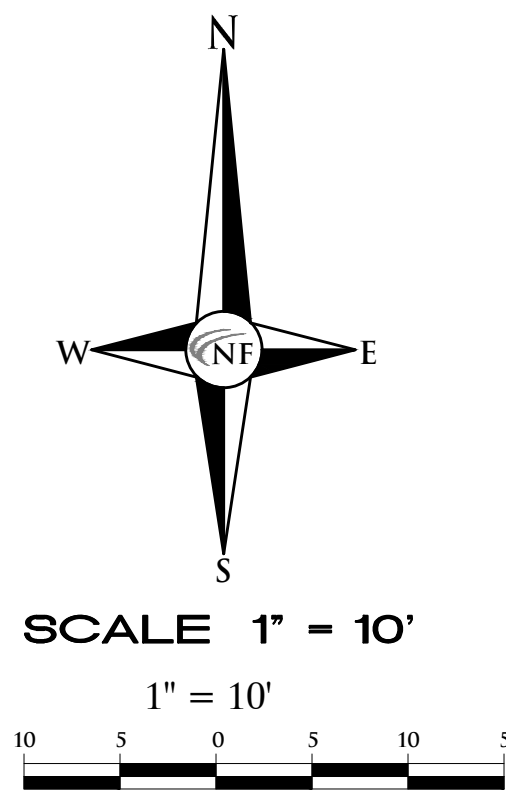
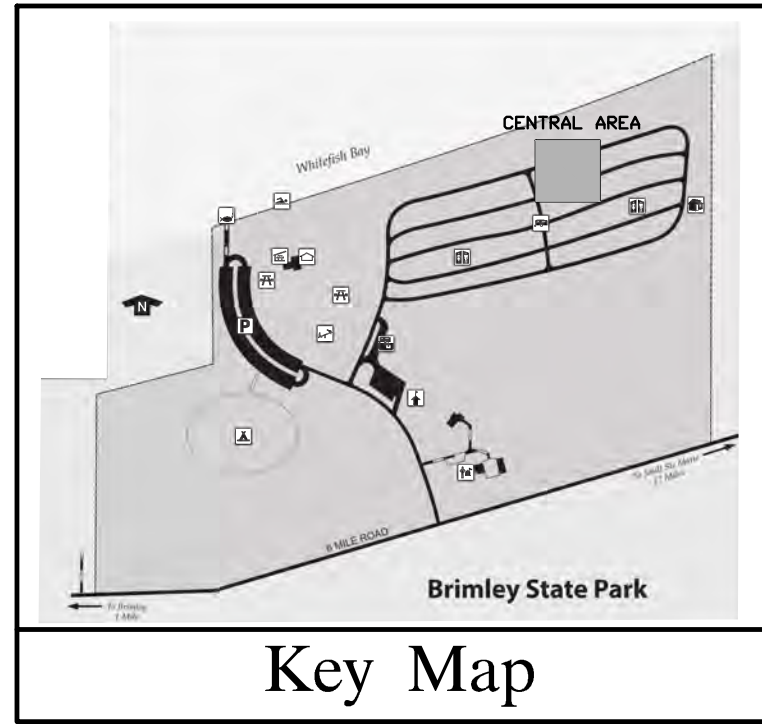
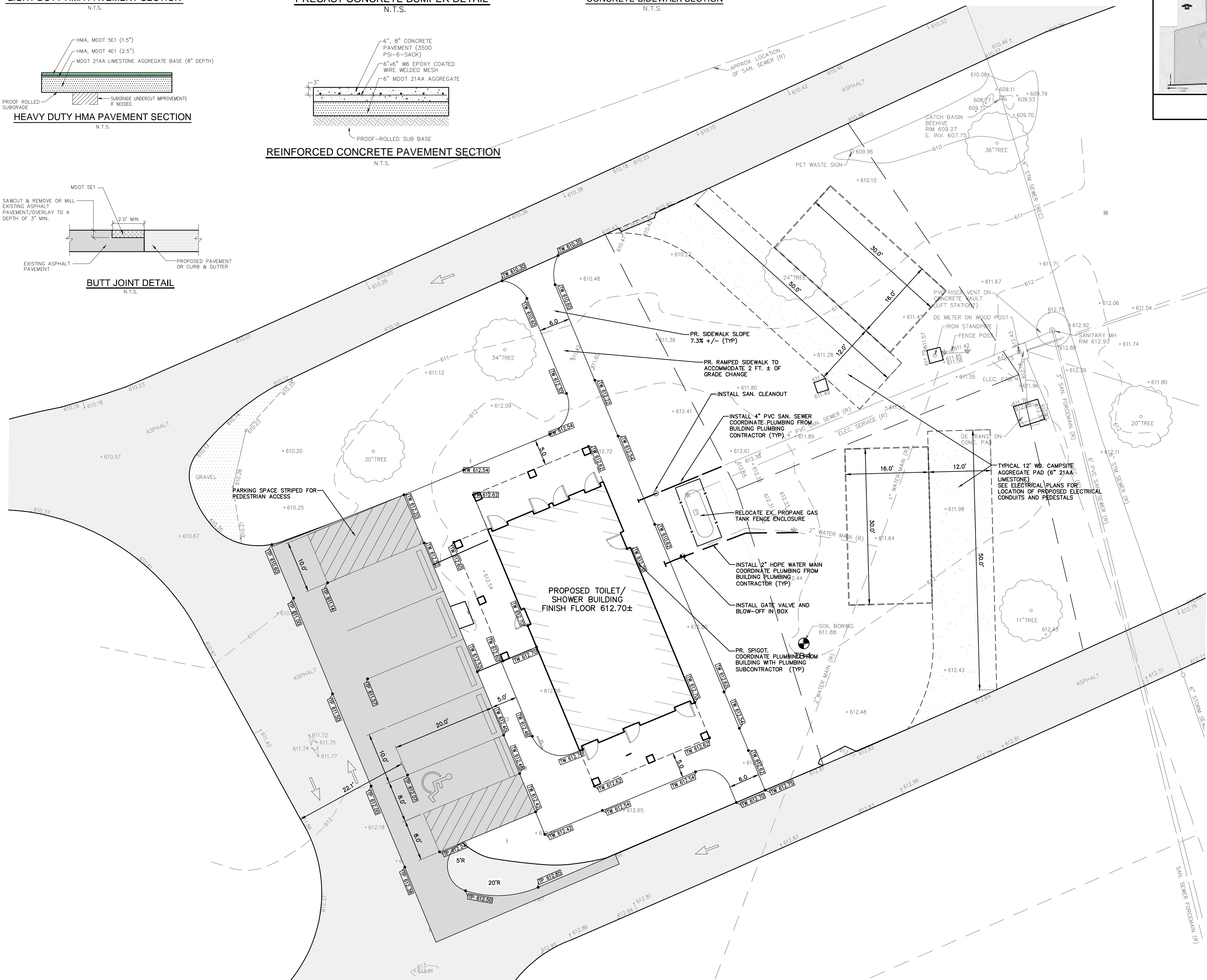
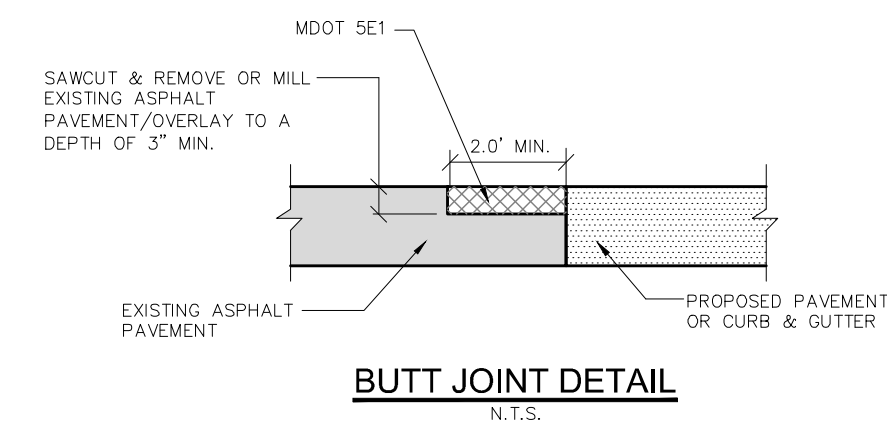
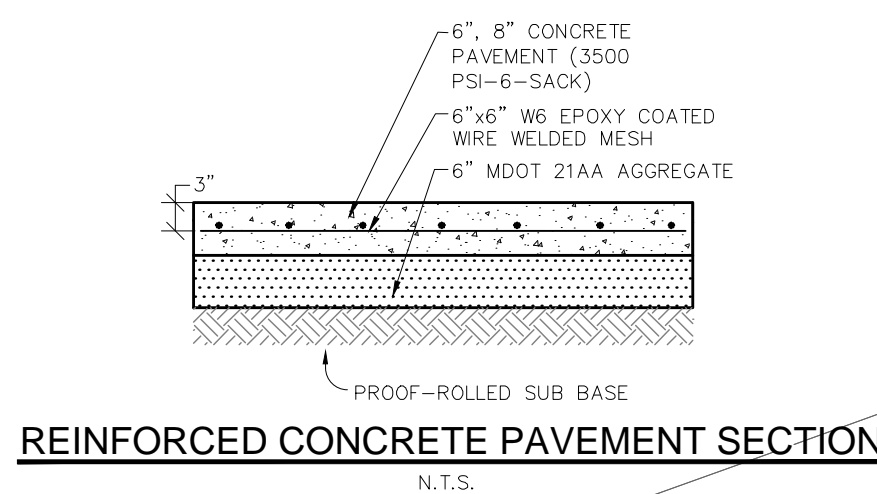
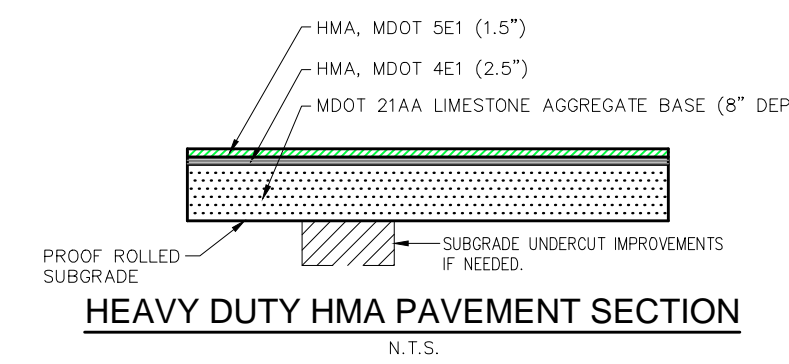
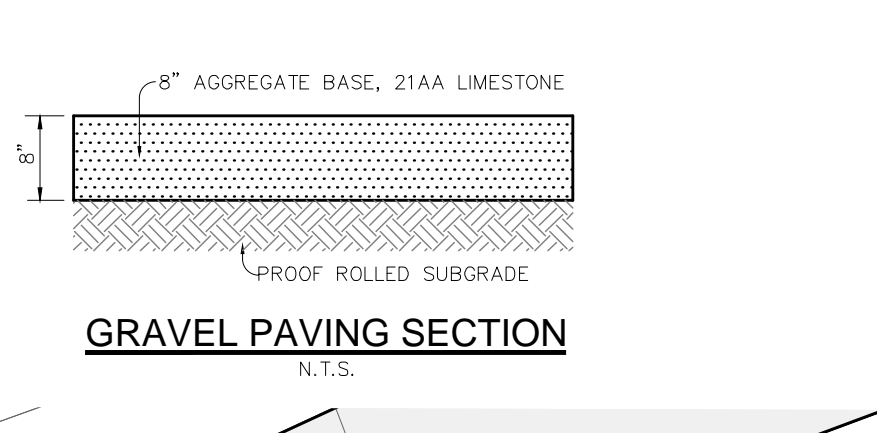
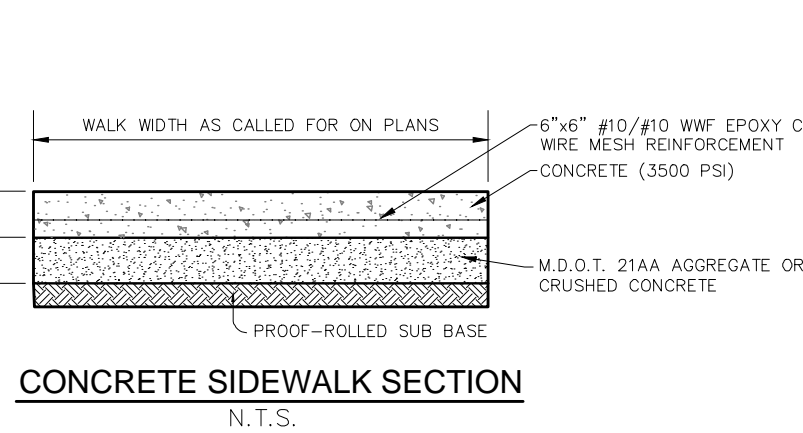
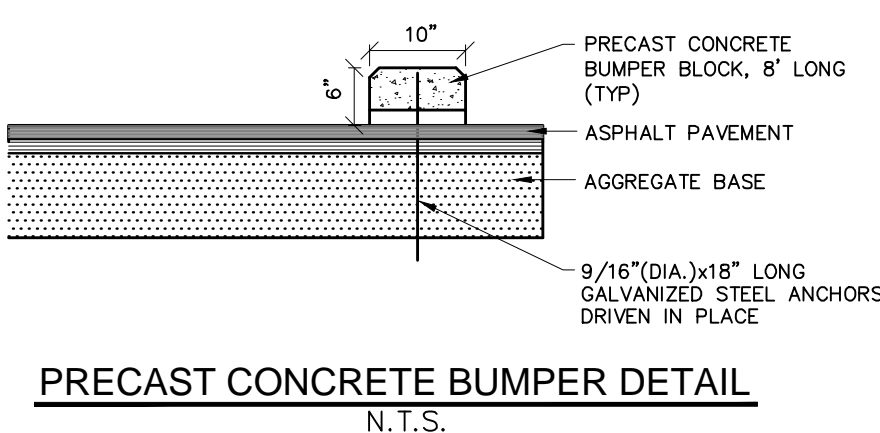
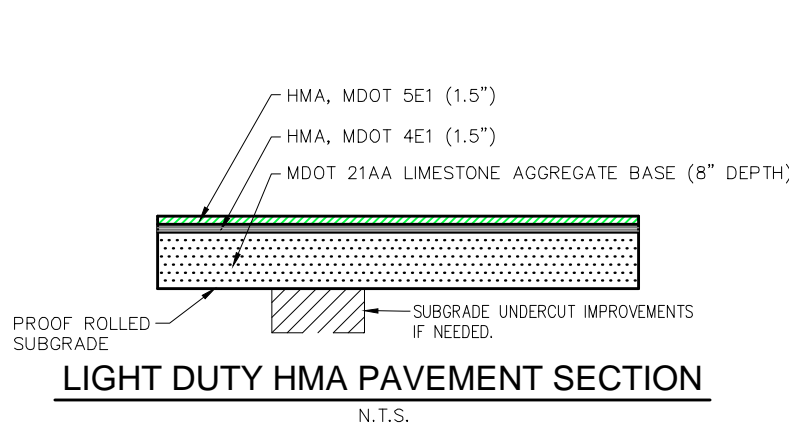
PROJECT NO.	INDEX	DATE	REVIEW
75119154-TAP	00-0000	01/24/2020	Phase 500 - 50% Review
		10/07/2019	Phase 500 - 30% Review

PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

DEMOLITION PLAN
CENTRAL AREA

PROJECT NO.	75119154-TAP
INDEX	00-0000
PCN	PK
DRAWN BY	PK
DESIGNED BY	PK
JOINED BY	SWS

C5



TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

NG INSTALLATION - DEDUCTIVE ALTERNATE

ALL WORK REQUIRED TO INSTALL NG PIPING AS OUTLINED IS INCLUDED IN THE PROJECT ALTERNATE. IF ALTERNATE IS ACCEPTED, THE CONTRACTOR SHALL COMPLETE ALL PROPANE TANK WORK REQUIRED TO ACCOMMODATE THE NEW BUILDING SITES AND PIPING FROM NEW TANK LOCATION TO BUILDING.

CENTRAL SITE - CAMPSITE IMPROVEMENTS

ALL PROPOSED REMOVALS, GRADING, AGGREGATE INSTALLATION, ELECTRICAL PEDESTAL INSTALLATIONS AND RESTORATION ASSOCIATED WITH CREATION OF NEW CAMPSITES SHALL BE INCLUDED IN A DEDUCTIVE ALTERNATE.

LEGEND	
	EXISTING SANITARY SEWER
	EXISTING SAN. CLEAN OUT
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EX. R.Y. CATCH BASIN
	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
	EXISTING CONCRETE
	EXISTING ASPHALT PAVEMENT

CIVIL ENGINEER
CIVIL ENGINEERS
LAND SURVEYORS
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4677 WOODWARD AVENUE
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DATE	REVIEW
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PROJECT DESCRIPTION
**BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS**
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

