

4.19.12

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MISSOURI DEPARTMENT OF TRANSPORTATION

CONCRETE BLOCK TRUCK WASH
 ST. LOUIS DISTRICT
 LEMAY, MISSOURI
 4185 HOFFMEISTER AVENUE
 St. Louis County

CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC
 PLUMBING CODE - CURRENT IBC

Addendum #1

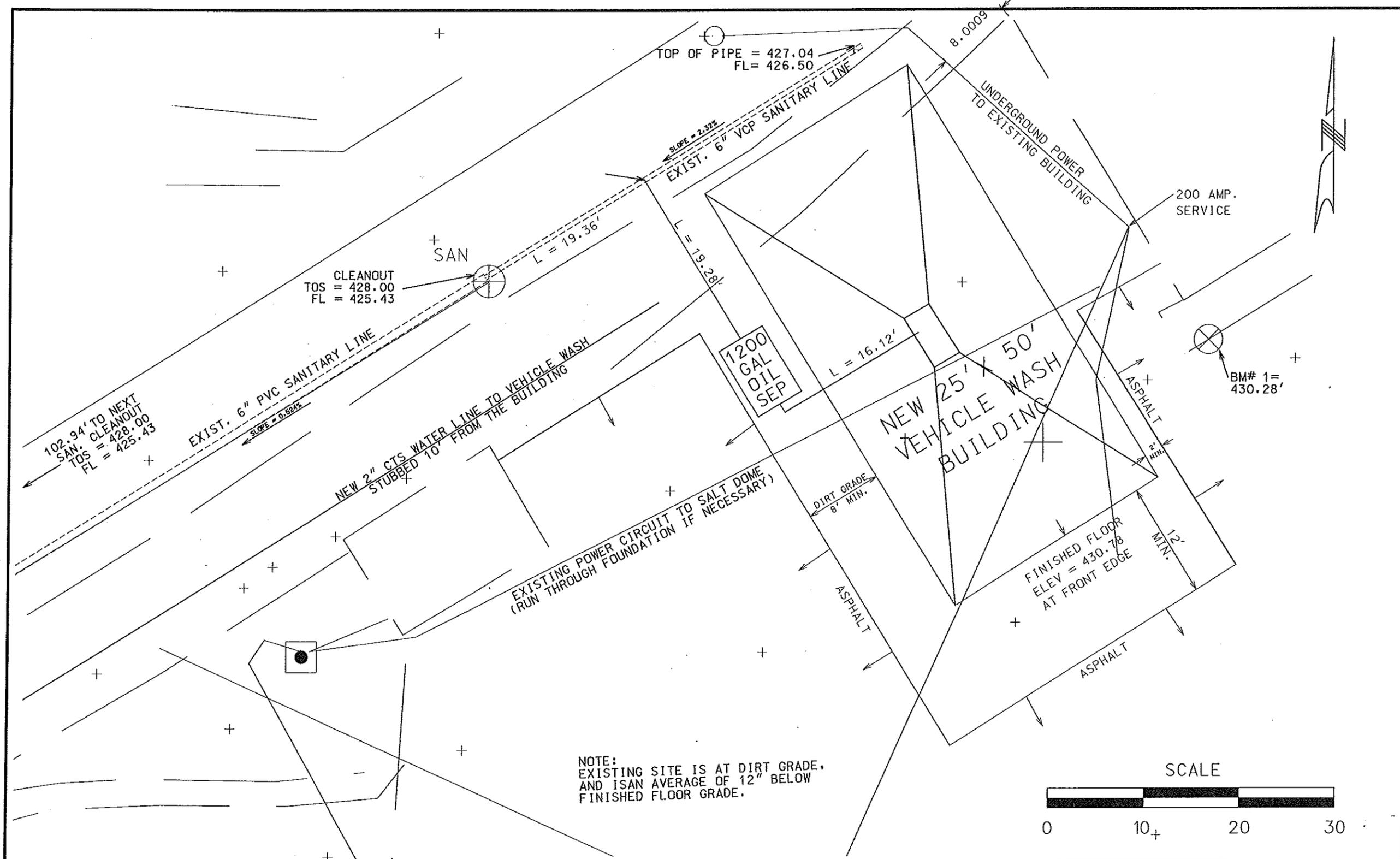
REISSUE SHEETS 1 through 9.

