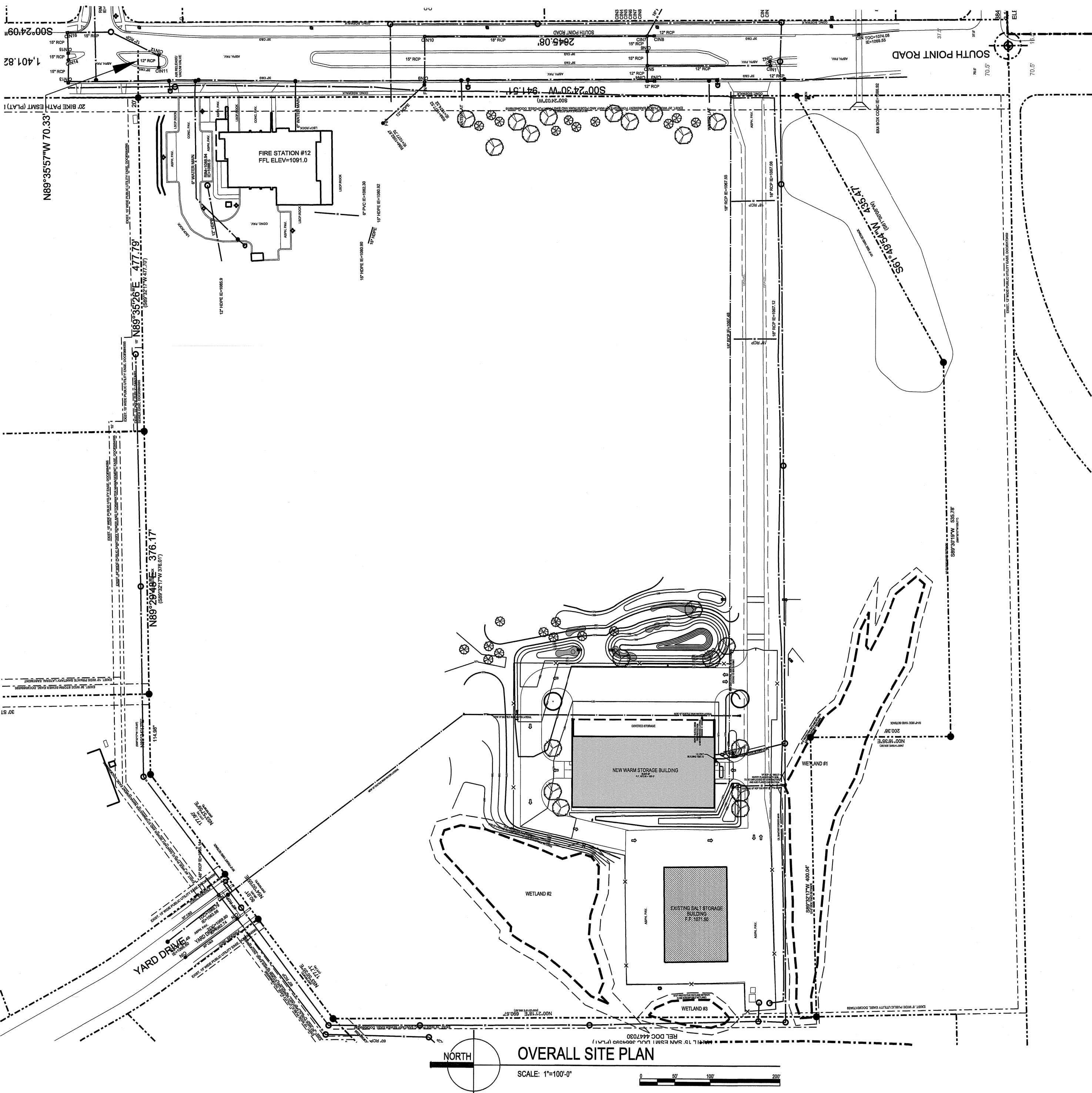


SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

Angus Young  
Architecture  
Engineering  
Interior Design  
555 South River Street, Janesville, WI 53548-4783  
Ph: 608.756.2326 Fx: 608.756.0464  
www.angusyoung.com



CITY OF MADISON PROJECT NUMBER: 53W1165  
CONTRACT NUMBER: 7169



REGULATORY DATA

PROJECT ADDRESS  
424 SOUTH POINT ROAD  
MADISON, WISCONSIN

BUILDING CODE  
2009 IBC

USE AND OCCUPANCY CLASSIFICATION  
S-2 - LOW HAZARD STORAGE

GENERAL BUILDING HEIGHT AND AREA  
MAXIMUM AREA = 26,000 S.F. (104,000 S.F. W/ SPRINKLER INCREASE)  
MAXIMUM STORIES = 3 (1 STORY W/ 300% SPRINKLER INCREASE)  
MAXIMUM HEIGHT = 55 FEET

TYPE OF CONSTRUCTION  
2B - PRE-ENGINEERED METAL BUILDING  
FULLY SPRINKLED - NFPA 13

PROJECT DIRECTORY

ANGUS YOUNG AND ASSOCIATES  
BRADLEY WERGINSZ, PROJECT MANAGER  
555 SOUTH RIVER STREET  
JANESVILLE, WI 53548  
1-608-756-2326  
bradw@angusyoung.com

CITY OF MADISON  
RANDY WIESNER, PROJECT MANAGER  
210 Martin Luther King Jr Blvd  
Room 115  
MADISON, WI 53703  
1-608-267-8679  
rwiesner@cityofmadison.com

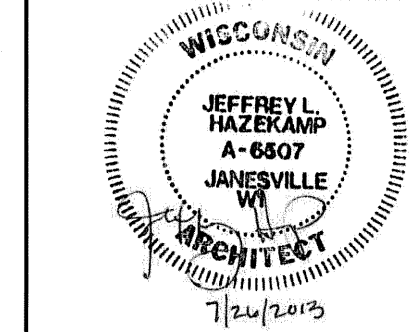
TIM TROESTER, City Engineering West Side Erosion Control  
210 Martin Luther King Jr Blvd  
Room 115  
MADISON, WI 53703  
1-608-267-1995  
ttroester@cityofmadison.com

CITY APPROVAL

PUBLIC IMPROVEMENT PROJECT APPROVED  
RES-12-00730, ID: FILE ID 27516  
SEPTEMBER 18, 2012  
BY THE COMMON COUNCIL OF  
MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:  
CITY ENGINEER  
7/24/13  
DATE

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 24 | 20 | 16 | 12 | 08 | 04 |
| 23 | 19 | 15 | 11 | 07 | 03 |
| 22 | 18 | 14 | 10 | 06 | 02 |
| 21 | 17 | 13 | 09 | 05 | 01 |



DETAILS IN THIS SET ARE PLACED  
ON THE SHEETS AND NUMBERED WITH  
RESPECT TO THE GRID ABOVE.  
CONSEQUENTLY, DETAILS ON A GIVEN  
SHEET MAY OR MAY NOT BE  
NUMBERED CONSECUTIVELY.

REGISTRATION STAMP AND SIGNATURE

SHEET INDEX

GENERAL  
G001 COVER SHEET & OVERALL SITE PLAN

CIVIL  
C101 OVERALL SITE LAYOUT AND LANDSCAPE PLAN  
C200 SITE DEMOLITION PLAN  
C201 SITE LAYOUT AND UTILITY PLAN  
C202 SITE GRADING PLAN  
C203 EROSION CONTROL PLAN  
C601 SITE PHOTOMETRIC PLAN  
C801 SITE DETAILS

ARCHITECTURAL  
A101 FLOOR PLAN  
A201 MEZZANINE/ CLEARSTORY PLAN  
A202 ROOF PLAN  
A301 SCHEDULES AND DETAILS  
A401 EXTERIOR ELEVATIONS  
A501 BUILDING SECTIONS  
A502 BUILDING SECTION AND DETAILS  
A601 WALL SECTIONS AND DETAILS

STRUCTURAL  
S101 FOUNDATION AND SLAB PLAN  
S200 MEZZANINE FRAMING PLAN & DETAILS - BASE BID  
S201 ROOF FRAMING PLAN  
S302 ALTERNATE MEZZANINE FRAMING PLAN & DETAILS  
S301 STRUCTURAL NOTES AND SCHEDULES  
S801 STRUCTURAL DETAILS

PLUMBING  
P100 PLUMBING UNDERFLOOR PLAN  
P101 MAIN LEVEL PLUMBING FLOOR PLAN  
P201 PLUMBING ISOMETRICS  
P301 ABBREVIATIONS, LEGENDS, SCHEDULES, & WATER CALC.

MECHANICAL  
M100 HVAC FLOOR PLAN  
M301 SCHEDULES AND DETAILS

ELECTRICAL  
E101 ELECTRICAL PLAN  
E102 PARTIAL ELECTRICAL PLANS  
E301 ELECTRICAL SCHEDULES  
E302 ELECTRICAL SCHEDULES AND ONLINE DIAGRAM

SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON

PROJECT NO.  
48150

DRAWN BY  
TEAM

REVIEWED BY  
JCT

APPROVED BY  
JLH

ISSUANCES

REVISIONS

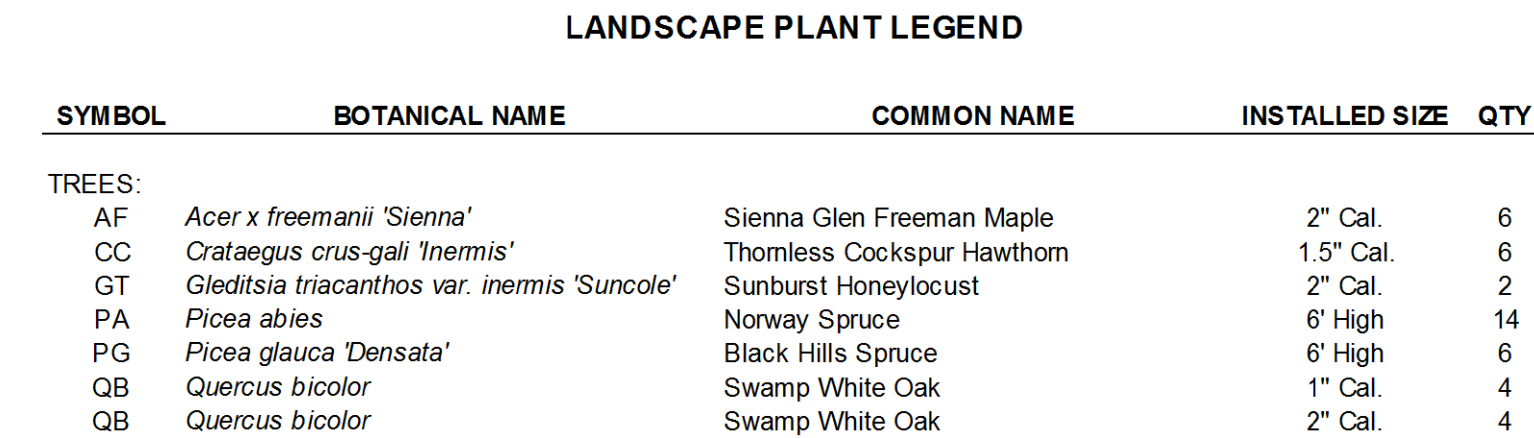
DEPT. OF COMMERCE PLAN REVIEW - 09/13/2012  
Bid/Construction - 06/14/2013  
Re-Bid/Construction - 07/26/2013

7/19/2013  
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G001

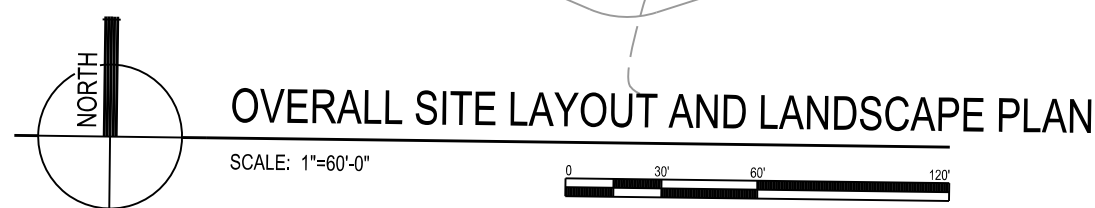




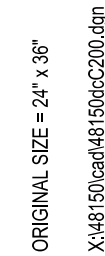
**Note: Species with strike-through are to be removed from seed mix and installed as plugs per plan. Prairie along South Point Road shall be entire seed mix.**

| SYMBOL | BOTANICAL NAME                | COMMON NAME            | INSTALLED SIZE | QTY |
|--------|-------------------------------|------------------------|----------------|-----|
| EP     | <i>Echinacea pallida</i>      | Pale Purple Coneflower | 2.5" Plug      | 141 |
| EU     | <i>Echinacea purpurea</i>     | Purple Coneflower      | 2.5" Plug      | 141 |
| EM     | <i>Eupatorium maculatum</i>   | Spotted Joe-Pye-Weed   | 2.5" Plug      | 92  |
| RP     | <i>Rudbeckia pinnata</i>      | Yellow Coneflower      | 2.5" Plug      | 102 |
| RH     | <i>Rudbeckia hirta</i>        | Black-eyed Susan       | 2.5" Plug      | 102 |
| RS     | <i>Rudbeckia subtomentosa</i> | Sweet Black-eyed Susan | 2.5" Plug      | 102 |

1. ALL AREAS SHALL BE SEEDED SHORTGRASS PRAIRIE FOR MEDIUM SOILS UNLESS OTHERWISE NOTED.
2. ALL DECIDUOUS TREES SHALL RECEIVE 4'-0" DIAMETER SHREDDED BARK MULCH TREE RING (3" THICK) WITH SPADE-CUT EDGE.
3. ALL EVERGREEN TREES SHALL RECEIVE 6'-0" DIAMETER SHREDDED BARK MULCH TREE RING (3" THICK) WITH SPADE-CUT EDGE.
4. SEE DETAIL 24/C101 FOR TREE PLANTING DETAIL.
5. PROVIDE EROSION CONTROL MAT ON ALL SEEDED AREAS PER SHEET C203 AND SPECIFICATIONS.







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| ISSUANCES                                  | REVISIONS |
|--------------------------------------------|-----------|
| UDC FINAL APPROVAL SUBMITTAL - 07/17/2012  |           |
| DESIGN DEVELOPMENT PACKET - 08/02/2012     |           |
| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |           |
| Dept. of Commerce Plan Review - 09/13/2012 |           |
| Bill Construction - 06/14/2013             |           |
| Re-Bid Construction - 07/26/2013           |           |

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SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

|                         |                    |                    |                 |
|-------------------------|--------------------|--------------------|-----------------|
| PROJECT NUMBER<br>48150 | APPROVED BY<br>JLH | REVIEWED BY<br>JCT | DRAWN BY<br>KAU |
|-------------------------|--------------------|--------------------|-----------------|

SITE DEMOLITION  
PLAN

**C200**

# C200

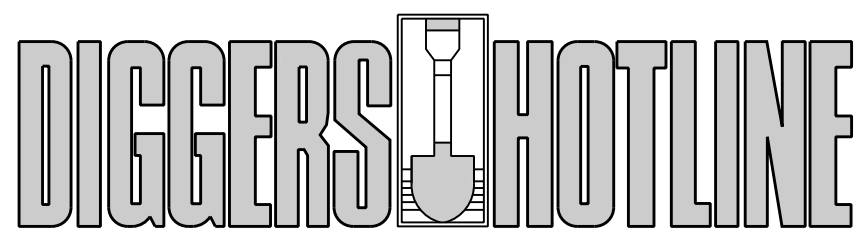


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PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"  
X:\4815\Draw\481506\201.dgn

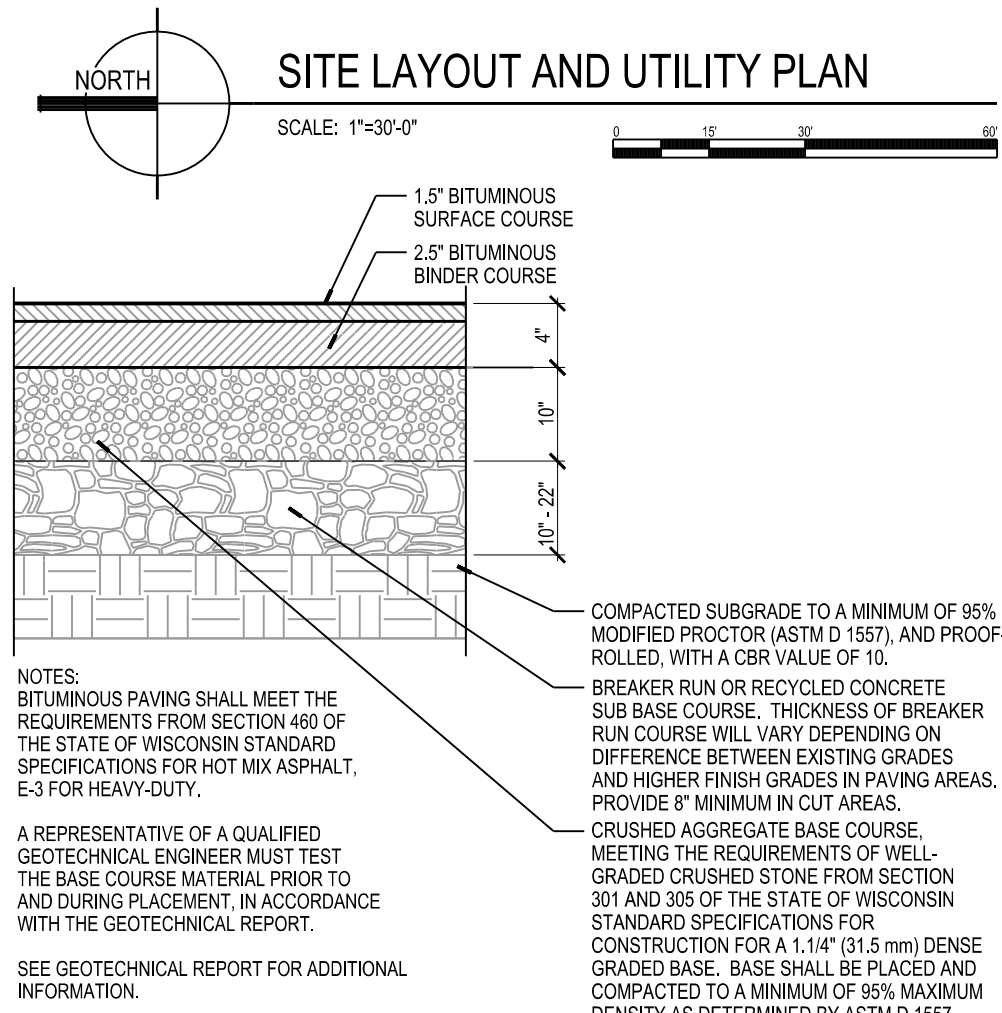
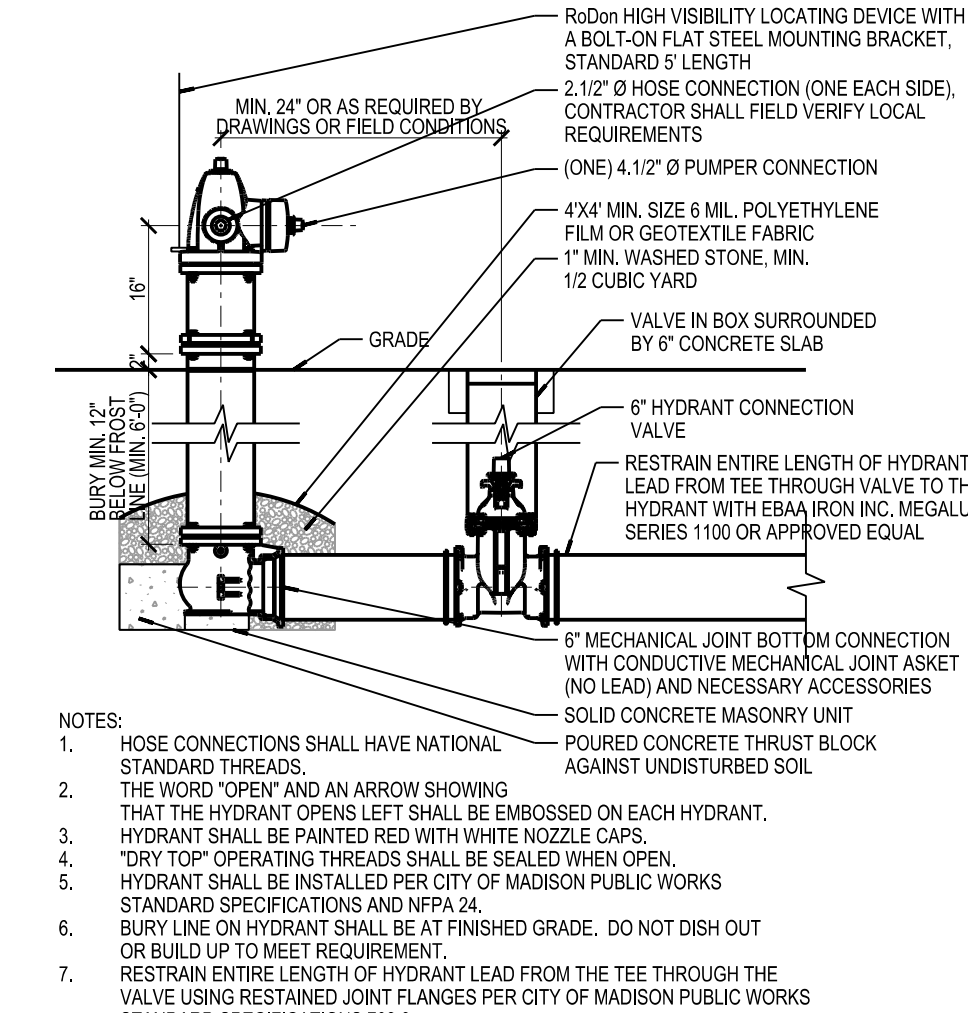
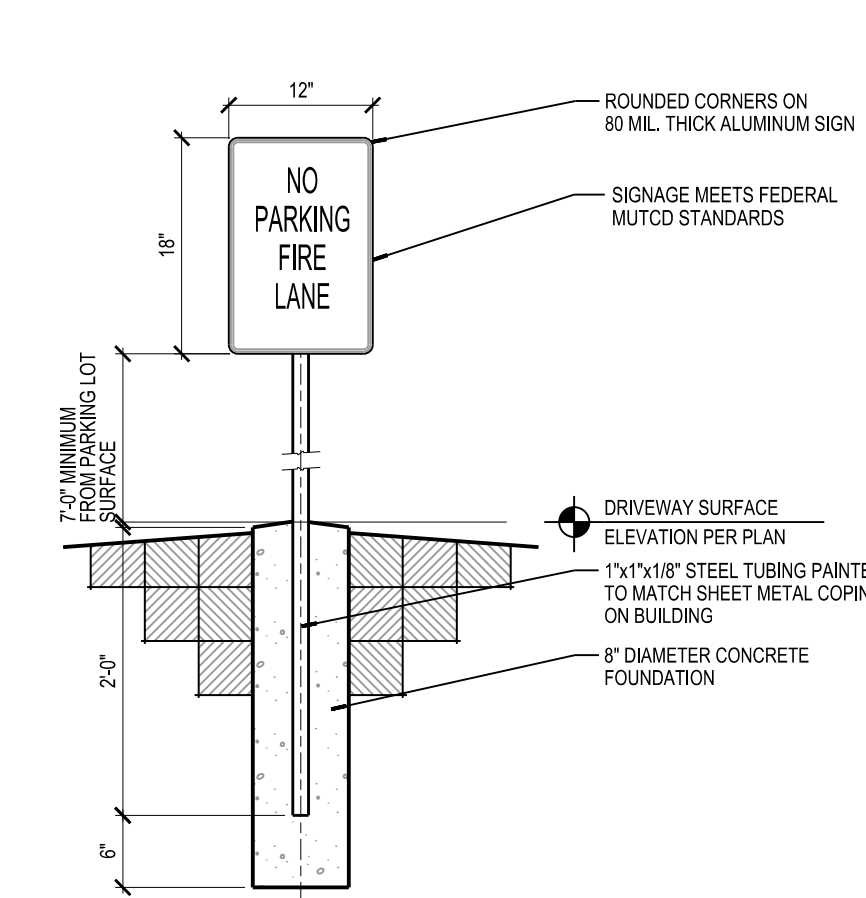
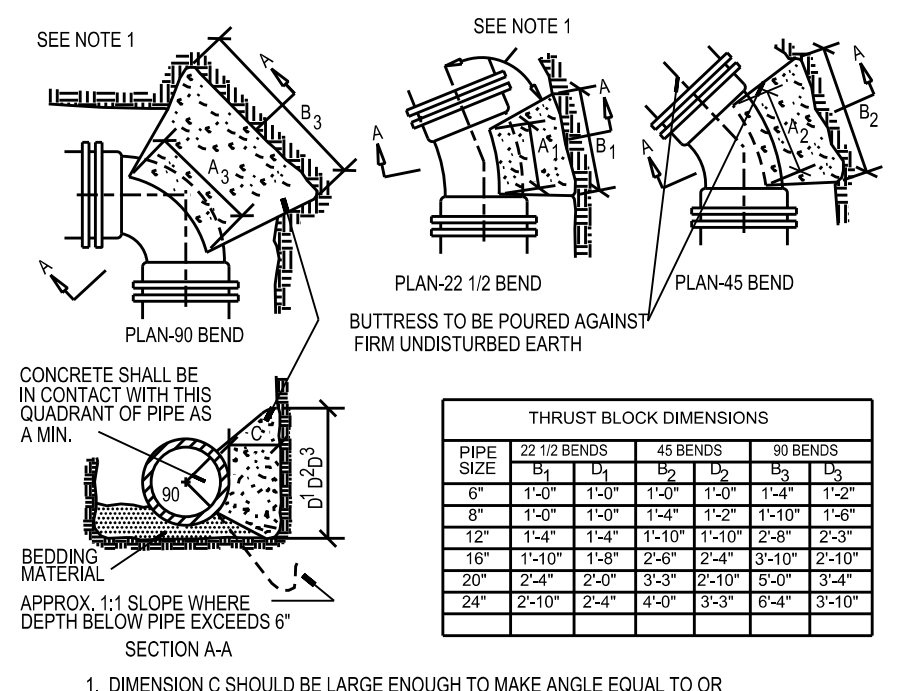
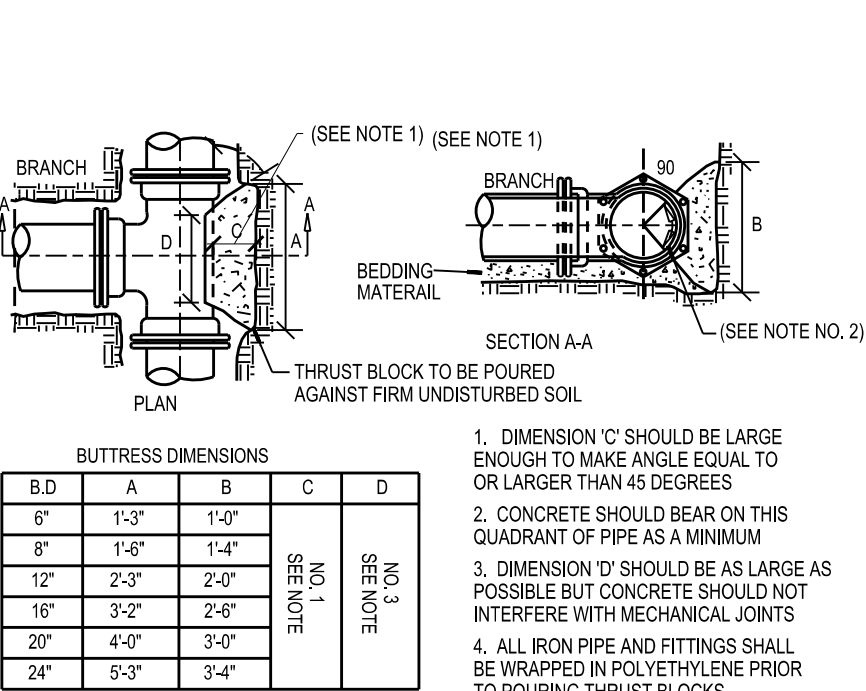
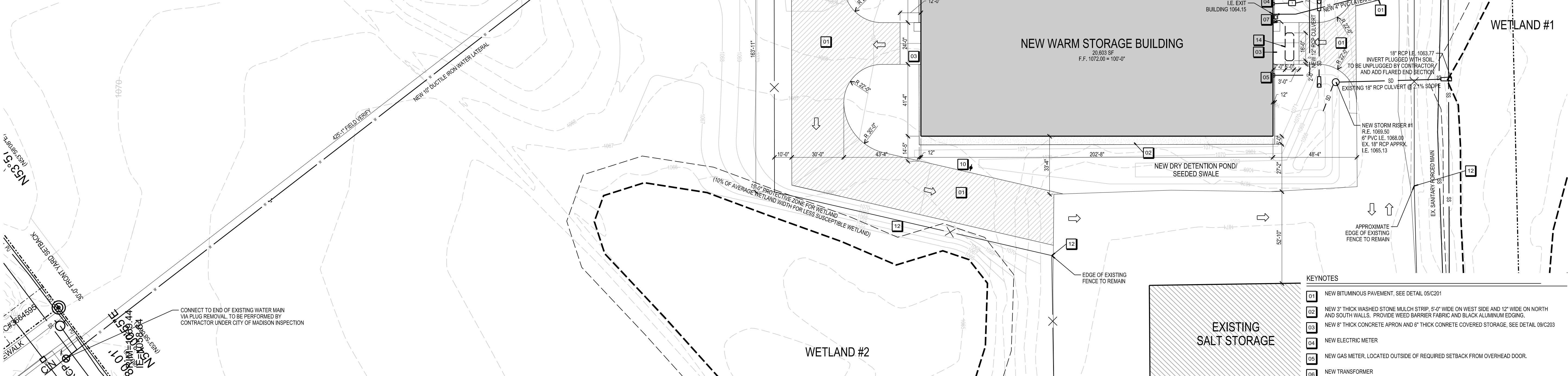
| SITE LINE LEGEND |                               |
|------------------|-------------------------------|
|                  | PROPERTY LINE                 |
|                  | EASEMENT LINE                 |
|                  | EXISTING INTERMEDIATE CONTOUR |
|                  | EXISTING INDEX CONTOUR        |
|                  | NEW INTERMEDIATE CONTOUR      |
|                  | NEW INDEX CONTOUR             |
|                  | PAVEMENT                      |
|                  | RAILING                       |
|                  | FENCE                         |
|                  | STORM DRAIN                   |
|                  | SANITARY SEWER                |
|                  | WATER                         |
|                  | PUBLIC WATER MAIN             |
|                  | GAS                           |
|                  | ELECTRICAL POWER              |
|                  | UNDERGROUND ELECTRICAL POWER  |
|                  | TELEPHONE                     |
|                  | UNDERGROUND TELEPHONE         |

NOTE: ALL LINE TYPES MAY NOT BE USED IN THIS SET.