IMPROVEMENT PLAN
CENTRAL AREA

PROJECT NO.	751191547AP
INDEX	-
PCA	00-0000
DRAWN BY	PK
DESIGNED BY	PK
JOEING BY	SWS

C6

TOPOGRAPHIC SURVEY NOTES

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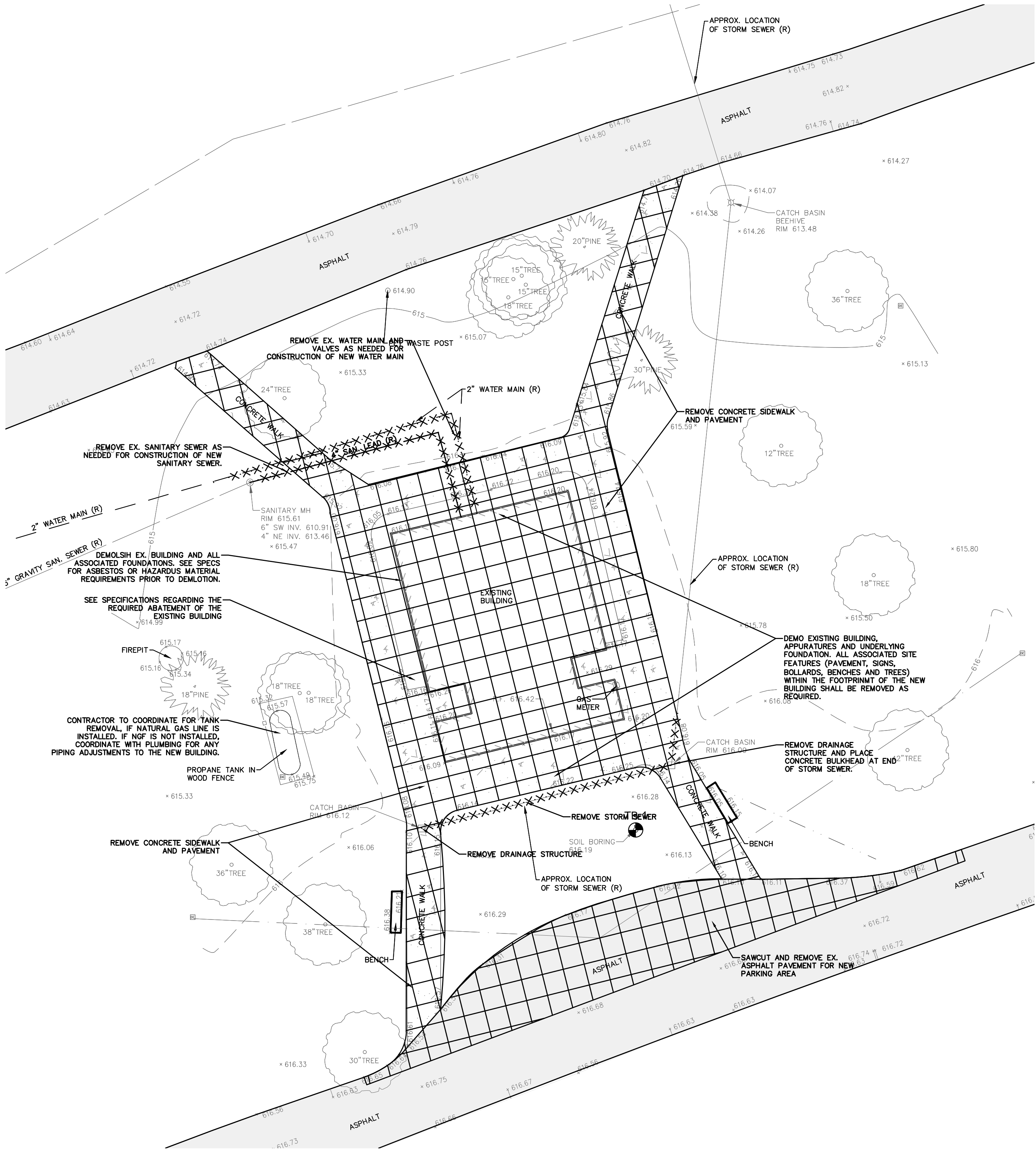
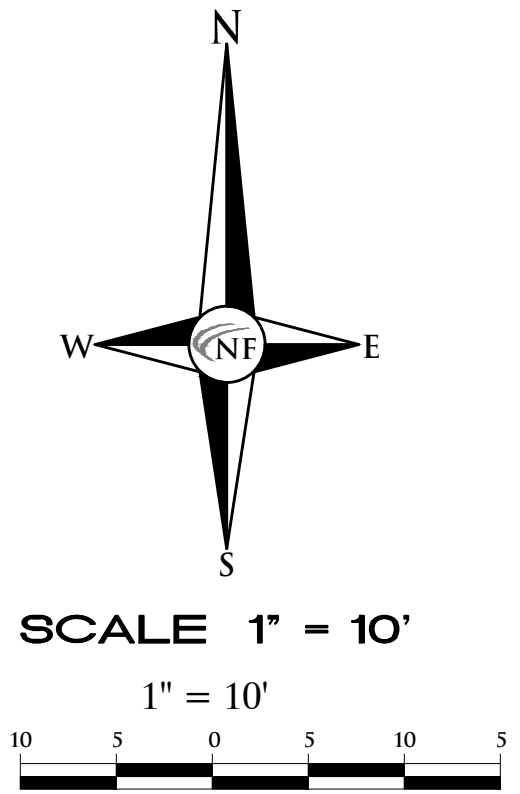
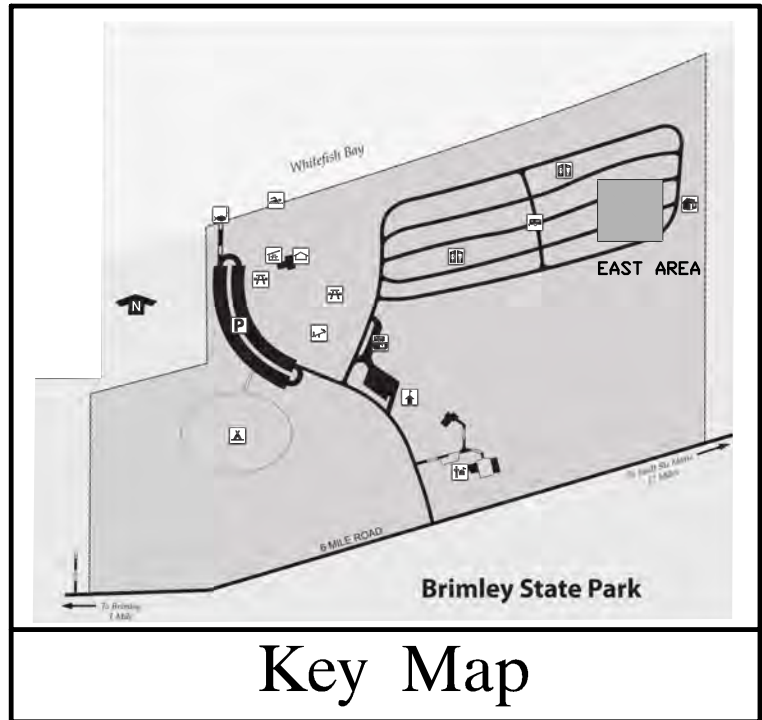
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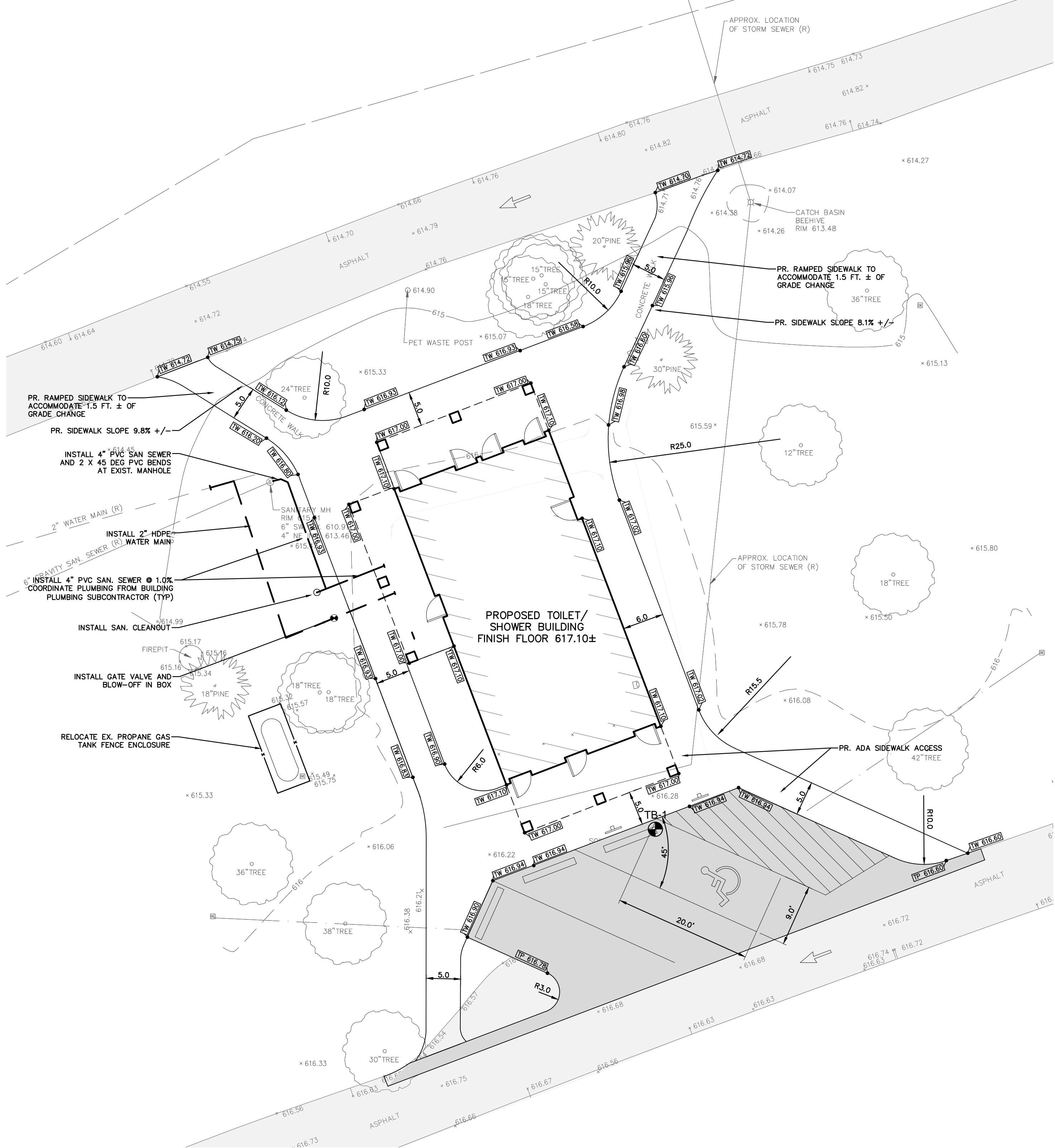
ALL WORK REQUIRED TO INSTALL NG PIPING AS OUTLINED IS INCLUDED IN THE PROJECT ALTERNATE. IF ALTERNATE IS ACCEPTED, THE CONTRACTOR SHALL COMPLETE ALL PROPANE TANK WORK REQUIRED TO ACCOMMODATE THE NEW BUILDING SITES AND PIPING FROM NEW TANK LOCATION TO BUILDING.

LEGEND

MANHOLE	EXISTING SANITARY SEWER
HYDRANT	EXISTING SAN. CLEAN OUT
GATE VALVE	EXISTING WATER MAIN
MANHOLE	EXISTING STORM SEWER
CATCH BASIN	EX. R.Y. CATCH BASIN
UTILITY POLE	EXISTING BURIED CABLES
GUY POLE	OVERHEAD LINES
GUY WIRE	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
	EXISTING CONCRETE
	EXISTING ASPHALT PAVEMENT



EAST AREA DEMOLITION PLAN
SCALE 1" = 10'



EAST AREA IMPROVEMENT PLAN
SCALE 1" = 10'

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR



DATE	REVIEW
01/24/2020	Phase 500 - 50% Review
10/07/2019	Phase 500 - 30% Review

PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

DEMOLITION PLAN AND
IMPROVEMENT PLAN
EAST AREA

PROJECT NO.	751/18/154.TAP
INDEX	-
PCA	00-0000
DRAWN BY	PK
DESIGNED BY	PK
JO/ENG BY	SWS

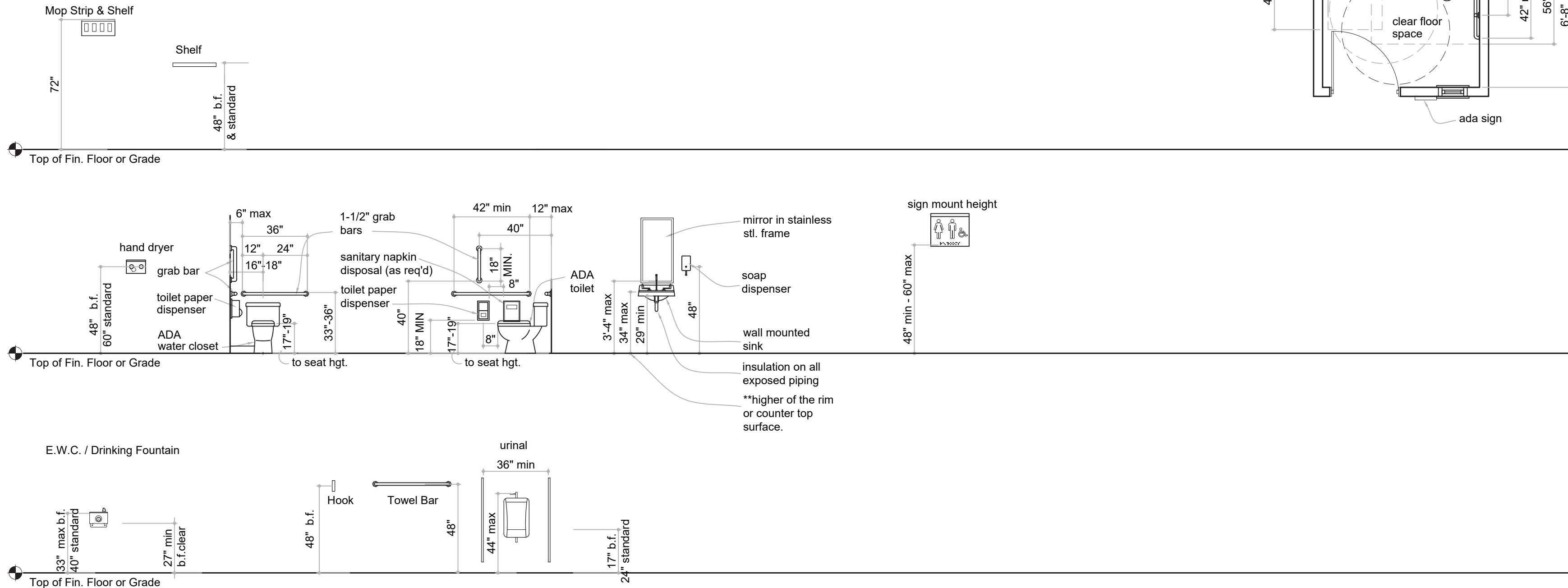
C7

Mounting Heights

PER ICC/ANSI A117.1 2009 EDITION

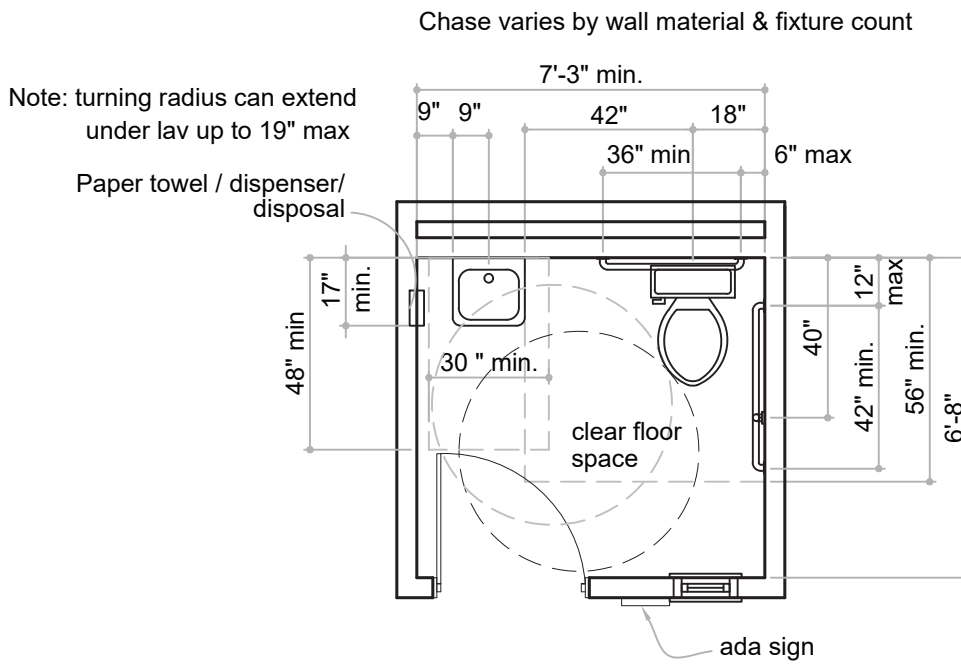
Mounting Heights are typical unless noted otherwise on drawings.

Mounting heights are based upon design standards and/ or ADA & Barrier Free Design requirements. It is intended that like devices be mounted at the same height throughout the entire project. Recessed devices in masonry walls may dictate a deviation (+/- 2") from these heights (when permitted by code) to allow the bottom or the top of the device to align with masonry coursing. Coordinate these deviations with the Architect/ Owner.



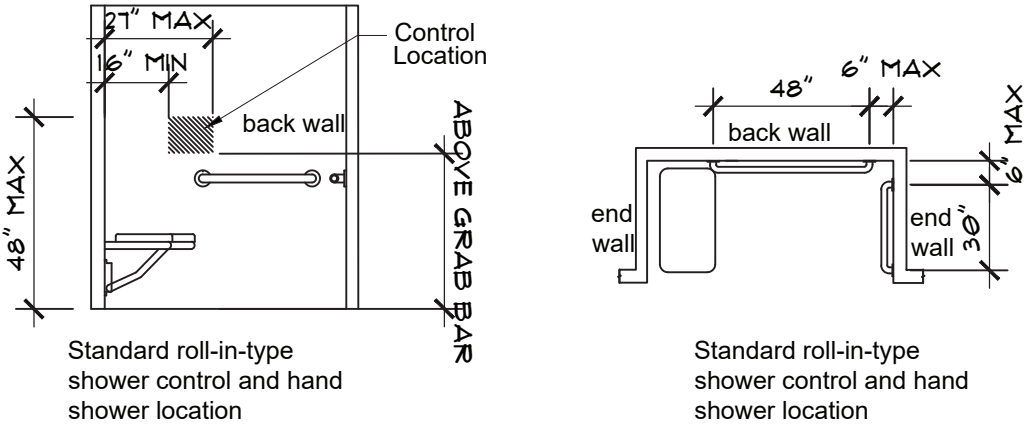
General Layout

Barrier Free Single Occupancy Toilet Rooms



BARRIER FREE DESIGN NOTES

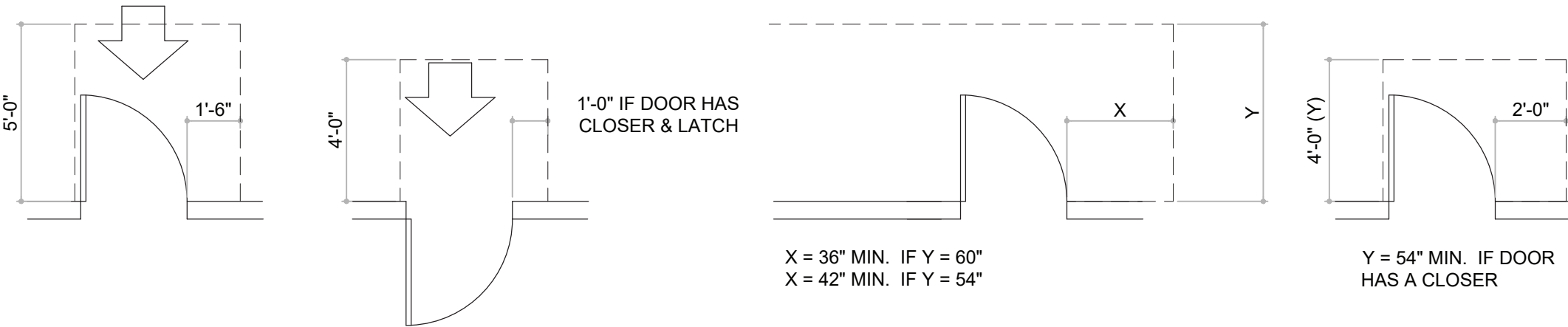
- REQUIRED ACCESSIBLE TOILET FACILITIES SHALL COMPLY WITH MICHIGAN BARRIER FREE CODE, ICC / ANSI-A 117.1 2009 AND THE MICHIGAN PLUMBING CODE.
- PROVIDE BARRIER FREE ACCESSIBLE TOILET ROOM FOR MEN AND WOMEN WITH A 32" MINIMUM CLEAR DOOR OPENING
- WATER CLOSET MUST BE LOCATED 18" TO THE CENTERLINE FROM THE ADJACENT WALL. THE SEAT MUST BE 17" ABOVE FINISH FLOOR AND FLUSH CONTROLS NOT HIGHER THAN 36" A.F.F. MAXIMUM WATER TEMPERATURE AT HAND SINKS.
- SHALL NOT EXCEED 110 DEGREES FAHRENHEIT. FAUCETS SHALL BE ADA LEVER OR PUSH-BUTTON TYPE. EXPOSED WATER & DRAIN LINES TO BE INSULATED.
- TOILET ROOM ACCESSORIES SHALL BE MOUNTED WITH THE CONTROLS NO MORE THAN 48" ABOVE THE FLOOR. MIRRORS SHALL BE INSTALLED NO MORE THAN 40" ABOVE THE FLOOR.
- PROVIDE SIGNS SHOWING GENDER AND THE INTERNATIONAL SYMBOL FOR THE HANDICAPPED ON THE EXTERIOR OF THE ROOM. INSTALL ADJACENT TO THE LATCH SIDE OF THE DOOR.