DESIGN BY: LARRY COVER
 CHECKED BY: DOUG RECORD
 DATE: 4-18-12

Concrete Block Truck Wash
 St. Louis District
 Lemay, Missouri

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

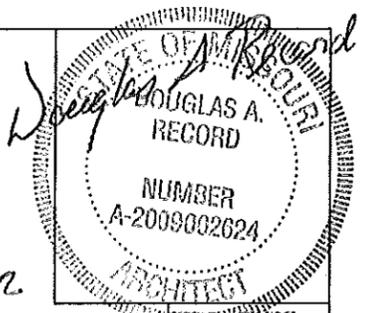
COVER SHEET
 ADDENDUM #1



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

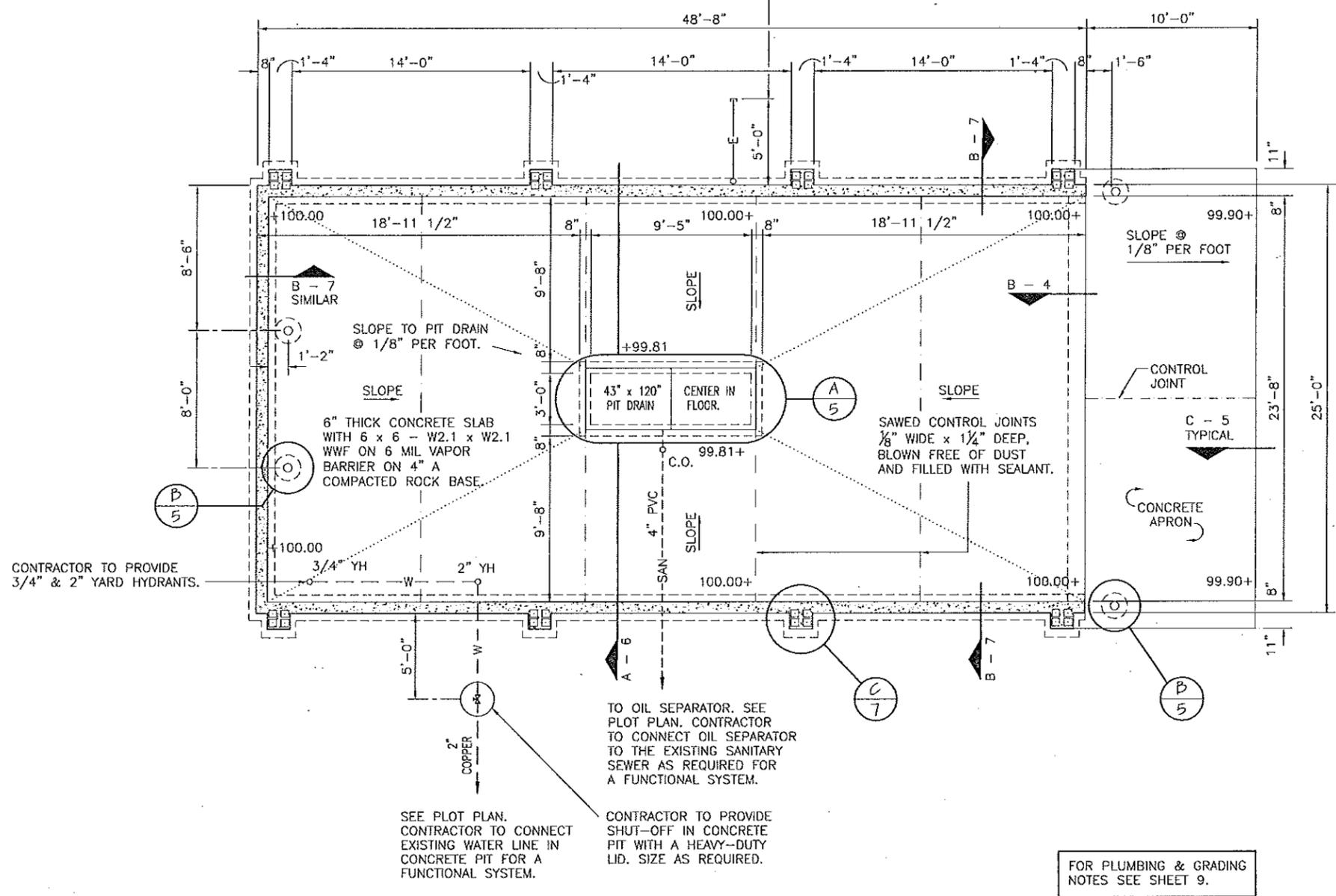
NEW CONSTRUCTION & UTILITY CONNECTION LEMAY VEHICLE WASH

DATE PREPARED 3/30/2012	
ROUTE SL	STATE MO
DISTRICT SL	SHEET NO. 4
COUNTY ST. LOUIS	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6836)	



4.19.12

CONTRACTOR TO INSTALL 2" SWEEP FOR FUTURE ELECTRICAL AND STUB TO OUTSIDE OF CONCRETE WALL. CAP 12" ABOVE FINISH GRADE & BELOW GRADE 5'-0" FROM BLDG.



CONTRACTOR TO PROVIDE 3/4" & 2" YARD HYDRANTS.

SEE PLOT PLAN. CONTRACTOR TO CONNECT EXISTING WATER LINE IN CONCRETE PIT FOR A FUNCTIONAL SYSTEM.

CONTRACTOR TO PROVIDE SHUT-OFF IN CONCRETE PIT WITH A HEAVY-DUTY LID. SIZE AS REQUIRED.

A FLOOR PLAN
3 SCALE: 1/8" = 1'-0" N

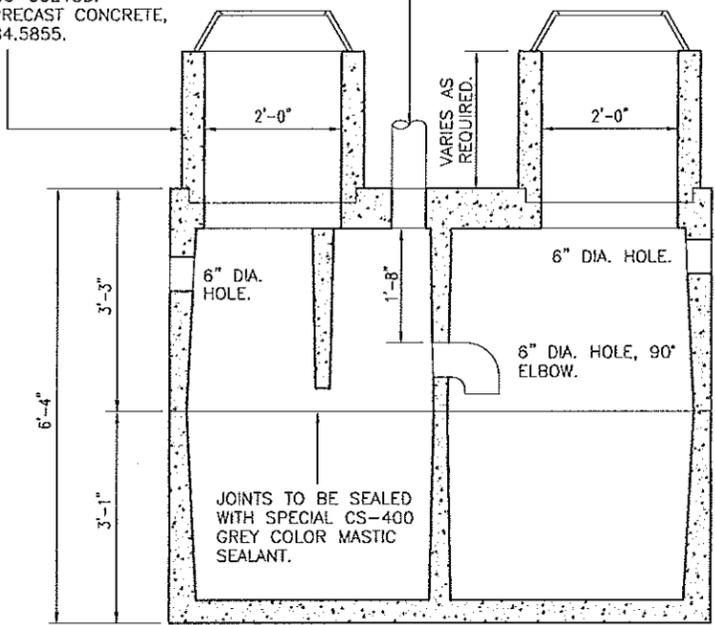
Concrete Block Truck Wash
St. Louis District
Lemay, Missouri

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

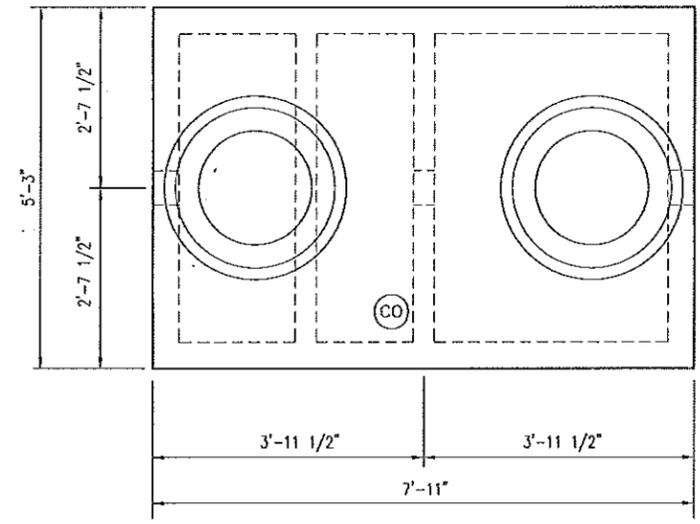
FLOOR PLAN
ADDENDUM #1

EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL AND GREASE INTERCEPTOR STOCK STANDARD #140-00218D. HEAVY DUTY PRECAST CONCRETE, PHONE 573.384.5855.

6" DIAMETER CLEAN OUT AT GRADE.
STANDARD 8" CAST IRON FRAME AND COLLAR. TYPICAL.