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MILWAUKEE AREA 414-259-1181  
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TDD (HEARING IMPAIRED) 1-800-542-2289  
ONLINE: [www.DiggersHotline.com](http://www.DiggersHotline.com)

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM  
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.



- ### KEYNOTES
- 01 NEW BITUMINOUS PAVEMENT, SEE DETAIL 05/C201
  - 02 NEW 3" THICK WASHED STONE MULK STRIP, 5'-0" WIDE ON WEST SIDE AND 12" WIDE ON NORTH AND SOUTH WALLS. PROVIDE WEED BARRIER FABRIC AND BLACK ALUMINUM EDGING.
  - 03 NEW 8" THICK CONCRETE APRON AND 6" THICK CONCRETE COVERED STORAGE, SEE DETAIL 09/C203
  - 04 NEW ELECTRIC METER
  - 05 NEW GAS METER, LOCATED OUTSIDE OF REQUIRED SETBACK FROM OVERHEAD DOOR.
  - 06 NEW TRANSFORMER
  - 07 NEW FIRE DEPARTMENT CONNECTION WITH HORN AND STROBE
  - 08 NEW FIRE HYDRANT, SEE DETAIL 09/C201. HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO COMPLETION OF CONSTRUCTION ON PROJECT SITE PER CITY FIRE DEPARTMENT REQUIREMENTS. HYDRANTS SHALL BE INSTALLED SO THAT THE LARGE DIAMETER DISCHARGE FACES PAVED AREA.
  - 09 NEW THRUST BLOCKING, TYPICAL, SEE DETAILS 17/C201 AND 21/C201
  - 10 NEW FIRE LANE SIGNAGE, SEE DETAIL 13/C201
  - 11 RELOCATED 12'-0" WIDE MANUAL SWING GATES WITH 3-STRAND VERTICAL BARBED WIRE, PADLOCK AND KNOX BOX. SEE DEMOLITION PLAN FOR EXISTING FENCE LOCATION.
  - 12 NEW 8'-0" HIGH CHAIN LINK FENCE WITH 18" HIGH 3-STRAND BARBED WIRE WITH ANGLED BRACKETS ANGLED AWAY FROM NEW BUILDING. SEE DETAIL 13/C201.
  - 13 NEW TEE FITTING FOR FUTURE DEVELOPMENT, MARKED IN FIELD WITH POST, TYPICAL
  - 14 NEW DETECTOR LOOP IN PVC CONDUIT UNDER CONCRETE PAVEMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
  - 15 NEW WATER VALVE IN ACCORDANCE WITH CITY OF MADISON AND STATE OF WISCONSIN REQUIREMENTS, SEE DETAIL 22/C201
- ### GENERAL NOTES
- CONTRACTOR SHALL VERIFY ALL UTILITIES, ELEVATIONS AND DIMENSIONS.
  - GAS LATERAL SHALL CONNECT WITH SOUTH POINT MAIN (APPROXIMATELY 975 LINEAR FEET). CONTRACTOR SHALL COORDINATE WITH UTILITY.
  - PROVIDE THRUST BLOCKING FOR WATER LATERAL PER DETAILS 17/C201 AND 21/C201.
  - ANY DAMAGE DONE TO THE PAVEMENT ON SOUTH POINT OR YARD DRIVE SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PATCHING CRITERIA.
  - TRACER WIRE SHALL BE INSTALLED ABOVE ALL SANITARY, STORM, AND WATER LINES THAT CONNECT TO A PUBLIC UTILITY. TRACER WIRE SHALL BE A MINIMUM OF 1/2" GAUGE, PLASTIC-COATED COPPER, BURIED WITHIN 6" AND DIRECTLY ABOVE THE TOP OF THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT LEAST EVERY 400'. PROTECT THE WIRE AT THE ACCESS POINTS. THE COLOR OF TRACER WIRE SHALL BE AS FOLLOWS:
    - GREEN FOR SANITARY SEWER
    - BROWN FOR STORM SEWER
    - BLUE FOR POTABLE WATER
  - CONTRACTOR SHALL COORDINATE WITH THE CITY OF MADISON ON REQUIRED WATER VALVES AND CONNECTIONS.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALLIANT ENERGY ON ELECTRICAL SERVICE AND MECHANICAL CONTRACTOR SHALL COORDINATE WITH MGE ON GAS SERVICE.

21

C201

THRUST BLOCKING FOR TEES

SCALE: NONE

17

C201

THRUST BLOCKING FOR BENDS

NOT TO SCALE

13

C201

FIRE LANE SIGN DETAIL

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

09

C201

FIRE HYDRANT DETAIL

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

05

C201

BITUMINOUS PAVING DETAIL

SCALE: 1"=1'-0"

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SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

PROJECT NUMBER  
48150

APPROVED BY  
JLH

REVIEWED BY  
JCT

DRAWN BY  
KAU

7/19/2013 8:40:10 AM

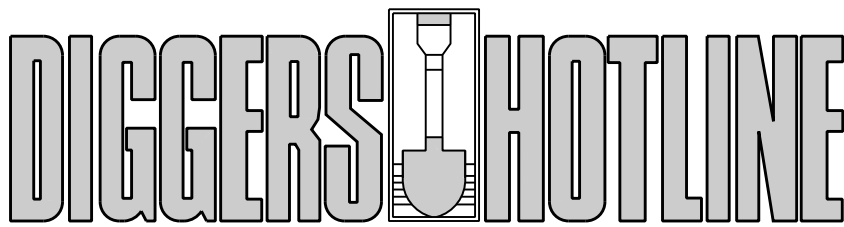
ISSUANCES

UDS FINAL APPROVAL SUBMITTAL - 07/17/2012  
DESIGN DEVELOPMENT PACKET - 08/23/2012  
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REVISIONS

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WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM  
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.

### POST-CONSTRUCTION STORMWATER MANAGEMENT REGULATIONS

#### NR 151.121 Post-Construction Performance Standards

This site is required to meet the NR 151.121 Post-Construction Standards.

#### Total Suspended Solids: Per NR 151.122

For New Development, reduce to the maximum extent practicable, the total suspended solids load by 80% based on an average annual rainfall, as compared to no runoff management controls.

#### Peak Discharge: Per NR 151.123

For New Development, reduce to the maximum extent practicable, the 1-year, 24-hour and 2-year, 24-hour and 10-year, 24-hour post-construction peak runoff discharge rates to pre-development peak runoff discharge rates. Safely pass the 100-year, 24-hour storm event.

#### Infiltration: Per NR 151.124

Exempt; this site has soils that have less than 0.6 in/hr infiltration rate.

#### Protective Areas: Per NR 151.125

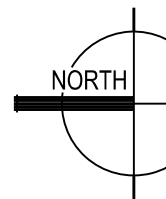
Less Susceptible Wetlands: 10% of average wetland width, not less than 10' nor more than 30'

#### GRADING AND SEEDING NOTES

- All disturbed areas shall be seeded and mulched immediately following grading activities.
- All proposed grades are finished grades. Contractor shall verify all grades and ensure proper drainage. Contractor shall report any discrepancies to the design professional prior to completion.
- Within 10 days after installation of filtration device and final stabilization of the site, the General Contractor shall notify the design professional that the site is ready for as-built certification.

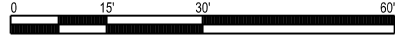
| SITE LINE LEGEND |                               |
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|                  | EASEMENT LINE                 |
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|                  | EXISTING INDEX CONTOUR        |
|                  | NEW INTERMEDIATE CONTOUR      |
|                  | NEW INDEX CONTOUR             |
|                  | PAVEMENT                      |
|                  | RAILING                       |
|                  | FENCE                         |
|                  | STORM DRAIN                   |
|                  | SANITARY SEWER                |
|                  | WATER                         |
|                  | PUBLIC WATER MAIN             |
|                  | GAS                           |
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|                  | UNDERGROUND ELECTRICAL POWER  |
|                  | TELEPHONE                     |
|                  | UNDERGROUND TELEPHONE         |

NOTE: ALL LINE TYPES MAY NOT BE USED IN THIS SET.



### SITE GRADING PLAN

SCALE: 1"=30'-0"

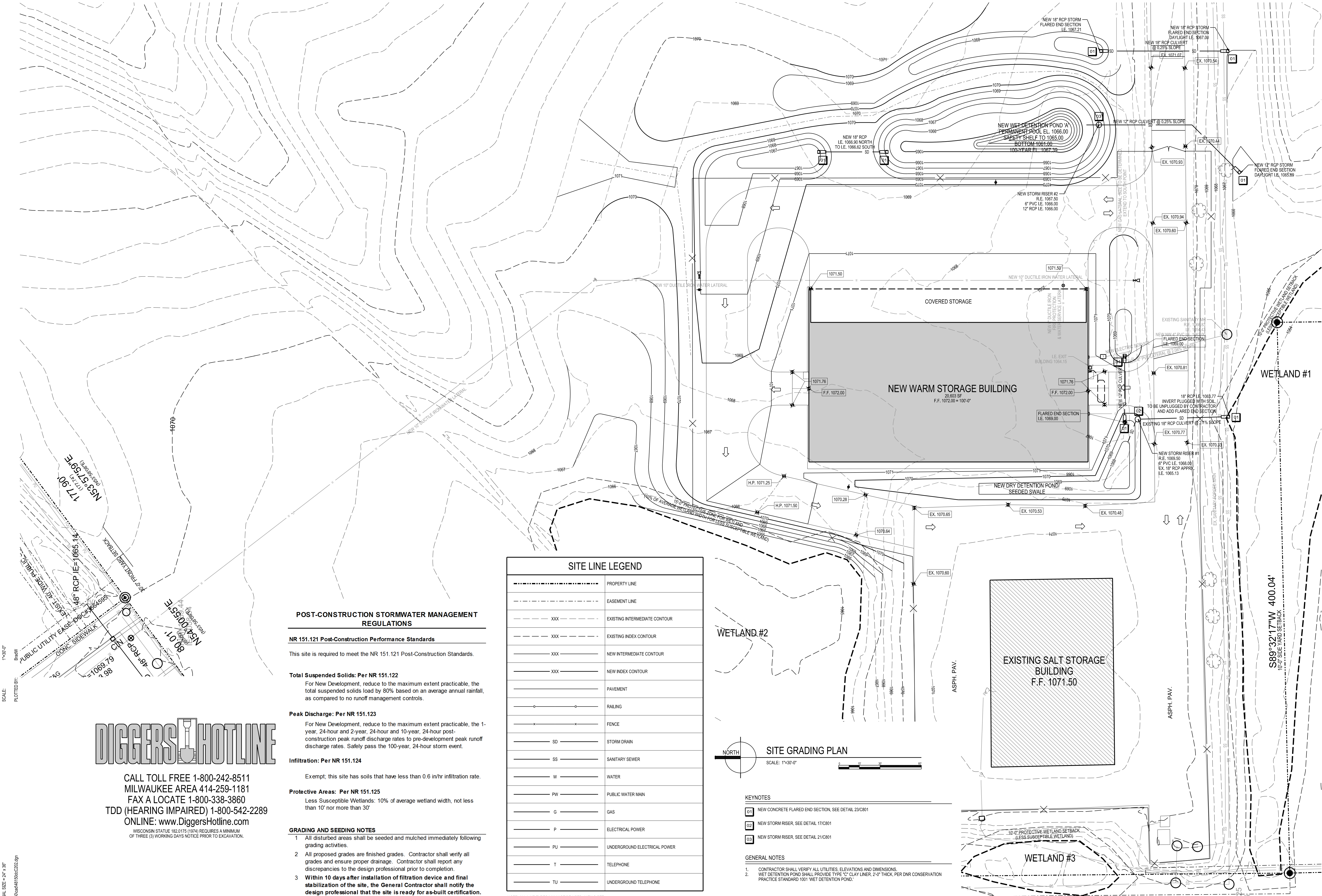


#### KEYNOTES

- 01 NEW CONCRETE FLARED END SECTION. SEE DETAIL 23/C801
- 02 NEW STORM RISER. SEE DETAIL 17/C801
- 03 NEW STORM RISER. SEE DETAIL 21/C801

#### GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL UTILITIES, ELEVATIONS AND DIMENSIONS.
- WET DETENTION POND SHALL PROVIDE TYPE "C" CLAY LINER, 2'-0" THICK, PER DNR CONSERVATION PRACTICE STANDARD 1001 WET DETENTION POND.



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|                |                      |
|----------------|----------------------|
| PROJECT NUMBER | 48150                |
| APPROVED BY    | JLH                  |
| REVIEWED BY    | JCT                  |
| DRAWN BY       | KAU                  |
| DATE           | 7/19/2013 8:40:13 AM |

SITE GRADING PLAN

SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

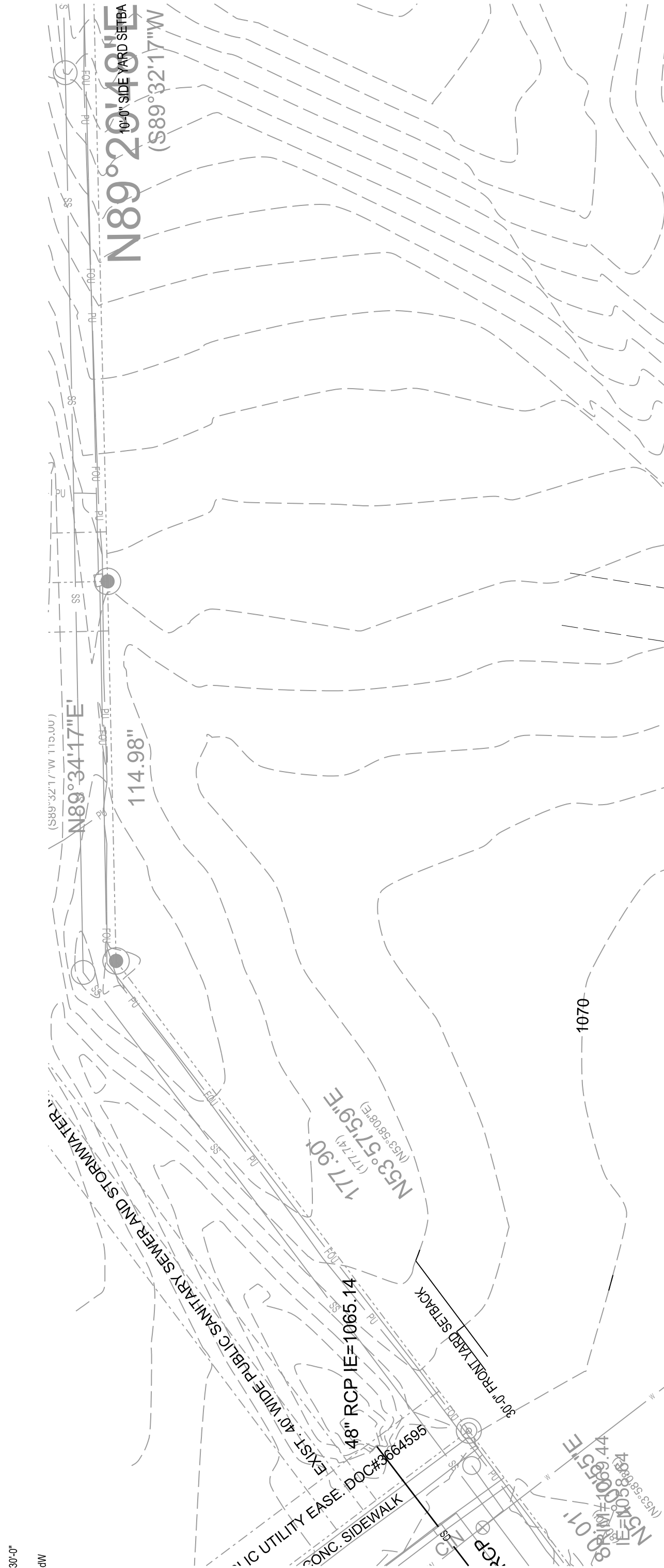
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| ISSUANCES                                  |  |
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SCALE: 1"=30'-0"  
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"  
X:\4815\Draw481506c203.dgn

### CONSTRUCTION SITE EROSION CONTROL REGULATIONS

#### INITIAL DOWNSTREAM RECEIVING WATER OF THE STATE FROM SITE:

Upper Sugar River Watershed / Unnamed Pond to South  
**NR 151.11 Construction Site Performance Standards for Sites of 1 Acre or More**

Provide erosion and sediment control practices to prevent or reduce all of the following:

- The deposition of soil from being tracked onto streets by vehicles.
- The discharge of sediment from disturbed areas into on-site storm water inlets.
- The discharge of sediment from disturbed areas into adjacent waters of the state.
- The discharge of sediment from drainage ways that flow off the site.
- The discharge of sediment by dewatering activities.
- The discharge of sediment eroding from soil stockpiles existing for more than 7 days.
- The transport by runoff into waters of the state of chemicals, cement and other buling compounds an dmaterials on the construction site during the construction period.

The transport by runoff into waters of the state of untreated wash water from vehicle and wheel washing.

#### Sediment Performance Standards:

Provide BMP's that, by design, achieve a reduction of 80%, or to the maximum extent practicable, of th sediment load carried in runoff, on an average annual basis, as compared with no sediment or erosion controls, until the construction site has undergone final stabilization.

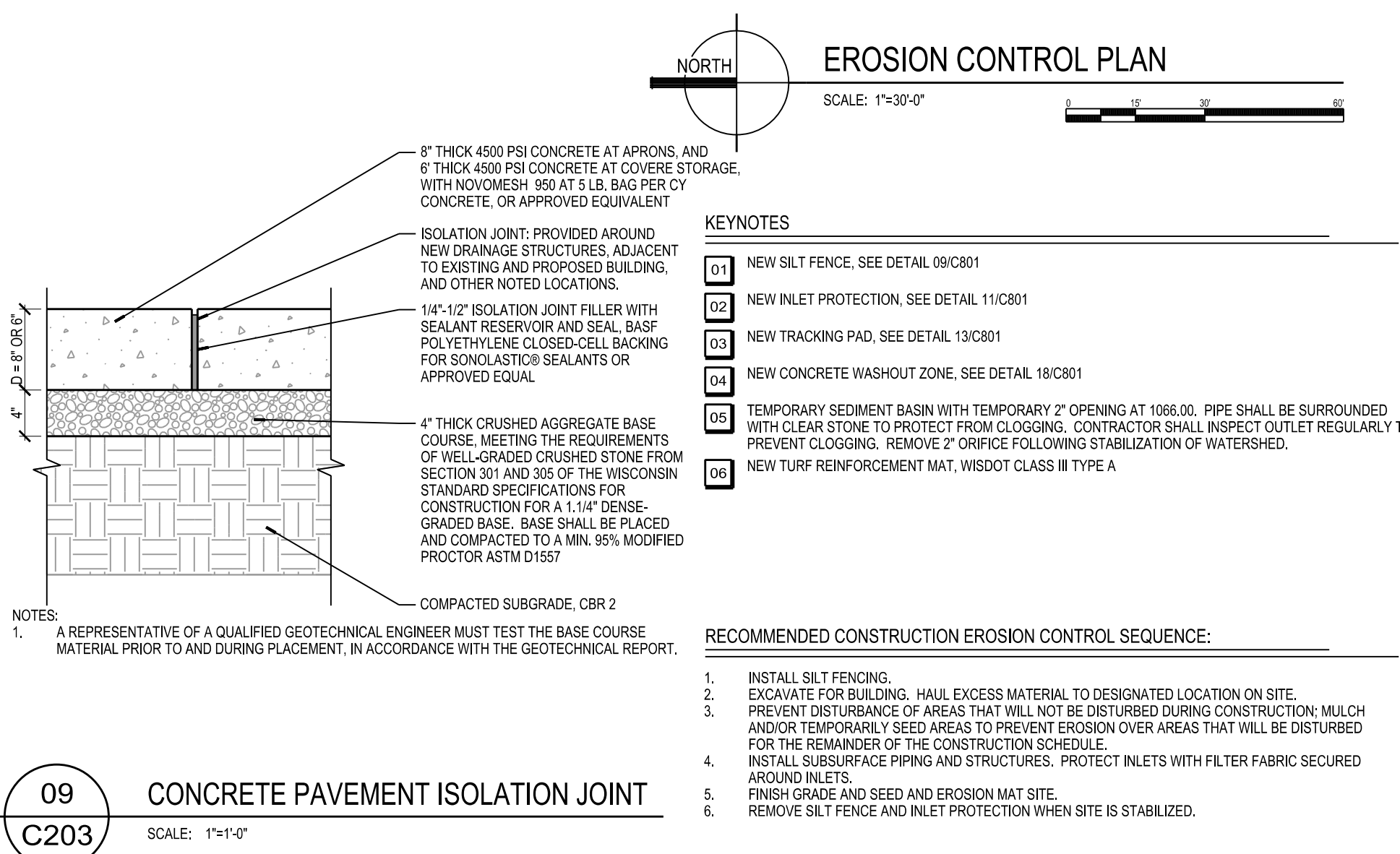
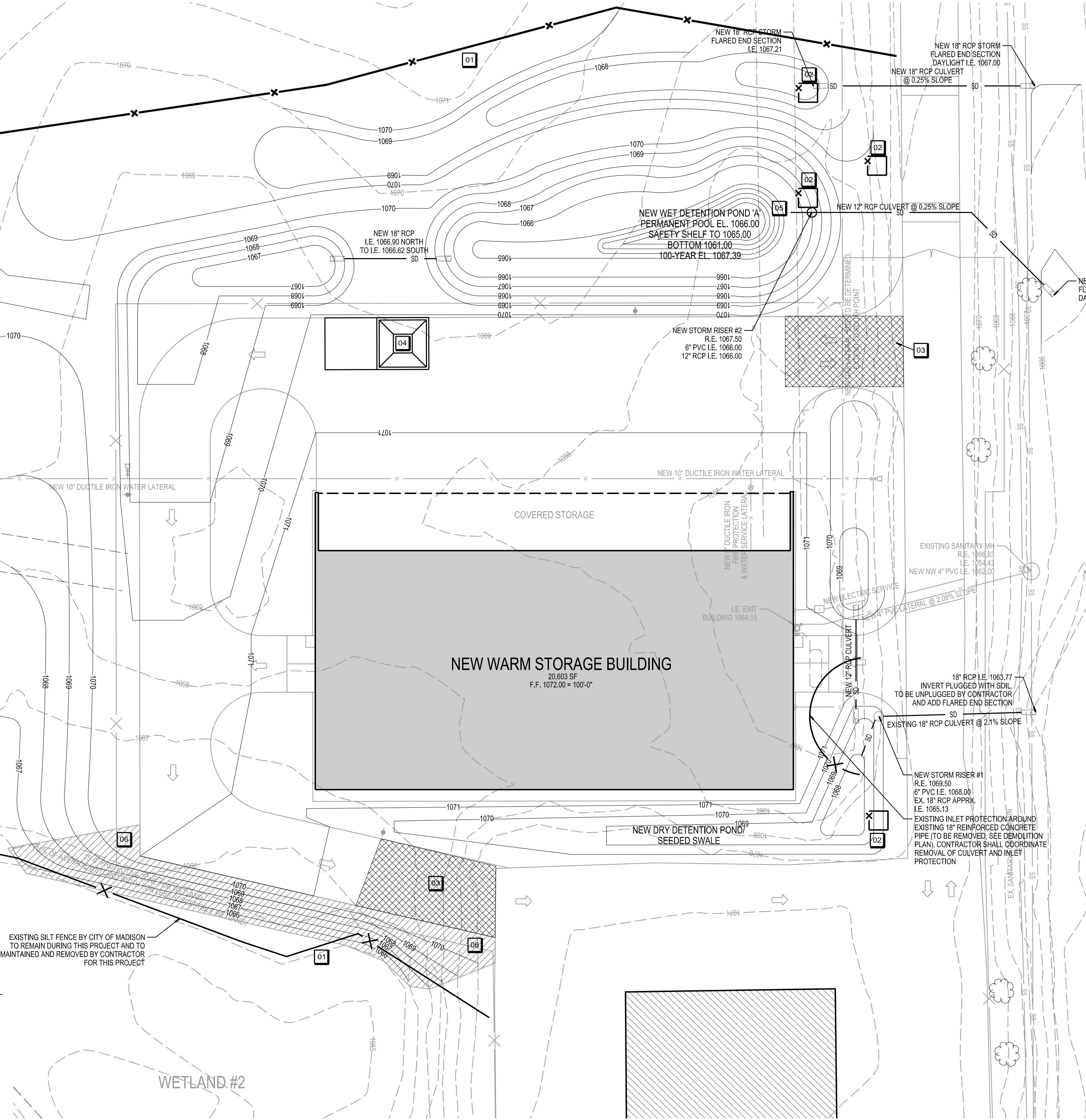
Erosion and sediment control practices shall be constructed or installed before land disturbing activities begin. These practices shall be maintained until final stabilization. BMP's that are no longer necessary shall be removed by contractor.

The following BMP's shall be incorporated into this Erosion and Sediment Control Plan:

- \* Channel Erosion Mat, per Wisconsin DNR Conservation Practice Standard No. 1053
- \* De-watering, per Wisconsin DNR Conservation Practice Standard No. 1061
- \* Construction Site Diversion, per Wisconsin DNR Conservation Practice Standard No. 1061
- \* Grading Practices for Erosion Control - Temporary, per Wisconsin DNR Conservation Practice Standard No. 1067
- \* Mulching for Construction Sites, per Wisconsin DNR Conservation Practice Standard No. 1058
- \* Non-Channel Erosion Mat, per Wisconsin DNR Conservation Practice Standard No. 1052
- \* Sediment Basin, per Wisconsin DNR Consenation Practice Standard No. 1064
- \* Seeding, per Wisconsin DNR Conservation Practice Standard No. 1059
- \* Silt Fence, per Wisconsin DNR Conservation Practice Standard No. 1056
- \* Stone Tracking Pad and Tire Washing, per Wisconsin DNR Conservation Practice Standard No. 1057
- \* Storm Drain Inlet Protection for Construction Sites, per Wisconsin Conservation Practice Standard No. 1060
- \* Vegetative Buffer for Construction Sites, per Wisconsin DNR Conservation Practice Standard No. 1054
- \* Stockpile protection

#### EROSION CONTROL NOTES:

- If land disturbance will exceed 1 Acre, Contractor shall have a signed copy of the **WPDES General Permit Specific to the Property and signed by the DNR Stormwater Agent, as well as the Certificate of Permit Coverage** on property at all times. Land disturb activity shall not commense prior to the start date of coverage as noted on permit. The Contractor shall post the Certificate of Permit Coverage in a conspicuous place on the construction site.
- Contractor shall notify City of Madison two (2) working days prior to start of land disturbing activity. Contractor shall also file a notice with the City of Madison within ten (10) days after completion of land-disturbing activities.
- The Contractor shall obtain a **Notice of Termination** with the Department of Natural Resources when all land disturbing activities have ceased, all temporary erosion and sediment controls have been removed, and all disturbed areas have perennial cover of at least 70%.
- The Contractor shall **routinely inspect and maintain** the erosion and sediment control measures as listed below:
  - At least every 7 days
  - Within 24 hours after a rainfall event of 0.5 inches or greater. A rainfall event should be considered to be the total amount of rainfall recorded in any continuous 24 hour period.
  - The Contractor shall report weekly inspections on the City of Madison's Erosion Control website.
- The Contractor shall maintain a **weekly written report** of the erosion and sediment control measures and **conduct maintenance** to ensure the measures are in proper working order. The monitoring record shall include at least the following:
  - Date, time ana exact place of inspection.
  - Name(s) of individual(s) performing inspection.
  - An assessment of the condition of erosion and sediment controls
  - A description of any erosion and sediment control implementation and maintenance performed.
  - A description o the site's present phase of constructionNote: The DNR Construction Site Inspection Report Form can be used for these inspections, which is located at: [http://dnr.wi.gov/runoff/pdf/stormwater/3400187\\_Construction\\_Site\\_Inspection\\_Report.pdf](http://dnr.wi.gov/runoff/pdf/stormwater/3400187_Construction_Site_Inspection_Report.pdf)
- The Contractor shall utilize erosion and sediment control products that are on the Wisconsin DOT Product Acceptability List (PAL). This list can be found at: <http://www.dot.wi.gov/business/engserv/docs/pal.pdf>.



#### EROSION CONTROL PLAN

SCALE: 1"=30'-0"

#### KEYNOTES

- 01 NEW SILT FENCE, SEE DETAIL 09/C01
- 02 NEW INLET PROTECTION, SEE DETAIL 11/C01
- 03 NEW TRACKING PAD, SEE DETAIL 13/C01
- 04 NEW CONCRETE WASH-OUT ZONE, SEE DETAIL 18/C01
- 05 TEMPORARY SEDIMENT BASIN WITH TEMPORARY 2" OPENING AT 1066.00. PIPE SHALL BE SURROUNDED WITH CLEAR STONE TO PROTECT FROM CLOGGING. CONTRACTOR SHALL INSPECT OUTLET REGULARLY TO PREVENT CLOGGING. REMOVE 2" ORPIPE FOLLOWING STABILIZATION OF WATERSHED.
- 06 NEW TURF REINFORCEMENT MAT, WISDOT CLASS III TYPE A

#### RECOMMENDED CONSTRUCTION EROSION CONTROL SEQUENCE:

- INSTALL SILT FENCING.
- EXCAVATE FOR BUILDING. HAUL EXCESS MATERIAL TO DESIGNATED LOCATION ON SITE.
- PREVENT DISTURBANCE OF AREAS THAT WILL NOT BE DISTURBED DURING CONSTRUCTION: MULCH AND/OR TEMPORARILY SEED AREAS TO PREVENT EROSION OVER AREAS THAT WILL BE OUTLET REGULARLY FOR THE REMAINDER OF THE CONSTRUCTION SCHEDULE.
- INSTALL SUBSURFACE PIPING AND STRUCTURES. PROTECT INLETS WITH FILTER FABRIC SECURED AROUND INLETS.
- FINISH GRADE AND SEED AND EROSION MAT SITE.
- REMOVE SILT FENCE AND INLET PROTECTION WHEN SITE IS STABILIZED.

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CALL TOLL FREE 1-800-242-8511  
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FAX A LOCATE 1-800-338-3860  
TDD (HEARING IMPAIRED) 1-800-542-2289  
ONLINE: [www.DiggersHotline.com](http://www.DiggersHotline.com)

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.

#### GENERAL NOTES

- ALL AREAS SHALL BE SEEDED LAWN UNLESS OTHERWISE NOTED.
- ALL SEEDED AREAS SHALL RECEIVE WISDOT CLASS 1 URBAN TYPE B EROSION MAT (LIGHT DUTY DOUBLE NETTED 100% BIOGRADABLE) UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CITY OF MADISON EROSION CONTROL AND STORMWATER REQUIREMENTS AND SHALL PROVIDE PROPER NOTIFICATION. IF ADDITIONAL EROSION CONTROL MEASURES ARE DETERMINED NECESSARY, THEY SHALL BE PROVIDED AND INSTALLED AT CONTRACTOR'S EXPENSE.
- NO PORTION OF DISTURBED LAND SHALL REMAIN UNCOVERED FOR GREATER THAN TWO (2) WEEKS AFTER NOTICE IS GIVEN THAT THE ACTIVITY IS COMPLETED.
- ALL INCIDENTAL MUD-TRACKING OFF-SITE ONTO ADJACENT PUBLIC STREETS SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY USING PROPER CLEANING AND DISPOSAL METHODS.
- INSTALL SCOURSTOP AT STORM PIPE OUTLETS IMMEDIATELY FOLLOWING INSTALLATION OF FLARED END SECTIONS TO PREVENT EROSION.
- IF TEMPORARY STOCKPILE IS NEEDED, CONTRACTOR SHALL LOCATE ON WORKING AREA OF SITE AND SURROUND WITH SILT FENCE.