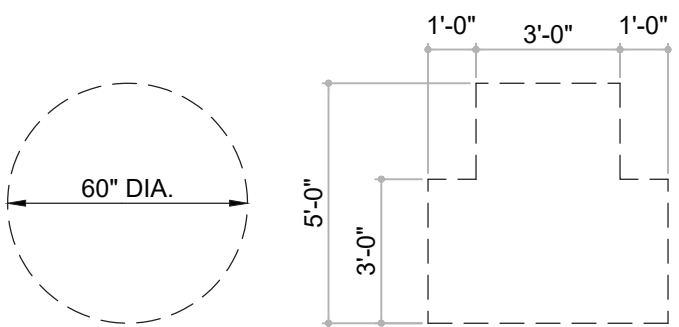
Barrier Free Clearances

PER ICC/ANSI A117.1 2009 EDITION

DOORWAY CLEARANCES



WHEEL CHAIR TURNING AREA



CONSTRUCTION LEGEND	
WALL TYPE	DESCRIPTION
=====	EXISTING WALL CONSTRUCTION TO REMAIN.
=====	EXISTING WALL CONSTRUCTION TO BE REMOVED.
=====	NEW PARTITION
DOORS	
=====	EXISTING DOOR TO REMAIN
=====	EXISTING DOOR & FRAME TO BE REMOVED.
=====	NEW DOOR & FRAME
Ø3 000	DOOR NUMBER, REFER TO DOOR SCHEDULE
SYMBOLS	
+ W.P.	LAYOUT WORK POINT
ALIGN	ALIGN NEW WALL SURFACE WITH EXISTING CONSTRUCTION
9'-0" A.F.F.	CEILING HEIGHT INDICATOR
○ ○	REVISION BUBBLES

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE:
BRIAN S. GILL - MICHIGAN LICENSE NUMBER: 448936

PROJECT INFORMATION
SCOPE OF WORK
THIS PROJECT INVOLVES A TOILET/SHOWER BUILDING

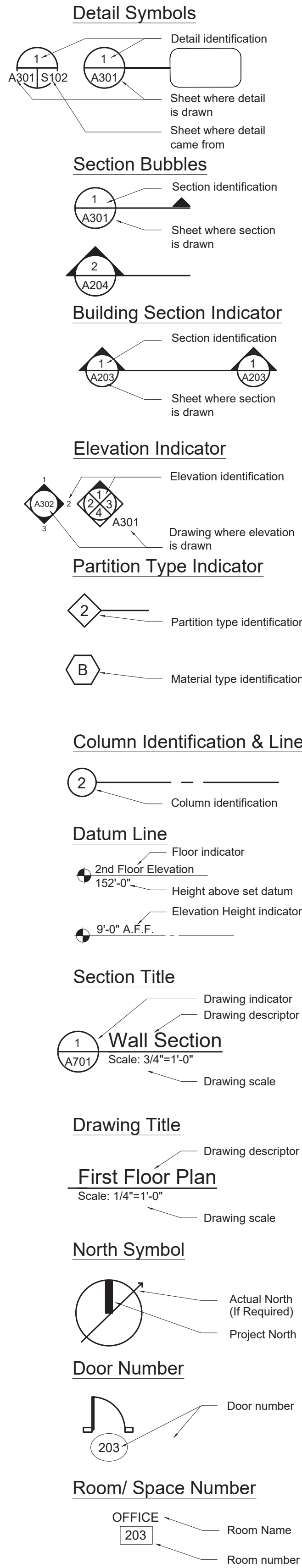
BUILDING TABULATION & CODE INFORMATION:

BASED 2015 MICHIGAN BUILDING CODE
2015 MICHIGAN PLUMBING CODE
2015 MICHIGAN MECHANICAL CODE
2014 MICHIGAN ELECTRIC CODE (INCORPORATING 2011 NEC)
BARRIER FREE DESIGN ICC/ANSI A117.1-2010

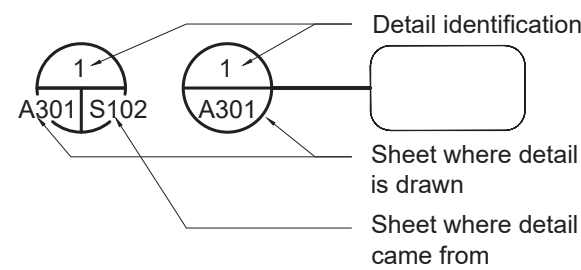
PROPOSED USE GROUP	U = UTILITY	(304)
BUILDING AREAS		
UTILITIES AND STORAGE AREA	268 S.F.	
TOILET/SHOWER ROOMS	833 S.F.	
TOTAL AREA	1101 S.F.	
CONSTRUCTION TYPE	II B	(602)
AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13		NO
HEIGHT MODIFICATIONS	N.A.	Ø
ALLOWABLE HEIGHT U / IIB =	40'	(TABLE 504.3)
ALLOWABLE NUMBER OF STORIES U / II B =	2 STORY	(TABLE 504.4)
ALLOWABLE BUILDING AREA FACTOR U / IIB =	3,000 S.F.	(TABLE 506.2)
FIRE SEPARATION OF OCCUPANCIES	N.A.	(TABLE 508.4)
FRONTAGE INCREASE		(506.3)
FIRE RESISTANCE RATING REQUIREMENTS TYPE V B		(TABLE 601)
STRUCTURAL FRAME	Ø HR	
EXT. BEARING WALLS	Ø HR	
INT. BEARING WALLS	Ø HR	
NON-BEARING EXT. WALLS	Ø HR	
NON-BEARING INT. WALLS	Ø HR	
FLOOR CONSTRUCTION	Ø HR	
ROOF CONSTRUCTION	Ø HR	
EXITS BASED ON MAX OCCUPANT LOAD OF 15		(1006)
REQUIRED DOOR WIDTH	32"	(1005)
NUMBER OF EXITS	2	(1006)
COMMON PATH OF TRAVEL	100'	(TABLE 1006.2.1)
EXIT ACCESS TRAVEL DISTANCE	200'	(TABLE 1011.2)
CORRIDOR WIDTH	36"	(1020)
DEAD END CORRIDOR	NA	(1020.4)
OCCUPANT LOAD		(TABLE 1004.1.2)
OCCUPANT LOAD		
TOILET AND SHOWER ROOMS	833 S.F. / 50 = 17	
UTILITIES AND STORAGE AREA	268 S.F. / 300 = 1	
TOTAL		

GENERAL NOTES

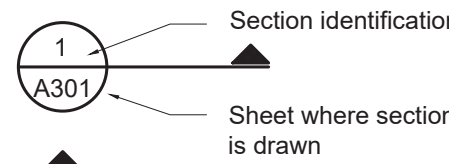
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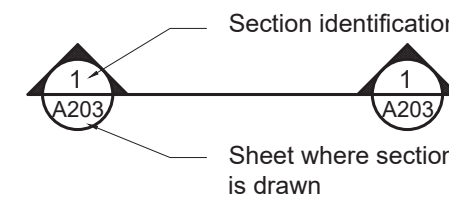
Detail Symbols



Section Bubbles



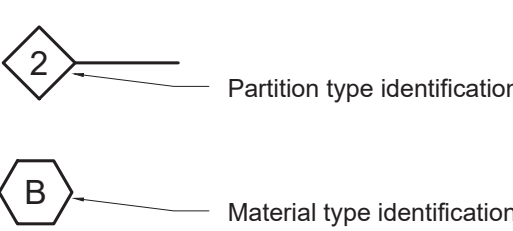
Building Section Indicator



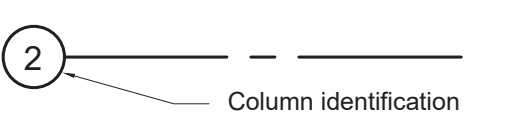
Elevation Indicator



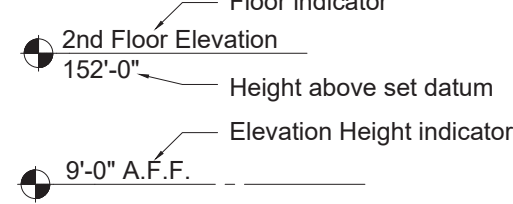
Partition Type Indicator



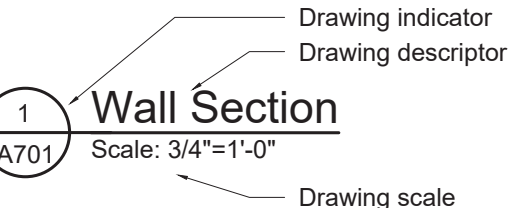
Column Identification & Line



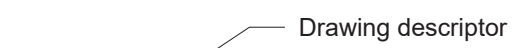
Datum Line



Section Title



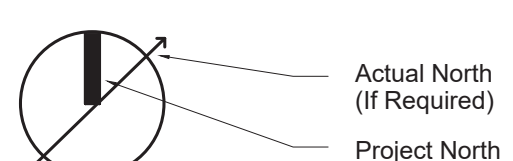
Drawing Title



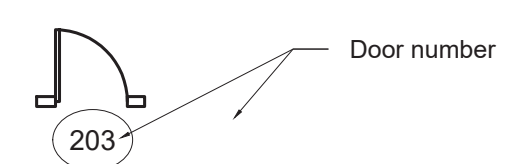
First Floor Plan



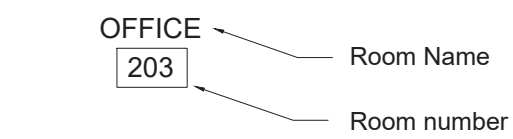
North Symbol



Door Number



Room/ Space Number



NOTE:

This sheet is intended as a general information sheet only. All items shown may not be included within this document set. Refer to plans, elevations, and /or details for specific items that are referenced.

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46777 Woodward Avenue
Pontiac, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257
www.TDGArchitects.com
777 Woodward Avenue
Pontiac, Michigan 48342
E. 800.735.8868
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DESIGN AND CONSTRUCTION DIVISION
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REVIEW
1/24/2020 Phase 500 - 50% Review
10/07/2019 Phase 500 - 30% Review
DATE

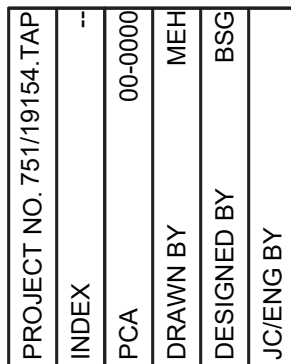
PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

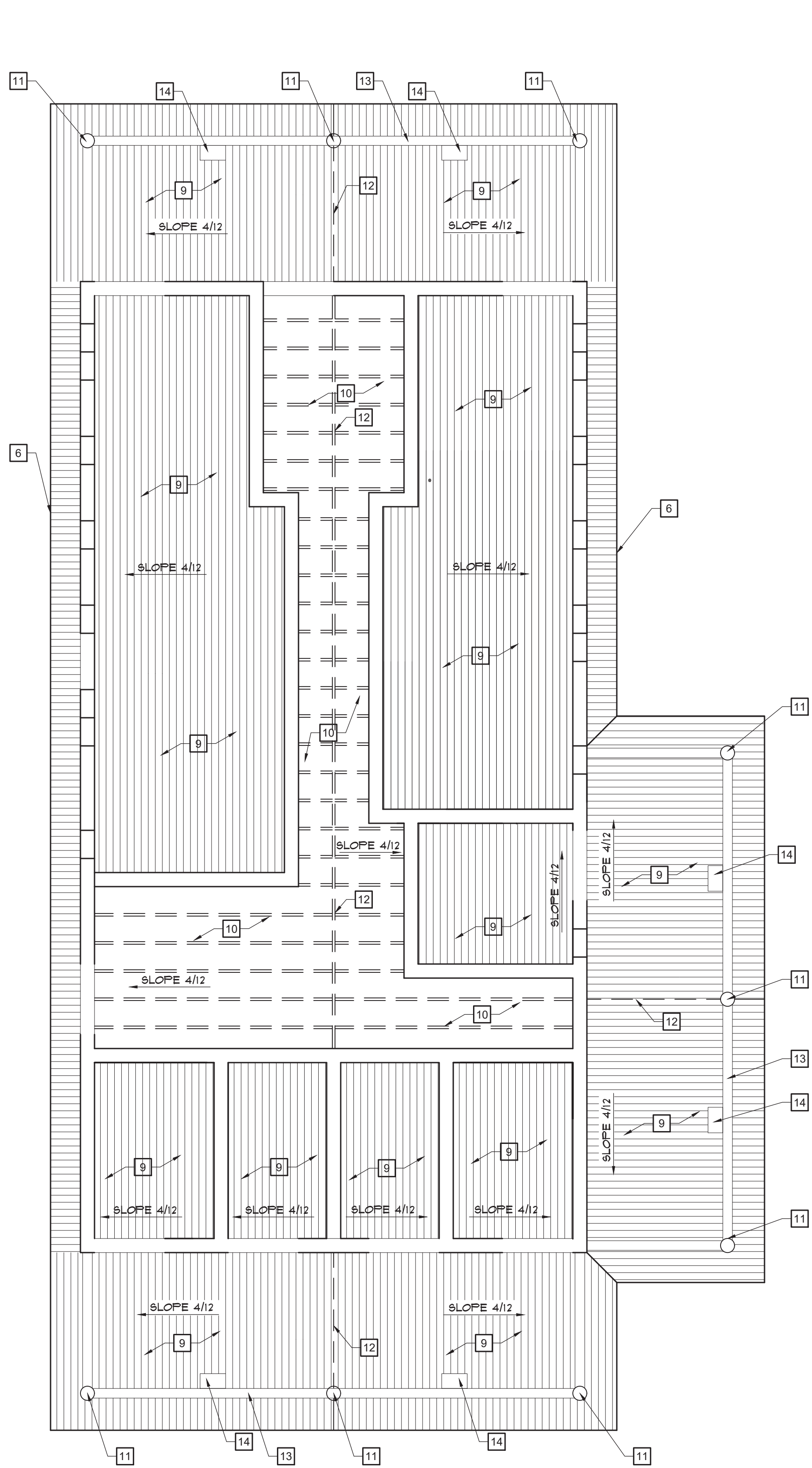
MOUNTING HEIGHTS AND
GENERAL NOTES
WEST, CENTRAL & EAST AREAS

PROJECT NO. 751/19/154-TAP
INDEX
PCA 00-0000
DRAWN BY MEH
DESIGNED BY BSG
JCENG BY

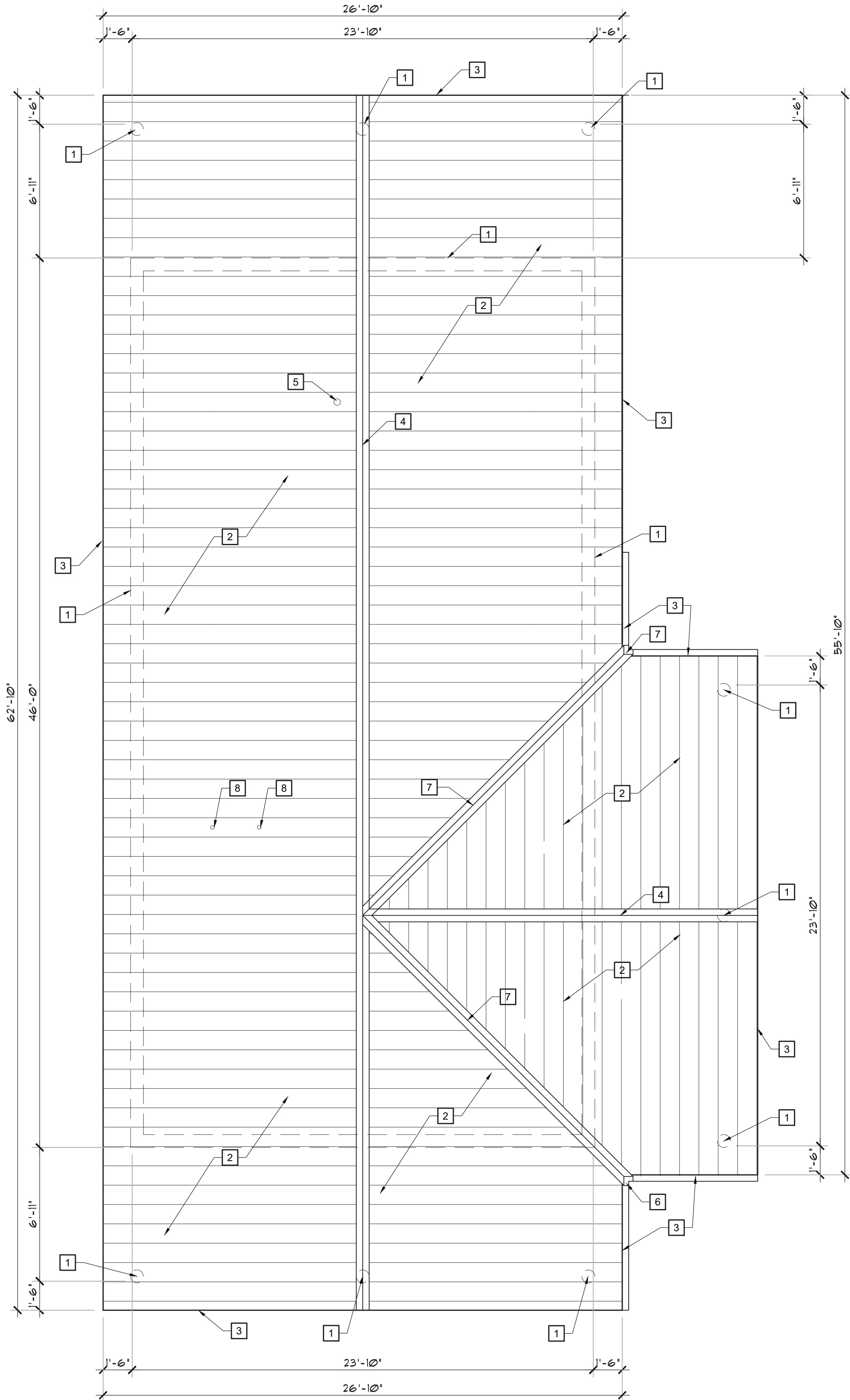


-  **FLOOR PLAN**
SCALE: 1/4"=1'-0"

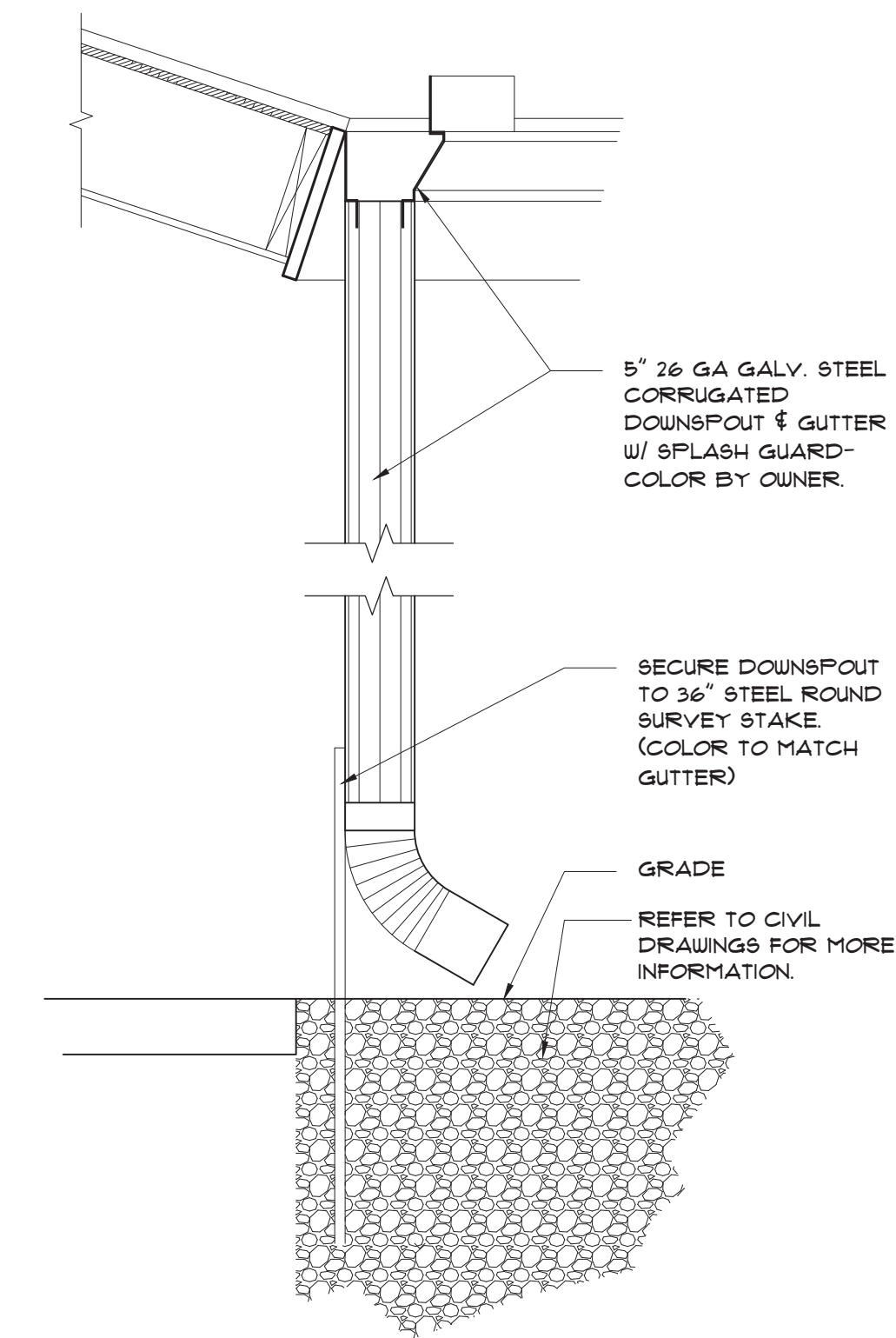




REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



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



GUTTER AND DOWNSPOUT DETAIL
NOT TO SCALE

- KEY NOTES**
- 1 DASHED LINE INDICATES LINE OF BUILDING OR COLUMN BELOW
 - 2 PRE-FINISHED SNAP SEAM METAL ROOFING WITH STRIATIONS ON SELF ADHESIVE ICE AND WATER SHIELD ON 3/8" OSB SHEATHING. ICE AND WATER SHIELD ENTIRE ROOF AREA.
 - 3 METAL DRIP EDGE
 - 4 RIDGE CAP.
 - 5 PLUMBING VENT PENETRATION, FLASH AND SEAL PER ROOFING MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR - PAINT TO MATCH ROOF COLOR
 - 6 SOFFIT - 1X TONGUE AND GROOVE SIDING, SECURED TO UNDERSIDE OF ROOF FRAMING ABOVE. STANDARD FINISH ST-1
 - 7 5" 26 GA GALV. STEEL CORRUGATED DOWNSPOUT & GUTTER w/ SPLASH GUARD
 - 8 WATER HEATERS VENT PENETRATION, FLASH AND SEAL PER ROOFING MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR - PAINT TO MATCH ROOF COLOR
 - 9 1X TONGUE AND GROOVE SIDING, SECURED TO UNDERSIDE OF ROOF FRAMING ABOVE. STANDARD FINISH ST-1
 - 10 1/2" PLYWOOD ON 2X10 ROOF RAFTER WITH FACED R-30 (3 1/2") INSULATION BETWEEN RAFTERS.
 - 11 INDICATES COLUMN BELOW.
 - 12 RIDGE LINE
 - 13 VALLEY RAFTER
 - 14 VALLEY FLASHING PER MANUFACTURER'S RECOMMENDATIONS.
 - 15 LVL'S WRAPPED WITH CEDAR BOARDS
 - 16 SURFACE MOUNTED LIGHT FIXTURE