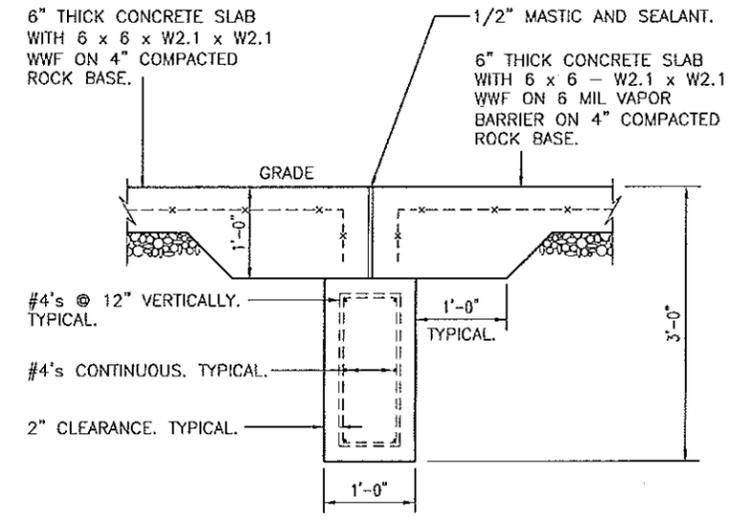


SECTION VIEW

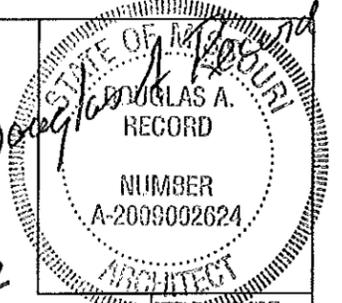


PLAN VIEW

A 1,200 GALLON OIL SEPARATOR
4 SCALE: 3/8" = 1' - 0"



B SLAB APPROACH
4 SCALE: 1/2" = 1' - 0"

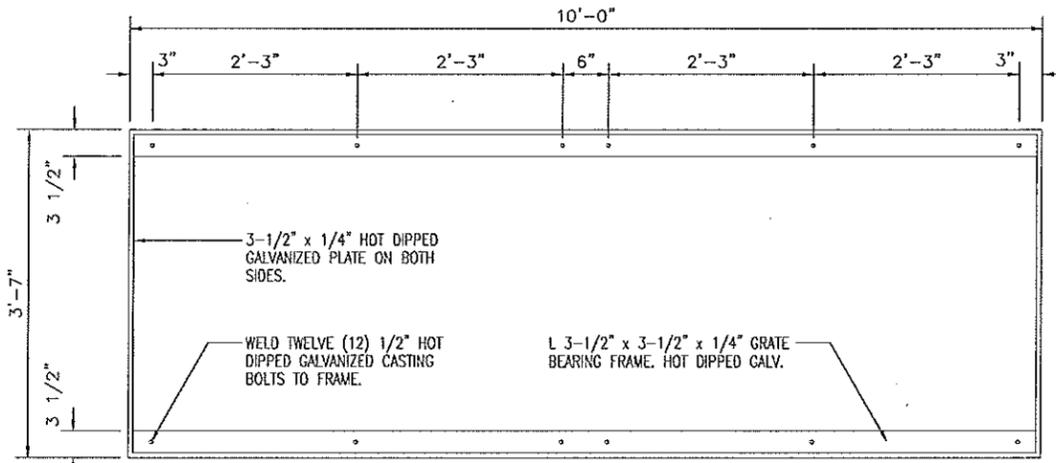


8.19.12

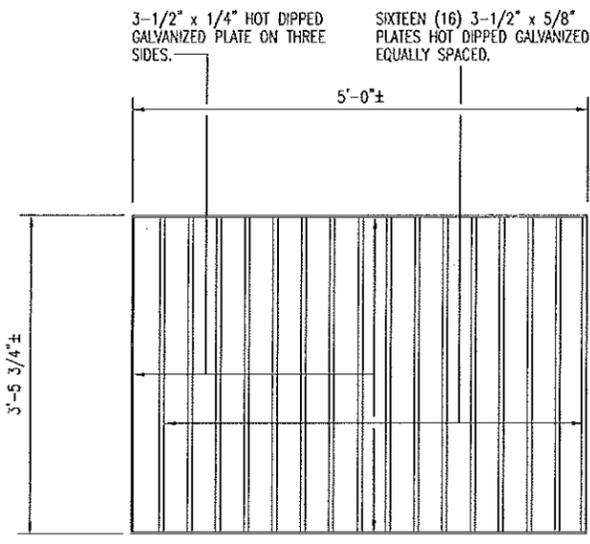
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St. Louis District
Lemay, Missouri

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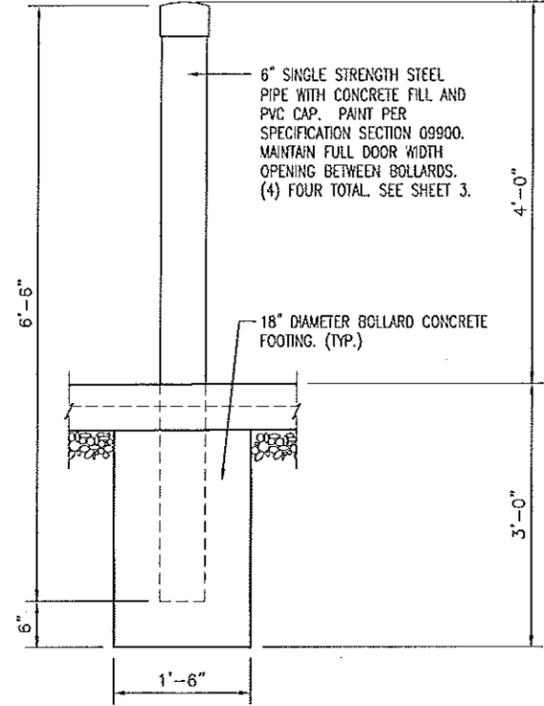
FOUNDATION DETAILS
ADDENDUM #1