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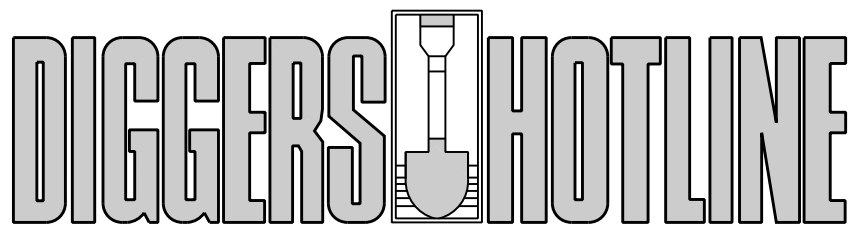
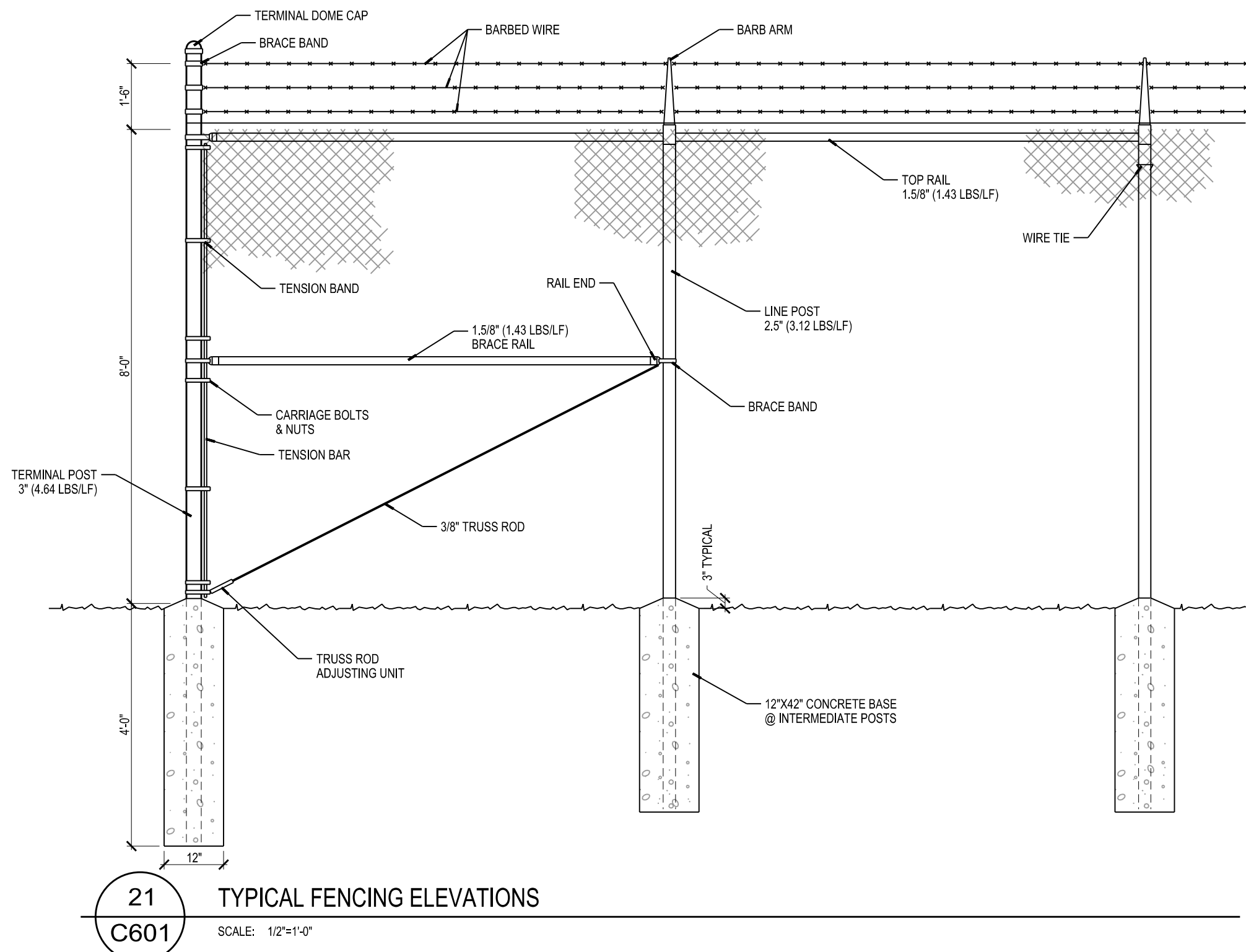
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EROSION CONTROL PLAN

C203

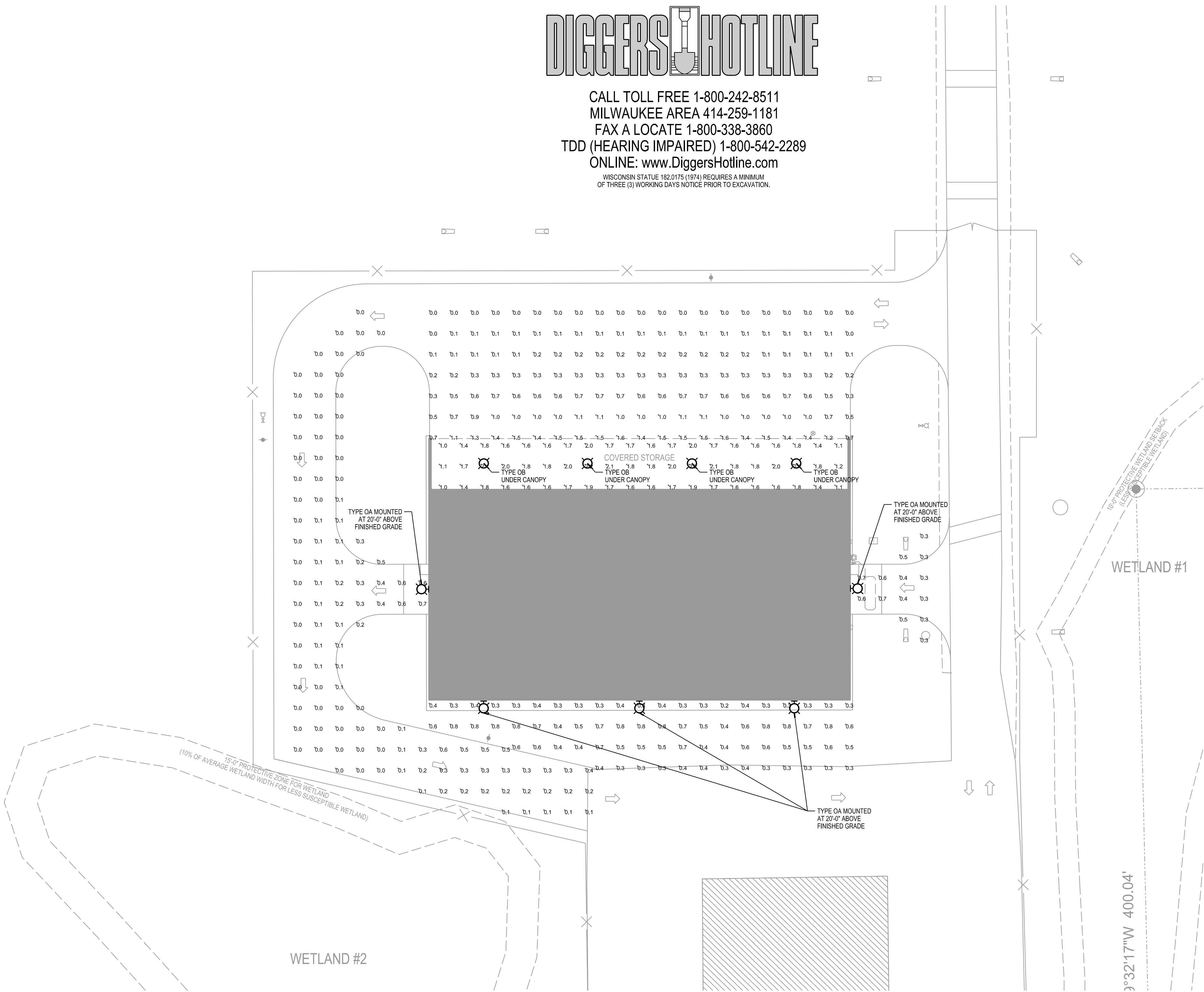


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WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM  
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.



| STATISTICS           |        |        |        |        |         |         |
|----------------------|--------|--------|--------|--------|---------|---------|
| Description          | Symbol | Avg    | Max    | Min    | Max/Min | Avg/Min |
| ADJACENT TO BUILDING | +      | 0.5 fc | 0.8 fc | 0.2 fc | 4.0:1   | 2.5:1   |
| EAST DRIVE           | +      | 0.5 fc | 1.6 fc | 0.0 fc | N / A   | N / A   |
| NORTH DRIVE          | +      | 0.1 fc | 0.7 fc | 0.0 fc | N / A   | N / A   |
| SOUTH DRIVE          | +      | 0.4 fc | 0.7 fc | 0.3 fc | 2.3:1   | 1.3:1   |
| UNDER CANOPY         | +      | 1.7 fc | 2.2 fc | 1.0 fc | 2.2:1   | 1.7:1   |

| LUMINAIRE SCHEDULE |       |     |                                                            |                                                         |                                                 |      |       |
|--------------------|-------|-----|------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|------|-------|
| Symbol             | Label | Qty | Catalog Number                                             | Description                                             | Lamp                                            | LLF  | Watts |
|                    | OA    | 5   | CREE/BETA SEC-<br>EDG-4MB-WM-02-D-<br>UL-B2-4ML<br>(525mA) | 20 LED TYPE IV MEDIUM<br>525mA 5700K EDGE<br>SECURITY   | TWENTY WHITE LIGHT<br>EMITTING DIODES<br>(LEDs) | 1.00 | 36    |
|                    | OB    | 4   | CREE/BETA CAN-<br>EDG-5M-DM-02-ML<br>(525mA)               | 40 LED TYPE V MEDIUM<br>EDGE PARKING<br>STRUCTURE 525mA | FORTY WHITE LIGHT<br>EMITTING DIODES<br>(LEDs)  | 1.00 | 66    |



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C601

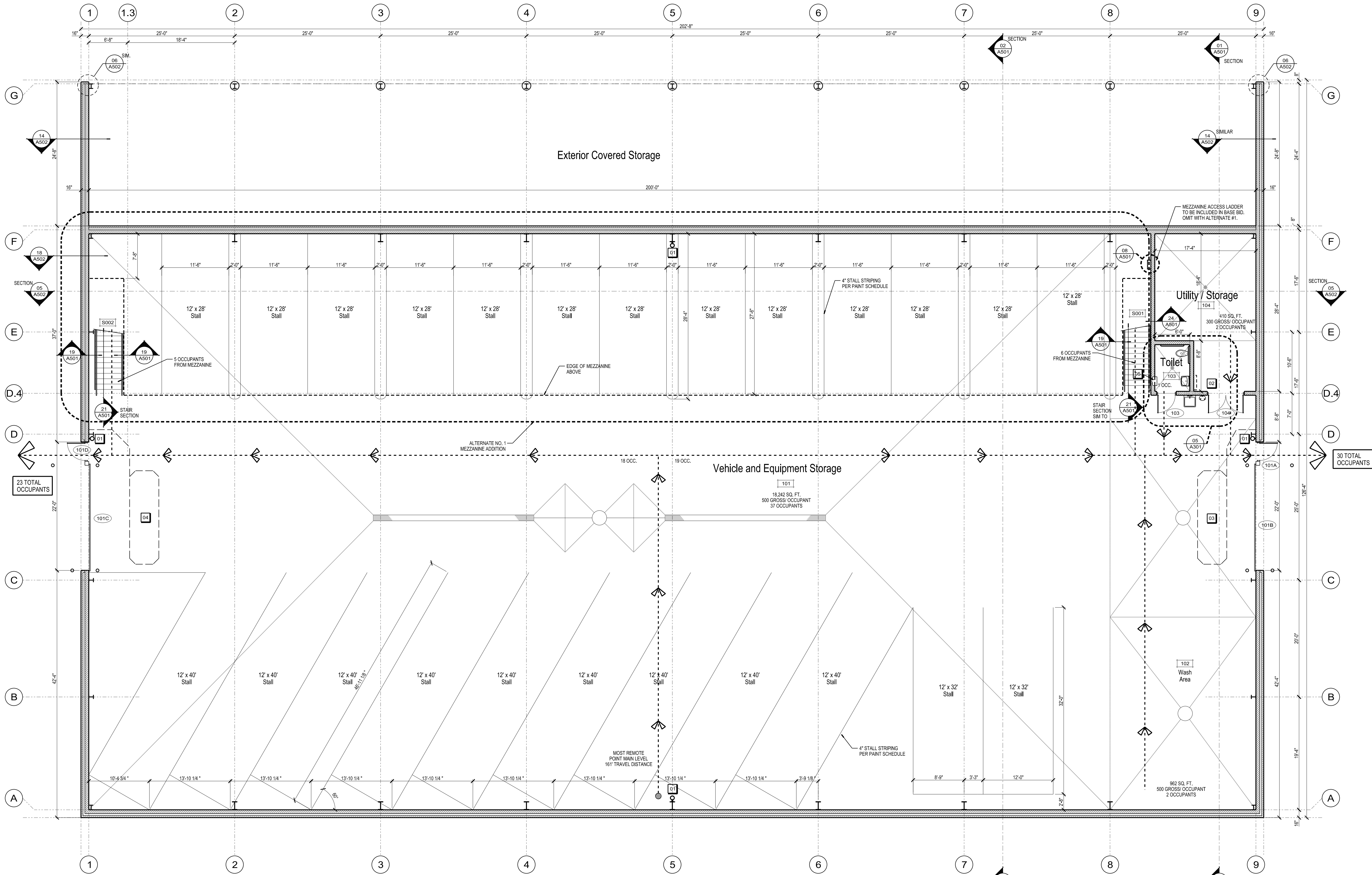






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**FLOOR PLAN**  
SCALE: 1/8"=1'-0"

- GENERAL NOTES**
1. MAXIMUM TRAVEL DISTANCE S-2 LOW HAZARD STORAGE, FULLY SPRINKLERED 400'
  2. ALL INTERIOR PARTITIONS ARE TYPE P1, UNLESS NOTED OTHERWISE. SEE DETAIL 02/A301.

- KEYNOTES**
- 01 FIRE EXTINGUISHER CABINET LOCATION.
  - 02 NEW MOP RACK. VERIFY LOCATION WITH OWNER.
  - 03 OVERHEAD DOOR CONTROL LOOP WITH DOOR HOLD OPEN AND DOOR CLOSE OPERATION. WIRED THROUGH WALL MOUNTED ON/OFF SWITCH PER ELECTRICAL DRAWINGS. INSTALL ELECTRICAL CONDUIT LOOP PRIOR TO CONCRETE PLACEMENT. NO SAWCUTTING.
  - 04 OVERHEAD DOOR CONTROL LOOP WITH DOOR OPEN OPERATION. WIRED THROUGH WALL MOUNTED ON/OFF SWITCH PER ELECTRICAL DRAWINGS.
  - 05 PROVIDE RECESS IN MASONRY WALL FOR NEW RECESSED PAPER TOWEL WASTE.

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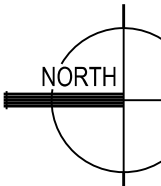
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**A101**



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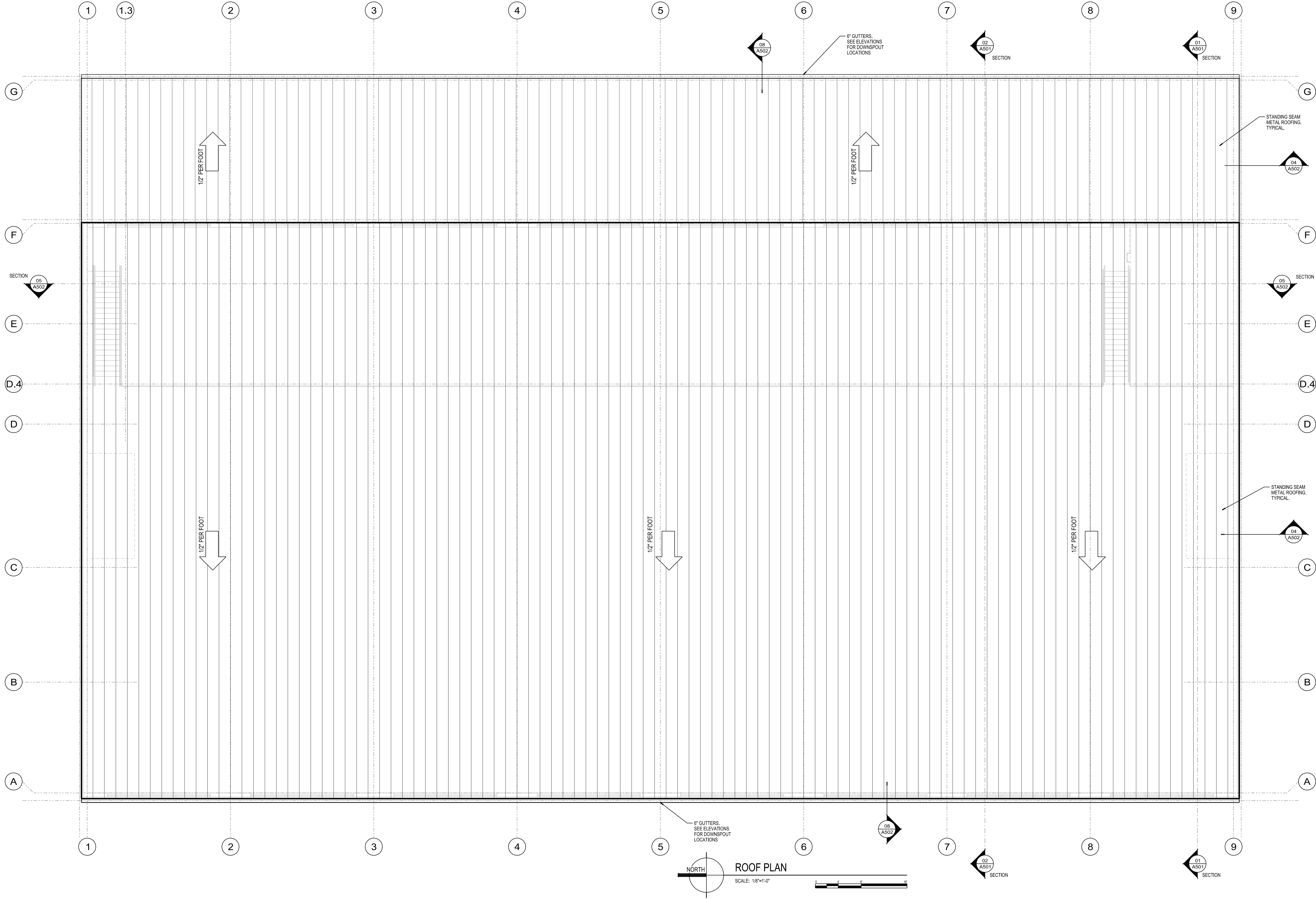
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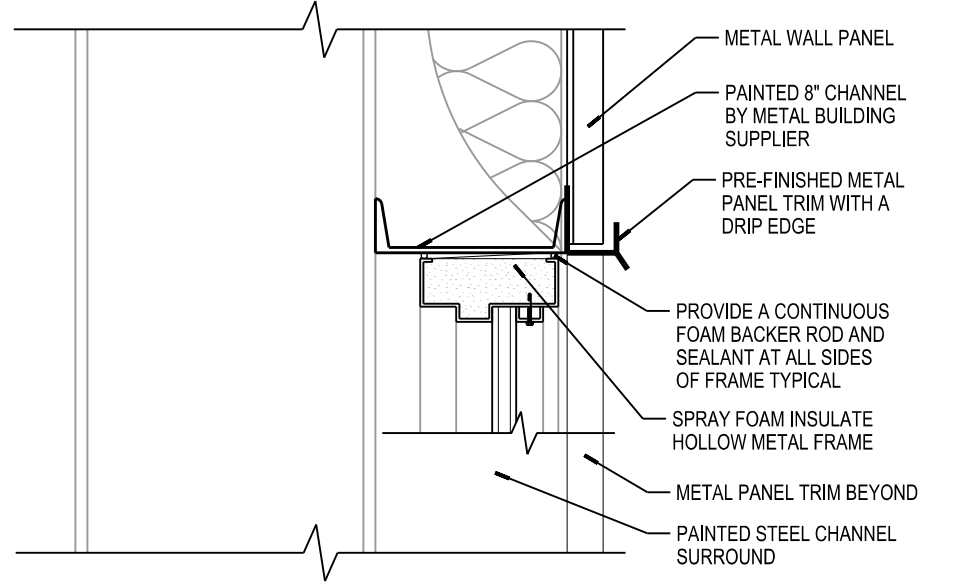
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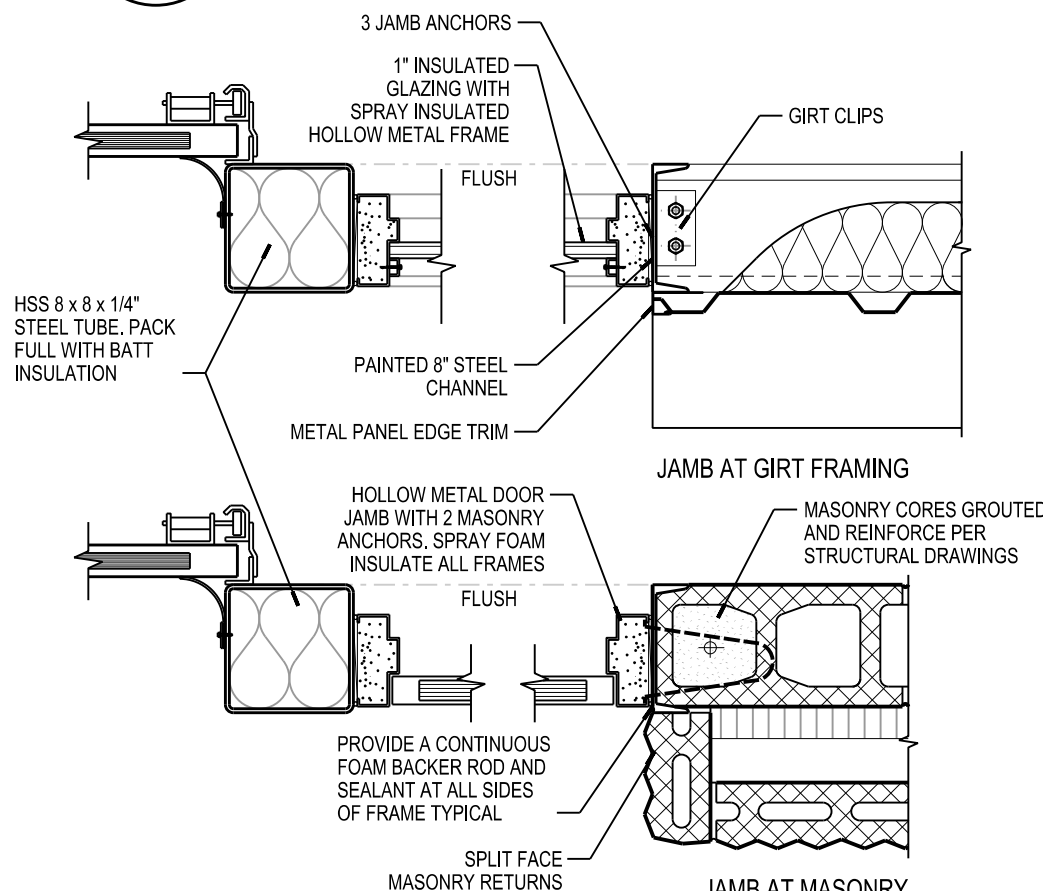


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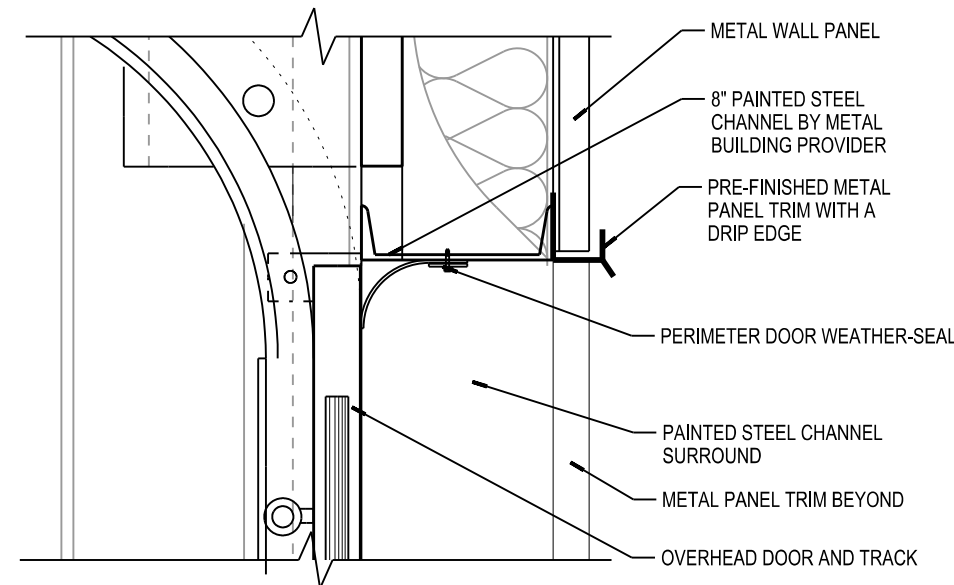
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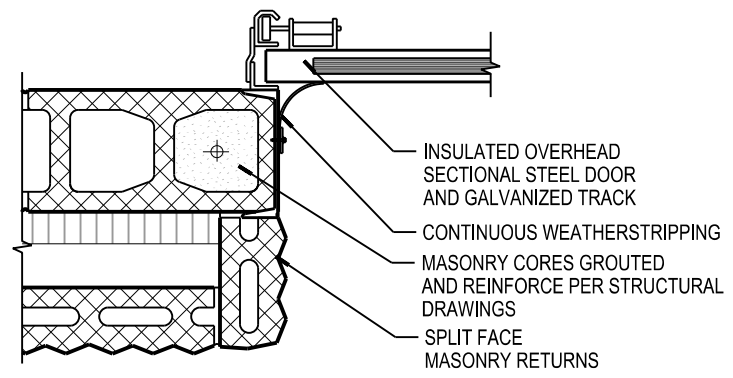
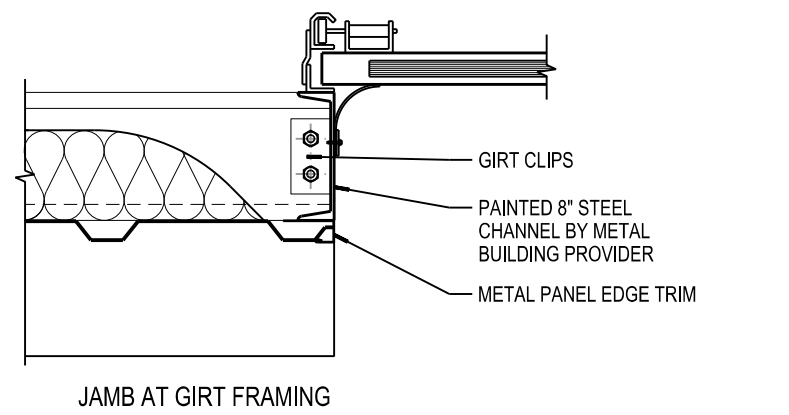
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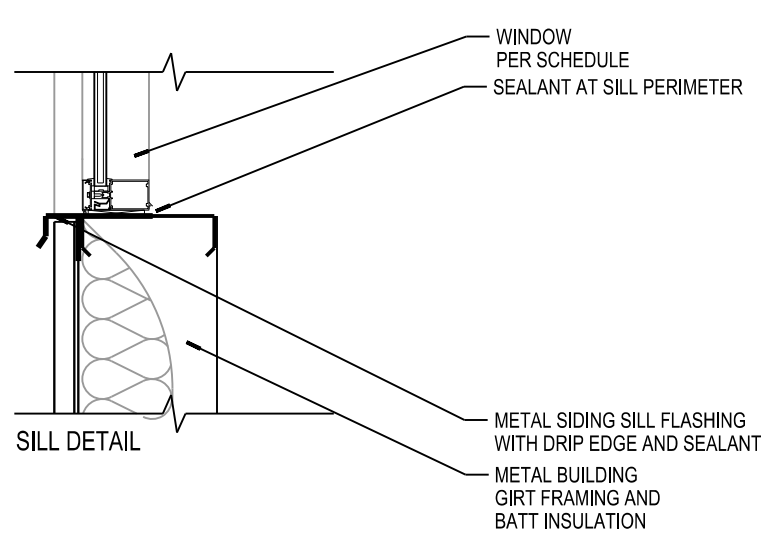
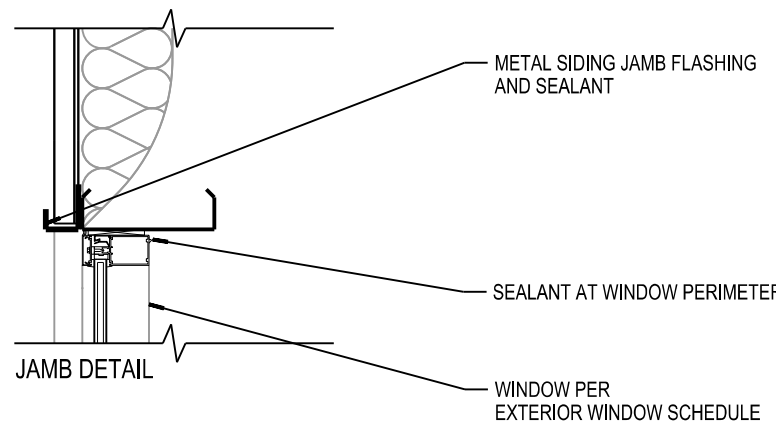
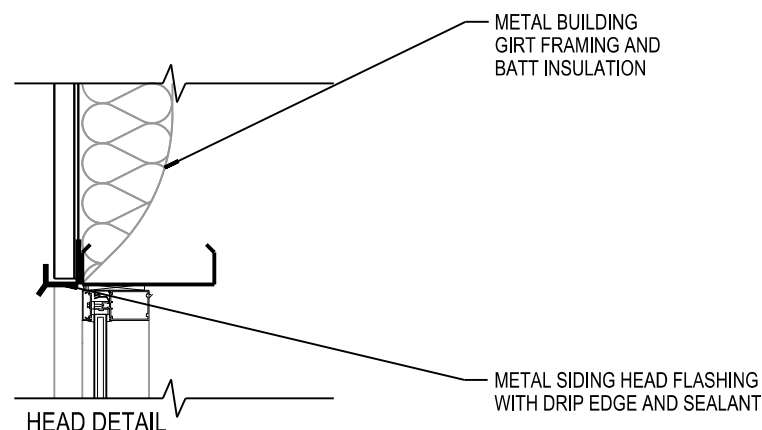
19 DOOR WINDOW JAMB DETAILS  
A301 SCALE: 1"=1'-0"