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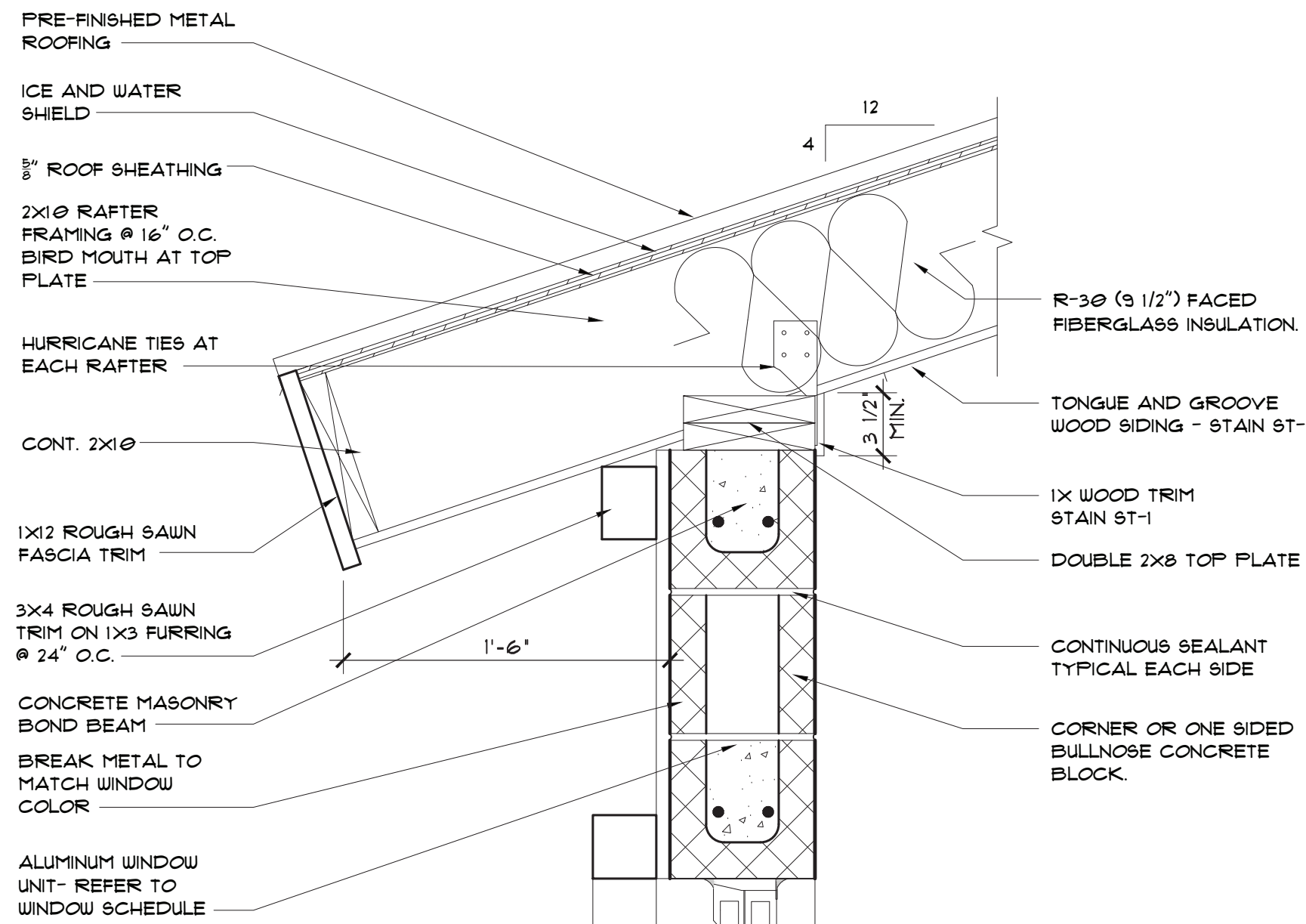
STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
PROCUREMENT AND REAL ESTATE SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

DATE	REVIEW
1/24/2020	Phase 500 - 50% Review
10/07/2019	Phase 500 - 30% Review

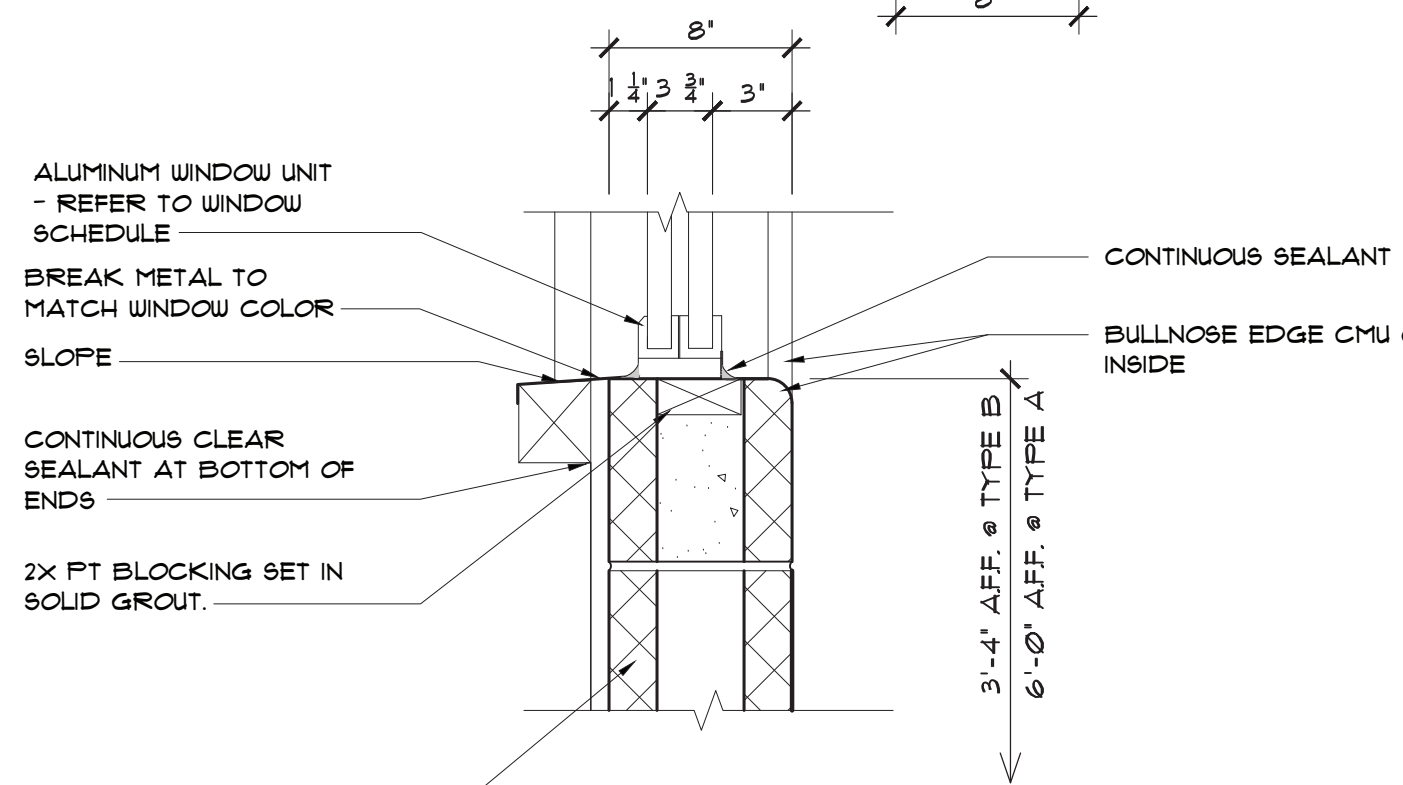
PROJECT DESCRIPTION
**BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS**
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

REFLECTED CEILING PLAN
AND ROOF PLAN
WEST, CENTRAL & EAST AREAS

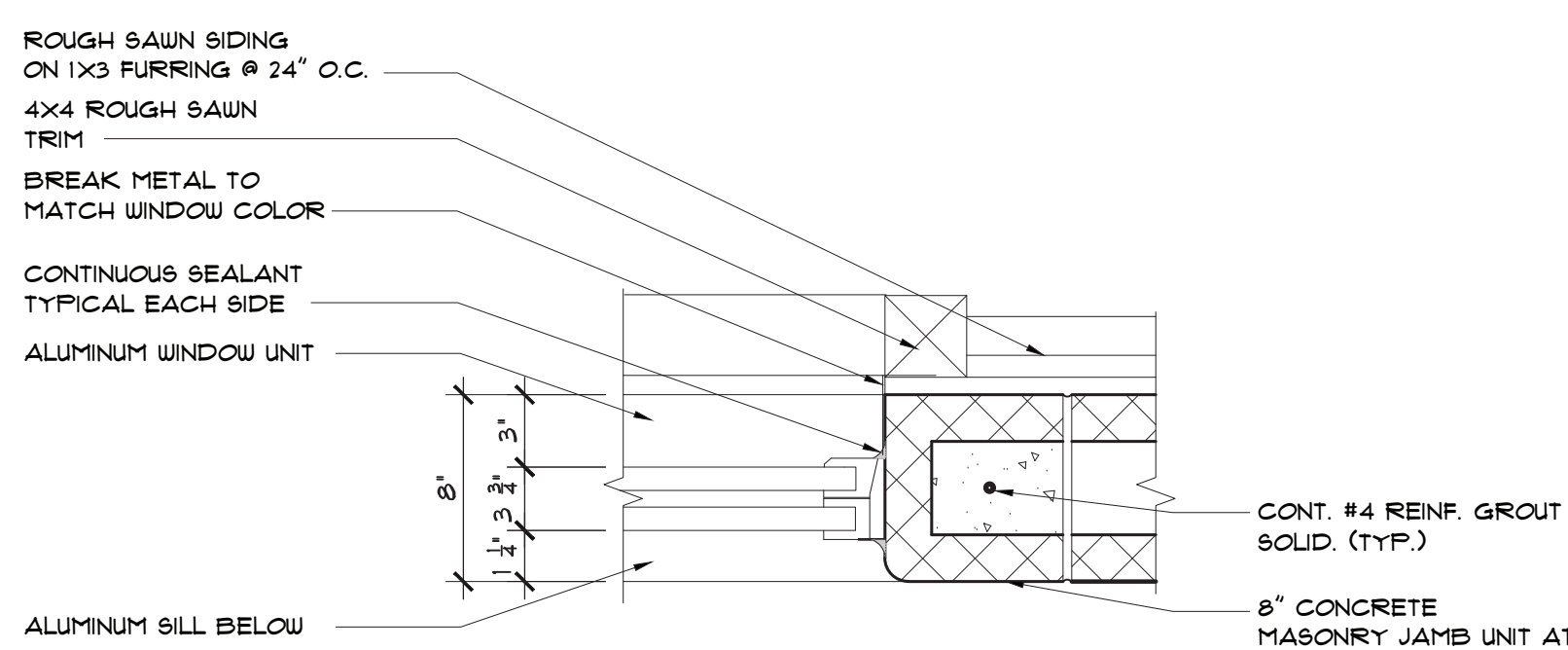
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DRAWN BY MEH	
DESIGNED BY BSG	
JC/ENG BY	



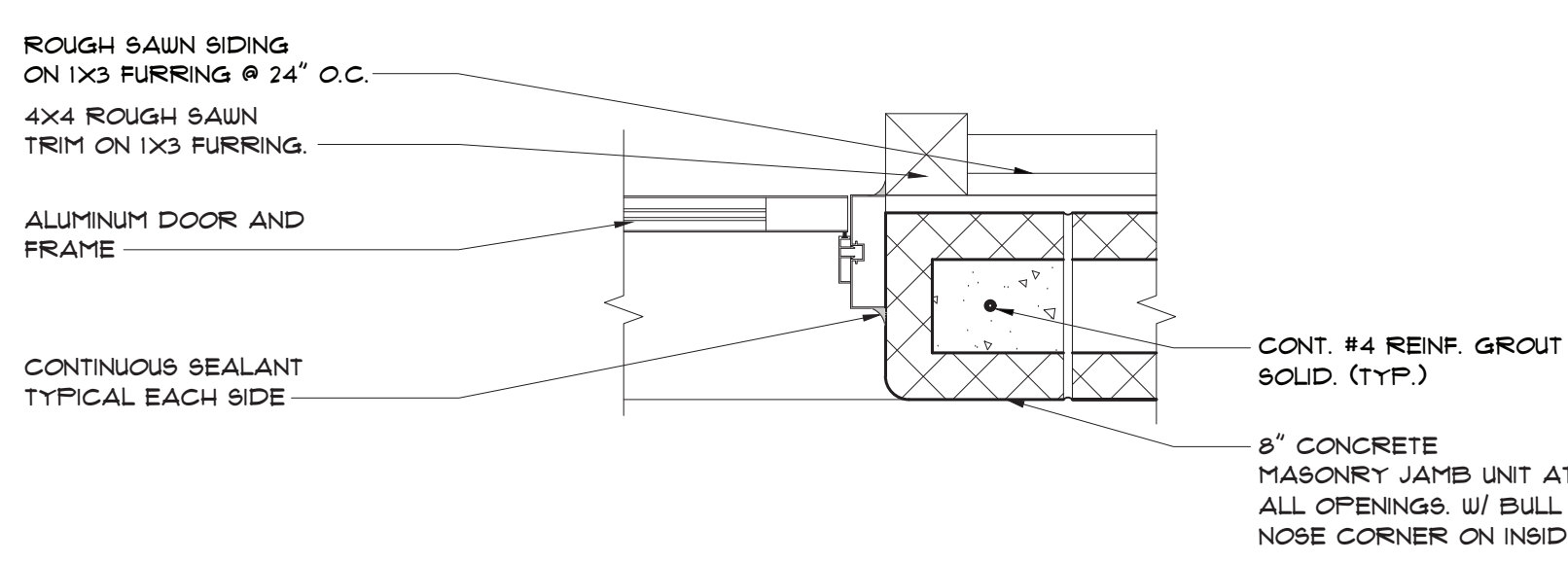
1 WINDOW HEAD
A301 A301 SCALE: 1-1/2"=1'-0"



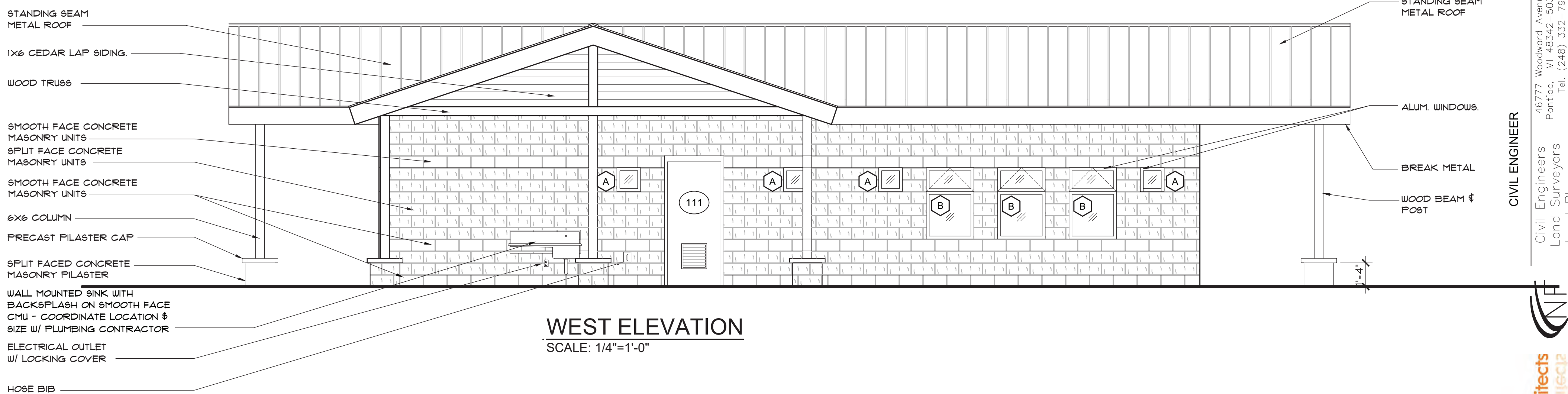
2 WINDOW SILL
A301 A301 SCALE: 1-1/2"=1'-0"



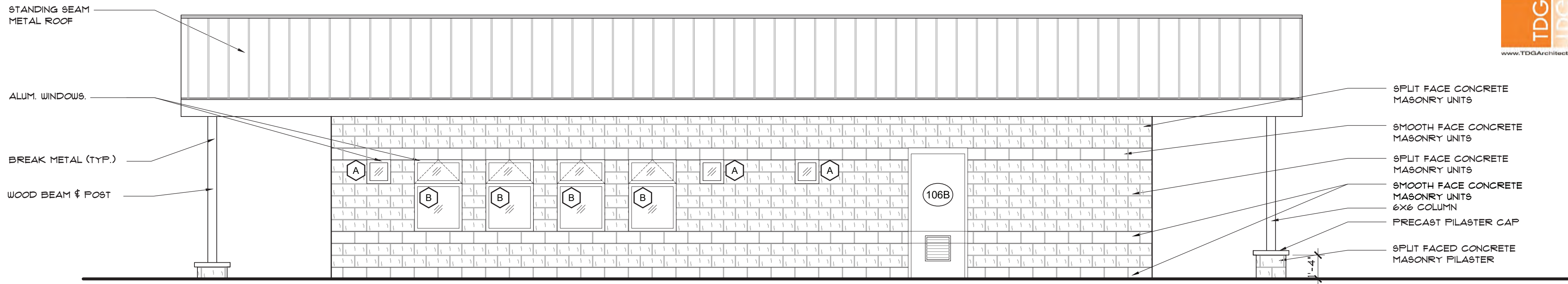
3 WINDOW JAMB
A301 A301 SCALE: 1-1/2"=1'-0"



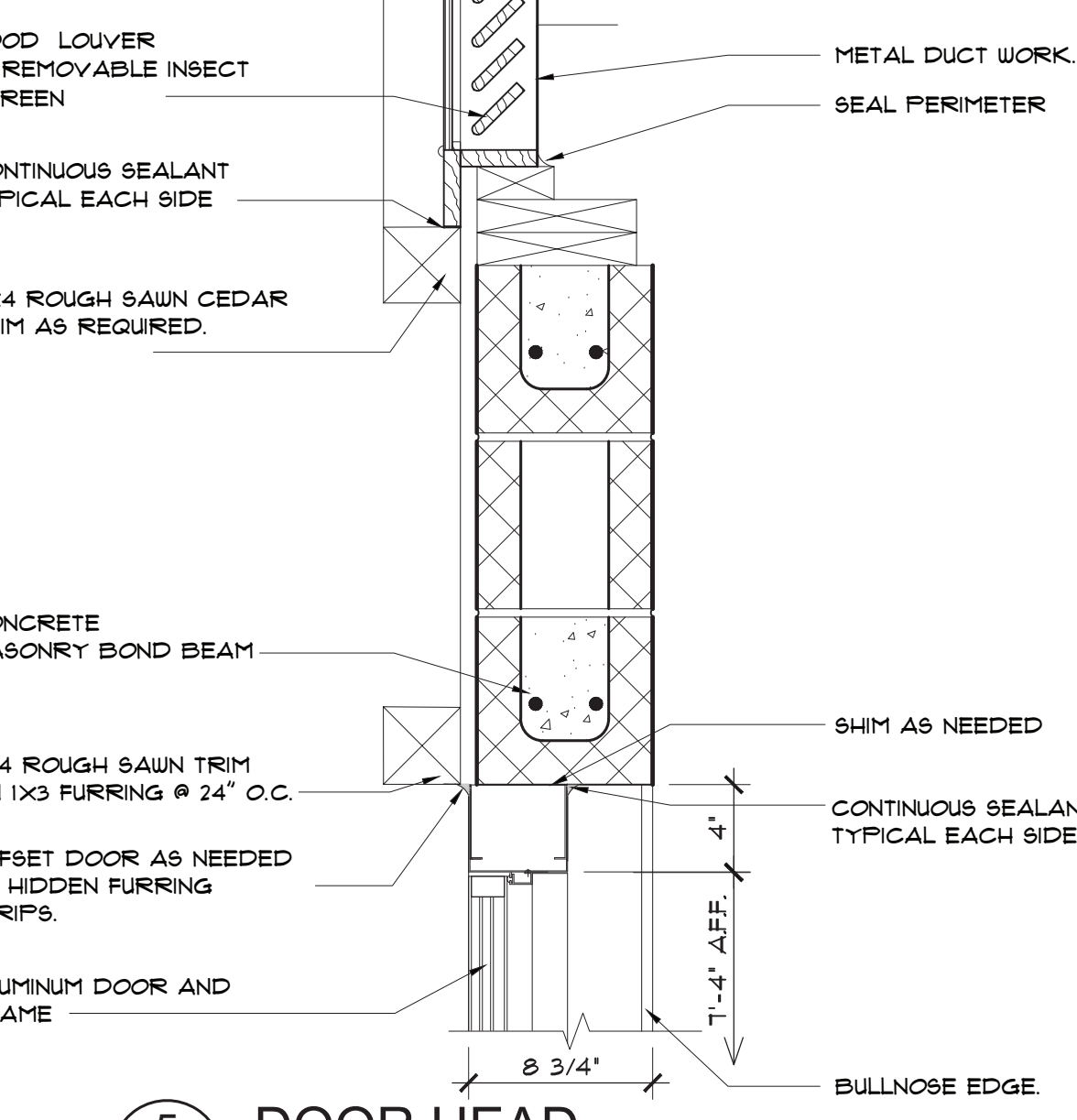
4 DOOR JAMB
A301 A301 SCALE: 1-1/2"=1'-0"