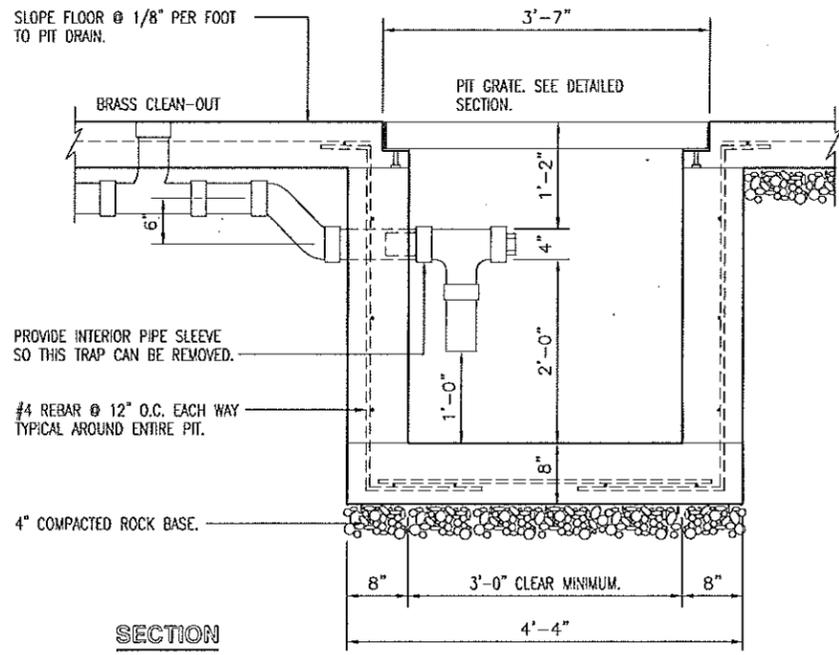
BEARING FRAME PLAN



PROVIDE TWO (2) GRATE PLAN

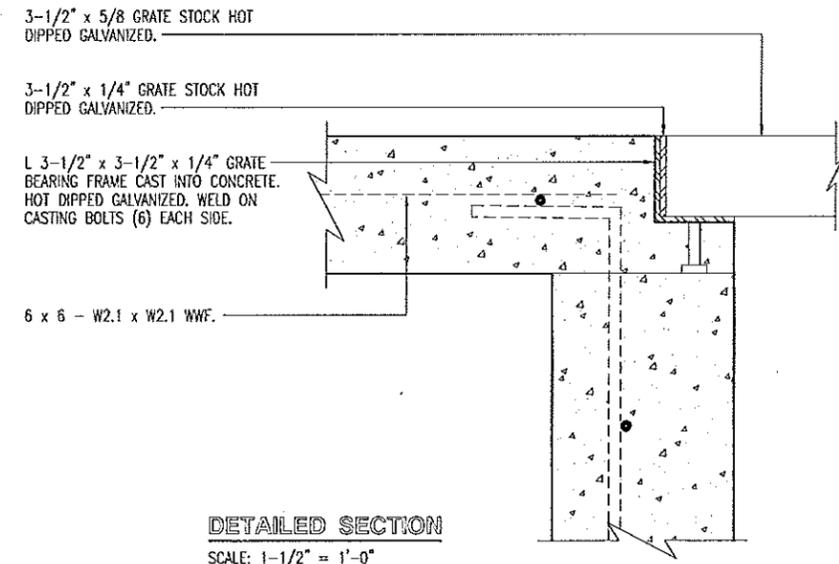


B BOLLARD @ PIER DETAIL
SCALE: 1/2" = 1'-0"

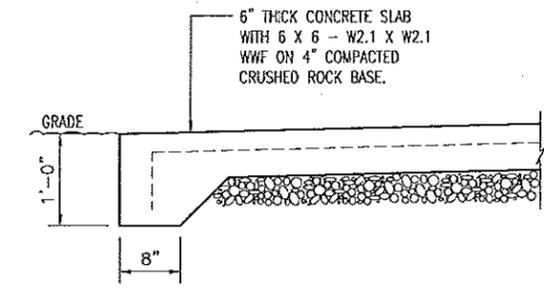


SECTION

A PIT DRAIN
SCALE: 1/2" = 1'-0"



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

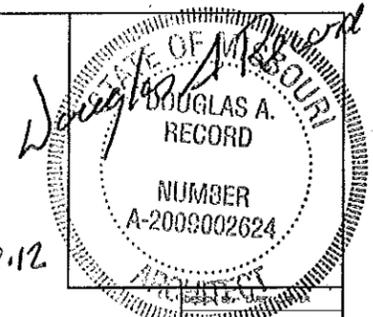


C SLAB SECTION
SCALE: 1/2" = 1'-0"

Concrete Block Truck Wash
St. Louis District
Lemay, Missouri

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

FOUNDATION DETAILS
APPENDUM #1



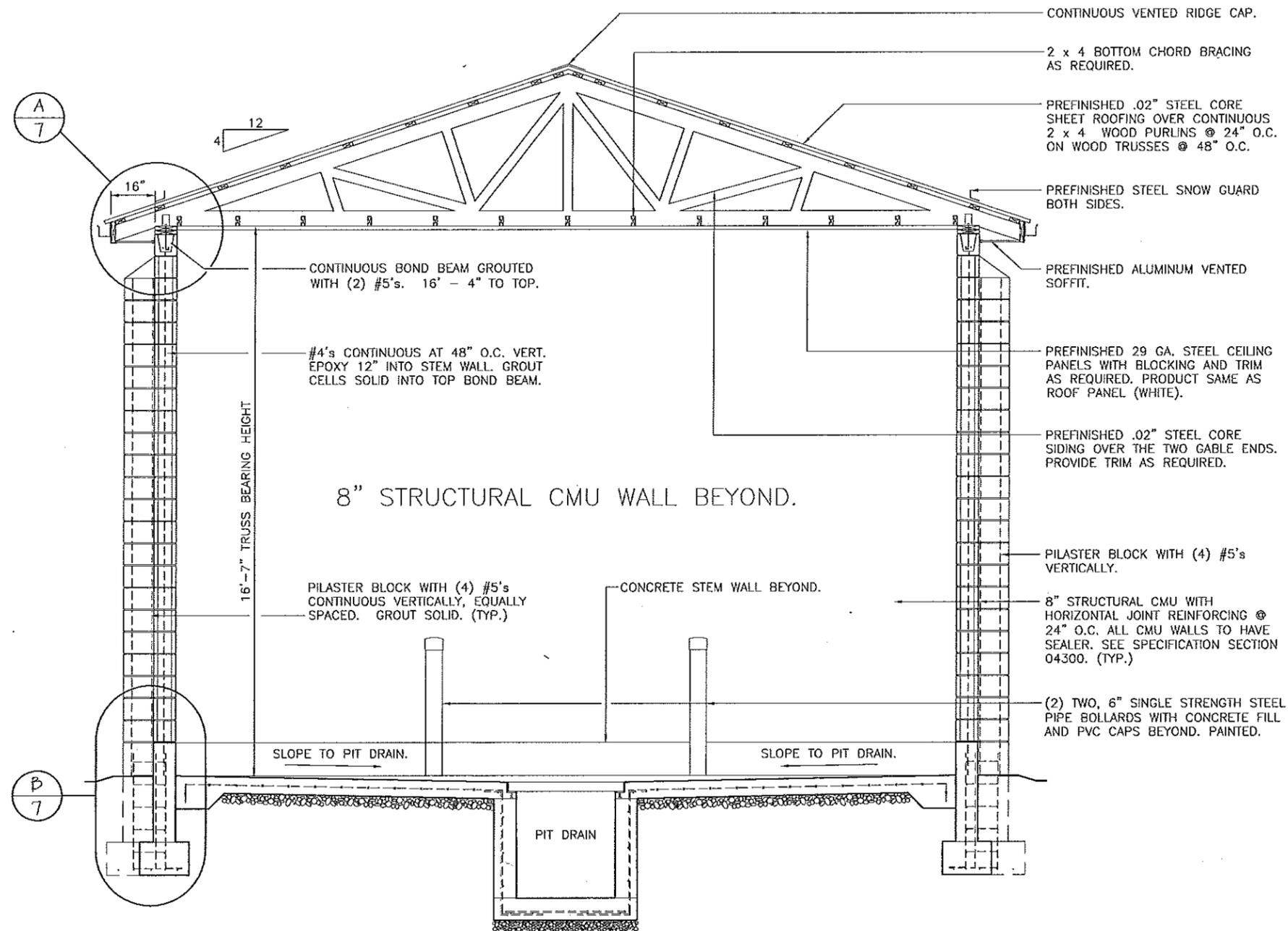
4.19.12

ENGINEERING DESIGN AND SHOP DRAWINGS:

1. PROFESSIONAL ENGINEER: ALL TRUSS DESIGNS SHALL BEAR THE NAME, SEAL, AND REGISTRATION NUMBER OF A LICENSED PROFESSIONAL ENGINEER.
2. TRUSS DESIGNS SHALL CONTAIN THE FOLLOWING DATA:
 - A. LOADING (UNIFORM)
 1. TOP CHORD
 - LIVE LOAD 20 PSF
 - DEAD LOAD 10 PSF
 - SNOW DRIFT - PER 2003 IBC
 2. BOTTOM CHORD
 - DEAD LOAD 5 PSF
 - TOTAL LOAD 35 PSF
 - B. METAL CONNECTORS - NOTE GAUGE SIZES OF CONNECTORS, NAME OF MANUFACTURER, AND CAPACITY OF EACH CONNECTION.
 - C. LUMBER SPECIFICATIONS
 - D. PITCH, SPAN, AND SPACING OF TRUSSES
 - E. DESIGN LOADINGS AND ALLOWABLE UNIT STRESS INCREASE, IF ANY
 - F. FORCE ANALYSIS OF BAR FORCES IN EACH MEMBER
 - G. SIZE AND LOCATION OF ALL CONNECTOR PLATES
 - H. TRUSS SUPPORTS
 - I. CAMBER, IF ANY
 - J. PERMANENT BRACING
 - K. HANDLING AND ERECTION INSTRUCTIONS
3. FIVE COPIES OF EACH TRUSS DESIGN AND/OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO THE FABRICATION OF ANY COMPONENTS.
4. STRUCTURAL ENGINEERS REVIEW OF DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., ARE ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. CONSTRUCTION SHALL NOT START WITHOUT SAID REVIEW.

DESIGN CRITERIA:

1. BUILDING CODE: CURRENT IBC
2. SEISMIC AV = 0.125; AA = 0.13
3. BASIC WIND SPEED 90 MPH, EXPOSURE C
4. PITCH 4:12

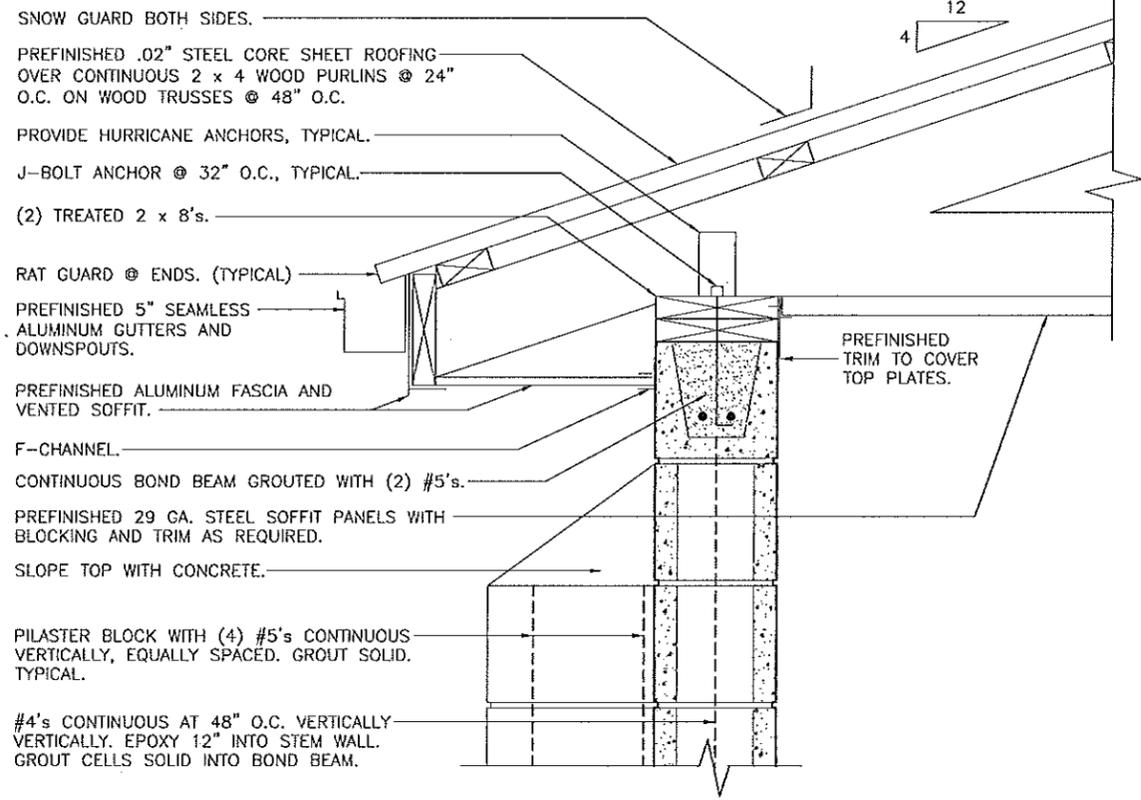
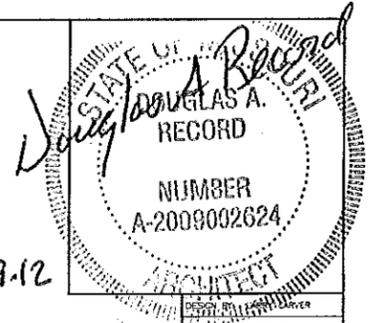


BUILDING SECTION
SCALE: 1/4" = 1' - 0"

Concrete Block Truck Wash
St. Louis District
Lemay, Missouri

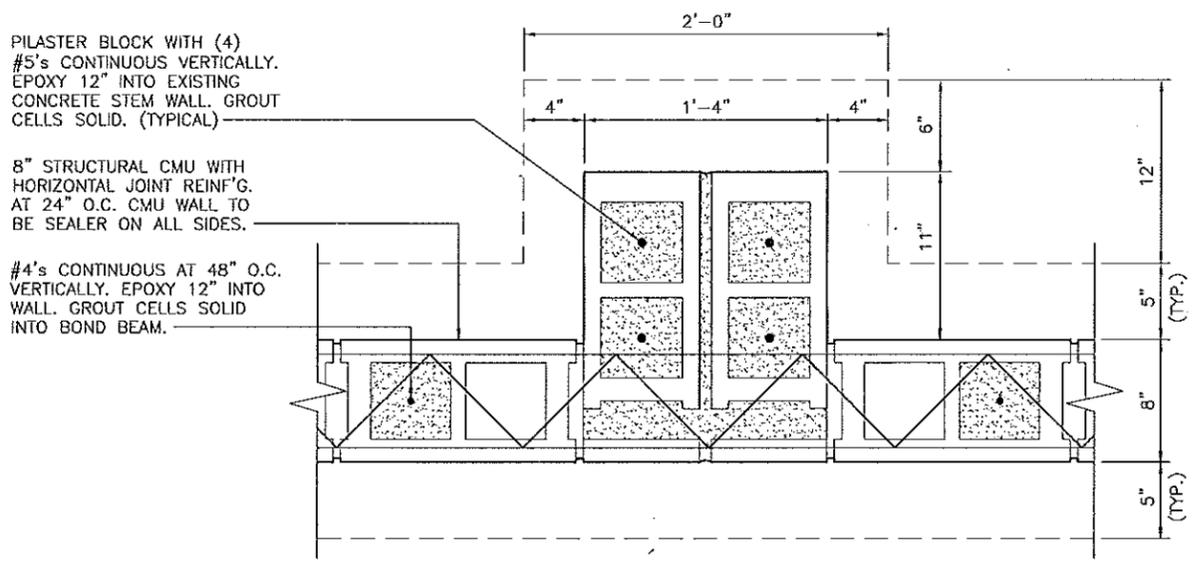
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BUILDING SECTION
ADDENDUM #1