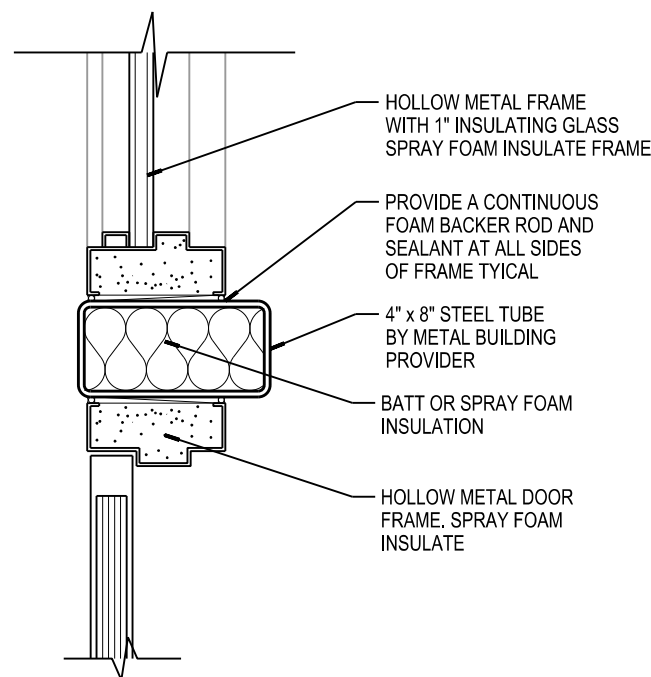
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A301 SCALE: 1 1/2"=1'-0"



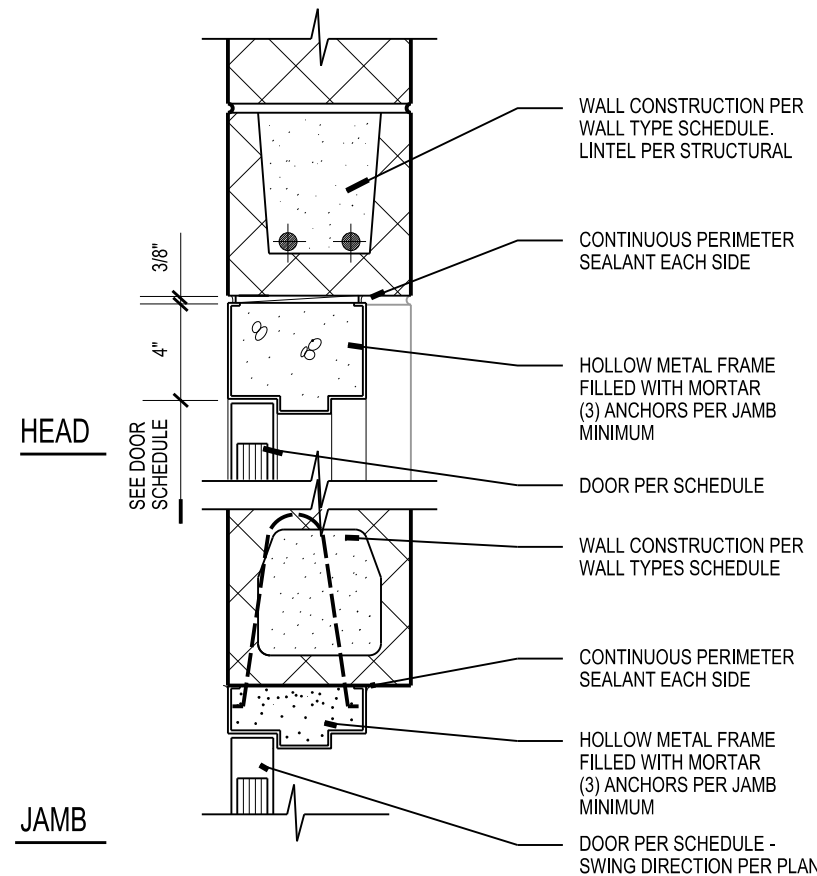
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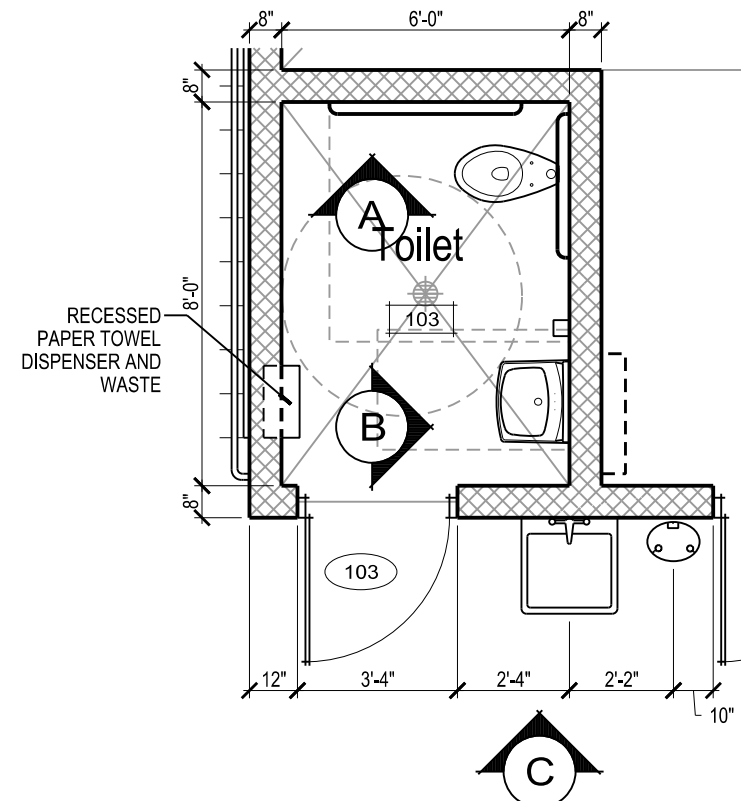
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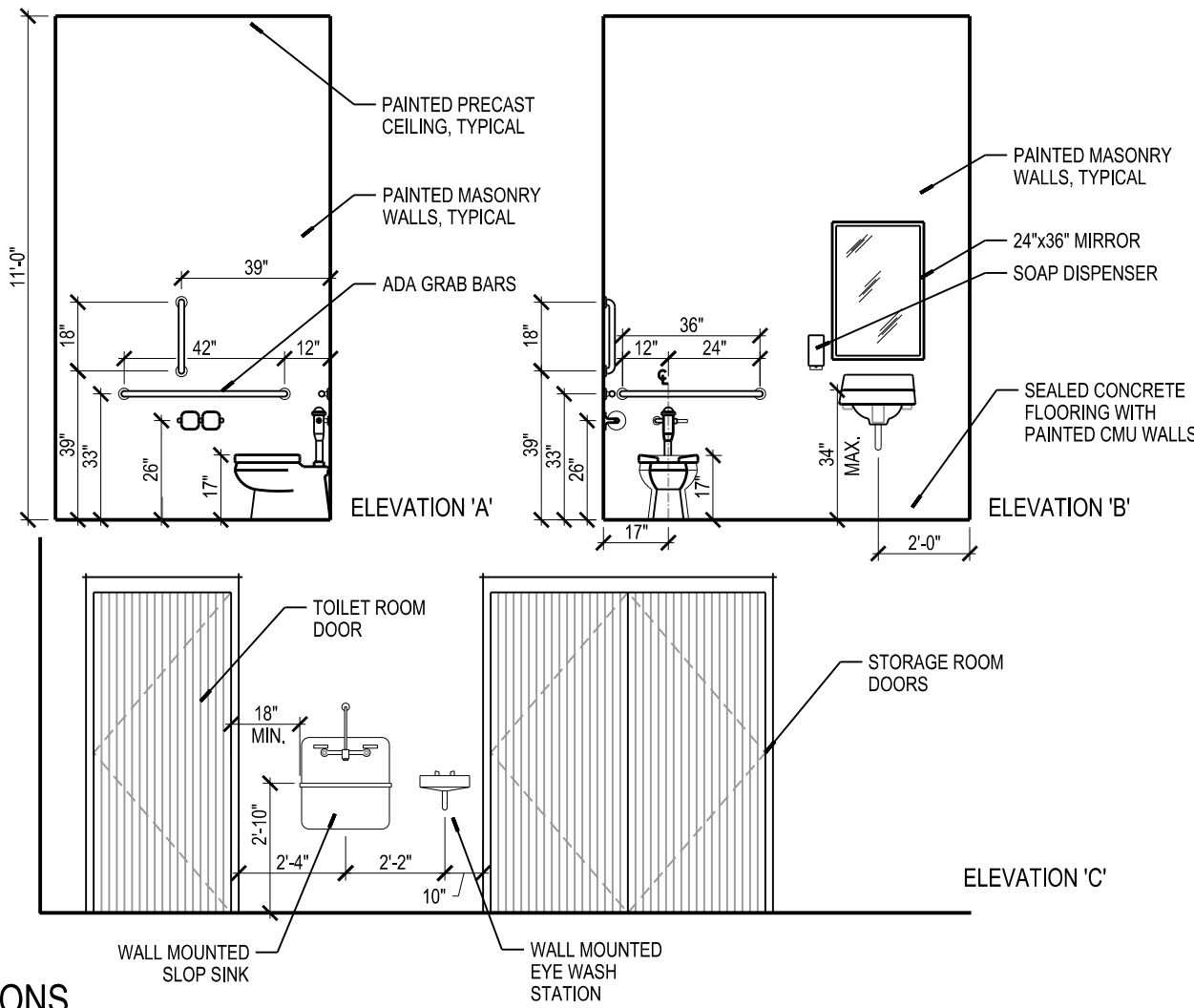
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A301 SCALE: 1 1/2"=1'-0"



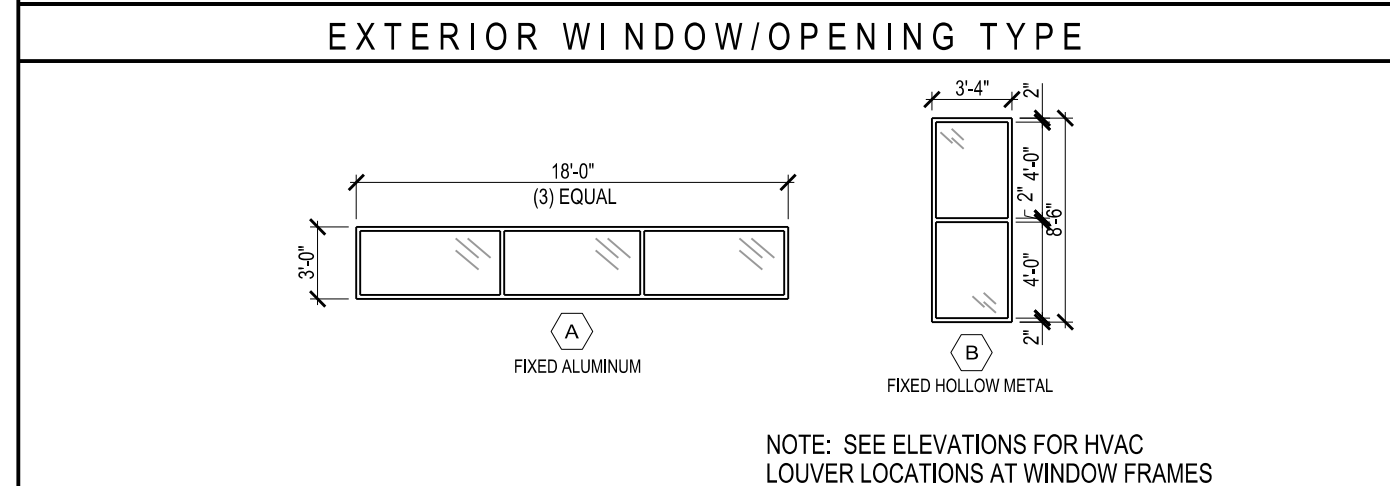
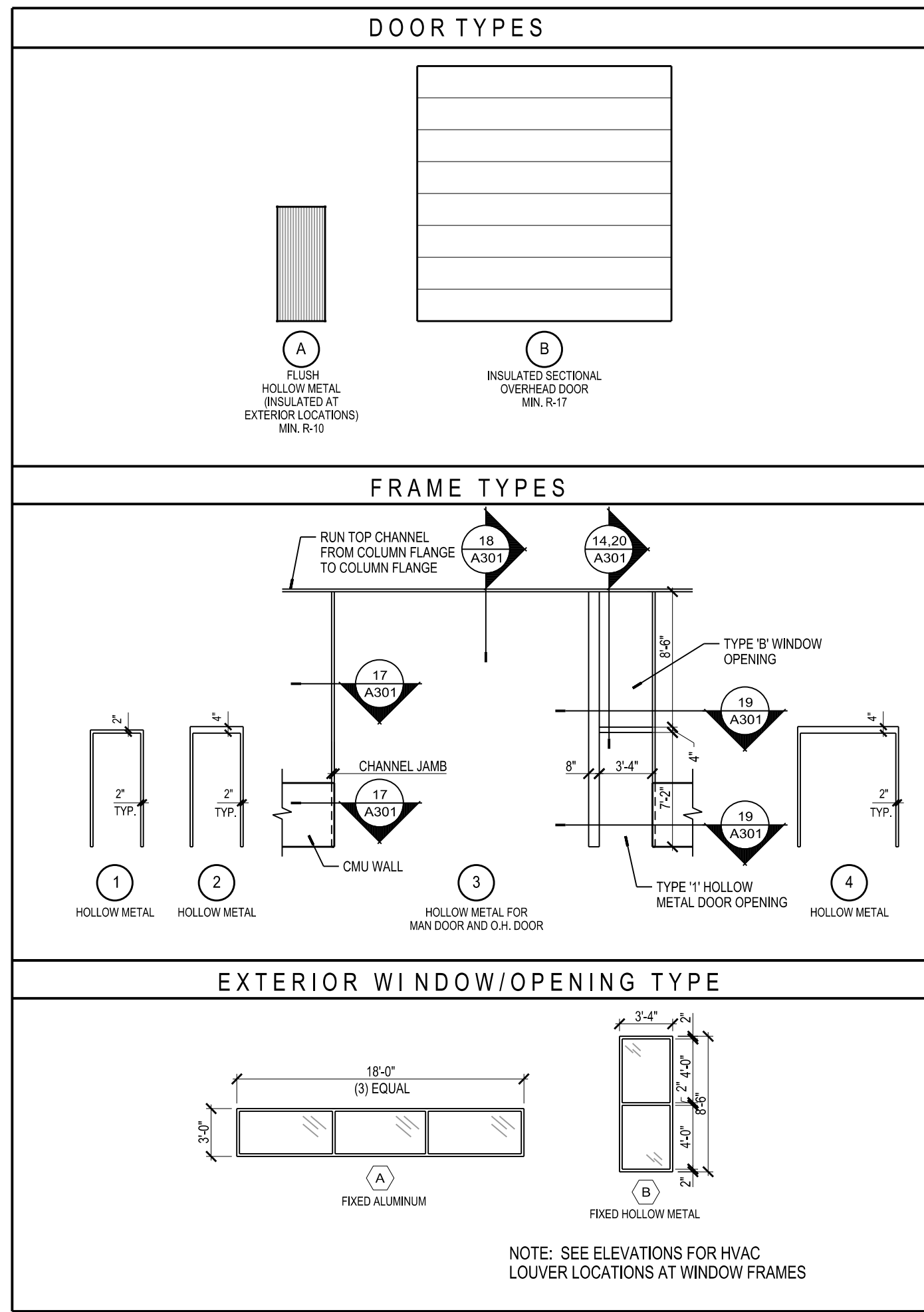
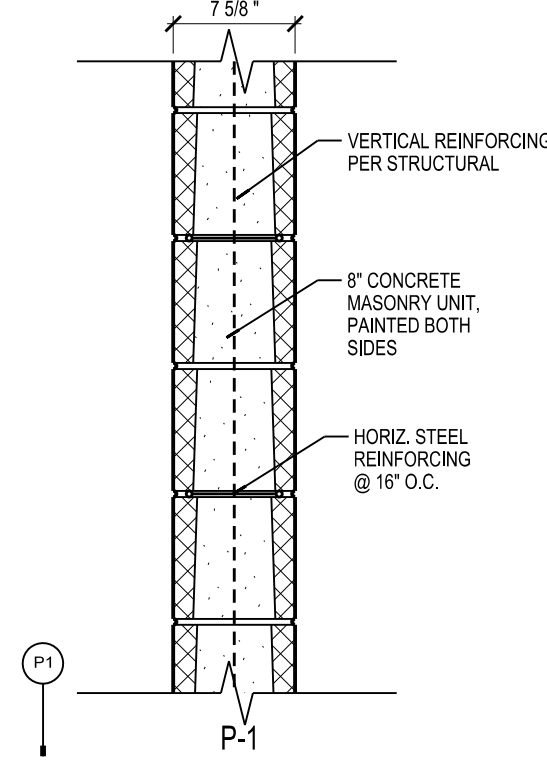
09 INTERIOR DOOR AT C.M.U. DETAILS  
A301 SCALE: 1 1/2"=1'-0"



05 TOILET ROOM #103 ELEVATIONS  
A301 SCALE: 1/4"=1'-0"



02 PARTITION TYPES  
A301 SCALE: 1"=1'-0"



| ROOM FINISH SCHEDULE                                 |                               |                 |      |                           |                                       |       |
|------------------------------------------------------|-------------------------------|-----------------|------|---------------------------|---------------------------------------|-------|
| NO.                                                  | ROOM NAME                     | FLOOR           | BASE | WALLS                     | CEILING                               | NOTES |
| <b>LEGEND</b>                                        |                               |                 |      |                           |                                       |       |
| ○                                                    | ENTIRE ROOM                   |                 |      |                           |                                       |       |
| ⊗                                                    | NORTH                         |                 |      |                           |                                       |       |
| ⊗                                                    | SOUTH                         |                 |      |                           |                                       |       |
| ⊗                                                    | EAST                          |                 |      |                           |                                       |       |
| ⊗                                                    | WEST                          |                 |      |                           |                                       |       |
|                                                      |                               | SEALED CONCRETE | NONE | PAINTED EXPOSED STRUCTURE | PAINTED EXPOSED STRUCTURE             |       |
|                                                      |                               |                 |      | PAINTED MASONRY           | PAINTED PRECAST PLANK - Alternate No. |       |
| 48150 SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING |                               |                 |      |                           |                                       |       |
| 101                                                  | VEHICLE AND EQUIPMENT STORAGE |                 |      |                           |                                       |       |
| 102                                                  | WASH AREA                     |                 |      |                           |                                       |       |
| 103                                                  | TOILET ROOM                   |                 |      |                           |                                       |       |
| 104                                                  | UTILITY/STORAGE ROOM          |                 |      |                           |                                       |       |
| 201                                                  | MEZZANINE                     |                 |      |                           |                                       |       |

| DOOR SCHEDULE                                        |                   |  |           |            |       |                |         |             |                                   |
|------------------------------------------------------|-------------------|--|-----------|------------|-------|----------------|---------|-------------|-----------------------------------|
|                                                      | DOOR SIZE         |  | DETAILS   |            |       |                |         | REMARKS     |                                   |
| DOOR NUMBER                                          |                   |  | DOOR TYPE | FRAME TYPE | LABEL | HARDWARE SET # |         |             |                                   |
|                                                      |                   |  |           |            |       |                |         |             |                                   |
| 48150 SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING |                   |  |           |            |       |                |         |             |                                   |
| 101A                                                 | 3'-0" x 7'-0"     |  | A         | 1          |       | 3              | 14/A301 | 19/A301     | INSULATED DOOR, MIN. R-VALUE 10.0 |
| 101B                                                 | 16'-0" x 16'-0"   |  | B         | 3          |       |                | 18/A301 | 17 & 19/301 | INSULATED DOOR, MIN. R-VALUE 17.0 |
| 101C                                                 | 16'-0" x 16'-0"   |  | B         | 3          |       |                | 18/A301 | 17 & 19/301 | INSULATED DOOR, MIN. R-VALUE 17.0 |
| 101D                                                 | 3'-0" x 7'-0"     |  | A         | 1          |       | 3              | 14/A301 | 19/A301     | INSULATED DOOR, MIN. R-VALUE 10.0 |
| 103                                                  | 3'-0" x 7'-0"     |  | A         | 2          |       | 2              | 09/A301 | 09/A301     |                                   |
| 104                                                  | (2) 3'-0" x 7'-0" |  | A         | 4          |       | 1              | 09/A301 | 09/A301     |                                   |

\*\* NOTE: PAINT HOLLOW METAL DOORS AND FRAMES. COLOR TO BE DETERMINED BY ARCHITECT

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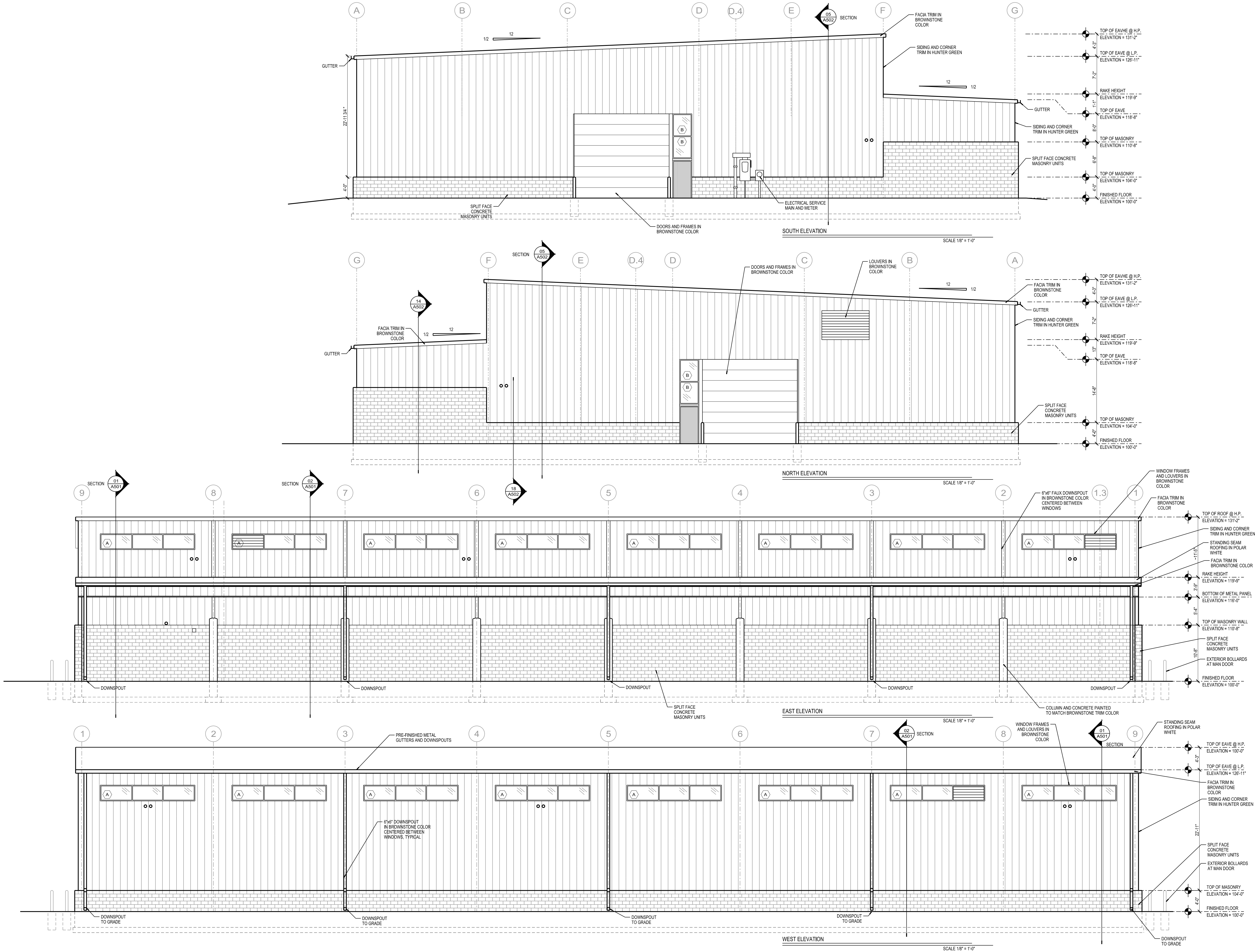
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SCHEDULES  
AND DETAILS

A301

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**SOUTH POINT ROAD**  
**PUBLIC WORKS STORAGE BUILDING**  
**CITY OF MADISON**  
**MADISON, WISCONSIN**

| PROJECT NUMBER |  | APPROVED BY |  | REVIEWED BY |  | DRAWN BY |  |
|----------------|--|-------------|--|-------------|--|----------|--|
| 48150          |  | JLH         |  | JCT         |  | JLH      |  |
|                |  |             |  |             |  |          |  |

EXTERIOR ELEVATIONS

**A401**



24 SECTION THROUGH  
WALL MOUNTED HAND RAIL

23 TOP OF STAIR DETAIL  
A501 SCALE: 1 1/2"=1'-0"

22 STAIR TOE DETAIL  
A501 SCALE: 1 1/2"=1'-0"

21  
A501

STAIR SECTION- ALTERNATE #1

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

19 TYPICAL GUARD/ HAND RAIL DETAIL

15 MEZZANINE RAILING DETAILS

11 FIXED GUARD RAIL DETAIL

08 MEZZANINE LADDER PLAN

03 LADDER SECTION

02 BUILDING SECTION - ALTERNATES  
A501 SCALE: 1/8" = 1'-0"

01 BUILDING SECTION - BASE BID  
A501 SCALE: 1/8" = 1'-0"

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| ISSUANCES                                  | REVISIONS |
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| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |           |
| Dept. of Commerce Plan Review - 09/13/2012 |           |
| Bldg/Construction - 06/14/2013             |           |
| Re-Bld/Construction - 07/26/2013           |           |

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| REVIEWED BY    | JCT   |
| DRAWN BY       | BTW   |

BUILDING SECTIONS

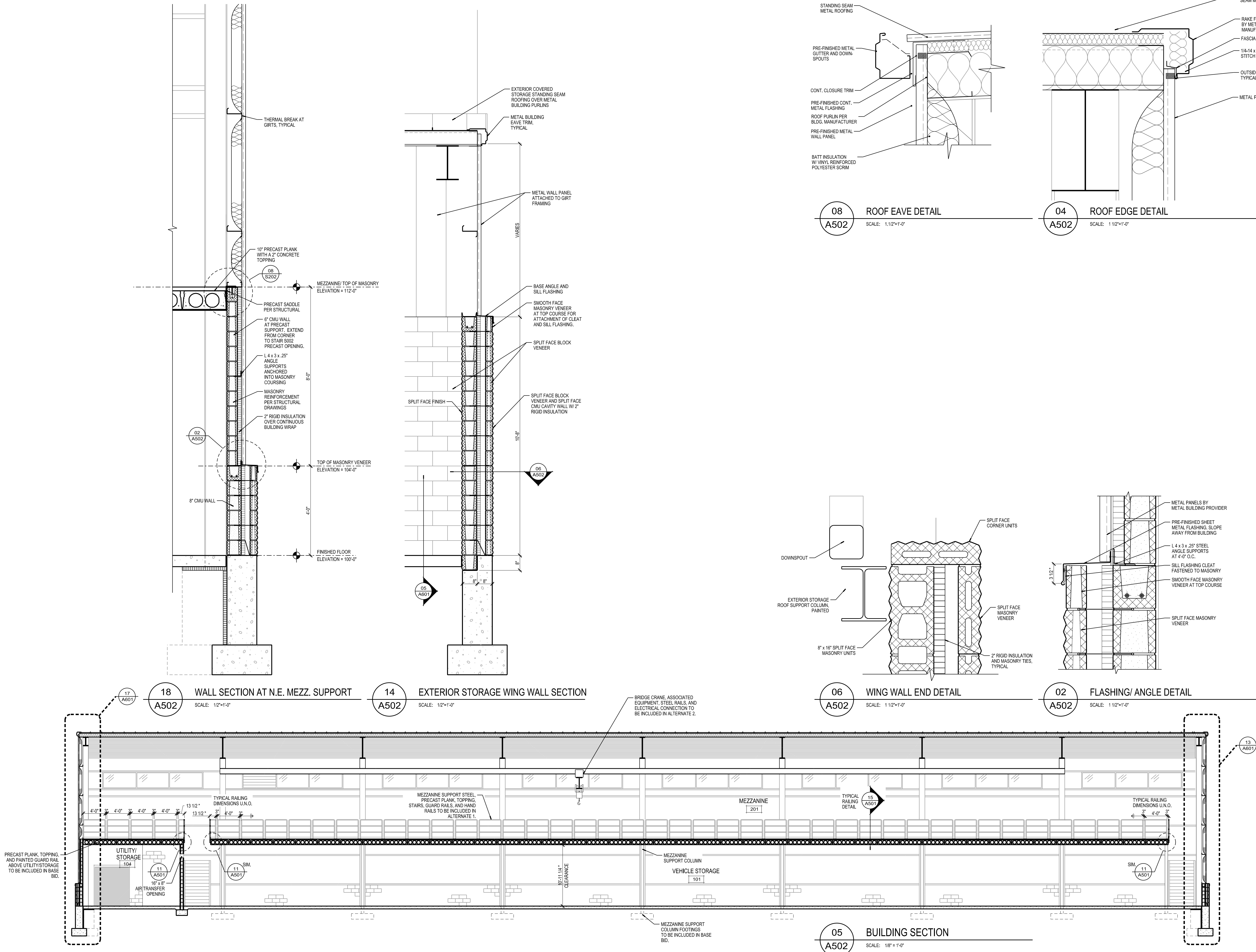
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# A501



SCALE: 1/8"=1'-0"  
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"  
X:\4815\Draw\481506a\A502.dgn