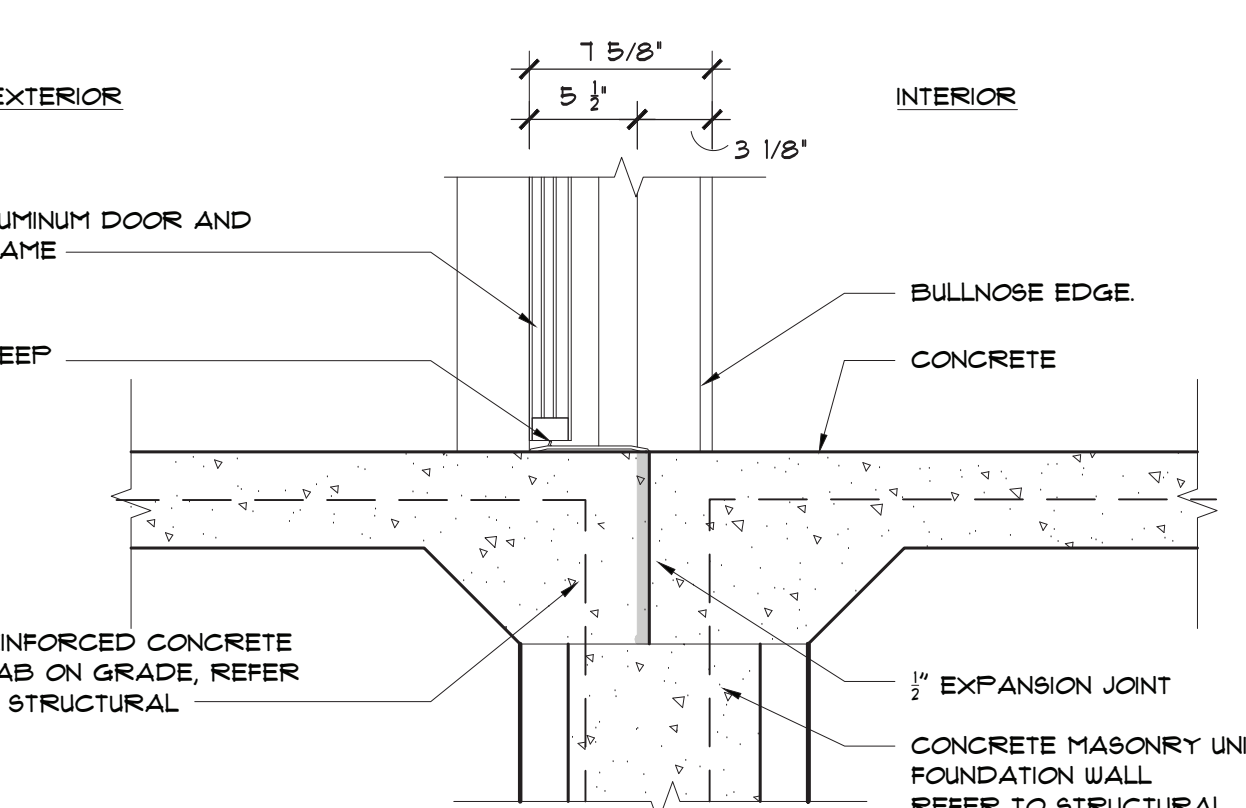
WEST ELEVATION
SCALE: 1/4"=1'-0"



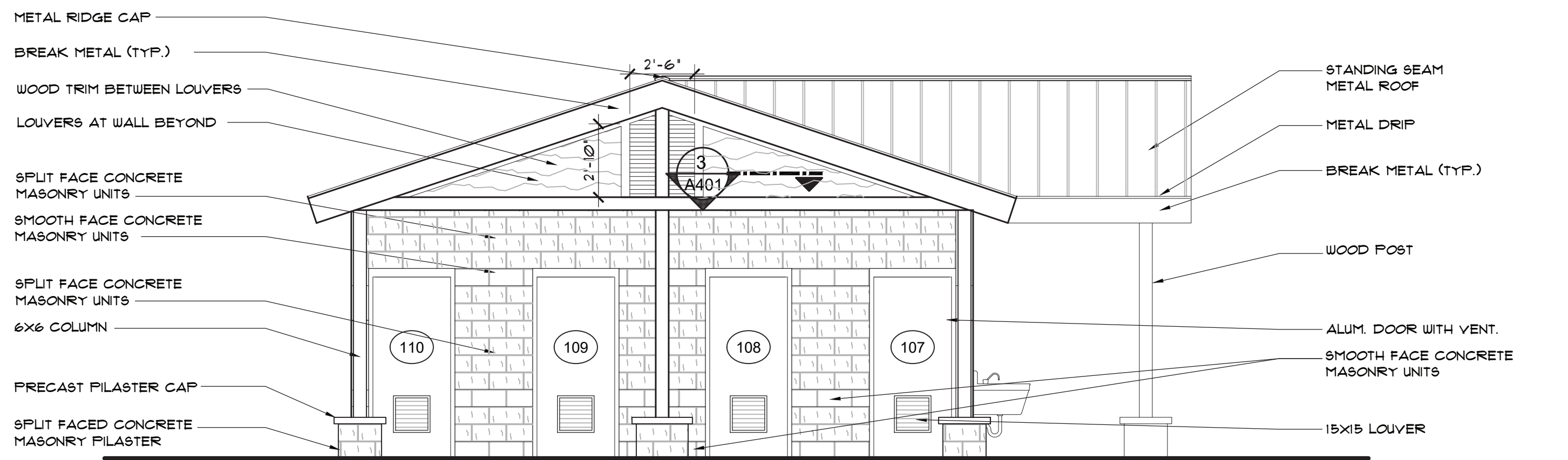
EAST ELEVATION
SCALE: 1/4"=1'-0"



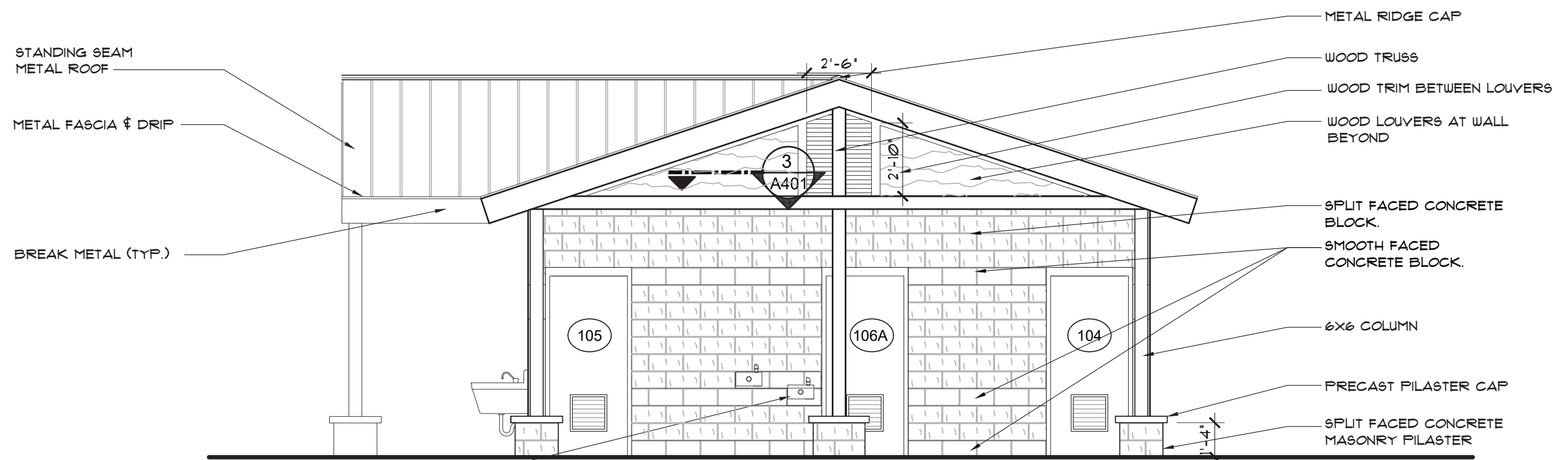
5 DOOR HEAD
A301 A301 SCALE: 1-1/2"=1'-0"



6 DOOR THRESHOLD
A301 A301 SCALE: 1-1/2"=1'-0"



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



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

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Tel. (248) 332-7931
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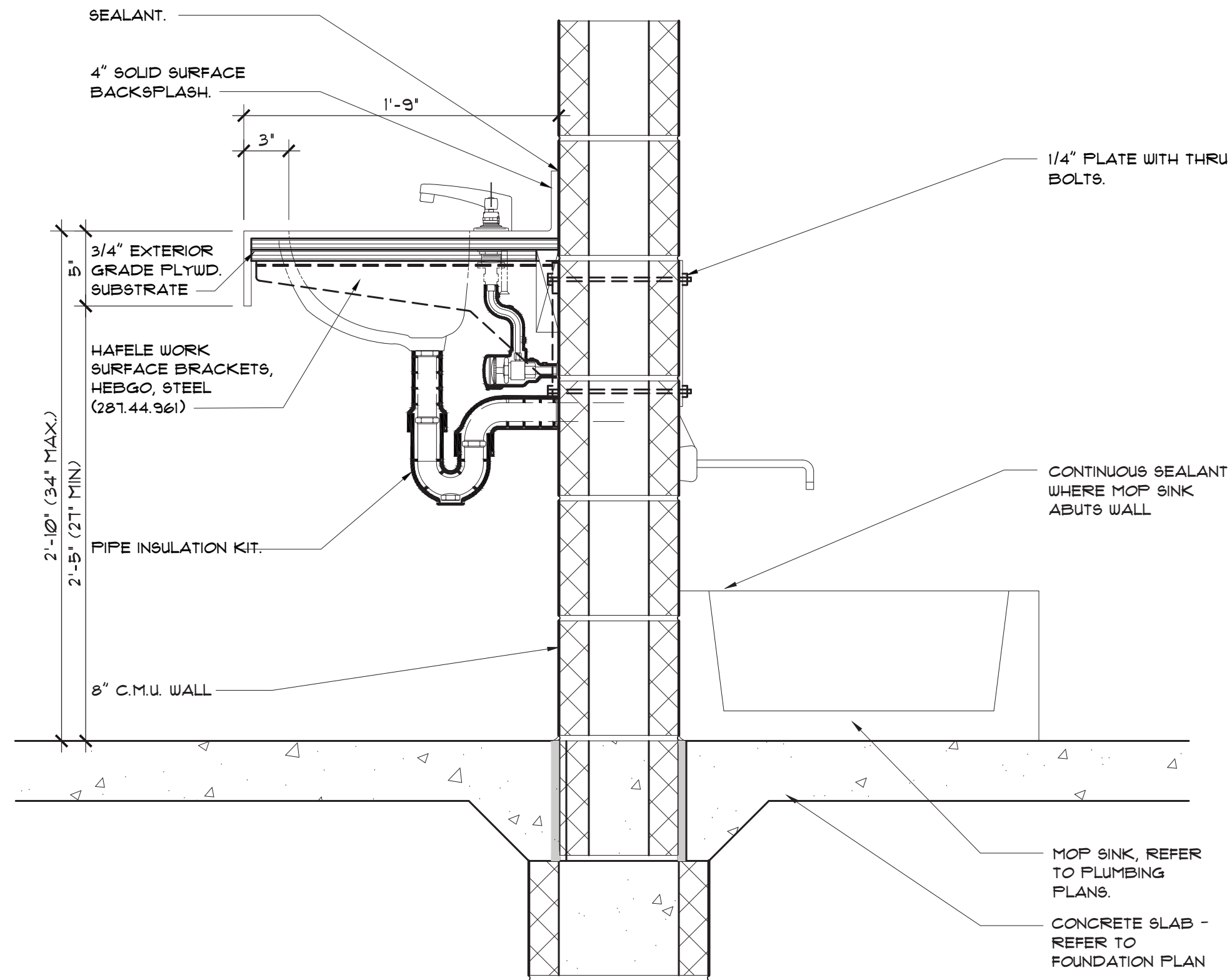
DATE	REVIEW
1/24/2020	Phase 500 - 50% Review
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PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

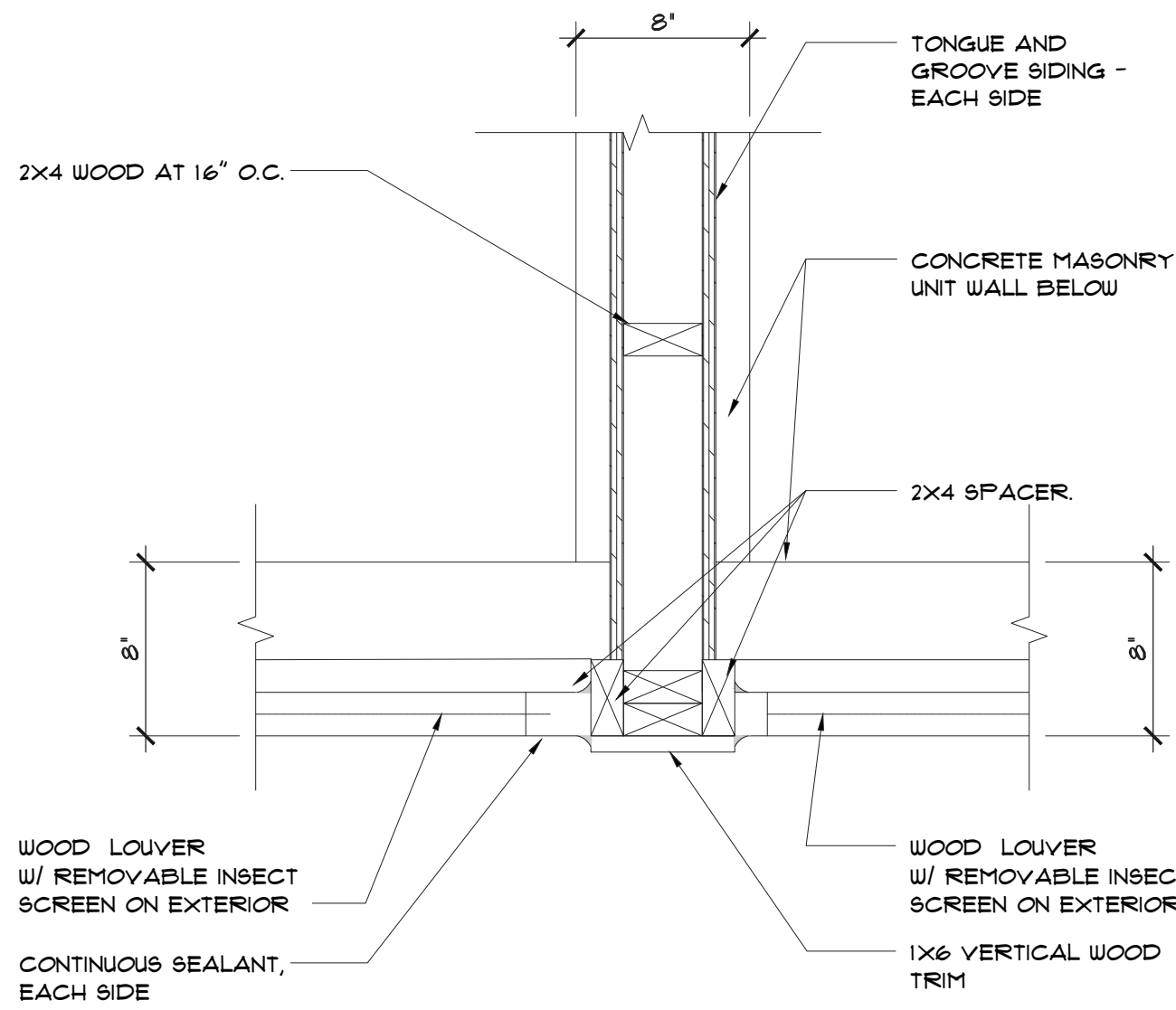
EXTERIOR ELEVATIONS
AND DETAILS
STONE BASE - OPTION B
WEST, CENTRAL & EAST AREAS

PROJECT NO. 75119154-TAP	INDEX	1
PCA	00-0000	
DRAWN BY	MEH	
DESIGNED BY	BSG	
JCENG BY		

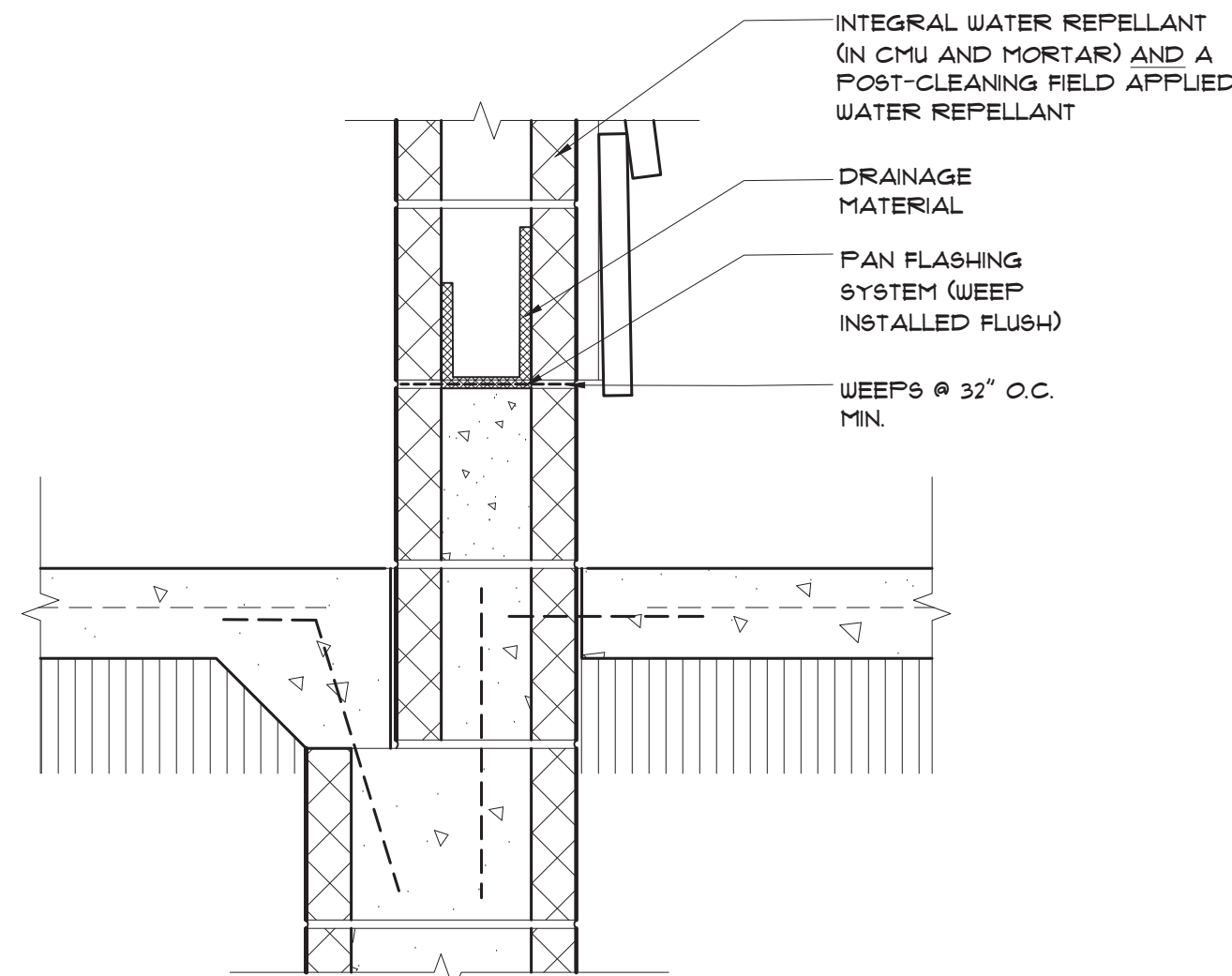
A 301



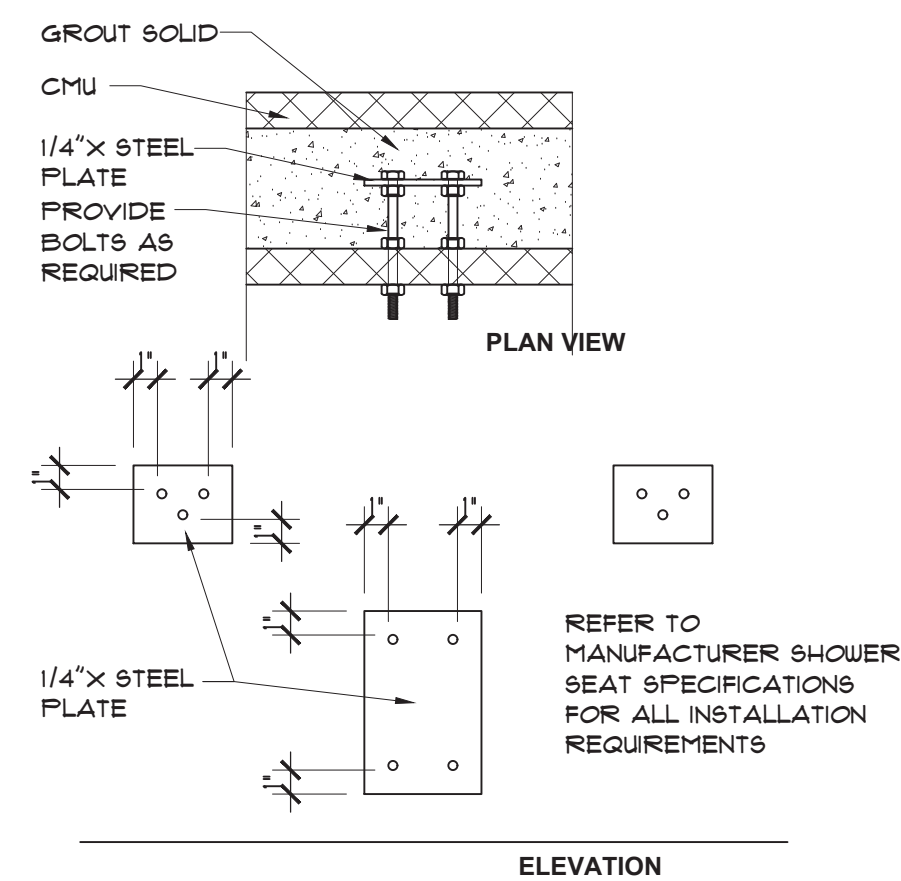
6 COUNTER / MOP SINK CURB
A401 | A401 SCALE: 1-1/2"=1'-0"