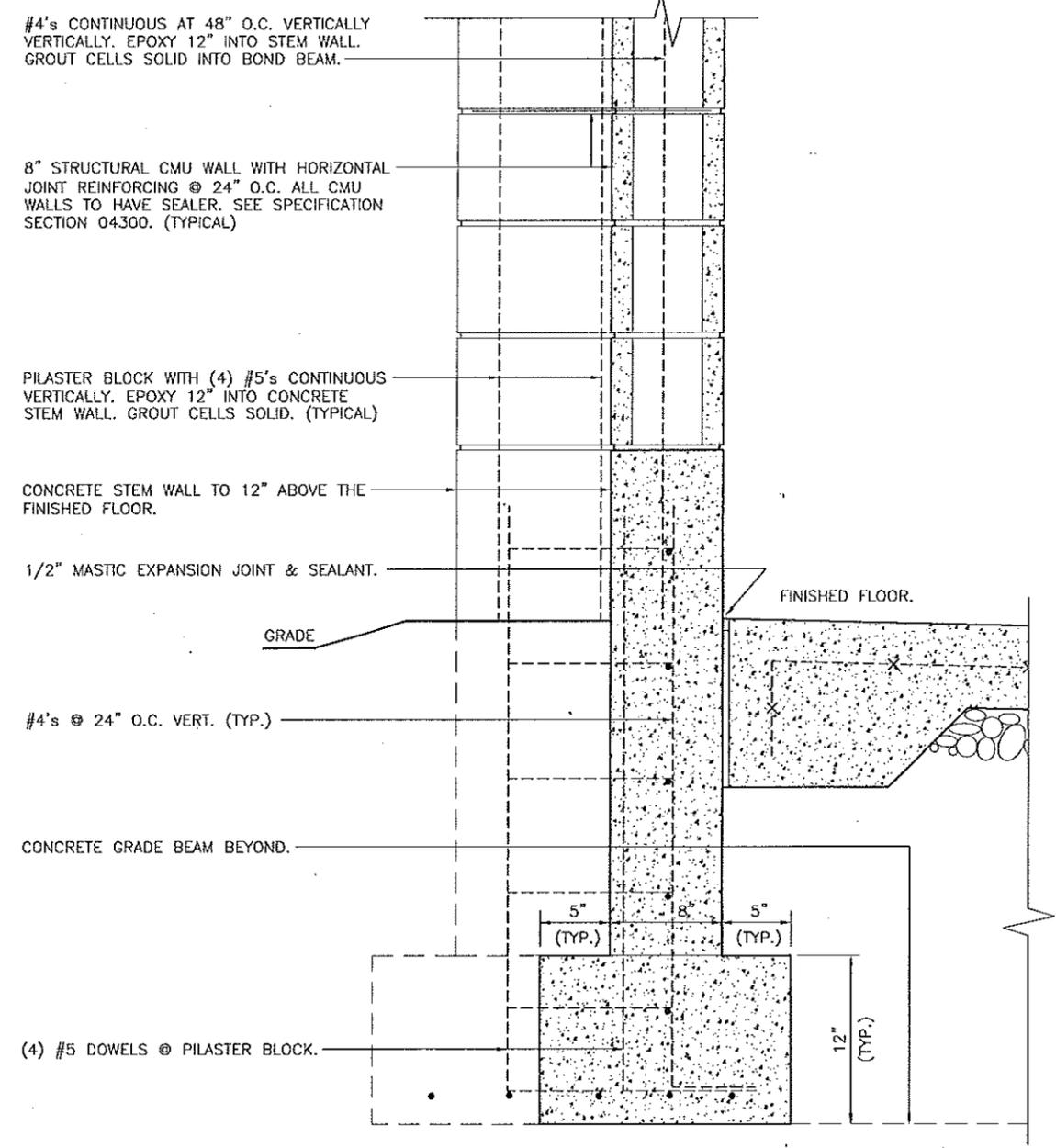
- SNOW GUARD BOTH SIDES.
- PREFINISHED .02" STEEL CORE SHEET ROOFING OVER CONTINUOUS 2 x 4 WOOD PURLINS @ 24" O.C. ON WOOD TRUSSES @ 48" O.C.
- PROVIDE HURRICANE ANCHORS, TYPICAL.
- J-BOLT ANCHOR @ 32" O.C., TYPICAL.
- (2) TREATED 2 x 8's.
- RAT GUARD @ ENDS. (TYPICAL)
- PREFINISHED 5" SEAMLESS ALUMINUM GUTTERS AND DOWNSPOUTS.
- PREFINISHED ALUMINUM FASCIA AND VENTED SOFFIT.
- F-CHANNEL.
- CONTINUOUS BOND BEAM GROUTED WITH (2) #5's.
- PREFINISHED 29 GA. STEEL SOFFIT PANELS WITH BLOCKING AND TRIM AS REQUIRED.
- SLOPE TOP WITH CONCRETE.
- PILASTER BLOCK WITH (4) #5's CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. TYPICAL.
- #4's CONTINUOUS AT 48" O.C. VERTICALLY VERTICALLY. EPOXY 12" INTO STEM WALL. GROUT CELLS SOLID INTO BOND BEAM.

A WALL SECTION
7 SCALE: 1" = 1'-0"



- PILASTER BLOCK WITH (4) #5's CONTINUOUS VERTICALLY. EPOXY 12" INTO EXISTING CONCRETE STEM WALL. GROUT CELLS SOLID. (TYPICAL)
- 8" STRUCTURAL CMU WITH HORIZONTAL JOINT REINF'G. AT 24" O.C. CMU WALL TO BE SEALER ON ALL SIDES.
- #4's CONTINUOUS AT 48" O.C. VERTICALLY. EPOXY 12" INTO WALL. GROUT CELLS SOLID INTO BOND BEAM.