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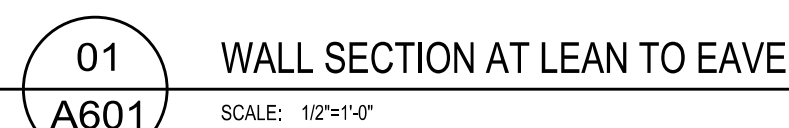
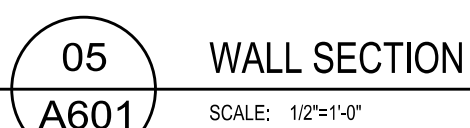
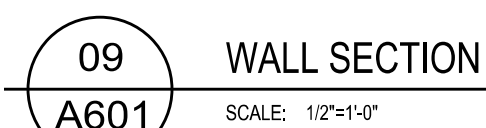
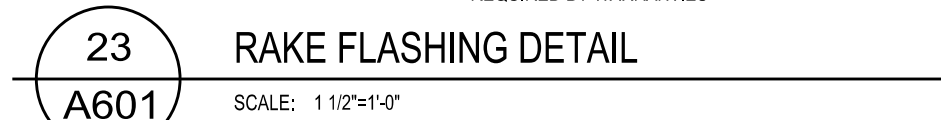
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| PROJECT NUMBER   |            | BUILDING SECTION AND DETAILS |  |
|------------------|------------|------------------------------|--|
| 48150            |            |                              |  |
| APPROVED BY: JH  |            |                              |  |
| REVIEWED BY: JCT |            |                              |  |
| DRAWN BY: BTW    |            |                              |  |
| 7/19/2013        | 8:39:54 AM |                              |  |

**A502**



ORIGINAL SIZE = 24" x 36"



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|-------------------------|
| PROJECT NUMBER<br>48150 |
| APPROVED BY<br>JLH      |
| REVIEWED BY<br>JCT      |
| DRAWN BY<br>BTW         |

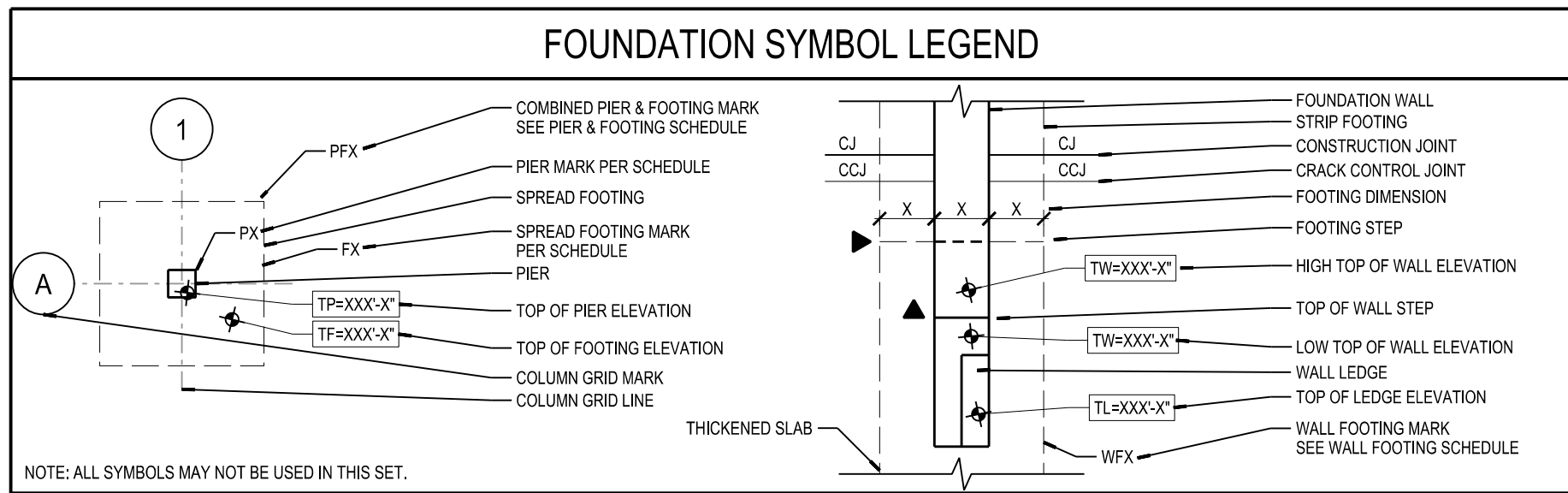
WALL SECTIONS  
AND DETAILS

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# A601



ORIGINAL SIZE = 24" x 36"  
X:\4815\Draw\481506S101.dgn  
SCALE: 1/8"=1'-0"  
PLOTTED BY: BAW



| PRE-ENGINEERED COLUMN ANCHOR SCHEDULE |                     |                      |                         |                      |                 |                       |                           |                          |       |
|---------------------------------------|---------------------|----------------------|-------------------------|----------------------|-----------------|-----------------------|---------------------------|--------------------------|-------|
| MARK                                  | NUMBER OF LOCATIONS | ANCHORS PER LOCATION | TOTAL NUMBER OF ANCHORS | ANCHOR DIAMETER (IN) | PROJECTION (IN) | EMBEDMENT LENGTH (IN) | BOTTOM NUT EXTENSION (IN) | TOTAL ANCHOR LENGTH (IN) | NOTES |
| A 1                                   | 35                  | 4                    | 140                     | 0.75                 | 3               | 12                    | 3                         | 18                       |       |
| TOTALS:                               | 35                  |                      | 140                     |                      |                 |                       |                           |                          |       |

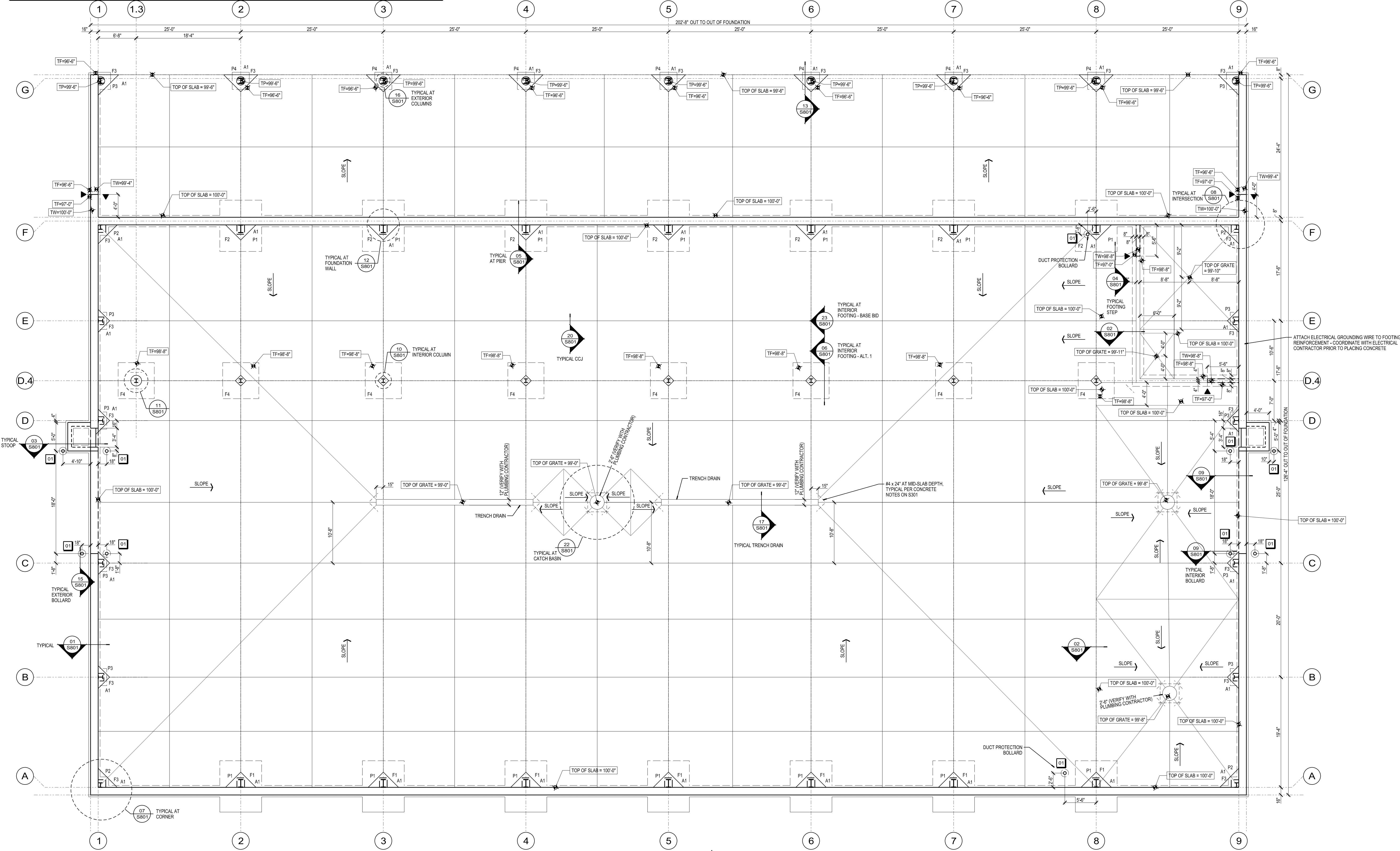
- NOTES:**
- 1.) CONFORM TO ASTM F1554 FOR ANCHOR RODS, ASTM A563 FOR NUTS, AND ASTM F436 FOR WASHERS
  - 2.) (0) 5/8" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH
  - 3.) (140) 3/4" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH
  - 4.) (0) 1" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH

**KEY NOTES**

- 01 STEEL BOLLARD PER DETAIL 14/SB01 & 15/SB01.

**FOUNDATION AND SLAB PLAN NOTES**

1. TYPICAL FLOOR = 8" SLAB ON GRADE REINFORCED WITH NOVOMESH 950 REINFORCEMENT @ 5 LBS/CY UNLESS NOTED OTHERWISE
2. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE
3. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE
4. TOP OF PIERS SHALL BE 8" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
5. FOUNDATION WALLS SHALL BE 1'-4" THICK UNLESS NOTED OTHERWISE
6. TOP OF EXTERIOR FOOTING ELEVATION = 3'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
7. TOP OF INTERIOR FOOTING ELEVATION = 2'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
8. WALL FOOTINGS FOR 1'-4" THICK FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
9. FOOTINGS WITHOUT FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
10. WALL FOOTINGS 8" FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
11. FOUNDATION WALLS SHALL BE INSULATED WITH 2" RIGID INSULATION AGAINST INTERIOR FACE OF WALL. PROVIDE 2" HORIZONTAL RIGID INSULATION AT UNDERSIDE OF BUILDING SLAB PERIMETER, EXTENDING 2'-0" OFF OF INTERIOR FACE OF FOUNDATION WALL. SEE 05/A601.
12. FOUNDATION WALL LEDGES SHALL END 4" WIDE UNLESS NOTED OTHERWISE
13. SLAB JOINTS SHALL BE CRACK CONTROL JOINTS UNLESS NOTED OTHERWISE
14. JOINT SEALANT SHALL BE USED AT ALL CRACK CONTROL AND CONSTRUCTION JOINTS IN SLAB - REFER TO SPECIFICATION FOR ACCEPTABLE JOINT SEALANT



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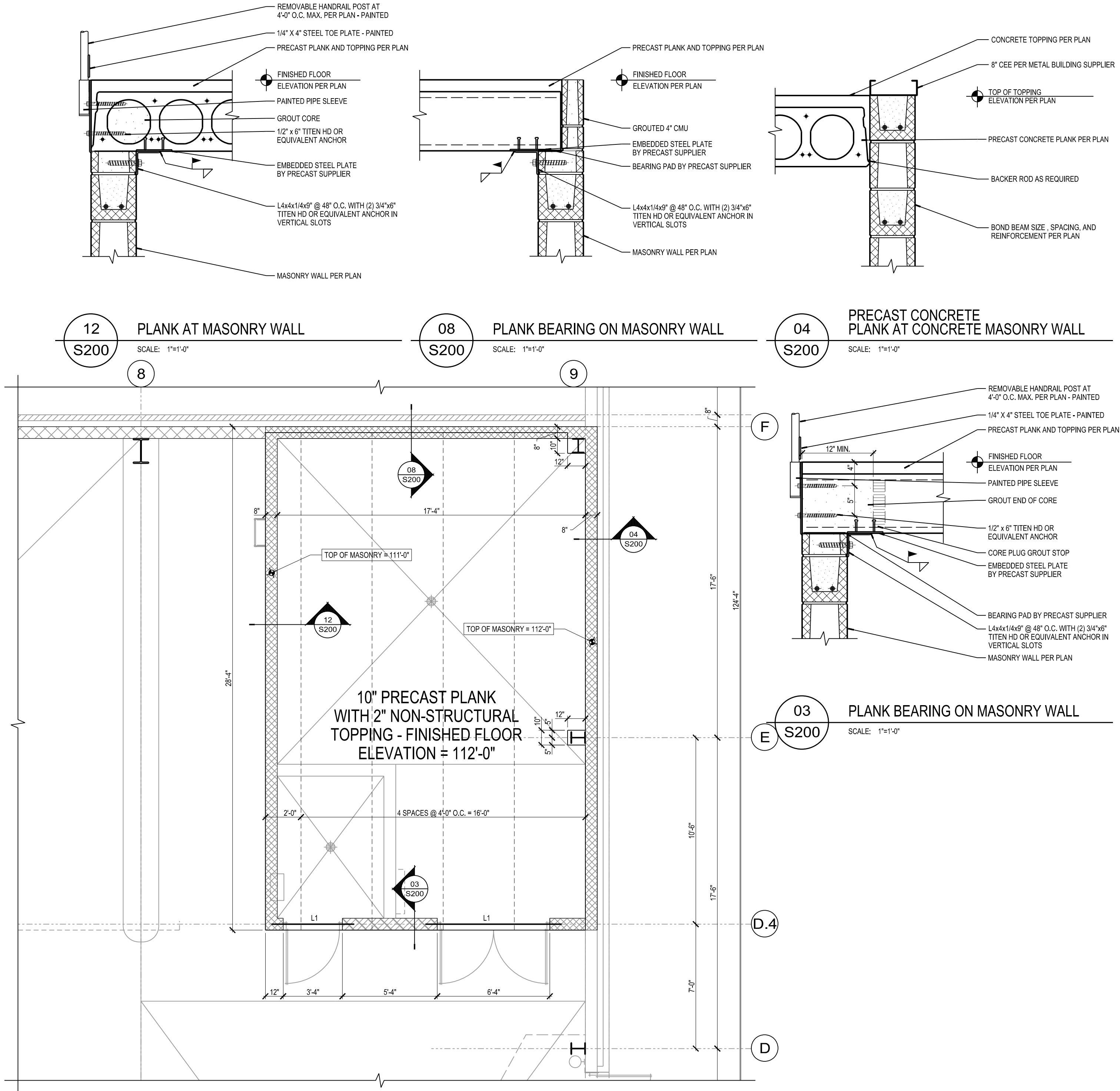
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48150  
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REVIEWED BY  
JCT  
DRAWN BY  
GSR  
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FOUNDATION AND SLAB PLAN

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- MEZZANINE MASONRY WALL NOTES
1. SHADED WALLS INDICATE STRUCTURAL BEARING WALLS
  2. BOND BEAMS SHALL HAVE (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE
  3. WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C. UNLESS NOTED OTHERWISE
  4. MASONRY WALLS SHALL BE Laid IN RUNNING BOND UNLESS NOTED OTHERWISE
  5. L1 LINTELS SHALL BE W8x13 WITH 1/4" x 7.1/2" x CONTINUOUS PLATE AND 1/4" x 7.1/2" x 7.1/2" BEARING PLATE
  6. PROVIDE CORRUGATED LATERAL SUPPORT ANCHOR - 1.1/4" WIDE BY 14 GA. x 18" LONG WITH WELD-ON CLIP WELDED TO EACH COLUMN - PROVIDE AT EACH BOND BEAM
- PRECAST CONCRETE PLANK FLOOR FRAMING NOTES
1. FINISHED FLOOR ELEVATION = 112'-0" UNLESS NOTED OTHERWISE
  2. FLOOR = 10" PRECAST CONCRETE PLANK WITH 2" NON-STRUCTURAL TOPPING
  3. PENETRATION FRAMING SHALL BE BY PRECAST SUPPLIER - COORDINATE PENETRATIONS WITH MECHANICAL / ELECTRICAL / PLUMBING / FIRE PROTECTION / METAL BUILDING CONTRACTORS
  4. LOADING: DEAD LOAD = 4 psf + PLANK + TOPPING  
LIVE LOAD = 125 psf
  5. PLANK EMBEDS SHALL BE PROVIDED FOR POSITIVE ATTACHMENT TO SUPPORTING STRUCTURE
  6. JOINTS BETWEEN PLANKS SHALL BE GROUTED

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|                         |                    |                                                      |            |
|-------------------------|--------------------|------------------------------------------------------|------------|
| PROJECT NUMBER<br>48150 | APPROVED BY<br>JLH | MEZZANINE<br>FRAMING PLAN<br>AND DETAILS<br>BASE BID | 7/19/2013  |
| REVIEWED BY<br>JCT      | DRAWN BY<br>GSR    |                                                      | 8:41:05 AM |

S200

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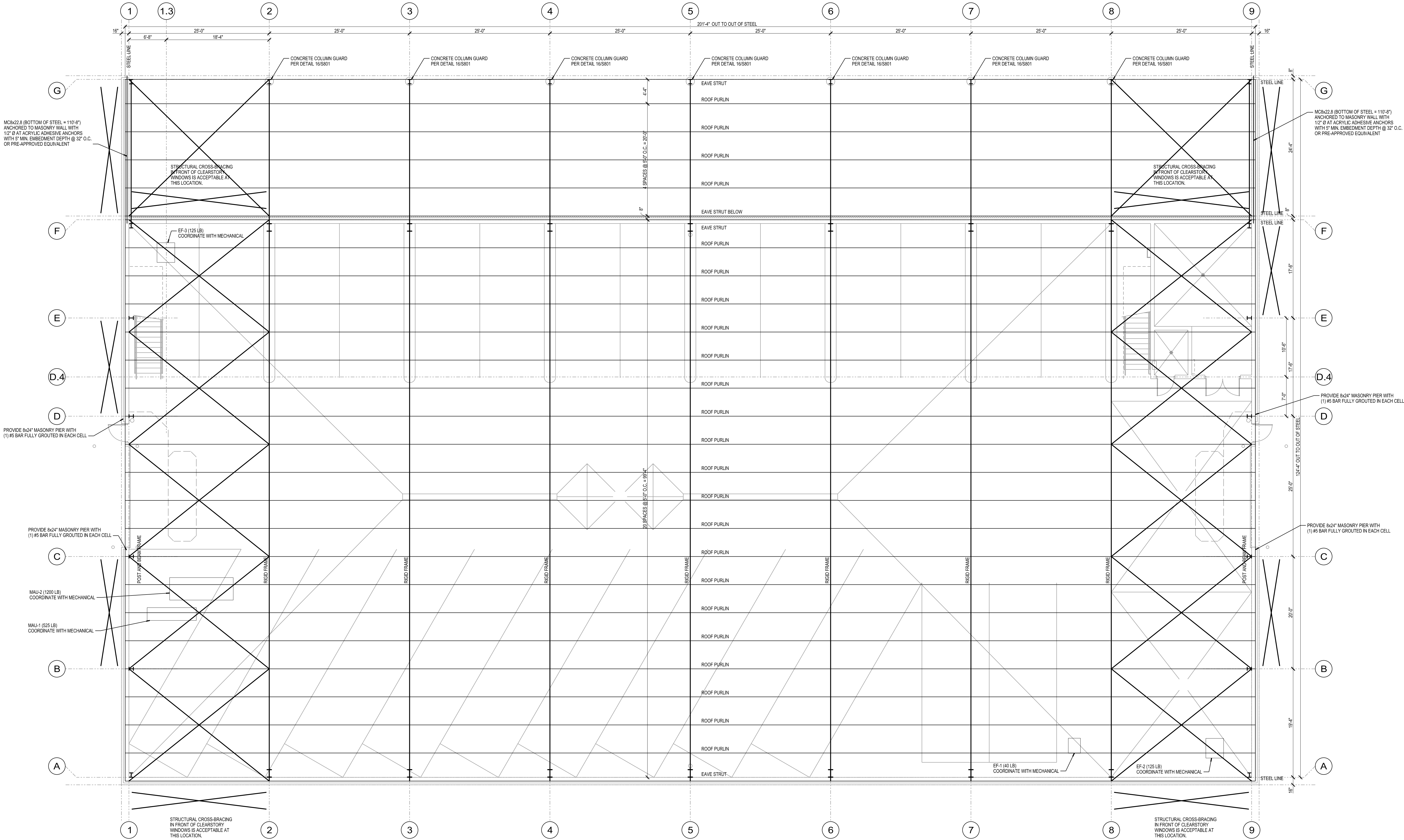
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MASONRY WALL NOTES

1. BOND BEAMS SHALL HAVE (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE
2. WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48\"/>

ROOF PLAN GENERAL NOTES

1. REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS THROUGH ROOF. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUPPLY ALL FLASHINGS MATCHING THE ROOF PROFILE AND GENERAL CONTRACTOR SHALL FLASH ALL ROOF PENETRATIONS AND MECHANICAL SUPPORTS IN ACCORDANCE WITH THE DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS TO OBTAIN ROOF WARRANTY.
2. ALL ROOF PENETRATING OBJECTS SHALL BE PAINTED TO MATCH THE COLOR OF THE ROOF
3. BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR ALL FRAMING AT ROOF PENETRATIONS AND ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF CURB BLOCKING AND LEVELING OF CURB TOPS.
4. ALL ROOF FLASHINGS AND SEALS SHALL BE PROVIDED BY THE PRE-ENGINEERED BUILDING MANUFACTURER DESIGNED FOR THE ROOF PROFILE PROVIDED
5. MAXIMUM DEPTH OF EXTERIOR COLUMNS SHALL BE 16\"/>

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| DRAWN BY       | GSR        |
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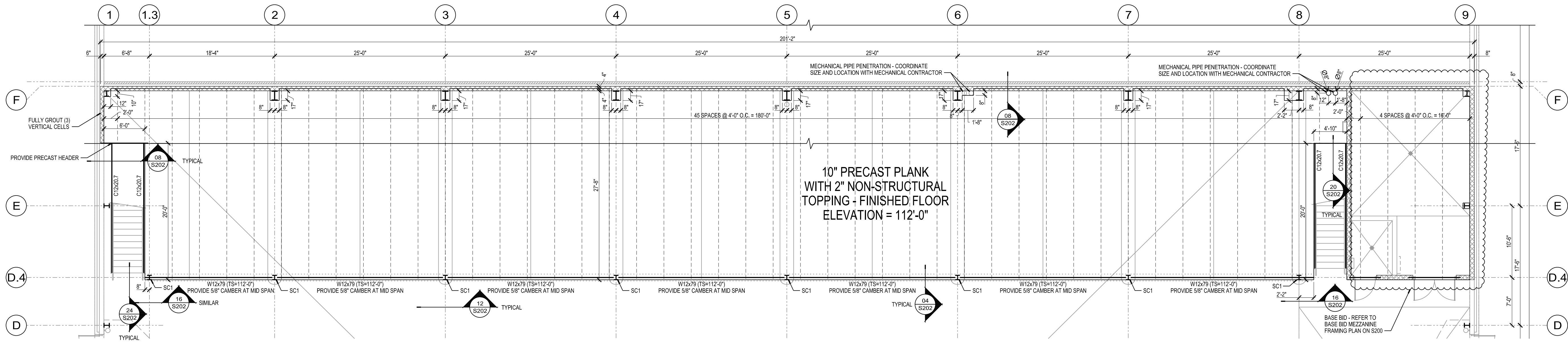
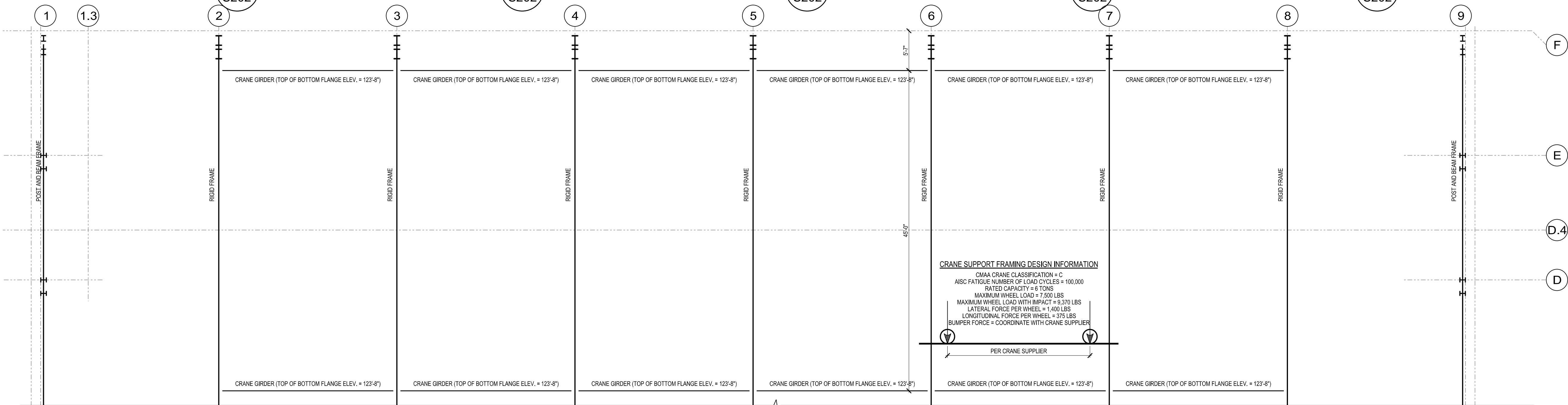
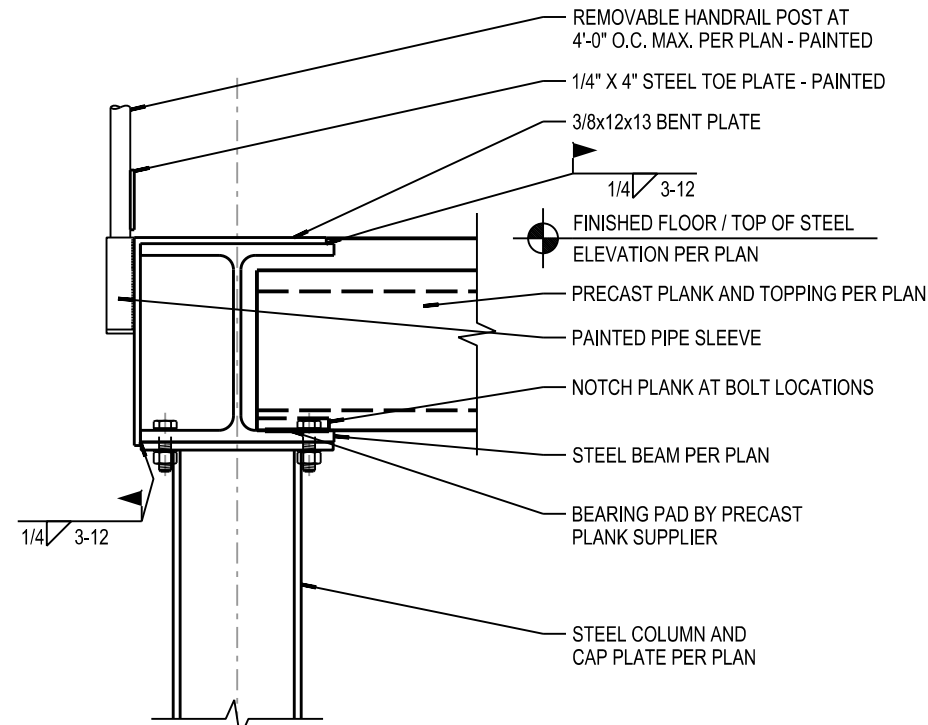
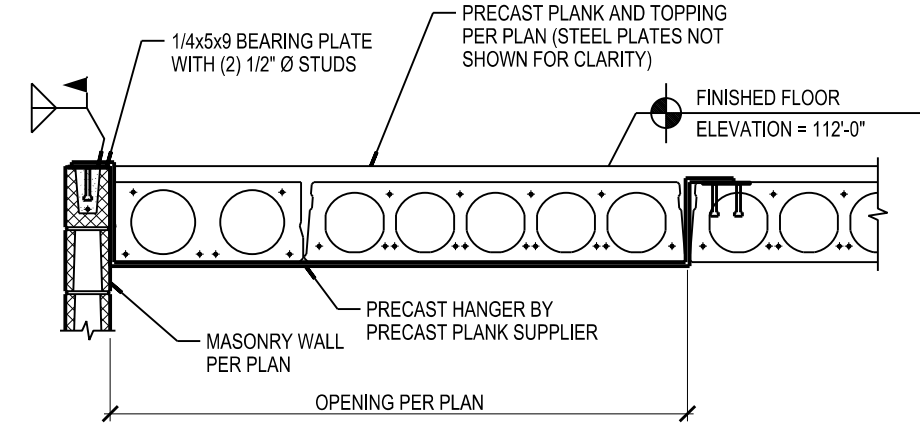
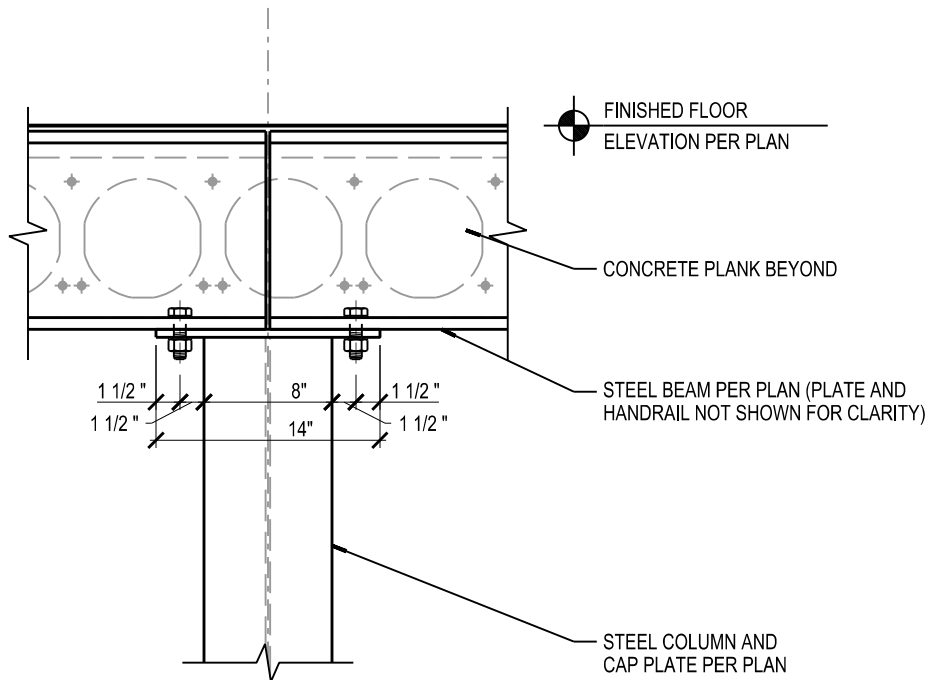
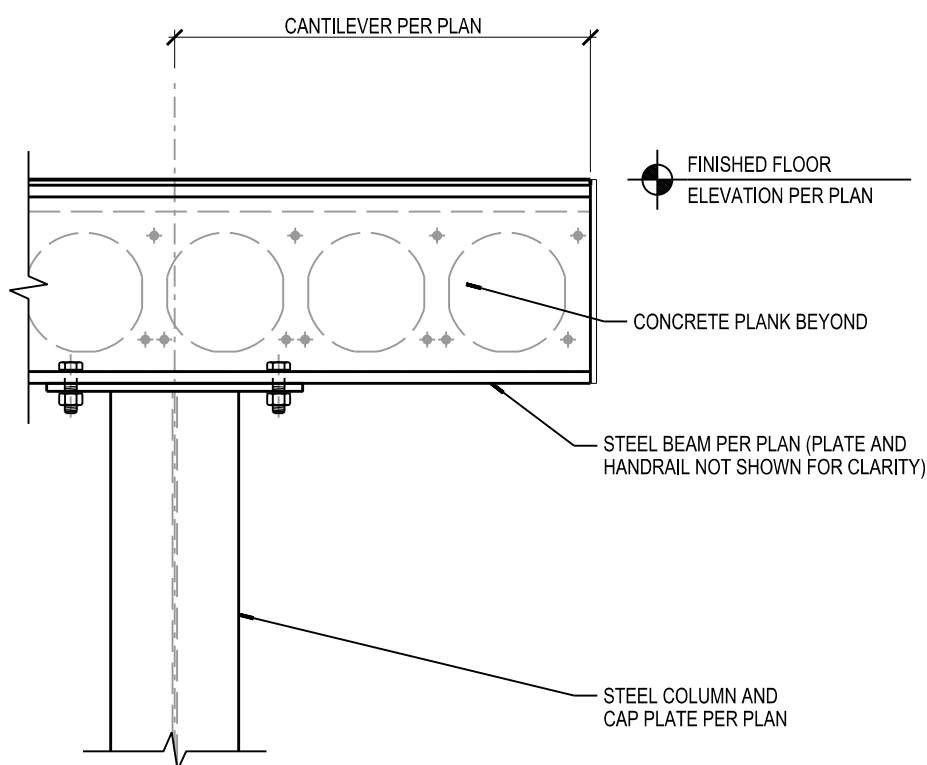
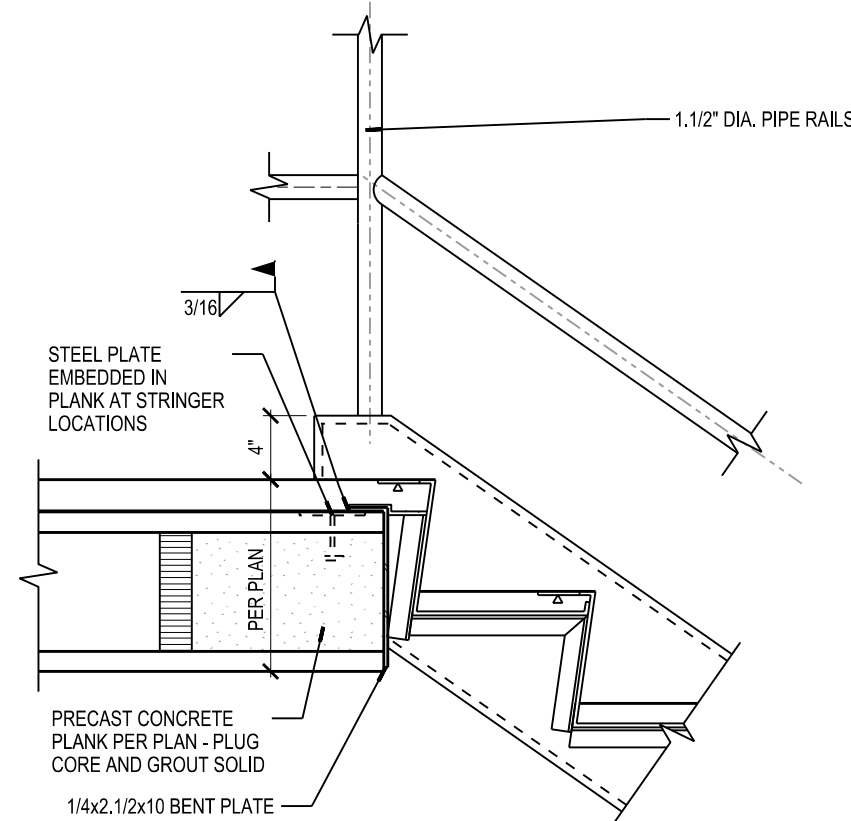
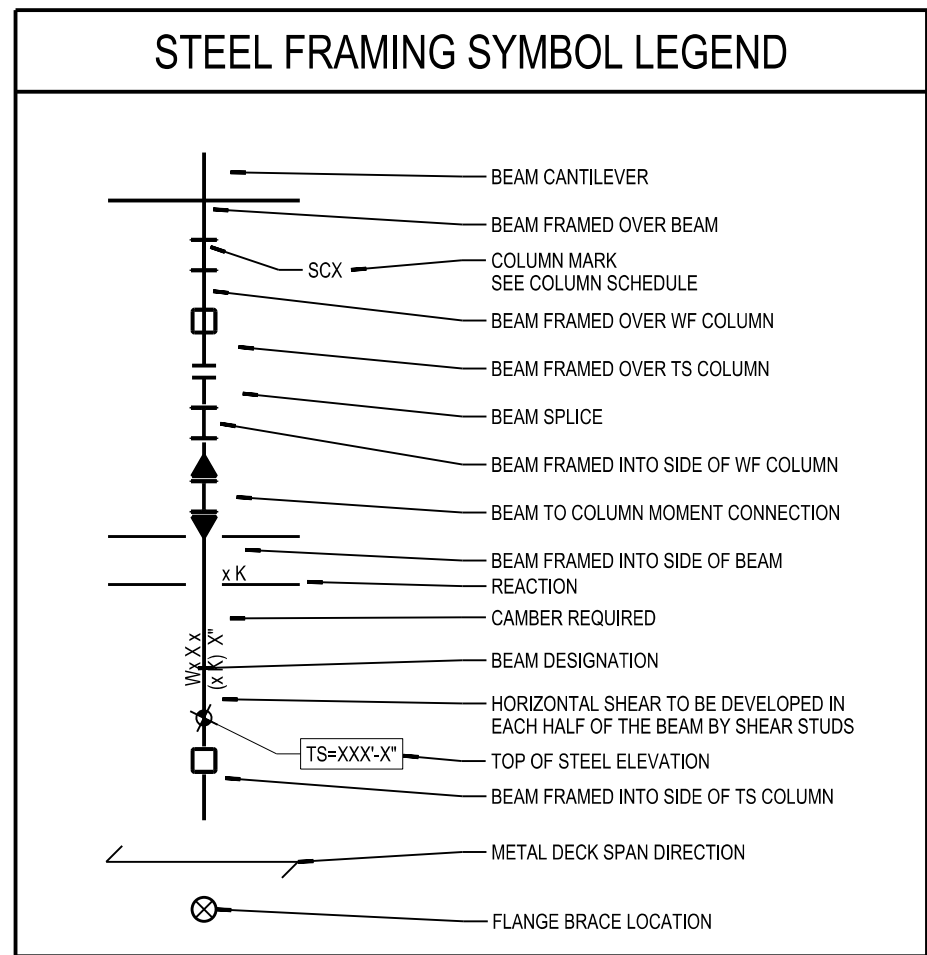
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REVISIONS