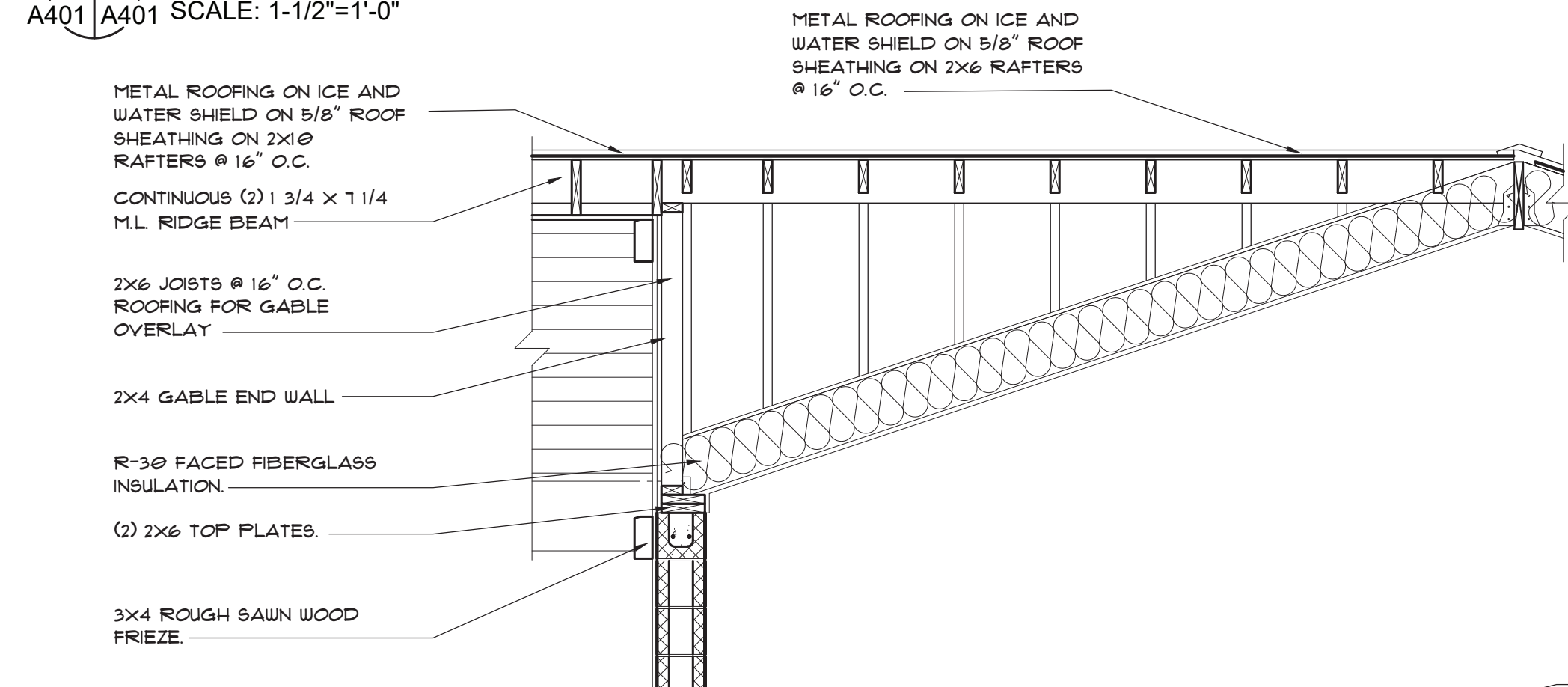
4 GABLE DETAIL
A401 | A401 SCALE: 1-1/2"=1'-0"



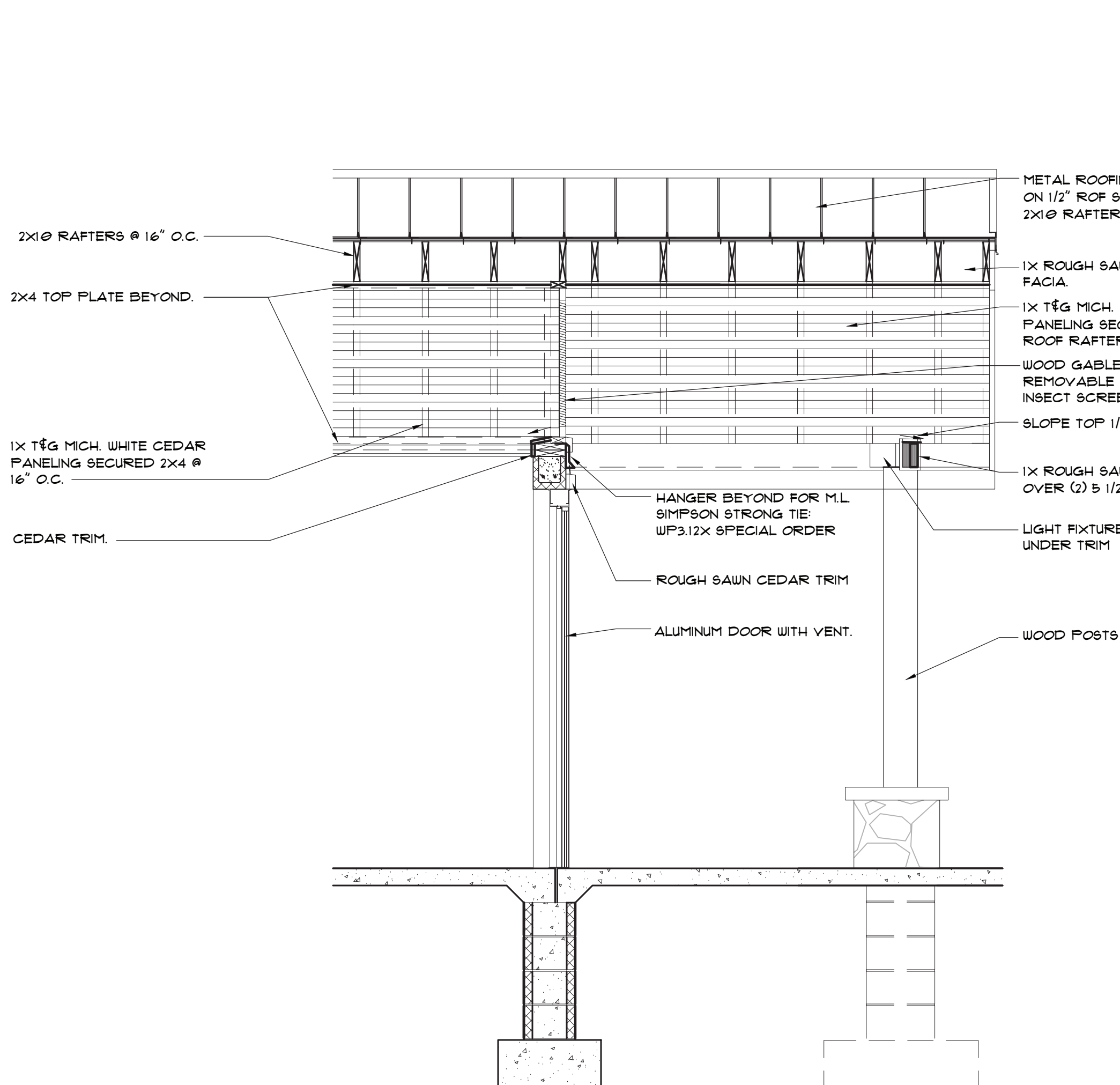
5 FLASHING/WEEPS
A401 | A401 SCALE: 1-1/2"=1'-0"



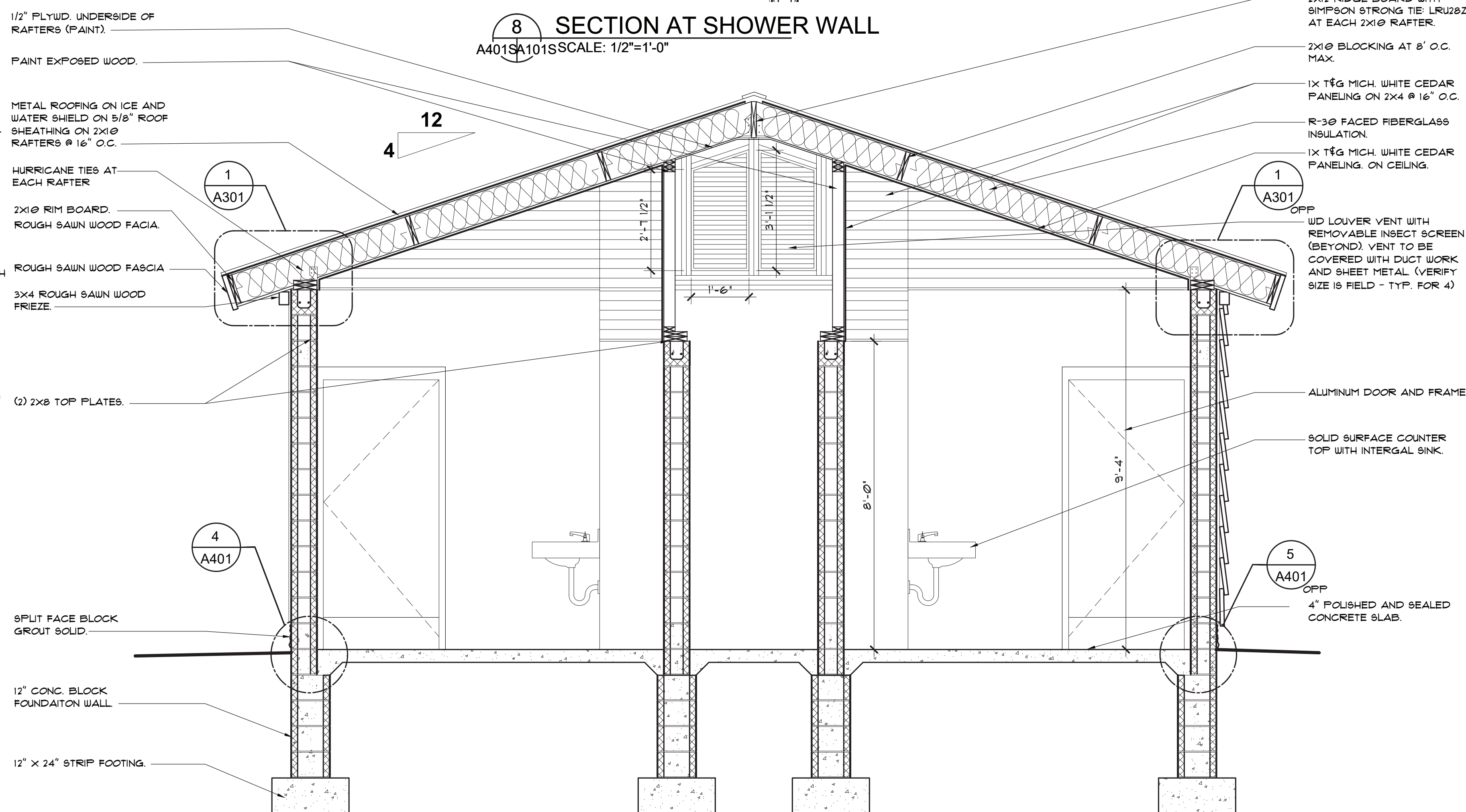
9 ADA SHOWER SEAT WALL MOUNT DETAIL
A401 | A401 SCALE: 1-1/2"=1'-0"



8 SECTION AT SHOWER WALL
A401 | A401 SCALE: 1-1/2"=1'-0"



7 SECTION AT SHOWER WALL
A401 | A401 SCALE: 1/2"=1'-0"



1 BUILDING SECTION
A401 | A401 SCALE: 1/2"=1'-0"

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Fax. (248) 332-8257
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PROJECT DESCRIPTION
BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

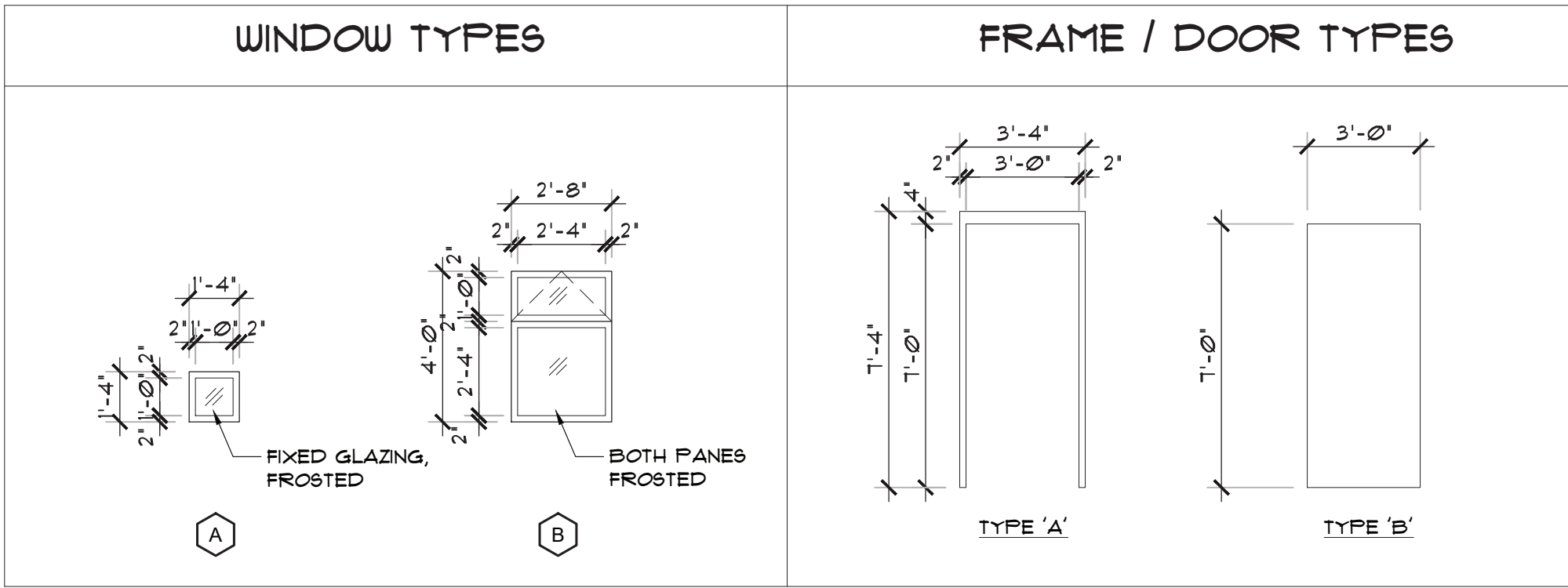
BUILDING SECTION
AND DETAILS
WEST, CENTRAL & EAST AREAS

PROJECT NO. 75119154.TAP	INDEX
PCA	00-0000
DRAWN BY MEH	DESIGNED BY BSG
JCENG BY	

A 401

DOOR SCHEDULE												
DOOR NUMBER	FRAME		DOOR				HARD SET	DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	SIZE		HEAD	JAMB	THRESHOLD	MULLION	
104	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-1	5/A301	4/A301	6/A301		
105	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-1	5/A301	4/A301	6/A301		
106A	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-3	5/A301	4/A301	6/A301		
106B	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-3	5/A301	4/A301	6/A301		
107	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-2	5/A301	4/A301	6/A301		
108	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-2	5/A301	4/A301	6/A301		
109	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-2	5/A301	4/A301	6/A301		
110	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-2	5/A301	4/A301	6/A301		
111	ALUM	A	ALUM	I		3'-0" X 1'-0"	HW-2	5/A301	4/A301	6/A301		

WINDOW SCHEDULE										
WINDOW NUMBER	FRAME		WINDOW			DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	TYPE	GLAZING	SIZE	HEAD	JAMB	SILL	MULLION	
A	ALUM	A	FIXED	INS./SAF.	1'-4" X 1'-4"	1/A301	3/A301	2/A301		
B	ALUM	A	FIXED/AWN	INS./SAF.	4'-0" X 2'-8"	1/A301	3/A301	2/A301		

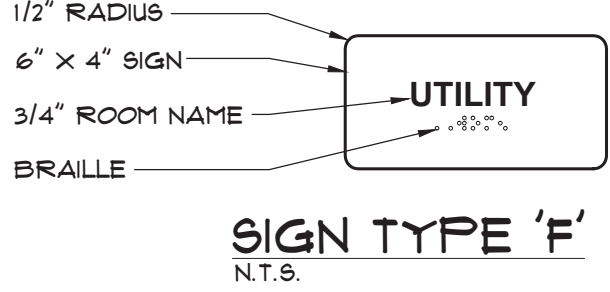
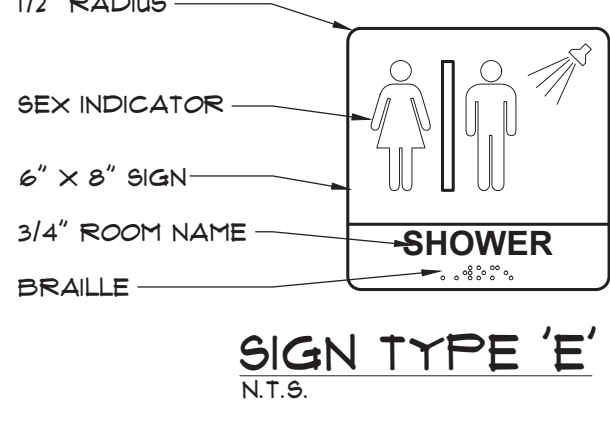
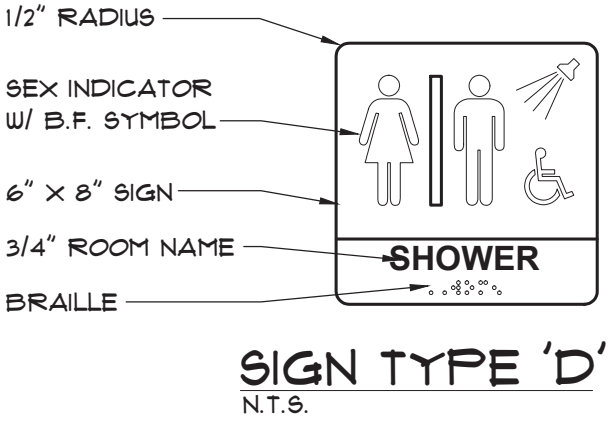
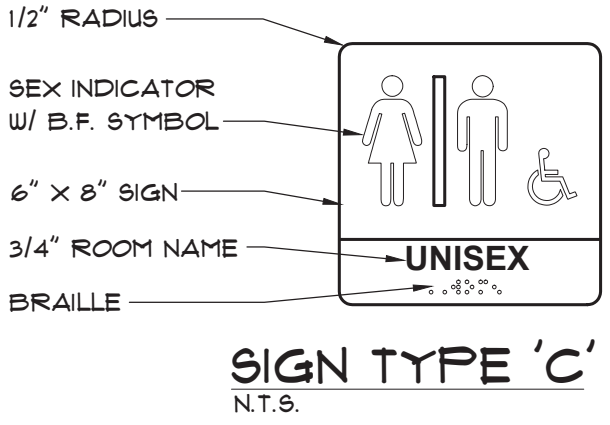
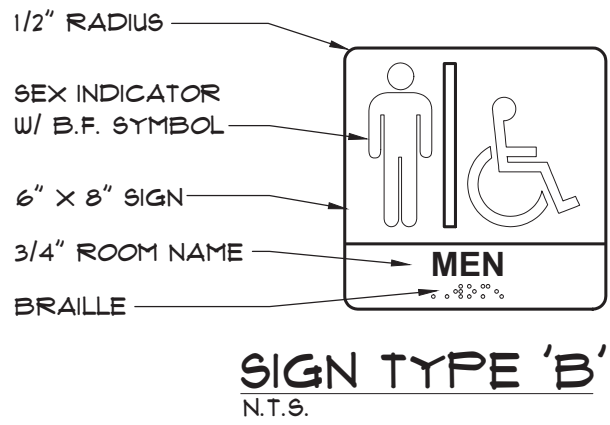
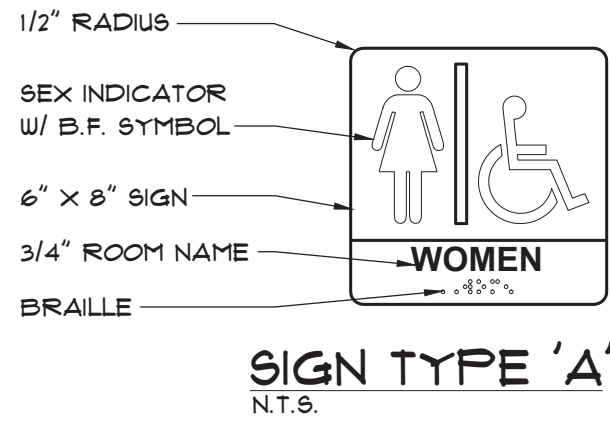