C PILASTER DETAIL
7 SCALE: 1" = 1'-0"



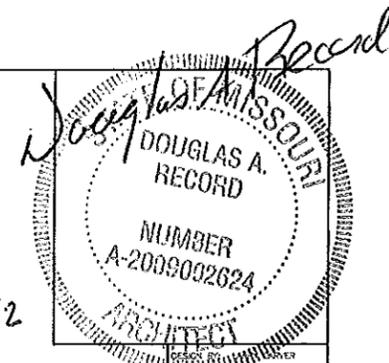
- #4's CONTINUOUS AT 48" O.C. VERTICALLY VERTICALLY. EPOXY 12" INTO STEM WALL. GROUT CELLS SOLID INTO BOND BEAM.
- 8" STRUCTURAL CMU WALL WITH HORIZONTAL JOINT REINFORCING @ 24" O.C. ALL CMU WALLS TO HAVE SEALER. SEE SPECIFICATION SECTION 04300. (TYPICAL)
- PILASTER BLOCK WITH (4) #5's CONTINUOUS VERTICALLY. EPOXY 12" INTO CONCRETE STEM WALL. GROUT CELLS SOLID. (TYPICAL)
- CONCRETE STEM WALL TO 12" ABOVE THE FINISHED FLOOR.
- 1/2" MASTIC EXPANSION JOINT & SEALANT.
- FINISHED FLOOR.
- GRADE
- #4's @ 24" O.C. VERT. (TYP.)
- CONCRETE GRADE BEAM BEYOND.
- (4) #5 DOWELS @ PILASTER BLOCK.

B WALL SECTION
7 SCALE: 1" = 1'-0"

Concrete Block Truck Wash
St. Louis District
Lemay, Missouri

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

DETAILS
ADDENDUM #1



4.19.12

DESIGNED BY: DOUGLAS A. RECORD
 CHECKED BY: DOUGLAS A. RECORD
 DATE: 4-18-12

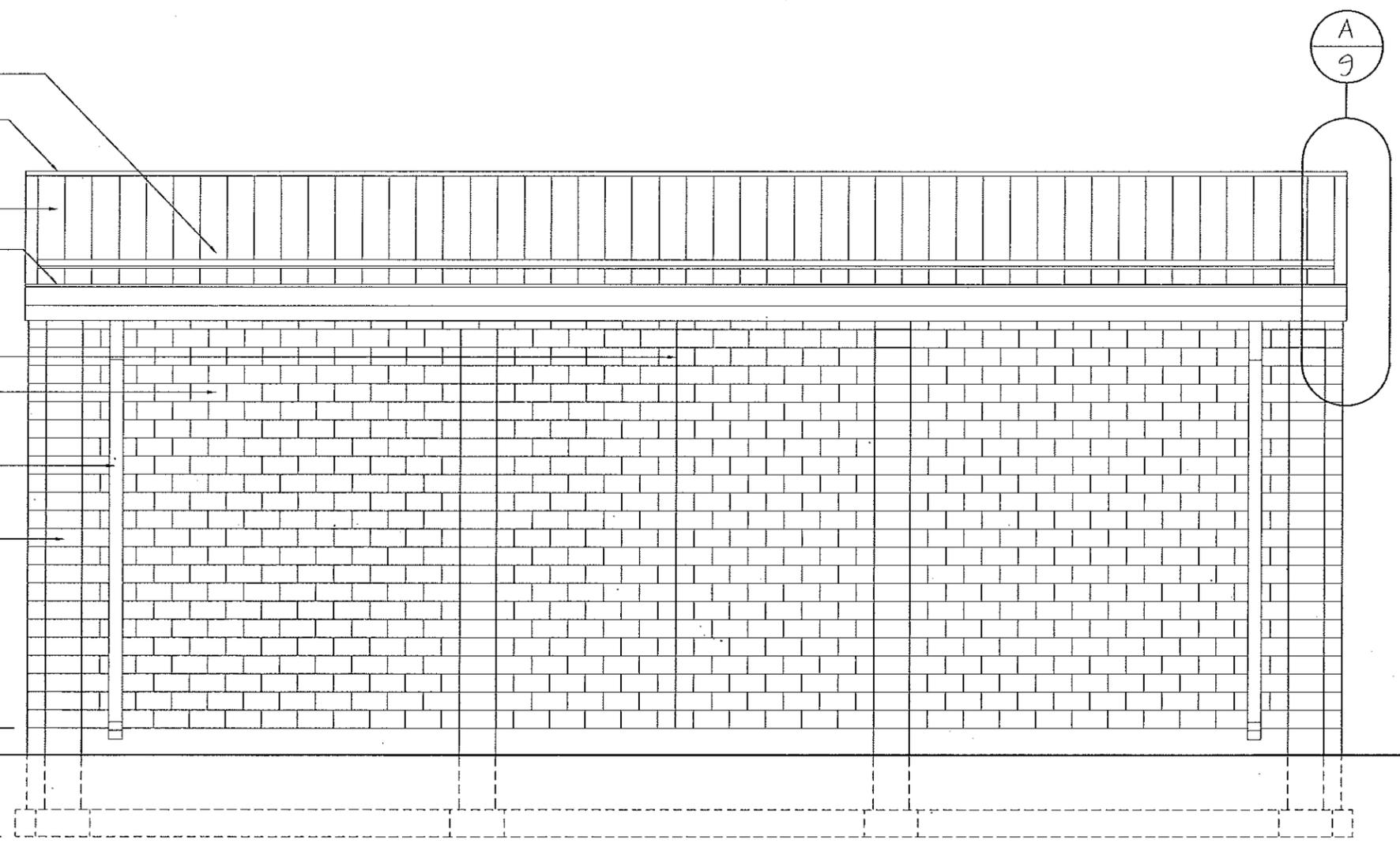
Concrete Block Truck Wash
 St. Louis District
 Lemay, Missouri

MISSOURI DEPARTMENT
 OF TRANSPORTATION
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 FACILITIES MANAGEMENT

SIDEWALL ELEVATION
 ADDENDUM #1

Sheet
 8 of 9

- PREFINISHED STEEL SNOW GUARD BOTH SIDES.
- CONTINUOUS VENTED RIDGE CAP.
- PREFINISHED .02" STEEL CORE SHEET ROOFING OVER CONTINUOUS 2 x 4 WOOD PURLINS @ 24" O.C. ON WOOD TRUSSES @ 48" O.C. (TYPICAL)
- CLOSED ENDS AT ROOF EDGE. RAT-GUARD. (TYPICAL)
- TRUSS BEARING HEIGHT EL. 116.58'
- EXPANSION JOINT BOTH SIDES W/SEALANT. (TYPICAL)
- 8" STRUCTURAL CMU W/HORIZONTAL JOINT REINFORCING AT 24" O.C. CMU WALL TO BE SEALED ON ALL SIDES.
- PREFINISHED 5" SEAMLESS ALUMINUM GUTTERS AND DOWNSPOUTS. SPLASHBLOCKS BELOW EACH. (TYP.)
- PILASTER BLOCK WITH (4) #5's CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. (TYPICAL)
- 6" SINGLE STRENGTH STEEL PIPE WITH CONCRETE FILL AND PVC CAP. PAINT PER SPECIFICATION SECTION 09900. MAINTAIN FULL WIDTH OPENING BETWEEN BOLLARDS.
- TOP OF CONCRETE STEM WALL EL. 101.00'
- FINISHED FLOOR EL. 100.00'
- BOTTOM OF FOOTING EL. 97.00'



CMU CONTRACTOR NOTE:
 PROVIDE VERTICAL EXPANSION JOINT AND SEALANT CENTERED IN THE END WALL.