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PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN**

PROJECT NUMBER  
48150  
APPROVED BY  
JLH  
REVIEWED BY  
JCT  
DRAWN BY  
GSR  
7/19/2013 8:41:09 AM

ALTERNATE MEZZANINE  
FRAMING PLAN  
AND STRUCTURAL DETAILS

**S202**



SCALE: 1/8"=1'-0"  
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"  
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STRUCTURAL DESIGN SPECIFICATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| - DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS ARISING FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM OTHERS' FAILURE TO OBTAIN AN ORDER FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. | EARTHQUAKE - MEZZANINE (BC 2000)                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SEISMIC IMPORTANCE FACTOR (I <sub>e</sub> ) = 1.0                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SEISMIC USE GROUP = 1                                                                                                                                                                                                                                                                                                                             |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SHORT PERIOD MAPPED SPECTRAL RESPONSE (S <sub>1</sub> ) = 0.104 g                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE (S <sub>2</sub> ) = 0.044 g                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SITE CLASS = D                                                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SHORT PERIOD DESIGN SPECTRAL RESPONSE (S <sub>DS</sub> ) = 0.111 g                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE (S <sub>1</sub> ) = 0.07 g                                                                                                                                                                                                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SEISMIC DESIGN CATEGORY = B                                                                                                                                                                                                                                                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | NORTH-SOUTH DESIGN BASE SHEAR = 20.67 K                                                                                                                                                                                                                                                                                                           |  |  |  |
| - DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO WORK AND PROJECT LOCATION                                                                                                                                                                                                                                                    | EAST-WEST DESIGN BASE SHEAR = 20.67 K                                                                                                                                                                                                                                                                                                             |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | NORTH-SOUTH SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> ) = 0.055                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | EAST-WEST SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> ) = 0.055                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | NORTH-SOUTH RESPONSE MODIFICATION FACTOR (R) = 2                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | EAST-WEST RESPONSE MODIFICATION FACTOR (R) = 2                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | ANALYSIS PROCEDURE = ELF                                                                                                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | BASIC SEISMIC FORCE RESISTING SYSTEM                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | NORTH-SOUTH:                                                                                                                                                                                                                                                                                                                                      |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SYSTEM: BEARING WALL                                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | TYPE: ORDINARY REINFORCED MASONRY SHEAR WALLS                                                                                                                                                                                                                                                                                                     |  |  |  |
| - BUILDING ANALYSIS AND DESIGN WERE AND SHALL BE BASED ON THE STATE OF WISCONSIN BUILDING CODE AS AMENDED TO DATE                                                                                                                                                                                                                                                                                | EAST-WEST:                                                                                                                                                                                                                                                                                                                                        |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SYSTEM: BEARING WALL                                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | TYPE: ORDINARY REINFORCED MASONRY SHEAR WALLS                                                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - THE LATERAL SUPPORT SYSTEM INCORPORATES A FLOOR DIAPHRAGM                                                                                                                                                                                                                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - DEFLECTION DUE TO WIND LOADS SHALL BE CALCULATED BASED ON 0.7 TIMES THE COMPONENT'S AND CLADDING LOADS                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - STRUCTURAL COMPONENT DESIGN NOTES:                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - DRIFTING AND SLIDING SNOW SHALL BE CONSIDERED IF REQUIRED                                                                                                                                                                                                                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - WORST CASE LOADING COMBINATIONS SHALL BE USED                                                                                                                                                                                                                                                                                                   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - UNBALANCED LOADING SHALL BE CONSIDERED                                                                                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - FOOTINGS WERE DESIGNED USING A NET SOIL BEARING CAPACITY OF 2000 PSF                                                                                                                                                                                                                                                                            |  |  |  |
| - DESIGN, FABRICATION, AND ERECTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ACI 530 (BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES)                                                                                                                                                                                                                                         | - THE DESIGN SOIL BEARING CAPACITY WAS BASED ON A SOILS REPORT PREPARED BY C.G.C., INC. OF MADISON, WI ON 10/26/2011. THE CONTRACTOR SHALL REFERENCE THE SOILS REPORT AND CONFORM TO THE REQUIREMENTS STATED WITHIN                                                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - MINIMUM 28 DAY CONCRETE CY UNDER STRENGTH SHALL BE:                                                                                                                                                                                                                                                                                             |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | FOOTINGS 3000 PSI                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | FOUNDATION WALLS 4000 PSI                                                                                                                                                                                                                                                                                                                         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | PIERS 4000 PSI                                                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SLABS ON GRADE 4000 PSI                                                                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | PRECAST TOPPING 5000 PSI                                                                                                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | PRECAST CONCRETE SYSTEMS 5000 PSI                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED                                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60                                                                                                                                                                                                                                                                                           |  |  |  |
| - DESIGN, FABRICATION, AND ERECTION OF PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE)                                                                                                                                                                                                                                                 | - PRE-TENSIONING AND POST-TENSIONING REINFORCING STEEL SHALL CONFORM TO ASTM A416 GRADE 270                                                                                                                                                                                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - PRECAST CONCRETE SHALL BE DESIGNED BY THE SUPPLIER                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - DESIGN PRECAST CONCRETE PLANK FOR THE FOLLOWING MINIMUM SUPERIMPOSED LOADS:                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | DEAD LOAD (D) = 4 PSF + CONCRETE TOPPING WEIGHT                                                                                                                                                                                                                                                                                                   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | LIVE LOAD (L) = 125 PSF                                                                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CONCRETE TOPPINGS OVER PRECAST CONCRETE PLANK SHALL BE DESIGNED AS STRUCTURALLY COMPOSITE WITH THE PLANK UNLESS NOTED OTHERWISE. A MINIMUM TOPPING THICKNESS OF 2" SHALL TAKE INTO ACCOUNT THE EFFECTS OF CAMBER AND SHALL BE MEASURED AT THE HIGH POINT OF CAMBER                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - PRECAST CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND REINFORCING OF PRECAST CONCRETE FOR HANDLING AND ERECTION STRESSES                                                                                                                                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - PRECAST CONCRETE MEMBERS SHALL BE DESIGNED FOR SELF WEIGHT AND ALL SUPERIMPOSED LOADS INCLUDING CONCENTRATED LOADS AND SHALL BE CAPABLE OF SUPPORTING ALL OPENINGS                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 CLASS III LIGHTWEIGHT UNITS                                                                                                                                                                                                                                                                   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CONCRETE MASONRY BRICK SHALL CONFORM TO ASTM C55 LIGHTWEIGHT UNITS - GRADE N FOR EXTERIOR AND BELOW GRADE USES AND GRADE S FOR INTERIOR USES ABOVE GRADE                                                                                                                                                                                        |  |  |  |
| - BUILDING CATEGORY: ENCLOSED<br>INTERNAL PRESSURE COEFFICIENTS: +.18<br>-18                                                                                                                                                                                                                                                                                                                     | - CLAY MASONRY BUILDING (COMMON) BRICK SHALL CONFORM TO ASTM C62 GRADE SW                                                                                                                                                                                                                                                                         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CLAY MASONRY FACE BRICK SHALL CONFORM TO ASTM C 216 GRADE SW TYPE FB5                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CLAY MASONRY HOLLOW BRICK SHALL CONFORM TO ASTM C552 GRADE SW TYPE HBS CLASS H40V                                                                                                                                                                                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - MINIMUM COMPRESSIVE STRENGTH OF CLAY MASONRY BRICK CONSTRUCTION SHALL BE f <sub>m</sub> = 1394 PSI                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - MORTAR FOR ALL REINFORCED LOAD BEARING MASONRY WALLS SHALL CONFORM TO ASTM C270 TYPE M                                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - MASONRY GROUT SHALL CONFORM TO ASTM C476 MINIMUM COMPRESSIVE STRENGTH f <sub>c</sub> = 3000 PSI                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - STRUCTURAL STEEL                                                                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | W-SHAPE BEAMS AND COLUMNS SHALL CONFORM TO ASTM A992, Fy = 50ksi                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36, Fy = 36ksi                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | COLD FORMED TUBING SHALL CONFORM TO ASTM A500, GRADE B, Fy = 42ksi                                                                                                                                                                                                                                                                                |  |  |  |
| - LEeward AND SIDE WALLS                                                                                                                                                                                                                                                                                                                                                                         | FOR ROUNDS AND Py=46ksi FOR SHAPE                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | HOT FORMED TUBING SHALL CONFORM TO ASTM A501, Fy = 36ksi                                                                                                                                                                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | PIPE SHALL CONFORM TO ASTM A53, GRADE B, Fy = 35ksi                                                                                                                                                                                                                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - STRUCTURAL STEEL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY THE SUPPLIER                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - STEEL BEAM CONNECTIONS SHALL SUPPORT MINIMUM 75% THE TOTAL UNIFORM CAPACITY SHOWN IN THE AISI TABLES OF UNIFORM LOAD CONSTANTS FOR THE GIVEN BEAM, SPAN, AND STEEL, EXCEPT WHERE SPECIFICALLY NOTED OR DETAILED                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - INCLUDE ECCENTRICITY IN CONNECTION CAPACITY                                                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - BASE PLATE GROUT SHALL CONFORM TO ASTM C107 GRADE C WITH A MINIMUM COMPRESSIVE STRENGTH f <sub>c</sub> = 5000 PSI                                                                                                                                                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, BUILDING INSPECTOR, AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. FOR PRE POUR INSPECTION OF ALL CONDITIONS THAT THE CONCRETE WILL HIDE                                                                                                                                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UN-JOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE 15'-0" |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE                                                                                                                                                                                                                                                                           |  |  |  |
| EARTHQUAKE - RIGID FRAME (BC 2000)                                                                                                                                                                                                                                                                                                                                                               | EXTERIOR SLABS - BROOM FINISH                                                                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | INTERIOR SLABS - TROWEL FINISH                                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SLABS TO RECEIVE BONDED TOPPINGS - SCRATCH FINISH                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SLABS TO RECEIVE TILE BY THIN OR THICK SET METHOD - FINE BROOM FINISH                                                                                                                                                                                                                                                                             |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | - SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SYSTEM: BUILDING FRAME                                                                                                                                                                                                                                                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | TYPE: ORDINARY STEEL CONCENTRICALLY BRASSED FRAME                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | EAST-WEST:                                                                                                                                                                                                                                                                                                                                        |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | SYSTEM: MOMENT RESISTING FRAME                                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  | TYPE: ORDINARY STEEL MOMENT FRAME                                                                                                                                                                                                                                                                                                                 |  |  |  |

STRUCTURAL GENERAL NOTES

GENERAL

- DESIGN DRAWINGS SHOW THE INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTION AS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN.
- THE FOLLOWING NOTES APPLY TO THE PLANS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICT WITH PLANS AND/OR SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EACH DRAWING AND DETAIL CONTAINED IN THE DRAWING SET AND REPORT ANY ERRORS, OMISSIONS, DISCREPANCIES, OR DETAILS NOT REFERENCED FOR INSTRUCTIONS FROM THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE EXISTING CONDITIONS, DIMENSIONS, AND CONSTRUCTION IN PROGRESS WITH THE SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS PRIOR TO SUBMITTAL. ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK, ALL DIMENSIONAL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE WITH ALL CONTRACTORS THE SIZE AND LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APERTURES AND OPENINGS.
- CONSTRUCTION PRACTICE, MEANS AND METHODS, AND JOBSITE SAFETY SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS TO COORDINATE ALL MISCELLANEOUS WORK PROVIDED FOR OTHER DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DIVISION OF MATERIALS AND LABOR FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) AND ALL FEDERAL, STATE, AND LOCAL BUILDING CODES AND ZONING ORDINANCES AS THEY PERTAIN TO THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SUPPORTS, SHORING, ETC. UNTIL PERMANENT BRACING AND SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL. THE DESIGN, ADEQUACY, AND SAFETY OF TEMPORARY BRACING, SUPPORTS, SHORING, ETC., SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING CONSTRUCTION. INVESTIGATION OF THE FRAMING AND CONNECTIONS FOR ADEQUACY DURING CONSTRUCTION SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REWORK EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING WORK NOT OTHERWISE INDICATED TO FACILITATE NEW CONSTRUCTION AND SHALL SUBMIT PLANS FOR APPROVAL INDICATING EXISTING AND REWORKED LOCATIONS.
- SUBSTITUTIONS FOR PROPRIETARY STRUCTURAL PRODUCTS DESIGNATED ON THE DRAWINGS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY INFORMATION USED TO DETERMINE ADEQUACY OF PROPOSED SUBSTITUTIONS INCLUDING STRUCTURAL CALCULATIONS IF NECESSARY.
- SHOP DRAWINGS INCLUDING BOTH ERECTION AND PRODUCTION DRAWINGS SHALL BE COMPLETED PRIOR TO THE START OF FABRICATION.

EARTHWORK

- CONTACT PROPER AUTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINATE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER.
- IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL, COMPACTED FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- COMPACT ALL SUBGRADE BELOW FOOTINGS PRIOR TO CONCRETE PLACEMENT.
- HOLES, TRENCHES, OR DISTURBANCES IN THE SOIL SHALL NOT BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- DO NOT PLACE UNDERGROUND UTILITIES OR PIPES BELOW FOOTINGS WITHOUT CONSULTING THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- TOPSOIL OR UNACCEPTABLE SOIL BELOW SLABS ON GRADE SHALL BE REMOVED.
- COMPACT ALL SUBGRADE MATERIAL PRIOR TO PLACEMENT OF ANY FILL. REMOVE LOOSE MATERIAL AND DEBRIS THAT CANNOT BE ADEQUATELY COMPACTED.
- BACKFILL AGAINST ANY WALLS OR CONSTRUCTION SHALL NOT BE PLACED UNLESS THE WALLS ARE ADEQUATELY BRACED TO WITHSTAND THE LOADS IMPOSED DUE TO THE BACKFILLING OPERATION.
- DESIGN, FURNISH, AND INSTALL ALL TEMPORARY SHEETING AND SHORING NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
- PROVIDE ANY Dewatering REQUIRED DURING EXCAVATION AND CONSTRUCTION.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 308 (SPECIFICATIONS FOR STRUCTURAL CONCRETE) ACI 308.1 (HOT WEATHER CONCRETE), ACI 308.2 (COLD WEATHER CONCRETE), ACI 308.3 (CONCRETE DETAILING SHALL CONFORM TO ACI SP-68 (ACI DETAILING MANUAL)).
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE REINFORCEMENT.
- A CERTIFIED TESTING AGENCY ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ON ALL CONCRETE PROPERTIES.
- CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, BUILDING INSPECTOR, AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. FOR PRE POUR INSPECTION OF ALL CONDITIONS THAT THE CONCRETE WILL HIDE.
- SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UN-JOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE 15'-0"
- SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE
- EXTERIOR SLABS - BROOM FINISH
- INTERIOR SLABS - TROWEL FINISH
- SLABS TO RECEIVE BONDED TOPPINGS - SCRATCH FINISH
- SLABS TO RECEIVE TILE BY THIN OR THICK SET METHOD - FINE BROOM FINISH
- SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE

- SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE
- SLOPE SLAB ON GRADE 1/4" PER FOOT TO DRAINS.
- SLOPE SLAB ON GRADE AT OVERHEAD DOORS 1/2" IN DEPTH OF DOOR JAMB AWAY FROM BUILDING.
- SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLOADED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING, WITHIN 16 HOURS MAXIMUM OF THE INITIAL CASTING OPERATION.
- ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS.
- MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE DETAILED.
- ALL REINFORCING SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED.
- PIERS SHALL BE POURED MONOLITHICALLY WITH WALLS.
- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.
- SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING.
- TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING.
- WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING.
- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING.
- BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE. LAP WELDED WIRE REINFORCEMENT 6 INCHES.
- HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS.
- VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE WALL.
- PROVIDE (2) #4 BARS AS STIRRUP CARRY BARS WHERE TOP STEEL IS UNAVAILABLE TO SUPPORT STIRRUPS.
- PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY.
- PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL.
- DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL.
- SLABS SHALL HAVE #4 BARS DIAGONALLY AT INTERIOR CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER.
- PIES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE DESIGN PROFESSIONAL. PIER AND CONDUIT EMBEDDED IN CONCRETES SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL; AND SHALL BE LOCATED AND PLACED AS SUCH
- 1. NOT CLOSER THAN THREE DIAMETERS ON CENTER
- 2. CONCRETE COVER SHALL NOT LESS THAN 2 INCHES
- 3. NO REINFORCING SHALL BE DISPLACED.
- COORDINATE AND VERIFY SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, CHASES, CONDUITS, DERESSED AREAS, FLOOR FINISHES, FILLS, ANCHORS, STONE AND MASONRY INSERTS, HANGERS, CURBS, AND OTHER MISCELLANEOUS ITEMS BEFORE PLACING CONCRETE.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH CONCRETE PORTION TESTED.

PRECAST CONCRETE

- PRECAST CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 308 (SPECIFICATIONS FOR STRUCTURAL CONCRETE).
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE PRECAST CONCRETE.
- CONTRACTOR SHALL SUBMIT PRECAST CONCRETE FINAL SHOP DRAWINGS, DESIGN CALCULATIONS, AND STATE SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR STATE SUBMITTAL PRIOR TO INSTALLATION.
- EMBEDMENTS AND CONNECTIONS NECESSARY FOR PRECAST INSTALLATION SHALL BE PROVIDED BY THE PRECAST CONTRACTOR WITH COMPLETE SETTING DRAWINGS AND TEMPLATES. CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE APPLICABLE TRADE.
- COORDINATE SIZE AND LOCATION OF ALL HOLES AND OPENINGS WITH THE RESPECTIVE TRADES PRIOR TO FABRICATION. DEVIATION FROM THESE LOCATIONS AND ADDITIONAL OPENINGS SHALL BE APPROVED BY THE FABRICATOR. OPENINGS LARGER THAN 8" SHALL BE FURNISHED BY THE FABRICATOR AND ALL CORING OF PRECAST SHALL BE APPROVED BY THE MANUFACTURER.
- MAXIMUM ALLOWABLE CAMBER IS 1" WITHOUT CONSULTATION FROM THE DESIGN PROFESSIONAL.
- PRECAST CONCRETE PLANK SHALL HAVE A MINIMUM 2" STRUCTURAL TOPPING UNLESS NOTED OTHERWISE. CONSULT THE DESIGN PROFESSIONAL PRIOR TO ADJUSTMENT OF BEARING HEIGHT IF REQUIRED TO ACCOUNT FOR LARGE CAMBERS.
- FIRE RATING OF PRECAST FLOOR PLANK SHALL BE 1 HOUR UNLESS NOTED OTHERWISE.
- GROUT WITH f<sub>c</sub> = 4000psi SHALL BE USED IN PRECAST MEMBER KEYWAYS.
- PRECAST SHALL BE VERTICALLY SELF SUPPORTING.
- PRECAST CONCRETE ERECTION, LEVELING/ALIGNING, AND GROUTING SHALL CONFORM WITH MANUFACTURERS PUBLISHED DATA.

MASONRY

- MASONRY WORK SHALL CONFORM TO ACI 530.1/ASCE 616S 602 (SPECIFICATION FOR MASONRY STRUCTURES) INCLUDING BUT NOT LIMITED TO THE HOT AND COLD WEATHER REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE MASONRY REINFORCEMENT.
- ANCHOR VEBERS TO BACKUP WALLS WITH TIES AT MAXIMUM SPACINGS OF 2'-0"x2'-0".
- VERTICAL REINFORCING SHALL BE TERMINATED WITH HOOKED BARS AT THE TOP OF WALL/COLUMN AND LAP SPLICED WITH DOWELS AT THE FOUNDATION.
- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN REINFORCING.

- CONCRETE MASONRY WALLS SHALL BE REINFORCED WITH WIRE IN HORIZONTAL JOINTS, AT 16" O.C. VERTICALLY FOR EXTERIOR WALLS AND 24" O.C. VERTICALLY FOR INTERIOR WALLS, USE GALVANIZED NO. 9 GAGE TRUSS TYPE JOINT REINFORCEMENT AS A MINIMUM. SEE DRAWINGS FOR ADDITIONAL REINFORCEMENT.
- MASONRY SHALL BE ANCHORED TO SUPPORTING BEAMS AND COLUMNS.
- BARS SPLICES SHALL BE LAPPED 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- PROVIDE BOND BEAM CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 48 BAR DIAMETERS IN LENGTH EACH WAY.
- PROVIDE BOND BEAM INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 48 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL.
- PROVIDE STANDARD HOOK AT ENDS OF BARS IN BOND BEAMS.
- ALL REINFORCING SHALL BE SUPPORTED BY ACCESSORIES TO PROPERLY LOCATE AND STABILIZE REINFORCING PRIOR TO PLACEMENT.
- VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS CELL NOT LESS THAN 3" x 4" AND FACE SHELLS AND WEBB SHALL BE FULLY BEDDED TO PREVENT LEAKAGE OF GROUT.
- CLEANOUT OPENINGS FOR INSPECTION SHALL BE PROVIDED PRIOR TO GROUTING IF THE LIFT EXCEEDS FOUR FEET. THE GROUTING SHALL BE COMPLETED IN FOUR FOOT LIFTS AND VIBRATED. WAIT 15 TO 60 MINUTES BEFORE POURING NEXT FOUR FOOT LIFTS AND VIBRATING 12" TO 18" INTO PRECEDING LIFT.
- CONTROL JOINTS IN MASONRY WALLS TO BE LOCATED AT:
  - A) MAXIMUM OF 20'-0" FROM CORNERS.
  - B) MAXIMUM OF 40'-0" ON CENTER.
  - C) CHANGES IN WALL HEIGHT OR THICKNESS.
  - D) CHASES AND RECESSES FOR PIPING, COLUMNS, AND FIXTURES.
  - E) ABUTMENT OF WALLS TO COLUMNS.
- PROVIDE (1) FULL HEIGHT #5 VERTICAL BAR AT ALL DOOR JAMBS, WINDOW JAMBS, MECHANICAL OPENINGS, CONTROL JOINTS, OR OTHER MASONRY DISCONTINUITIES. BAR SHALL BE CONTINUOUS WITHOUT INTERFERING WITH LINTEL BEARING. FULLY GROUT REINFORCED CELL.
- REINFORCE AND FULLY GROUT CELLS MINIMUM 16" WIDE BY FULL HEIGHT WITH (1) #5 VERTICAL BAR IN EACH CELL WHERE STRUCTURAL MEMBERS BEAR ON CONCRETE MASONRY UNLESS NOTED OTHERWISE.
- IN MASONRY WALLS, NO CHASE, RISER, CONDUIT OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 1'-0" OF BEARING OR LOAD CONCENTRATION.
- BEAMS AND LINTELS SHALL HAVE MINIMUM 8" BEARING LENGTH AT EACH END.
- PROVIDE 3/8" BEARING PLATES WITH (2) 3/8" DIAMETER x 4" HEADED STUD ANCHORS FOR BEAMS AND JOISTS BEARING ON MASONRY UNLESS NOTED OTHERWISE.
- BOND BEAMS, PLASTERS, AND ANY CELLS CONTAINING EMBEDMENT, REINFORCING STEEL, ANCHORS, ETC. SHALL BE FULLY GROUTED. PLACE REINFORCING BEFORE GROUTING.
- BOND BEAMS SHALL BE REINFORCED WITH (2) #5 BARS MINIMUM UNLESS NOTED OTHERWISE.
- FULLY GROUT AND FARGE MASONRY CONTACTING EARTH.
- DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.

STRUCTURAL STEEL

- WELDS SHALL BE AWS PRE-QUALIFIED, MADE WITH A E70xx ELECTRODE, AND SHALL BE PERFORMED BY WELDERS, AWS CERTIFIED FOR WELDS MADE.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE STRUCTURAL STEEL.
- COLUMN BASE PLATES WITH OVERSIZE HOLES SHALL HAVE PLATE WASHERS PROVIDED WITH ANCHOR BOLTS.
- THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO (2) A325 3/4" DIAMETER BOLTS OR EQUIVALENT WELD UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL EXPOSED TO WEATHER SHALL HAVE CONTINUOUS SEAL WELDS AT ALL JOINTS, IN ADDITION TO STRENGTH WELDS.
- CLEAN, PREPARE, AND SHOP PRIME STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH S.S.P.C. STANDARDS SP-1 AND SP-6.
- ALL STEEL REMAINING EXPOSED TO VIEW SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISI CODE OF STANDARD PRACTICE SECTION PERTAINING TO ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, WITHOUT GAPS OR OPEN JOINTS.