ROOM FINISH SCHEDULE												
ROOM		CEILING TYPE	CEILING COLOR	FLOOR	BASE	WALLS					SIGN TYPE	REMARKS
NUMBER	NAME					TYPICAL	NORTH	EAST	SOUTH	WEST		
101	PORCH A	T&G	ST-1	SEALED								
102	PORCH B	T&G	ST-1	SEALED								
103	PORCH C	T&G	ST-1	SEALED								
104	MEN'S TOILET	T&G	ST-1	FF-1		PT-1					B I	
105	WOMEN'S TOILET	T&G	ST-1	FF-1		PT-1					A I	
106	UTILITIES AND STORAGE ROOM	EXP-1	PT-3	SEALED		PT-1					F	
107	ADA UNI-SEX SHOWER	T&G	ST-1	FF-1		PT-2					D I	
108	ADA UNI-SEX SHOWER	T&G	ST-1	FF-1		PT-2					D I	
109	UNI-SEX SHOWER	T&G	ST-1	FF-1		PT-2					E I	
110	UNI-SEX SHOWER	T&G	ST-1	FF-1		PT-2					E I	
111	FAMILY/ADA LAVATORY	T&G	ST-1	FF-1		PT-1					C I	

* ALL INTERIOR WOOD TO BE ST-1

EXTERIOR FINISH SCHEDULE			
MATERIAL	MANUFACTURE	COLOR / FINISH	NOTES
METAL ROOFING	PAC CLAD SNAP-ON ROOFING	HARTFORD GREEN - PC	OR APPROVED EQUAL
BREAK METAL		TO MATCH ADJACENT MAT.	
WOOD SIDING	1X6 CEDAR LAP SIDING	STAIN AND SEAL ST-2	
TRIM BOARDS	CEDAR - SAME MILL	STAIN AND SEAL ST-2	
T&G CEDAR BOARDS CEILING	MICHIGAN WHITE CEDAR	ST-2 - SMOOTH	

* MOCK UP TO BE CREATED FOR OWNER APPROVAL



CODE TO FINISH SCHEDULE

- CEILING FINISHES

T&G 1X TONGUE AND GROOVE M1 WHITE CEDAR, STAINED WITH ST-1

EXP-1 EXPOSED STRUCTURE - PAINT P-1

- PAINT FINISH

PT-1 BEHR, COLOR: YL-W05, SWISS COFFEE - (MATCH COLOR)

PT-2 BEHR, COLOR: YL-W05, SWISS COFFEE (MATCH COLOR)
(2) COATS OF EACH EPOXY PAINT AND EPOXY BLOCK FILLER

PT-3 PRIMER: SW KEM CATI COAT HS EPOXY FILLER/SEALER, B42 SERIES
TOP COAT: SW MACROFOXY 646 PC B58 SERIES MATCH (PT-1) - NO SUBSTITUTES.

- STAIN FINISH

ST-1 BEHR CLEAR 500/400

ST-2 BEHR CEDAR NATURAL TONE 250

ST-3 BEHR TO MATCH PHASE 4.

-SOLID SURFACES

SS-1 WILSONART SOLID SURFACE, COLOR: SEA STONE 9302CS
WITH INTEGRAL SINK
TEXTURE: MATTE

-FLOORING

FF-1 POLISHED CONCRETE, CLASS C LEVEL 3 FINISH - REFER TO SPECIFICATION.

REMARKS TO FINISH SCHEDULE

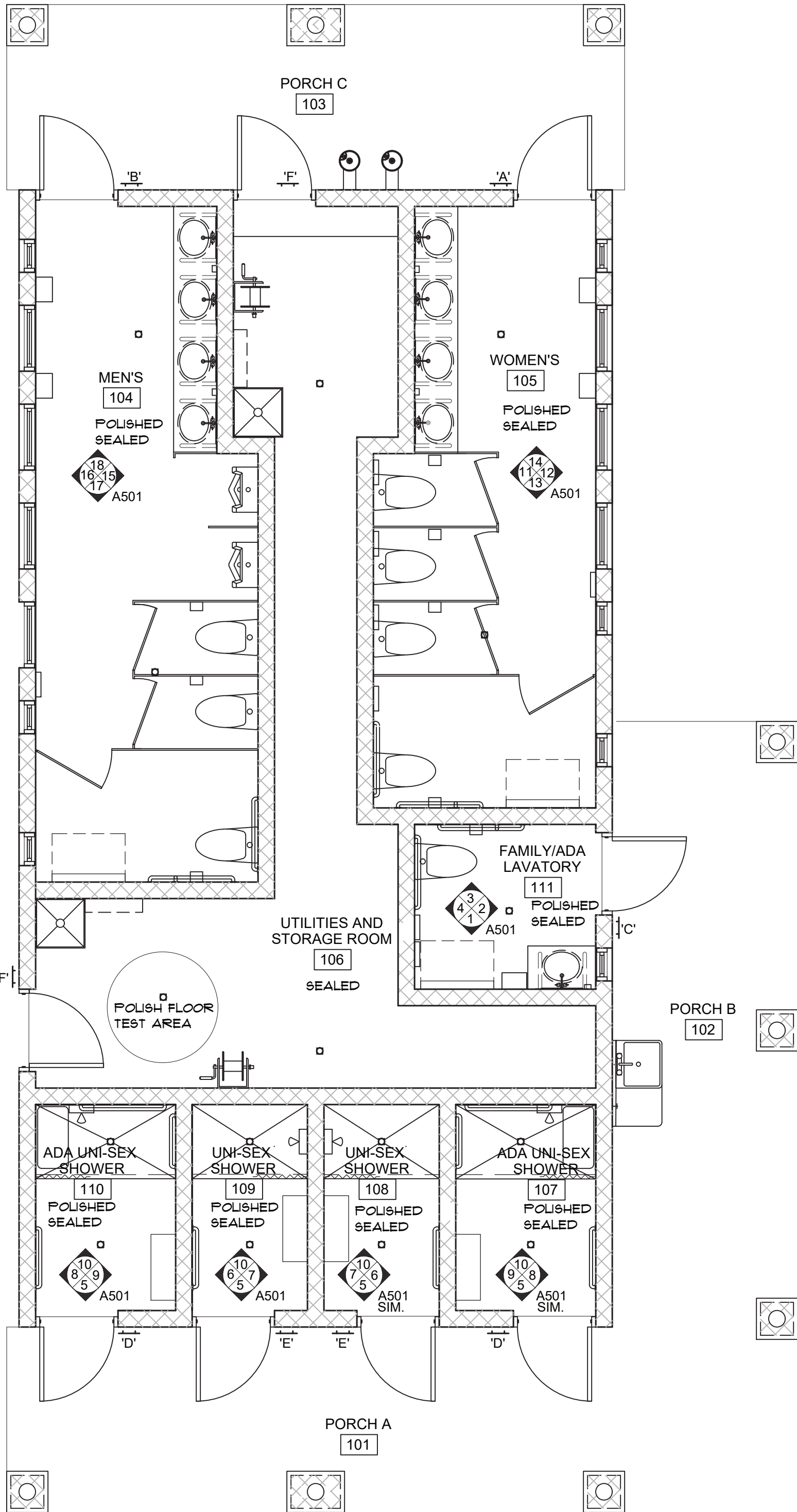
- ALL FINISHES/COLORS TO MATCH PHASE 4 TOILET BUILDING.
- ALL DOORS AND WINDOWS TO BE DARK BRONZE FINISH

GENERAL NOTES TO FINISH SCHEDULE

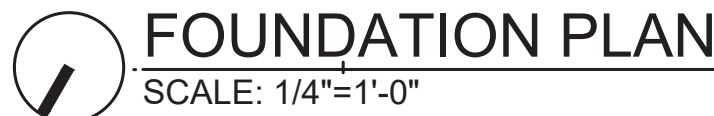
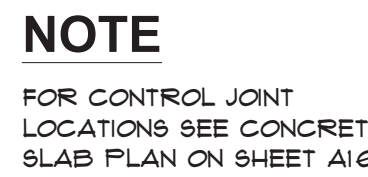
- SEE FINISH PLAN FOR LOCATION OF ROOM NUMBERS AND NAMES.
- SEE FINISH PLAN FOR LOCATION OF SIGNAGE.

ACCESSORIES SCHEDULE

NAME	MANUF.	MODEL #	COLOR	SUPPLIED BY		INSTALLED BY		REMARKS
				G.C.	OWNER	G.C.	OWNER	
WALLS HOOKS	BRADLEY	911	S.S.	YES		YES		
MIRRORS	BRADLEY	141-1036		YES		YES		FRAMLESS GLASS MIRROR
HAND DRYER	DYSON	AIRBLADE V		YES		YES		
SOAP DISPENSOR						YES		
TOILET PAPER DISPENSOR						YES		
CHANGING TABLES	BRADLEY	962-11	S.S.	YES		YES		
SHARP OBJECTS CONTAINER						YES		
SANTAR NAPKIN HOLDER						YES		
HOSE REEL					YES	YES		
MOP SHELF	BRADLEY	9384	S.S.	YES		YES		
BARRIER FREE SHOWER SHEET	SYMMONS	HC-111	S.S. / WHITE	YES		YES		
GRAB BARS	BRADLEY	811	S.S.	YES		YES		
TOWELS BARS	BRADLEY	831	S.S.	YES		YES		
FIXED BENCH	LIBERTY	LIBERTY	S.S.	YES		YES		WITH PERFORATED BENCH
CURTAIN ROD	BRADLEY	9384	S.S.	YES		YES		
CURTAIN			NYLON - WHITE	YES		YES		



FINISH PLAN
SCALE: NO SCALE



- 1 4" CONCRETE SLAB W/ W.U.F. 6'x6'-W/ 4'xW/ 4 IN TOP $\frac{1}{2}$ OF SLAB OVER 10 MIL VAPOR BARRIER ON COMPACTED GRANULAR FILL SLOPE CONCRETE AS SHOWN ON SHEET A1(0) CONCRETE SLAB PLAN TO ACCOMMODATE POSITIVE DRAINAGE TO FLOOR DRAINS. SEE FINISH PLAN FOR POLISHED/SEALER AREAS SHEET A6(0).
- 2 12" REINFORCED CONCRETE FOUNDATION WALL WITH CONT. 24" X 12" STRIP FTG.
- 3 STEP FOUNDATION WALL 8" AT DOOR THRESHOLD / ENTRY SYSTEM. (ONE COURSE OF BLOCK AT DOORS)
- 4 4" CONCRETE GRADE SLAB; REFER TO CIVIL ENG. DOCUMENTS
- 5 PROVIDE THRU-WALL PVC SLEEVE. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND SITE CONTRACTORS
- 6 16"x16" PIER SUPPORTED BY 36"x36" PAD FTG.
- 7 2X10 SP-F NO RAFTERS @ 16" O.C.
- 8 (2) 1 $\frac{3}{4}$ " X 5 $\frac{1}{2}$ " LVL W/ SIMPSON TOP FLANGE HANGER @ CMU WALL CONNECTION - WRAP W/ CEDAR BOARDS - INSET BEAM FROM CORNER TO ALLOW BEARING OF HANGER
- 9 (2) 1 $\frac{3}{4}$ " X 1 $\frac{1}{2}$ " LVL W/ SIMPSON LBV3.5/6/125 TOP FLANGE HANGER, OR EQUAL @ CMU WALL CONNECTION
- 10 8" CMU LINTEL W/ (2) #5 CONT., BOND BEAM AT OPENINGS AND TOP COURSE OF BLOCK.
- 11 (2) 2X8 TOP PLATE SECURE TO BLOCK WITH 1/2" ANCHOR BOLT @ 16" O.C. OR SIMPSON STRONG TIE PER MANF.
- 12 6" DIA. WOOD COLUMN W/ SIMPSON CBTZ CONCEALED BEAM TIE.
- 13 2X6 NAILER
- 14 24"x12" REINFORCED CONC. STRIP FTG. - REFER TO DETAIL A / S2(0)S
- 15 2X12 RIDGE BEAM
- 16 NOT USED
- 17 PROVIDE GROUNDING BAR CONNECTED TO FOOTING REINFORCING PER NEC SECTION 250.52(A)(3) COORDINATE WITH ELECTRICAL CONTRACTOR
- 18 (2) 1 $\frac{3}{4}$ " X 1 $\frac{1}{2}$ " LVL WRAP W/ CEDAR BOARDS
- 19 INDICATES 8" CONCRETE BLOCK WALL ABOVE.
- 20 PROVIDE #4 CONT. REINF. @ 32" O.C. MAX WITH REINFORCING AT CORNERS, INTERSECTIONS AND EACH SIDE OF OPENINGS.



TDG #19-946

1/24/2020	Phase 500 - 50%	Review
10/07/2019	Phase 500 - 30%	Review
DATE		REVIEW

PROJECT DESCRIPTION

**BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS**

SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

FOUNDATION PLAN
ROOF FRAMING PLAN
AND DETAILS
WEST, CENTRAL & EAST AREAS

PROJECT NO. 751/19154.TAP
INDEX --
PCA 00-0000
DRAWN BY MEH
DESIGNED BY BSG
JC/ENG BY

101 S

TRUCTURAL SPECIFICATIONS:

ONCRETE SPECIFICATIONS:

ONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-11, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", EXCEPT AS MODIFIED BY SUPPLEMENTAL REQUIREMENTS.

ONCRETE SHALL HAVE A MINIMUM OF 3000 PSI, 28 DAY COMPRESSIVE STRENGTH, UNLESS NOTED OTHERWISE (U.N.O.), (517 LBS. OF CEMENT PER CUBIC YARD MINIMUM (5.5 SACKS) & A WATER/CEMENT RATIO NOT TO EXCEED 6 GALLONS PER SACK). EXTERIOR CONCRETE SLABS SHALL HAVE A MINIMUM OF 4500 PSI, 28 DAY COMPRESSIVE STRENGTH, MAXIMUM AGGREGATE SIZE OF ¾", AND 6% AIR ENTRAINMENT.

THE USE OF ADDITIVES SUCH AS FLY ASH OR CALCIUM CHLORIDE IS NOT ALLOWED WITHOUT PRIOR REVIEW FROM THE ENGINEER.

THE CONCRETE CONTRACTOR SHALL SUBMIT THE DESIGN MIX OF EACH TYPE FOR REVIEW BY THE ENGINEER AND ARCHITECT PRIOR TO PLACEMENT.

ISOLATION JOINT: MATERIAL DECK-O-FOAM BY W.R. MEADOWS. REMOVE TEAR AWAY & INSTALL SAP CONC. & MOTOR SILICONIZED FILLER SEALANT

INFORCING STEEL SPECIFICATIONS:

REINFORCING BARS, DOWELS, AND TIES SHALL CONFORM TO ASTM-615 GRADE 60 REQUIREMENTS AND SHALL BE FREE OF RUST, DIRT AND MUD.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-1064 AND BE POSITIONED AT THE MID HEIGHT OF SLABS, U.N.O.

REINFORCING SHALL BE PLACED AND SECURELY TIED IN PLACE SUFFICIENTLY AHEAD OF PLACING OF CONCRETE TO ALLOW INSPECTION AND CORRECTION, IF NECESSARY, WITHOUT DELAYING THE CONCRETE PLACEMENT.

EXTEND REINFORCING BARS A MINIMUM OF 36" AROUND CORNERS AND LAP BARS AT SPLICES A MINIMUM OF 24", U.N.O.

WELDING OF REINFORCING STEEL IS NOT ALLOWED.

RUCTURAL STEEL SPECIFICATIONS:

STRUCTURAL STEEL SHAPES, PLATES, BARS, ETC. ARE TO BE ASTM A-36, EXCEPT WIDE FLANGE SHAPES SHALL BE ASTM A-992, GRADE 50 (UNLESS NOTED OTHERWISE) DESIGNED AND CONSTRUCTED PER THE ANSI/AISC 360-10 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AND THE 14TH EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL".

WELDED CONNECTIONS SHALL CONFORM TO THE AWS D1.1-10 "STRUCTURAL WELDING CODE - STEEL", AND SHALL UTILIZE E70XX ELECTRODES UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL UTILIZE ASTM A-325 BOLTS TIGHTENED TO A "SNUG TIGHT" CONDITION UNLESS NOTED OTHERWISE). EMBEDDED ANCHOR BOLTS SHALL BE F1554, GRADE 36, UNLESS NOTED OTHERWISE.

THE STEEL FABRICATOR SHALL SUBMIT THREE PAPER COPIES OF SHOP DRAWINGS FOR REVIEW BY THE ENGINEER AND ARCHITECT PRIOR TO FABRICATION. ALLOW 10 WORKING DAYS MINIMUM FOR EACH STAGE OF THE REVIEW PROCESS.

THE STEEL ERECTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BUYS, BRACES, FALSEWORK, CRIBBING AND OTHER ELEMENTS REQUIRED FOR THE SAFE AND PROPER INSTALLATION OF ALL BUILDING ELEMENTS UNTIL THE STRUCTURE IS PERMANENTLY BRACED. THE FABRICATOR AND ERECTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH OSHA REQUIREMENTS.

THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR OTHER JOB SITE CONDITIONS.

VERIFY THE EXACT SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS WITH MECHANICAL CONTRACTOR, IF REQUIRED.

VERIFY EXISTING DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO CONSTRUCTION.

ASONRY SPECIFICATIONS:

MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 530-11, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND ACI 530.1-11, "SPECIFICATIONS FOR MASONRY STRUCTURES." CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N, TYPE I FOR HOLLOW CONCRETE MASONRY UNITS, AND ASTM C-145, GRADE N, TYPE I FOR SOLID CONCRETE MASONRY UNITS. BRICK SHALL MEET THE LATEST REVISIONS OF ASTM C-216, GRADE SW.

CONCRETE MASONRY UNITS SHALL HAVE AN AVERAGE MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI.

MORTAR SHALL CONFORM TO ASTM C-270, TYPE M OR S, MINIMUM COMPRESSIVE STRENGTH F'C=1800 PSI AT 28 DAYS.

GROUT SHALL CONFORM TO ASTM C-476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

CONTROL JOINTS FOR CONCRETE MASONRY SHALL BE PLACED AT 24' O.C. MAXIMUM, UNLESS NOTED OTHERWISE (U.N.O.).

REINFORCED CONCRETE BLOCK WALLS SHALL HAVE 220 LOX-ALL, OR EQUIVALENT. STANDARD ADDER-TYPE HORIZONTAL REINFORCING INSTALLED AT EVERY OTHER COURSE. HORIZONTAL WIRE REINFORCEMENT SHALL BE # 9 GA WIRE WITH ASTM A-641 GALVANIZED COATING UNLESS NOTED OTHERWISE. DO NOT EXTEND HORIZONTAL JOINT REINFORCING THROUGH CONTROL JOINTS.

INSTALL VERTICAL REINFORCING (AS NOTED ON PLANS) IN THE CENTER OF BLOCK CORES, UNLESS NOTED OTHERWISE, AND GROUT IN MAXIMUM OF FOUR FOOT HEIGHTS. REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60. REINFORCEMENT SPLICES SHALL BE PLACED IN ACCORDANCE WITH ACI 530-11, SECTION 3.3.3.4.