A SIDEWALL ELEVATION
8 SCALE: 3/16" = 1' - 0"

GENERAL NOTES:

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND FIELD INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE I CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT OF 6% ± 2%.
6. GRADE BEAMS AND FOOTINGS SHALL BEAR A MINIMUM OF 12" INTO UNDISTURBED SOIL AND 36" MINIMUM BELOW FINISH GRADE.
7. DEFORMED STEEL REINFORCING BARS SHALL BE #5 AND LARGER, ASTM A615 GRADE 60.
8. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
9. INTERIOR AND EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
10. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
11. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH DOW CORNING 888 SILICONE JOINT SEALANT OR AN APPROVED EQUAL. SAWCUT WITHIN 24 HOURS.
12. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.

PLUMBING NOTES:

1. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC PLUMBING CODE.
2. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
3. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. 3/4" YARD HYDRANT: EQUAL TO WOODFORD MODEL Y2 FREEZELESS, BACKFLOW PROTECTED, AUTOMATIC DRAINING YARD HYDRANT. PROVIDE 36" BURY LENGTH.
5. 2" YARD HYDRANT: EQUAL TO #71 NATIONAL TYPE "A" COMPRESSION HYDRANT. ANTI-FREEZING AUTOMATIC DRAIN. ALL BRONZE WITH 2" VALVE OPENING & 10" WHEEL TOP. 36" BURY LENGTH.
6. PROVIDE SHUT-OFF IN CONCRETE OF FIBERGLASS VALVE PIT DIAMETER AS REQUIRED 36" MINIMUM DEPTH WITH HEAVY DUTY CAST IRON FRAME AND LID.

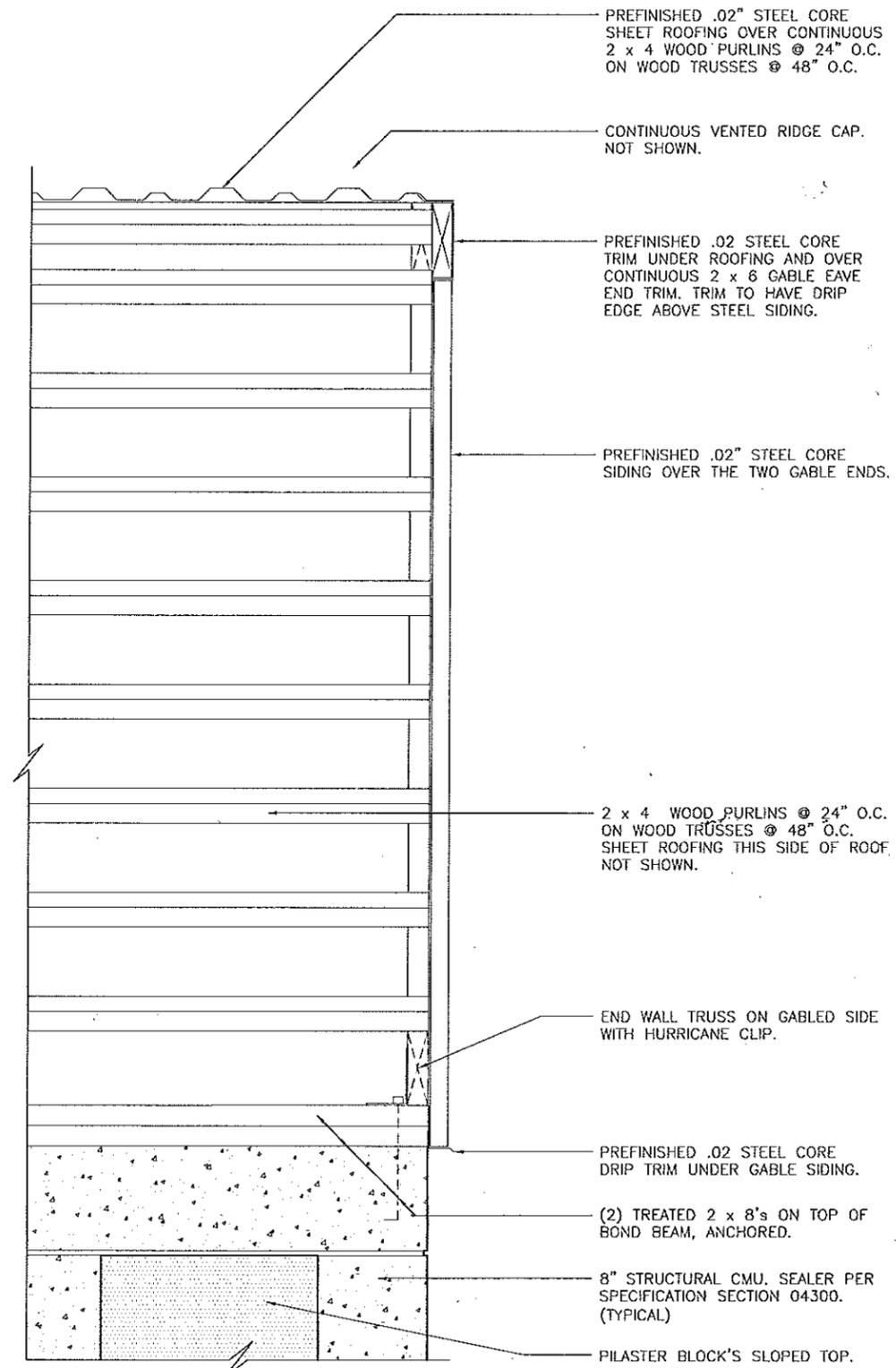
GRADING NOTES:

FILLING AND BACKFILLING: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE THE SPECIFIED MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DENSITY FOR THE AREA.

WASTE EARTH MATERIAL: STORED ON SITE. LOCATION AS DIRECTED BY OWNER.

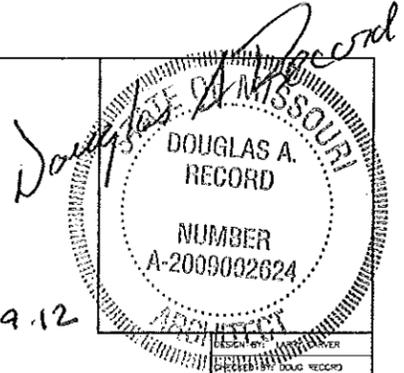
EXCAVATION: CONTRACTOR TO SLOPE GRADE AWAY FROM NEW CMU BLOCK STRUCTURE AS REQUIRED WITH 6" TYPE 5 ROCK BASE AND 5" BELOW ELEVATION OF EXISTING ASPHALT GRADE.

STAKING: STRUCTURE LOCATION STAKED BY MODOT AT MAINTENANCE SITE.



A GABLE DETAIL
9 SCALE: 1" = 1'-0"

4.19.12



Concrete Block Truck Wash
 St. Louis District
 Lemay, Missouri

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 ADDENDUM #1