PRE-ENGINEERED METAL BUILDINGS

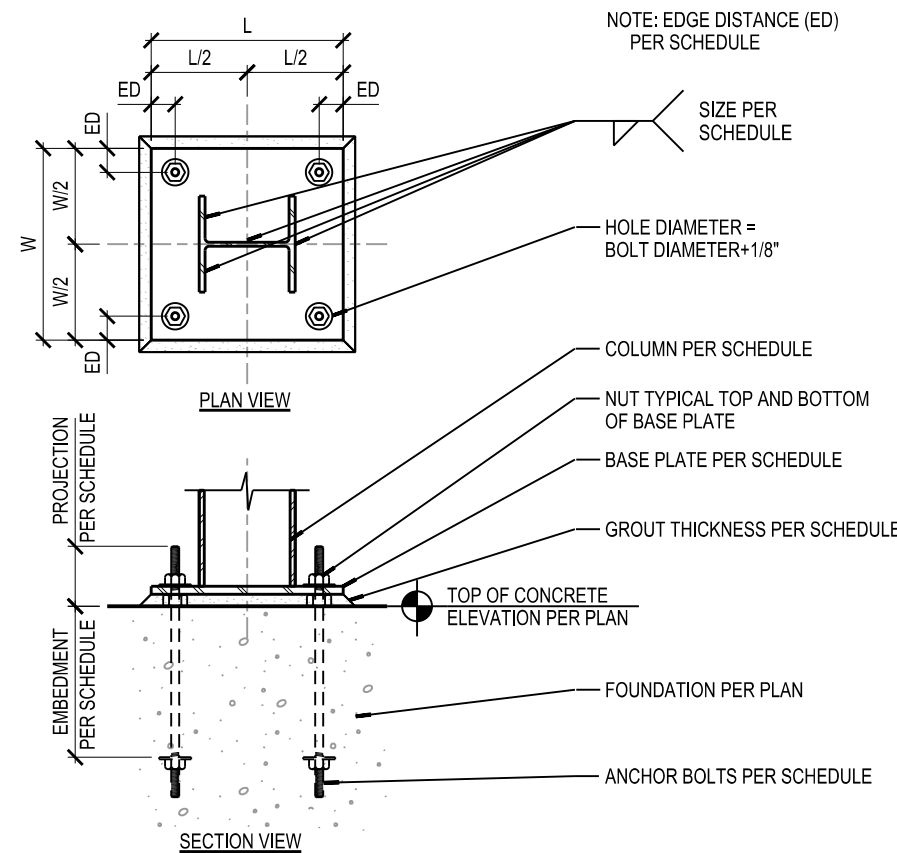
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE PRE-ENGINEERED METAL BUILDINGS.
- CONTRACTOR SHALL SUBMIT PRE-ENGINEERED METAL BUILDING FINAL SHOP DRAWINGS, DESIGN CALCULATIONS, AND STATE SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR STATE SUBMITTAL PRIOR TO INSTALLATION.
- FOUNDATION DESIGN SHOWN ON DRAWINGS MUST BE VERIFIED WITH LOADING PROVIDED BY PRE-ENGINEERED BUILDING DESIGNER PRIOR TO CONSTRUCTION - VERIFY WITH THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.
- ANCHOR BOLT EMBEDMENT SHALL BE 12" UNLESS NOTED OTHERWISE.
- DESIGN ALL COLUMNS WITHOUT FLANGE BRACES.
- ROOF STRUCTURE SHALL BE DESIGNED FOR THE MINIMUM DEAD LOAD EVEN IF THE ROOFING PANELS ARE LIGHTER THAN THE MINIMUM.
- MISCELLANEOUS DEAD LOADING (COLLATERAL GRAVITY) SHALL BE 4 PSF MINIMUM ON THE ENTIRE STRUCTURE WITH AN ADDITIONAL 6 PSF (10 PSF TOTAL) ON THE FRAMES ONLY FOR MISC. MECHANICAL EQPT. ALLOWANCE.
- HORIZONTAL DEFLECTION OF ALL FRAMES SHALL NOT EXCEED 1/100 OF THE HEIGHT.
- DEFLECTION OF WALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN.
- COORDINATE MECHANICAL UNIT LOCATIONS, WEIGHTS, AND SIZES WITH MECHANICAL CONTRACTOR.
- FRAMING FOR ALL ROOFTOP UNITS AND OPENINGS SHALL BE PROVIDED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- VERTICAL CLEARANCE UNDER ALL FRAMES SHALL BE MINIMUM OF 22'-6" FEET.
- STRUCTURAL FRAMING GAGES, SIZES, AND CONNECTIONS SHALL BE DESIGNED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- BRACING SHALL BE PLACED IN LOCATIONS SHOWN ON THE DRAWINGS IF NEEDED.
- COLUMNS BASE PLATES SHALL BE FLUSH WITH OUTSIDE FACE OF GIRTS.

MISCELLANEOUS

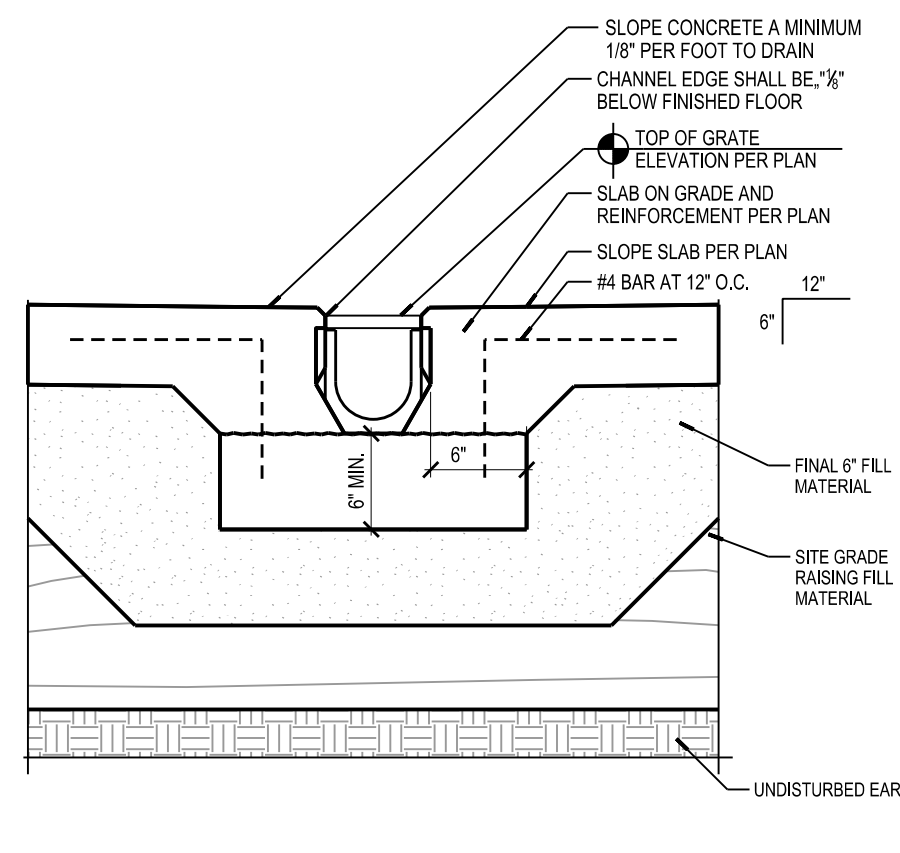
- PROVISIONS SHALL BE TAKEN TO ASSURE NON-STRUCTURAL COMPONENTS ARE NOT DISTORTED OR DAMAGED BY DEFLECTION OF THE STRUCTURE.
- EDGE OF ROOF FLASHINGS SHALL ALLOW RAINWATER TO PASS THROUGH.
- THE MINIMUM END CONNECTION OF GIRTS SHALL BE MADE WITH TWO (2) A325 1/2" DIAMETER BOLTS OR EQUIVALENT WELD UNLESS NOTED OTHERWISE.
- STAIR LANDINGS FOR STEEL PAN STAIRS SHALL BE FRAMED WITH 1/



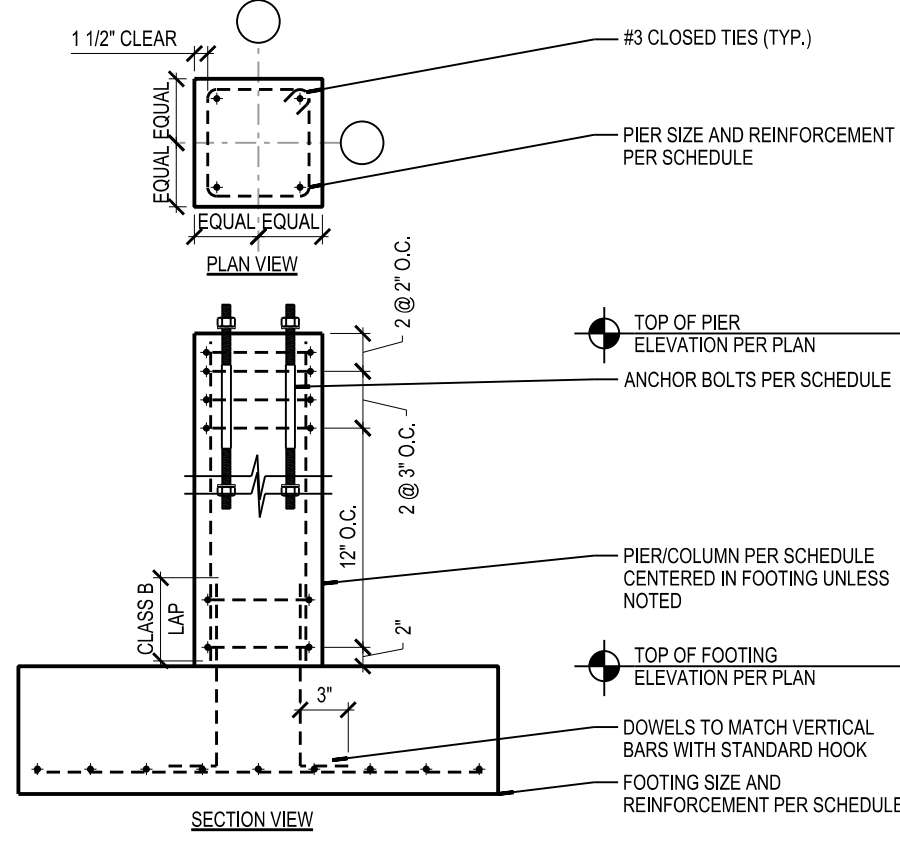
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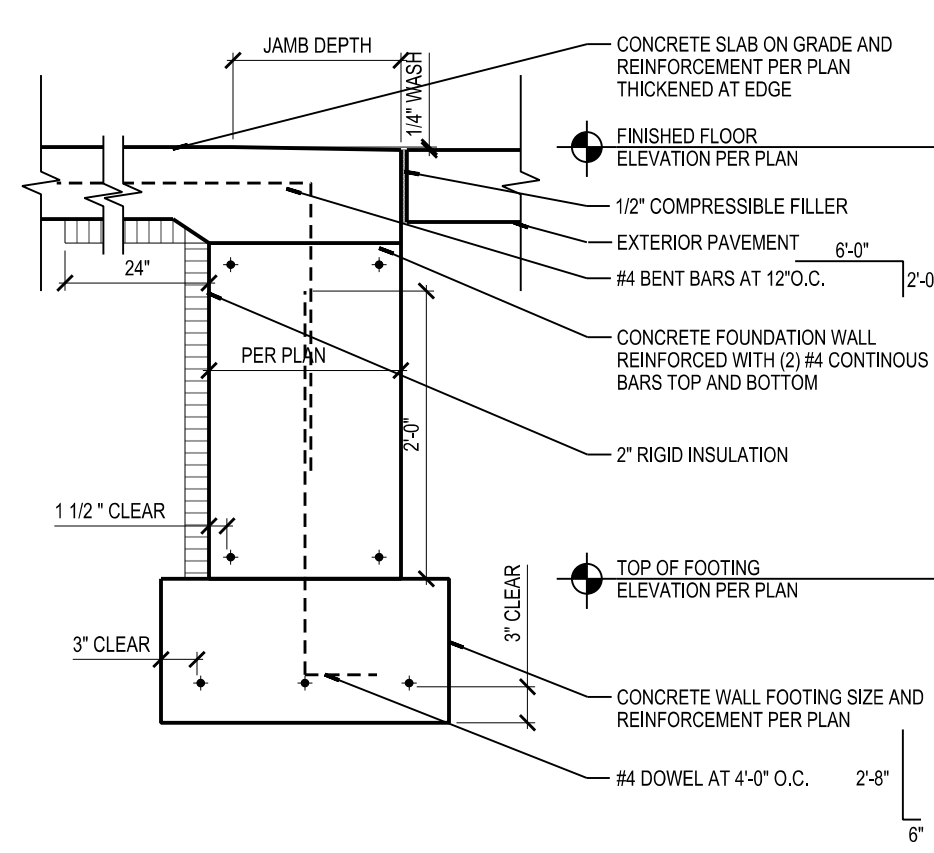
21 W-COLUMN BASE DETAIL  
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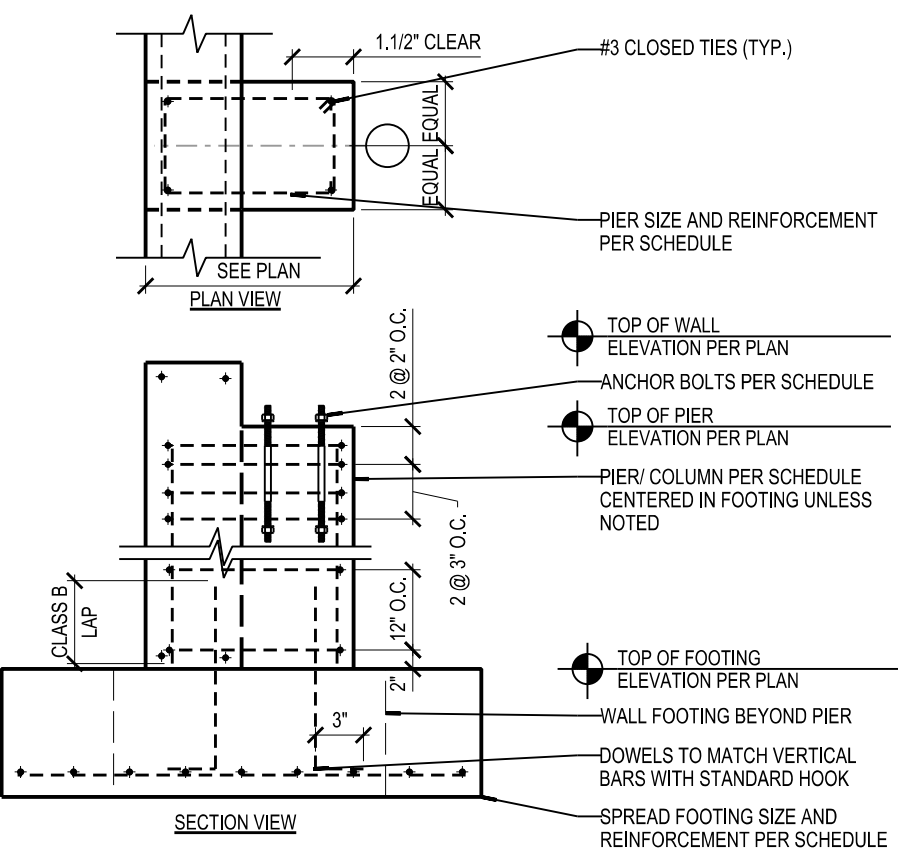
17 PREFABRICATED TRENCH DRAIN  
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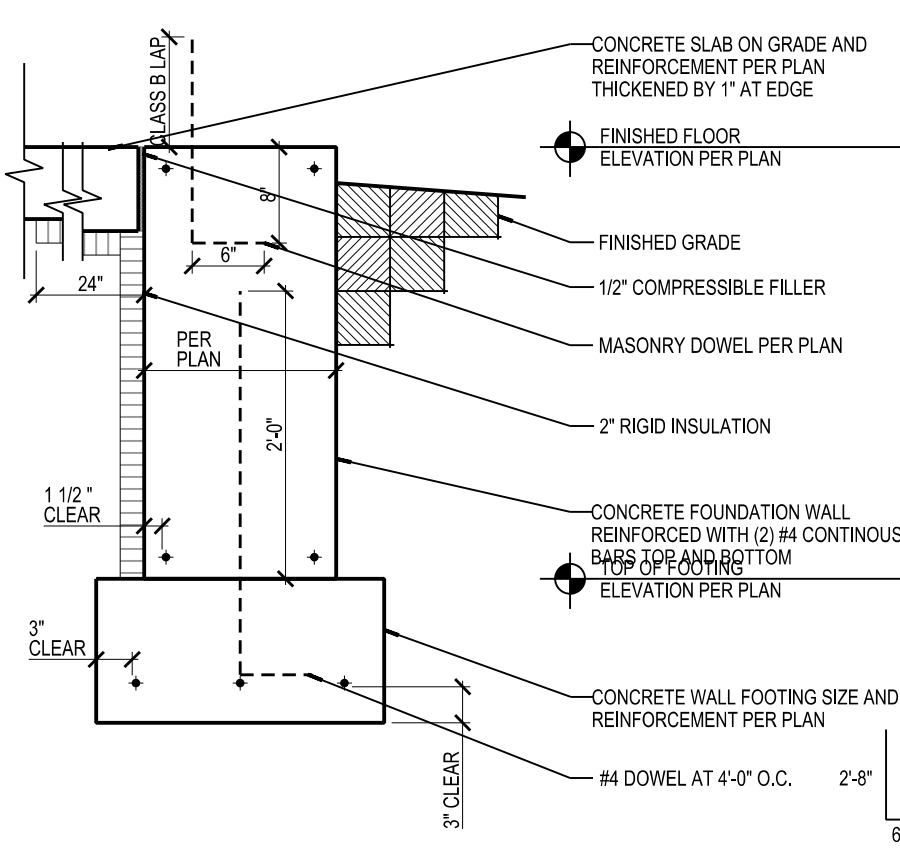
13 TYPICAL PIER  
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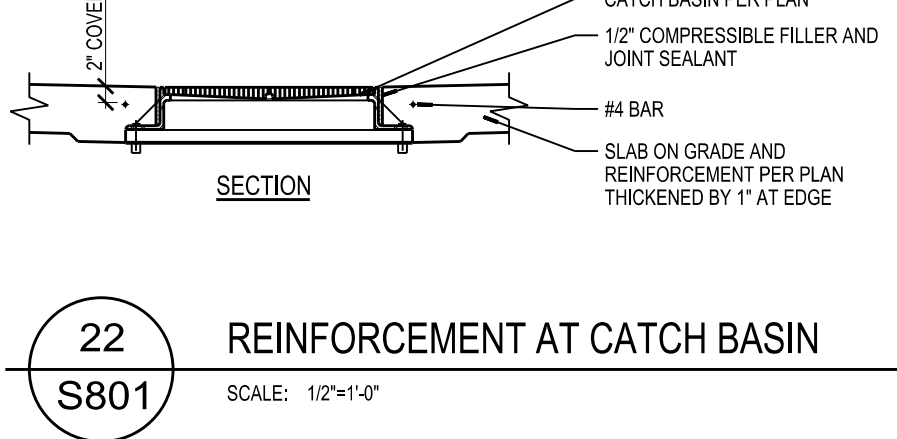
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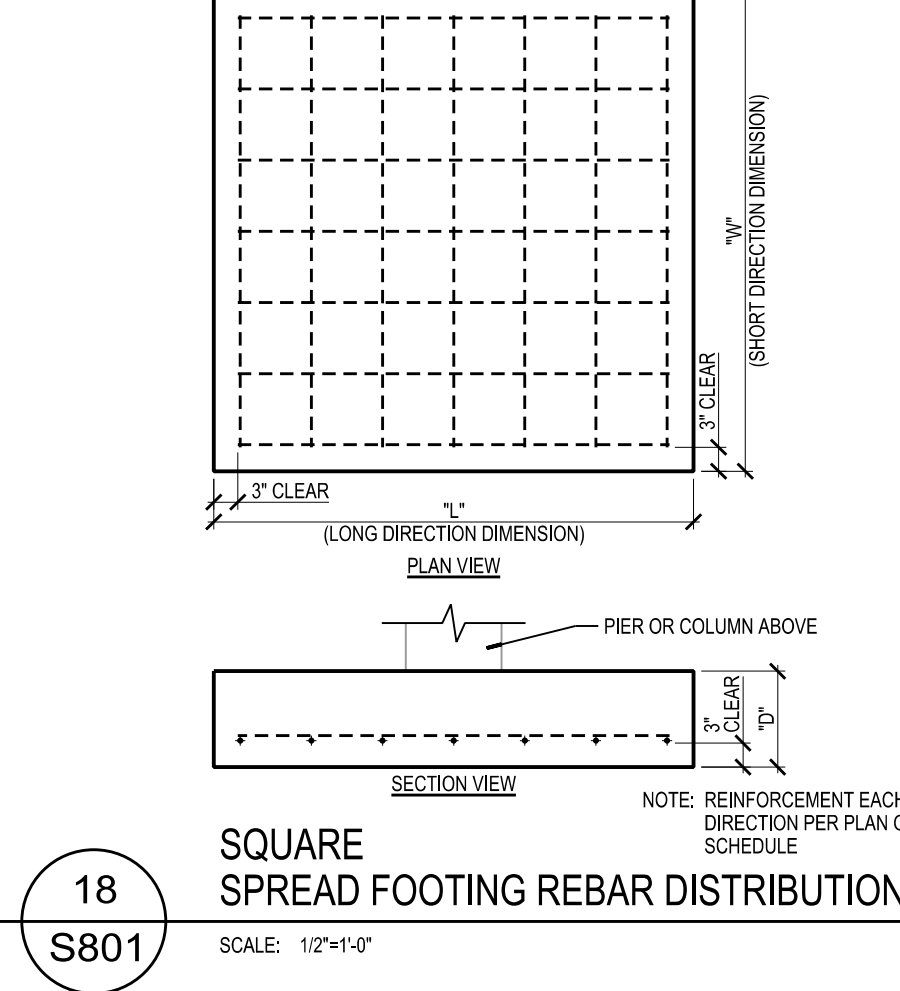
05 TYPICAL PIER AT WALL  
SCALE: 1/2"=1'-0"



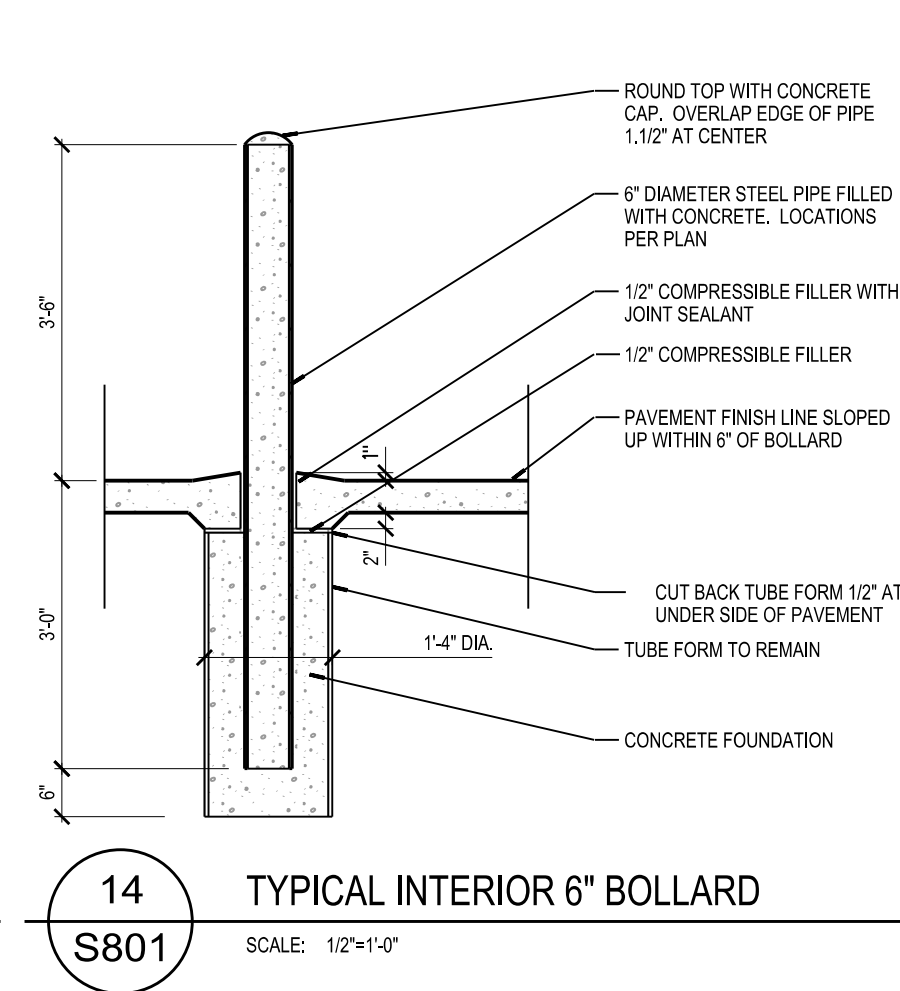
01 EXTERIOR FOUNDATION WALL AND FOOTING  
SCALE: 3/4"=1'-0"



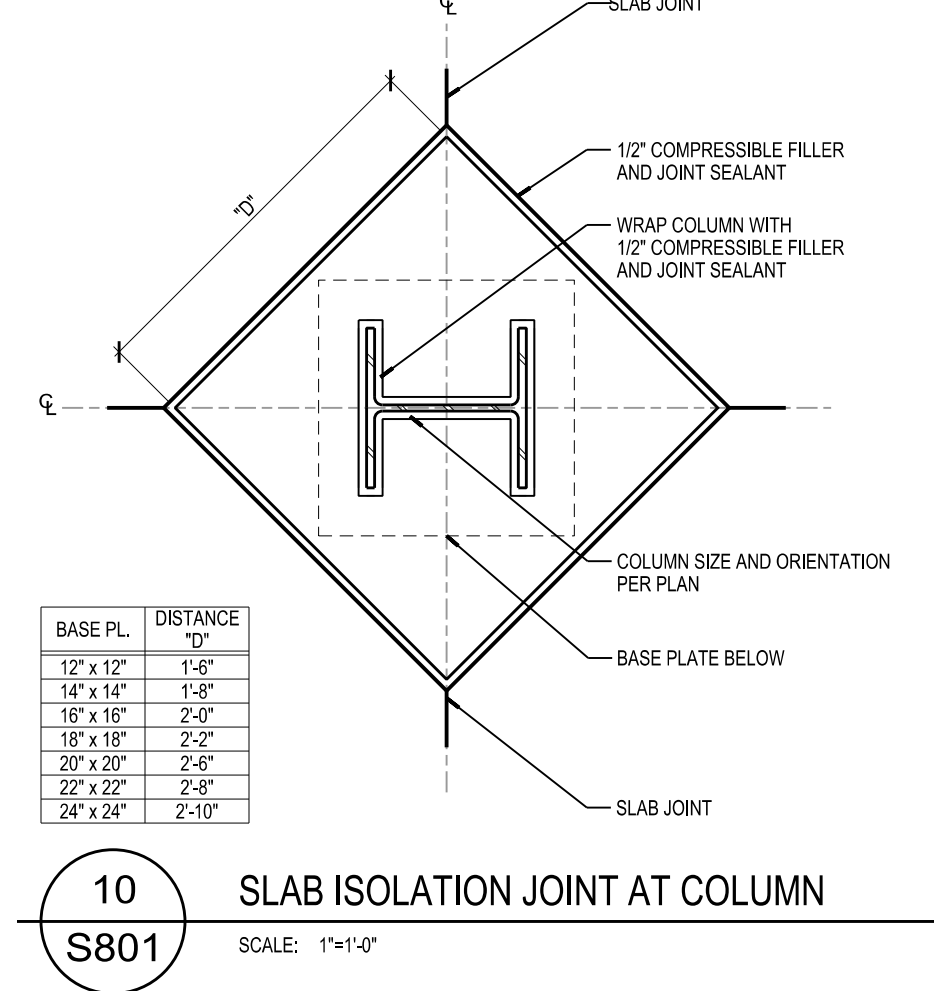
22 REINFORCEMENT AT CATCH BASIN  
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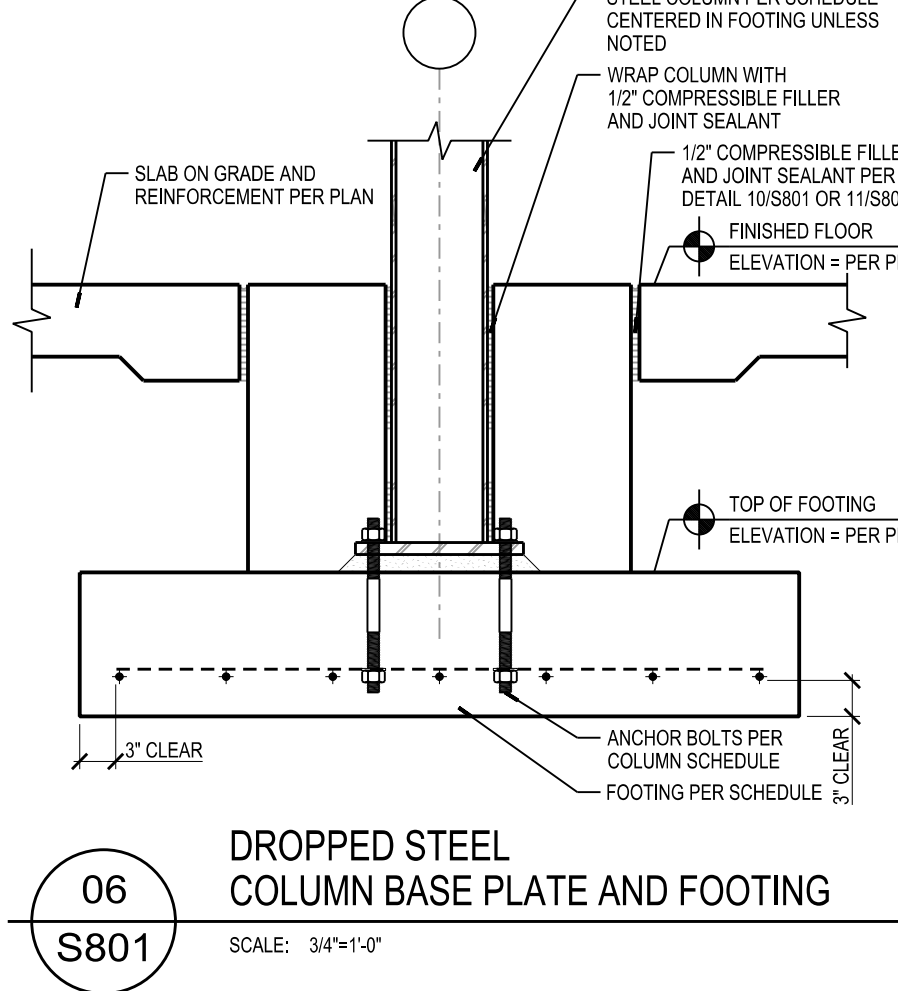
18 SQUARE SPREAD FOOTING REBAR DISTRIBUTION  
SCALE: 1/2"=1'-0"