MASONRY WORK SHALL HAVE PROPER FLASHING, WEEPHOLES, ETC., IN ACCORDANCE WITH THE ARCHITECT'S DETAILS AND THE *MBC*.

THE MASONRY CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND FALSEWORK REQUIRED TO WITHSTAND WIND LOADS AND TEMPORARY CONSTRUCTION LOADS. WORK PERFORMED SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

SOIL BEARING REQUIREMENTS:

- INFORMATION AND SOIL PROPERTIES USED FOR FOUNDATION AND SLAB DESIGNS ARE BASED ON THE GEOTECHNICAL ENGINEERING REPORT BY PREIN & NEWHOF PROJECT NUMBER 2170591 DATED NOVEMBER 21, 2017.
- ALL TOP SOIL, ORGANIC AND VEGETATIVE MATERIAL SHOULD BE REMOVED PRIOR TO CONSTRUCTION. ANY REQUIRED FILL SHALL BE CLEAN, GRANULAR MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- FOUNDATIONS BEARING ON NATURAL SOILS ARE DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF, U.N.O
- NOTIFY THE ENGINEER/ARCHITECT IF THE ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF SO THAT THE FOUNDATIONS CAN BE REDESIGNED FOR THE NEW ALLOWABLE BEARING CAPACITY.
- FLOOR SLAB - THE FLOOR SLAB IS DESIGNED TO BE SUPPORTED BY THE SOIL.

TEMPORARY CONSTRUCTION SHORING:

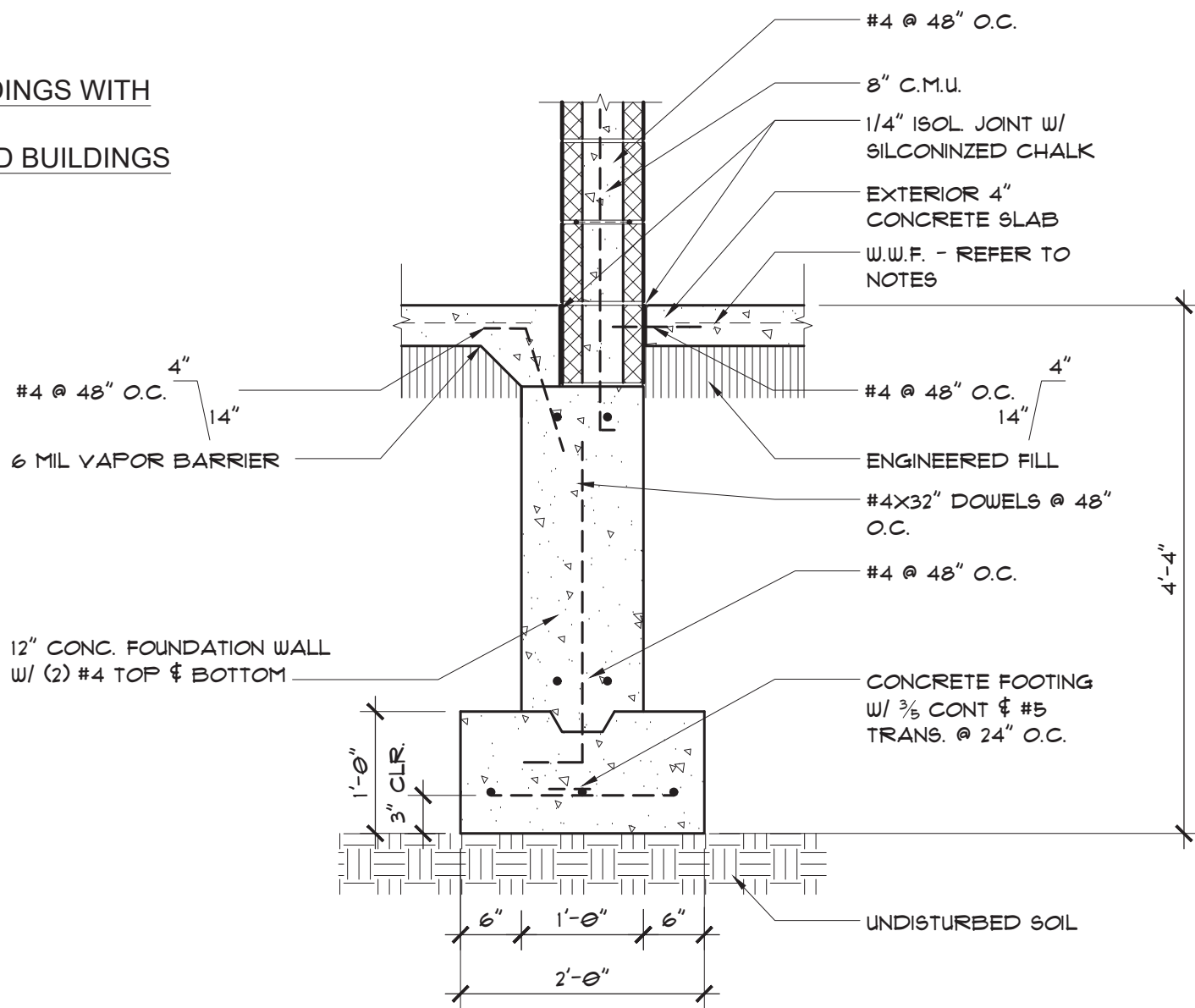
- ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PROPER INSTALLATION OF TEMPORARY BUILDING BRACING AND SHORING OR THE MEANS AND METHODS REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR AND HIS ENGINEER ARE RESPONSIBLE FOR THE DESIGN AND PROPER INSTALLATION OF BOTH TEMPORARY SHORING AND BRACING REQUIRED FOR A SAFE AND STRUCTURALLY SOUND PROJECT. THE STRUCTURAL MEMBERS INDICATED ON THESE DRAWINGS ARE NOT SELF-BRACING AND SHALL BE CONSIDERED UNSTABLE UNTIL ATTACHED TO THE COMPLETED STRUCTURE AS INDICATED BY THESE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES INCURRED DUE TO IMPROPER SHORING OR BRACING DURING THE CONSTRUCTION PROJECT. ACCEPTANCE OF THE CONSTRUCTION PROJECT BY THE CONTRACTOR IS PROOF OF ACCEPTANCE OF THE ABOVE MENTIONED ITEMS.

STRUCTURAL DESIGN LOADS
BASED ON THE 2015 MICHIGAN BUILDING CODE

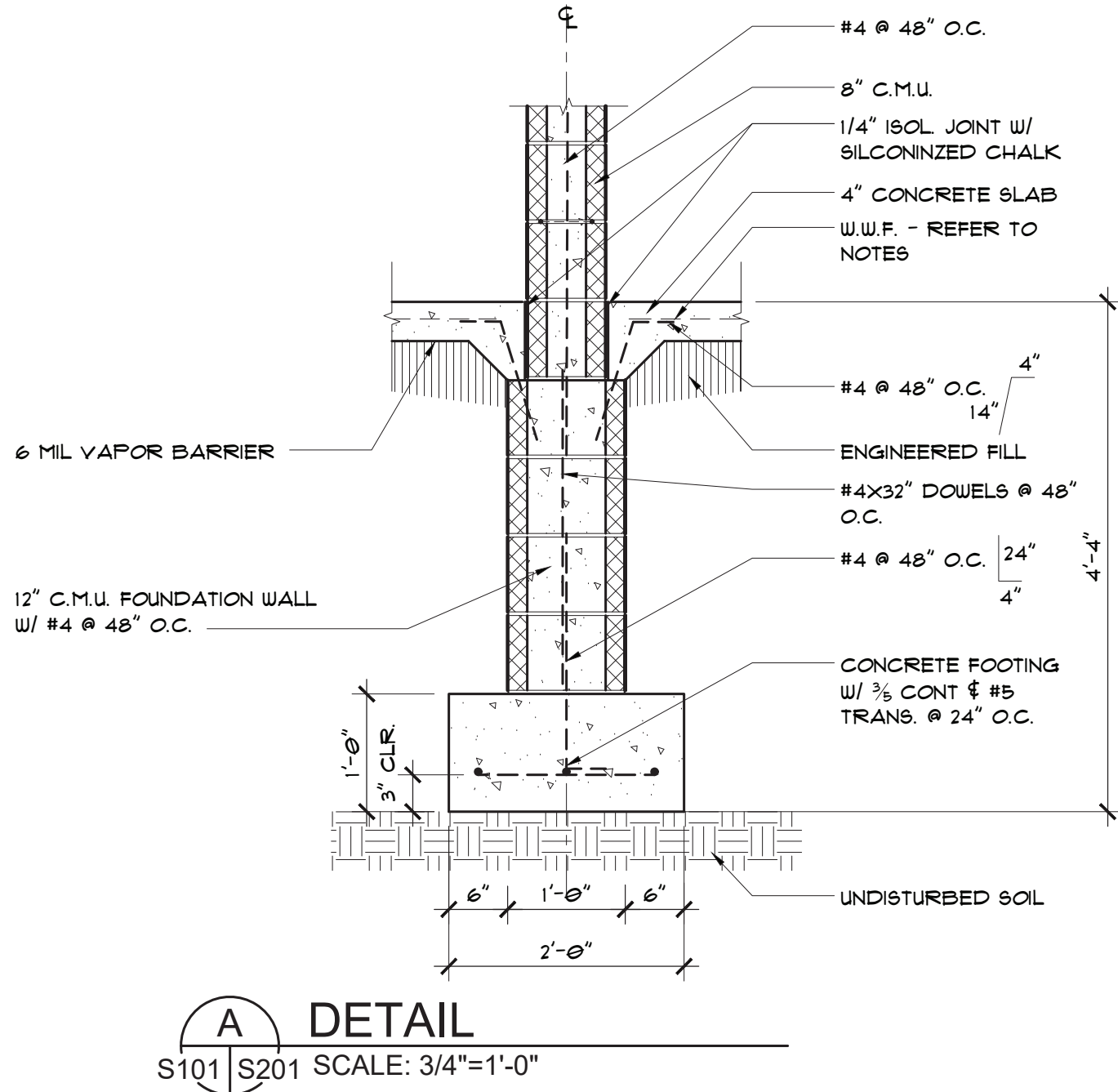
FLOOR: SLAB-ON-GRADE CONSTRUCTION 250 PSF LIVE LOAD	SEISMIC: SS=0.0548 S1=0.0360 FA=1.6 FV=2.4 SDS=0.068 SD1=0.058 CT=0.020 ORDINARY PLAIN MASONRY SHEAR WALLS R=1.5 ORDINARY PLAIN MASONRY SHEAR WALLS RISK CATEGORY II SEISMIC DESIGN CATEGORY 'A' SITE CLASS D EQUIVALENT LATER FORCE DESIGN PROCEDURE 29 KIP SEISMIC BASE SHEAR
ROOF: 40 PSF GROUND SNOW LOAD CE=1.0 CT=1.2 I=1.0 PF=17.5 PSF PM=20 PSF PDESIGN=34 PSF (DESIGN SNOW LOAD) 20 PSF DEAD LOAD	
WIND LOAD: WIND LOADS ARE CALCULATED PER ASCE 7-10 USING: • ENVELOPE PROCEDURE FOR COMPONENTS AND CLADDING (LOW RISE BUILDINGS WITH H ≤ 60 FT.) • DIRECTIONAL PROCEDURE FOR MAIN WIND-FORCE RESISTING SYSTEM (RIGID BUILDINGS OF ALL HEIGHTS) 115 MPH BASIC WIND SPEED RISK CATEGORY II EXPOSURE 'C' THE FOLLOWING WIND LOADS INCLUDE THE 0.6 ASD LOAD FACTOR: MWFRS Loads: + Internal 15.04 -17.83 -23.08 -30.0 -20.28 +1.05 -38.12 Components & Cladding +20.28 +34.97 The above loads are factored loads. use 0.6 multiplier for ASD design	

DEFLECTION LIMITS:

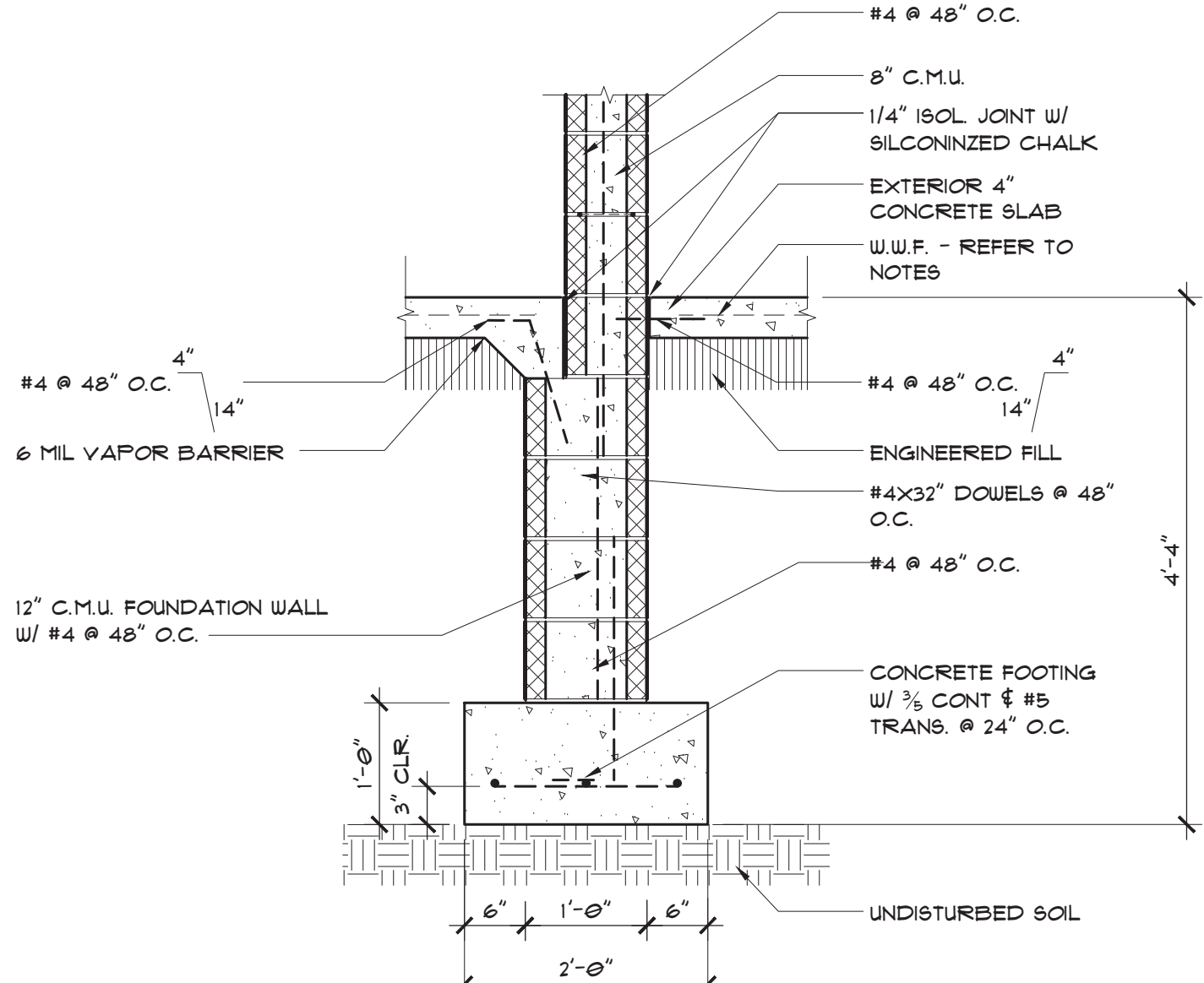
ROOF - L/240 TOTAL LOAD DEFLECTION L/360 SNOW LOAD DEFLECTION LINTELS - L/600 TOTAL LOAD DEFLECTION



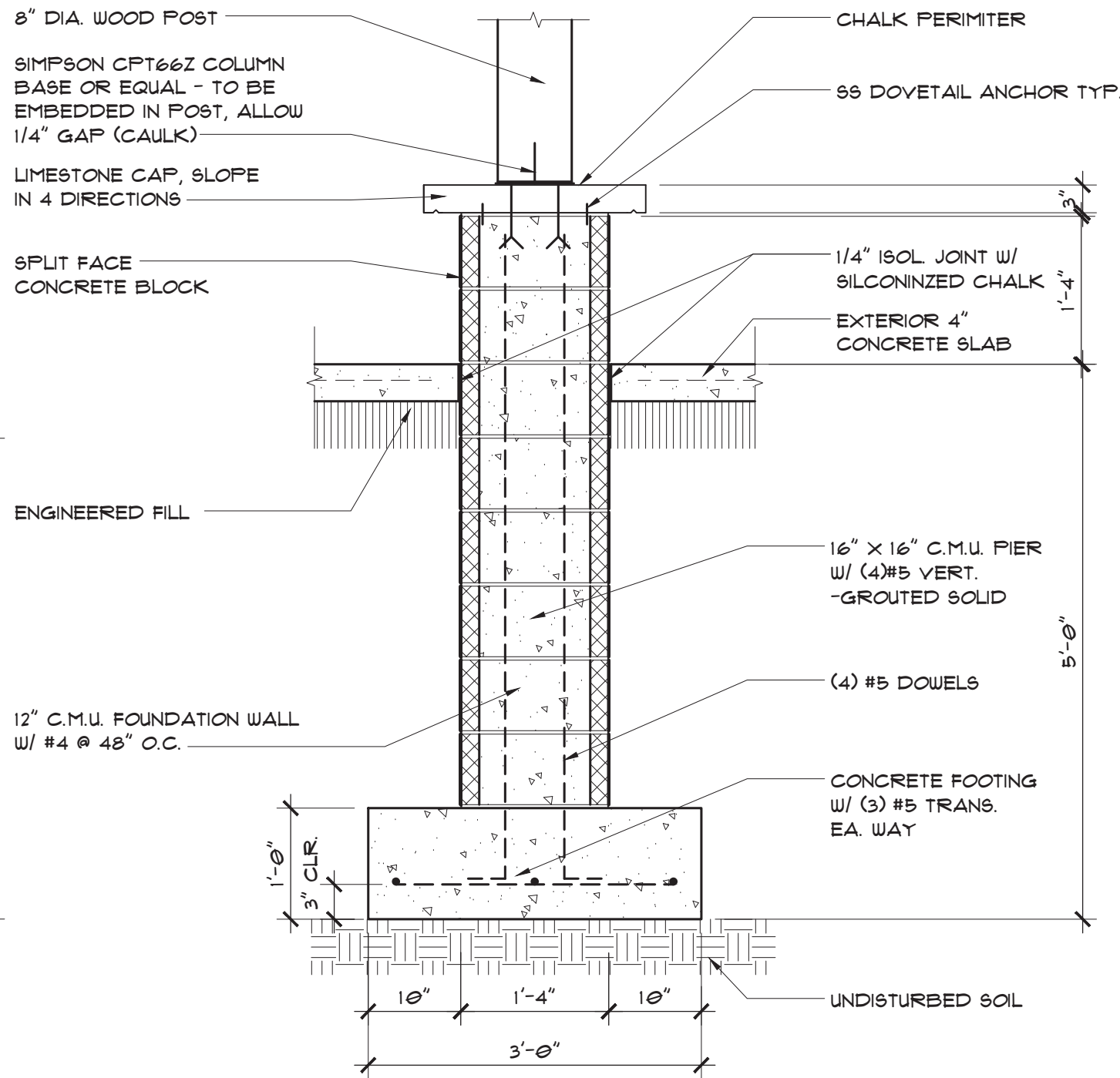
B DETAIL
S201 | S101 SCALE: 3/4"=1'-0"



A DETAIL
S101 | S201 SCALE: 3/4"=1'-0"



B DETAIL
S101 | S201 SCALE: 3/4"=1'-0"



C DETAIL
S101 | S201 SCALE: 3/4"=1'-0"

CIVIL ENGINEER

Civil Engineers
Land Surveyors
Land Planners

46777 Woodward Avenue
Pontiac, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-6957

TDCArchitects

TDCArchitecture

www.TDCArchitects.com

10000 Woodward Avenue
Suite 100
Pontiac, Michigan 48342
Tel. (248) 759-9466

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
PROCUREMENT AND REAL ESTATE SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ROBERT C. HALL, RA, NCARB, DIRECTOR

REVIEW

DATE

Phase 500 - 30% Review

10/07/2019

Phase 500 - 50% Review

1/24/2020

PROJECT DESCRIPTION

BRIMLEY STATE PARK - TOILET
SHOWER BUILDING IMPROVEMENTS
SUPERIOR TOWNSHIP, CHIPPEWA COUNTY

STRUCTURAL SPECIFICATIONS
AND DETAILS

WEST, CENTRAL & EAST AREAS

PROJECT NO 751/19164 TAP

INDEX

PCA 00-0000

DRAWN BY MEH

DESIGNED BY BSG

JCENG BY

S 201