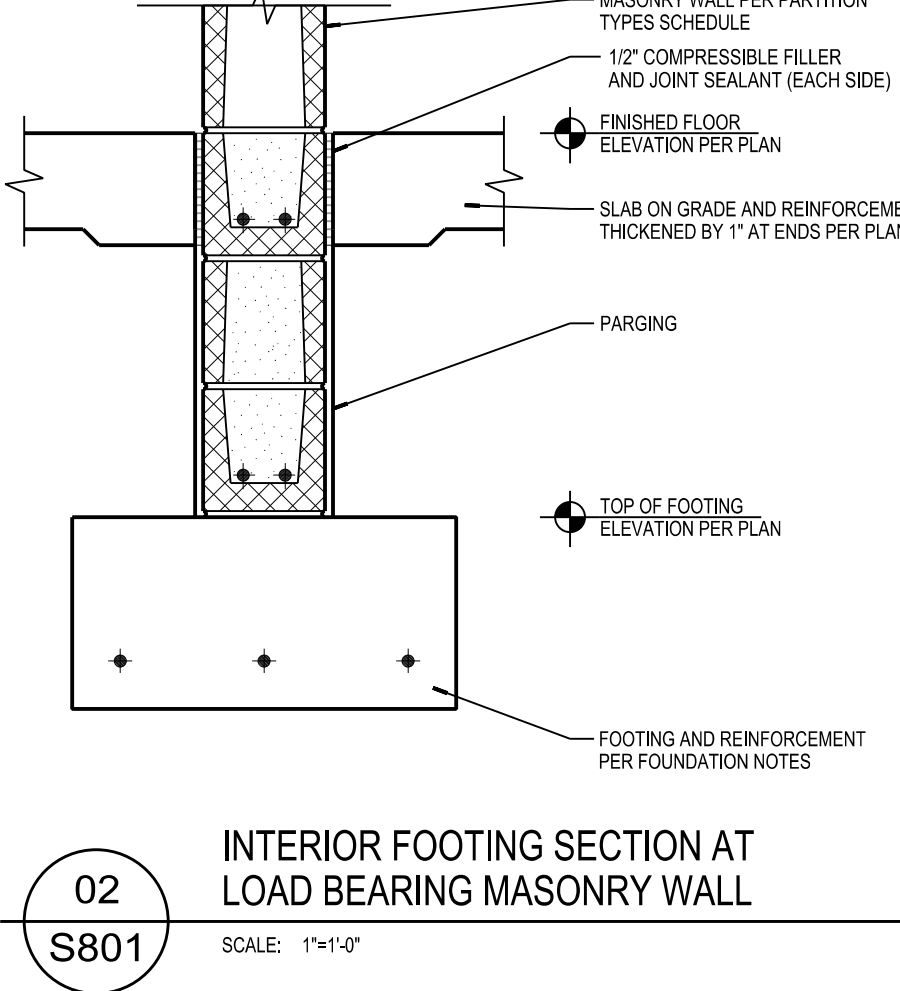
14 TYPICAL INTERIOR 6" BOLLARD  
SCALE: 1/2"=1'-0"



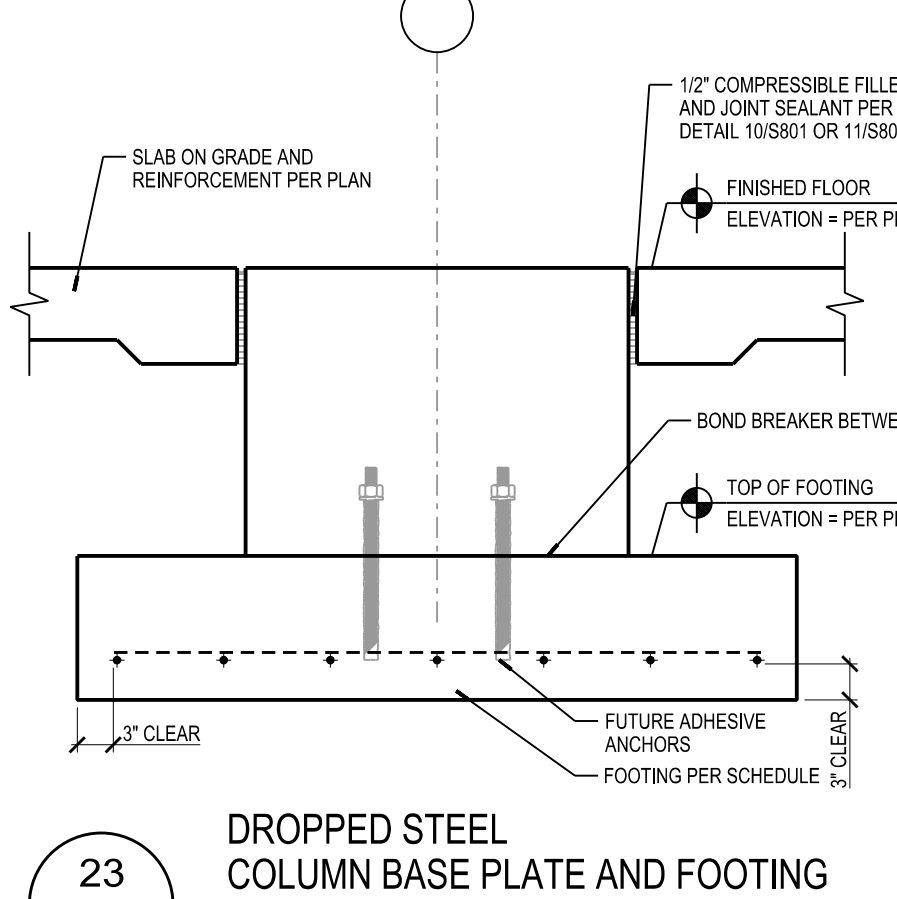
10 SLAB ISOLATION JOINT AT COLUMN  
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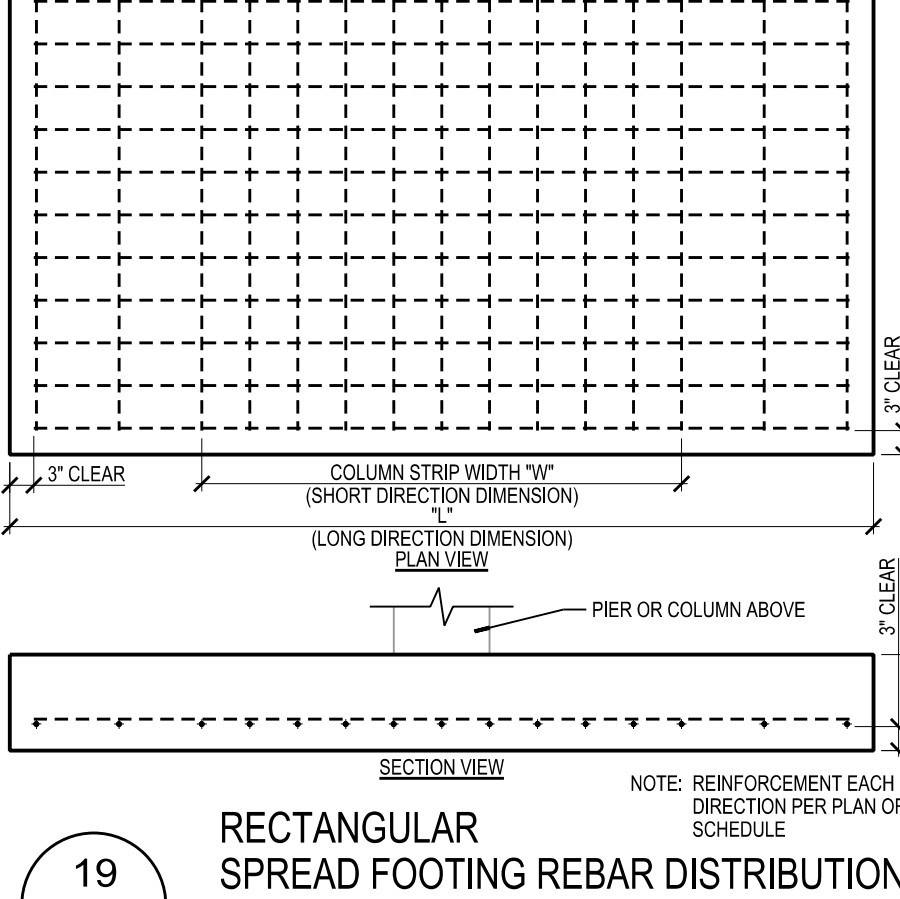
06 DROPPED STEEL COLUMN BASE PLATE AND FOOTING  
SCALE: 3/4"=1'-0"



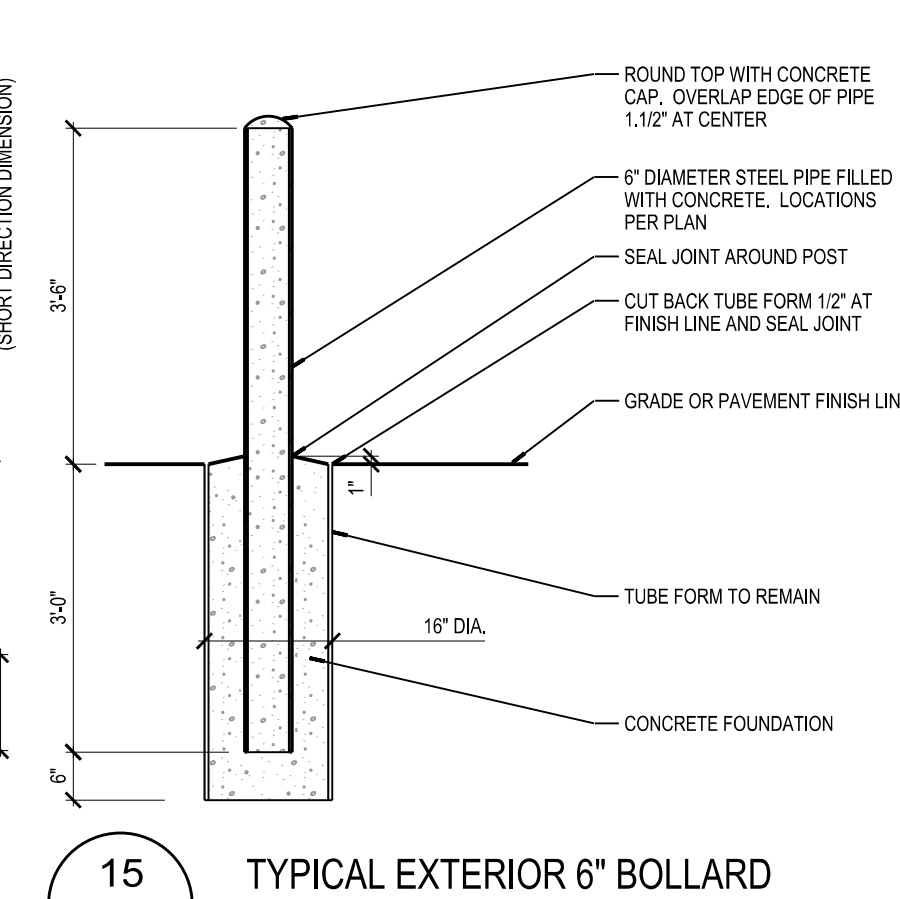
02 INTERIOR FOOTING SECTION AT LOAD BEARING MASONRY WALL  
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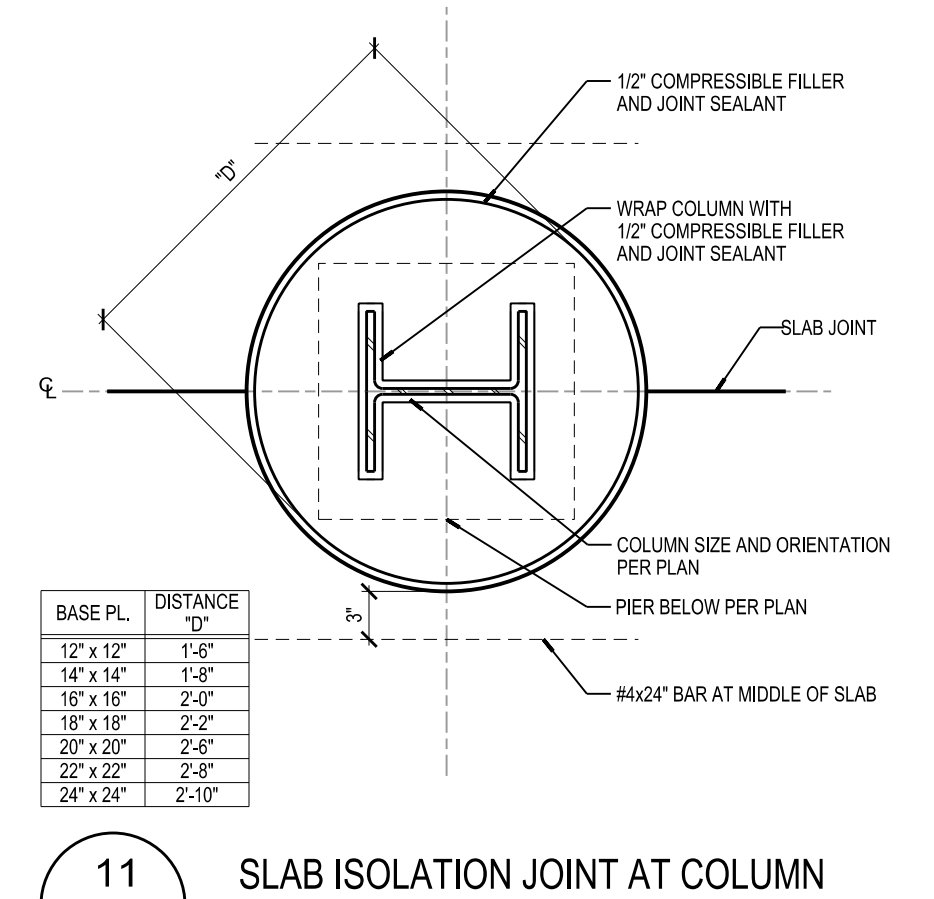
23 DROPPED STEEL COLUMN BASE PLATE AND FOOTING  
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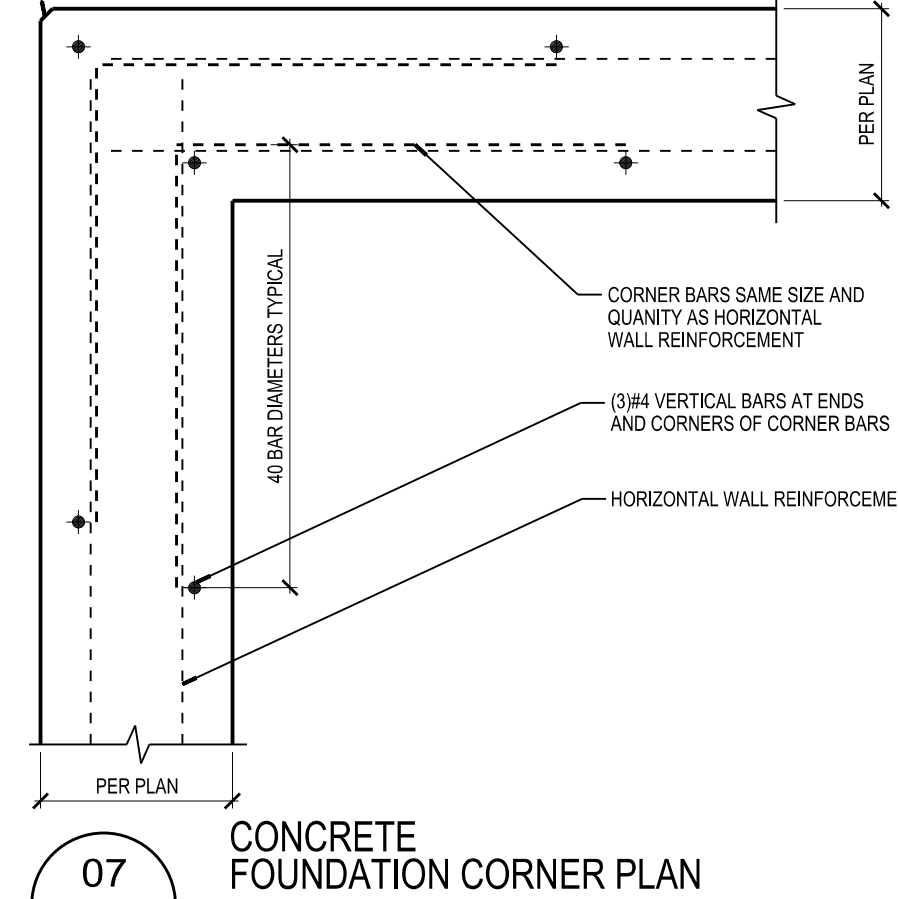
19 RECTANGULAR SPREAD FOOTING REBAR DISTRIBUTION  
SCALE: 1/2"=1'-0"



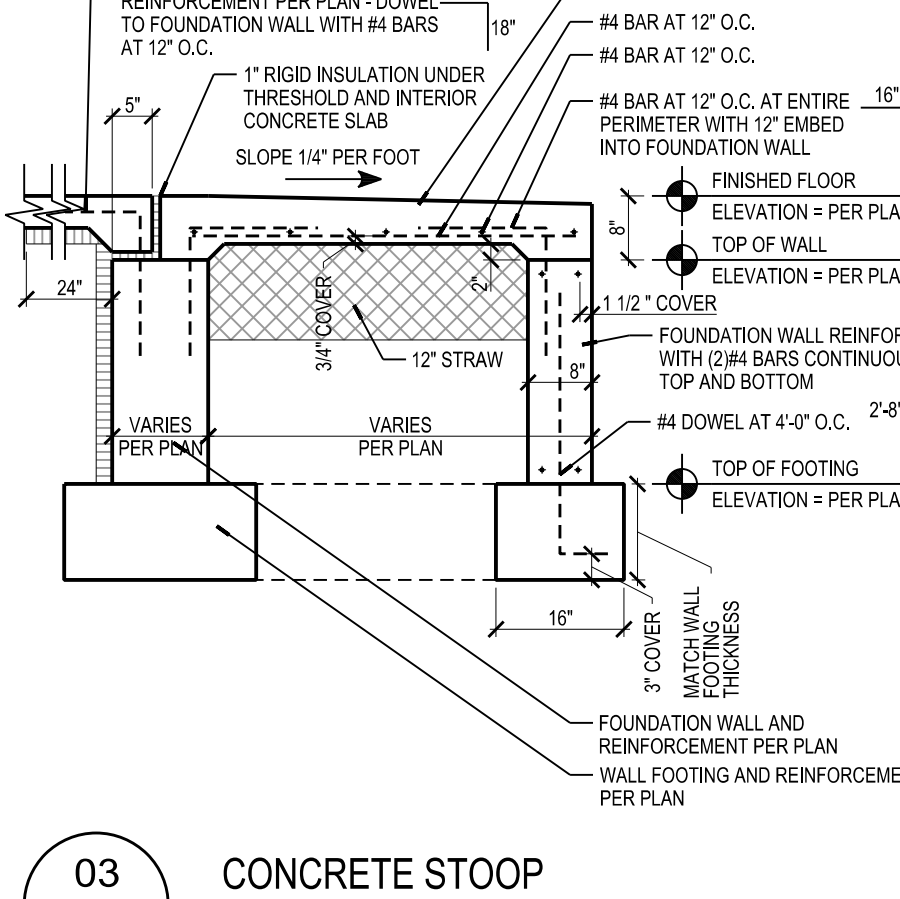
15 TYPICAL EXTERIOR 6" BOLLARD  
SCALE: 1/2"=1'-0"



11 SLAB ISOLATION JOINT AT COLUMN  
SCALE: 1"=1'-0"



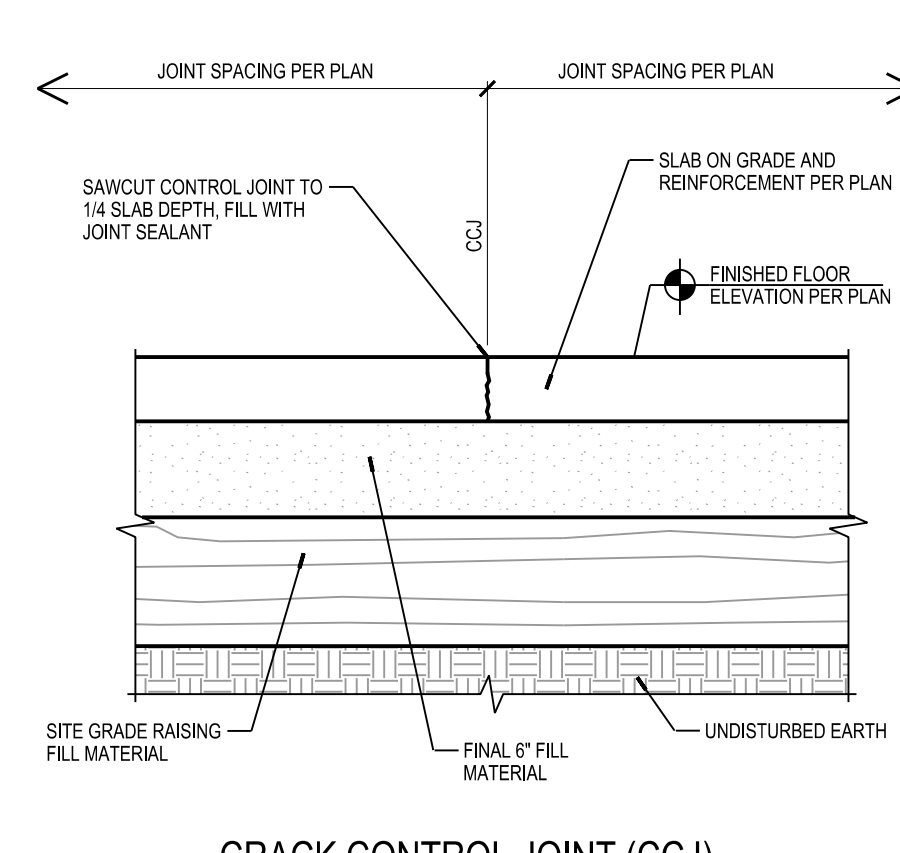
07 CONCRETE FOUNDATION CORNER PLAN  
SCALE: 1"=1'-0"



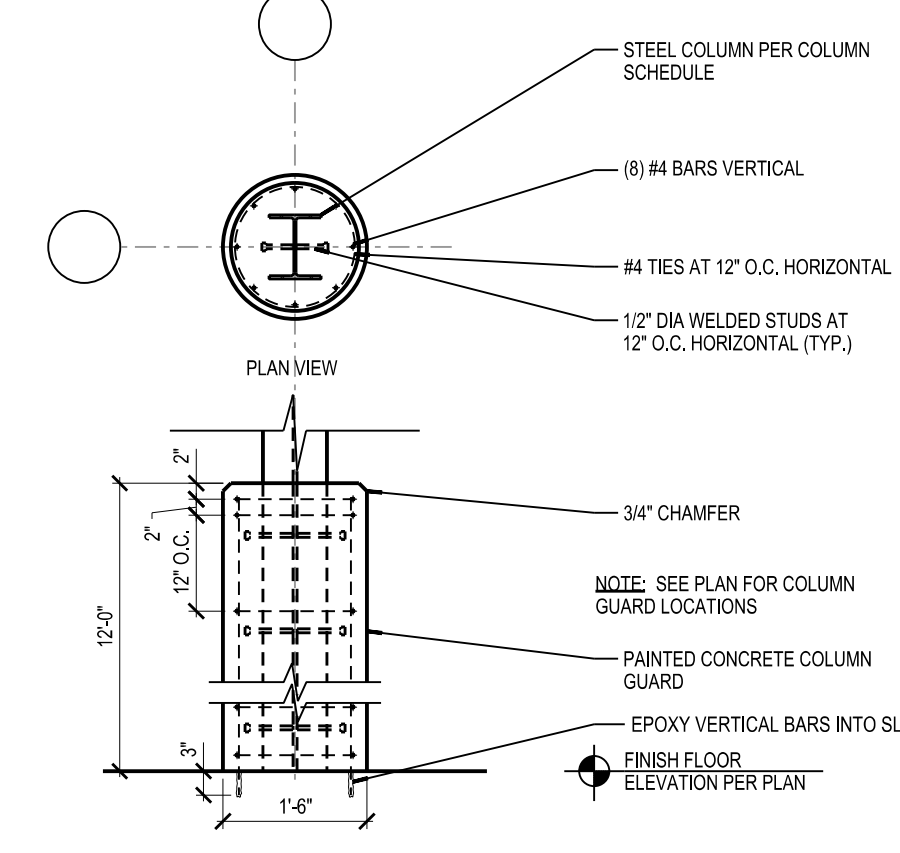
03 CONCRETE STOOP  
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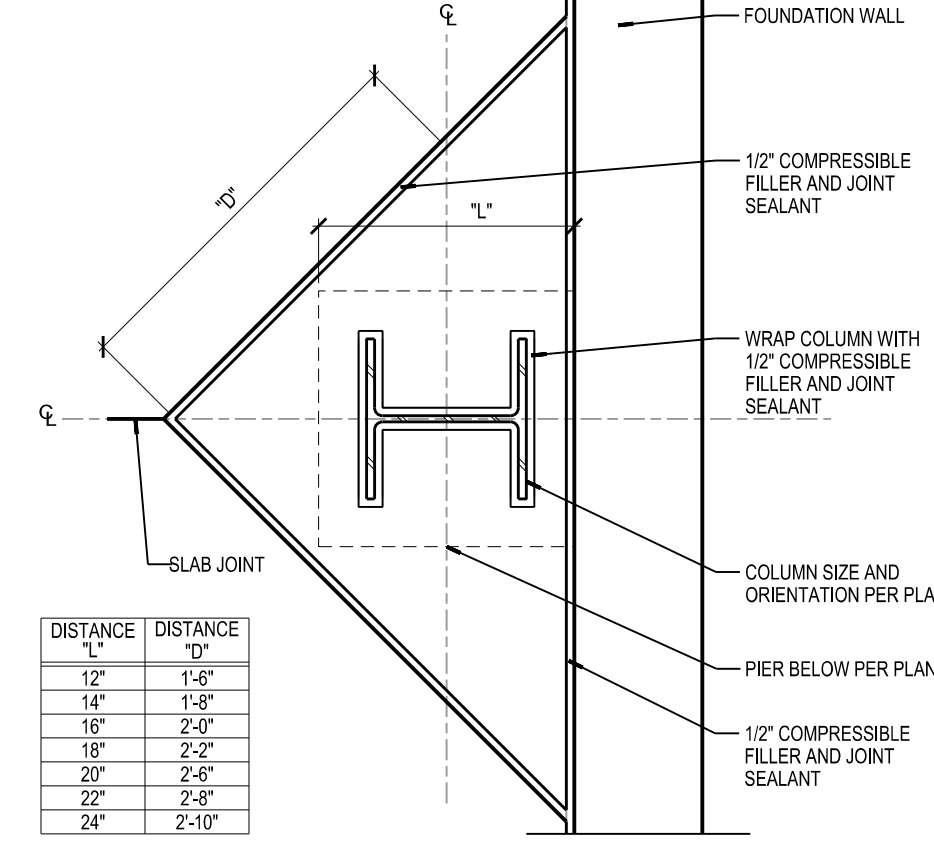
20 CRACK CONTROL JOINT (CCJ) IN CONCRETE SLAB ON GRADE  
SCALE: 1"=1'-0"



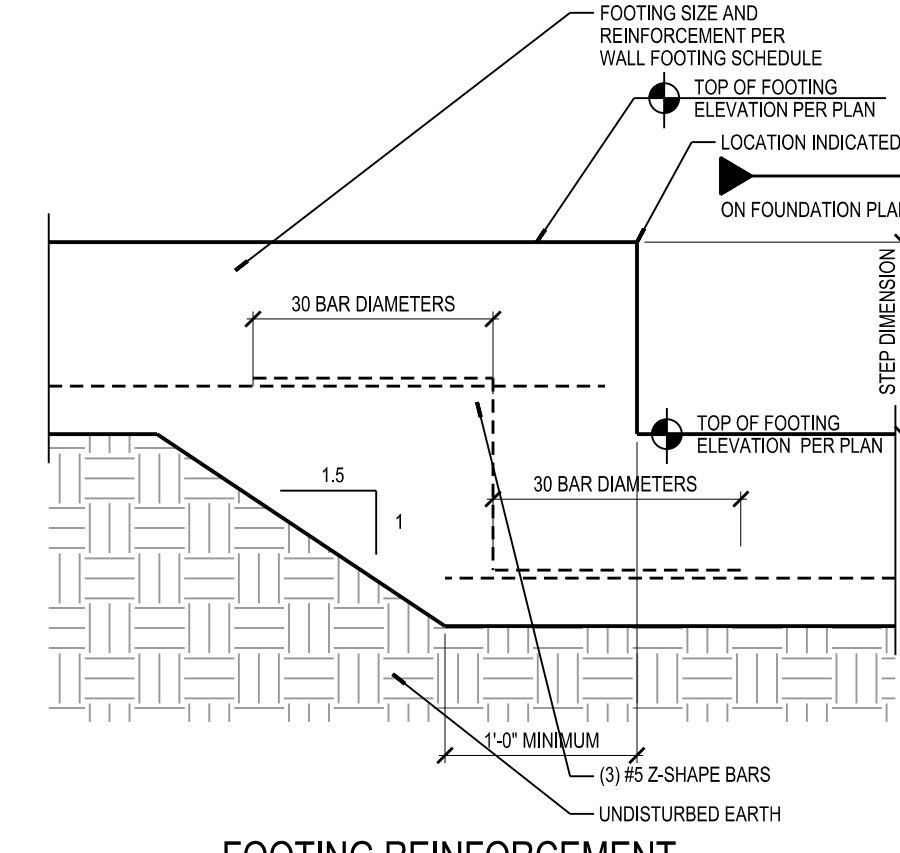
16 COLUMN CONCRETE GUARD DETAIL  
SCALE: 1/2"=1'-0"



12 SLAB ISOLATION JOINT AT COLUMN  
SCALE: 1"=1'-0"



08 CONCRETE FOUNDATION INTERSECTION PLAN  
SCALE: 1"=1'-0"



04 FOOTING REINFORCEMENT AT FOOTING STEP DETAIL  
SCALE: 1"=1'-0"

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| ISSUANCES                                  |  | REVISIONS |  |
|--------------------------------------------|--|-----------|--|
| UDC FINAL APPROVAL SUBMITTAL - 07/17/2012  |  |           |  |
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| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |  |           |  |
| Dept. of Commerce Plan Review - 08/13/2012 |  |           |  |
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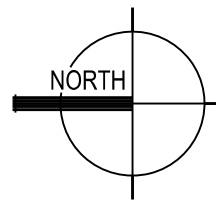
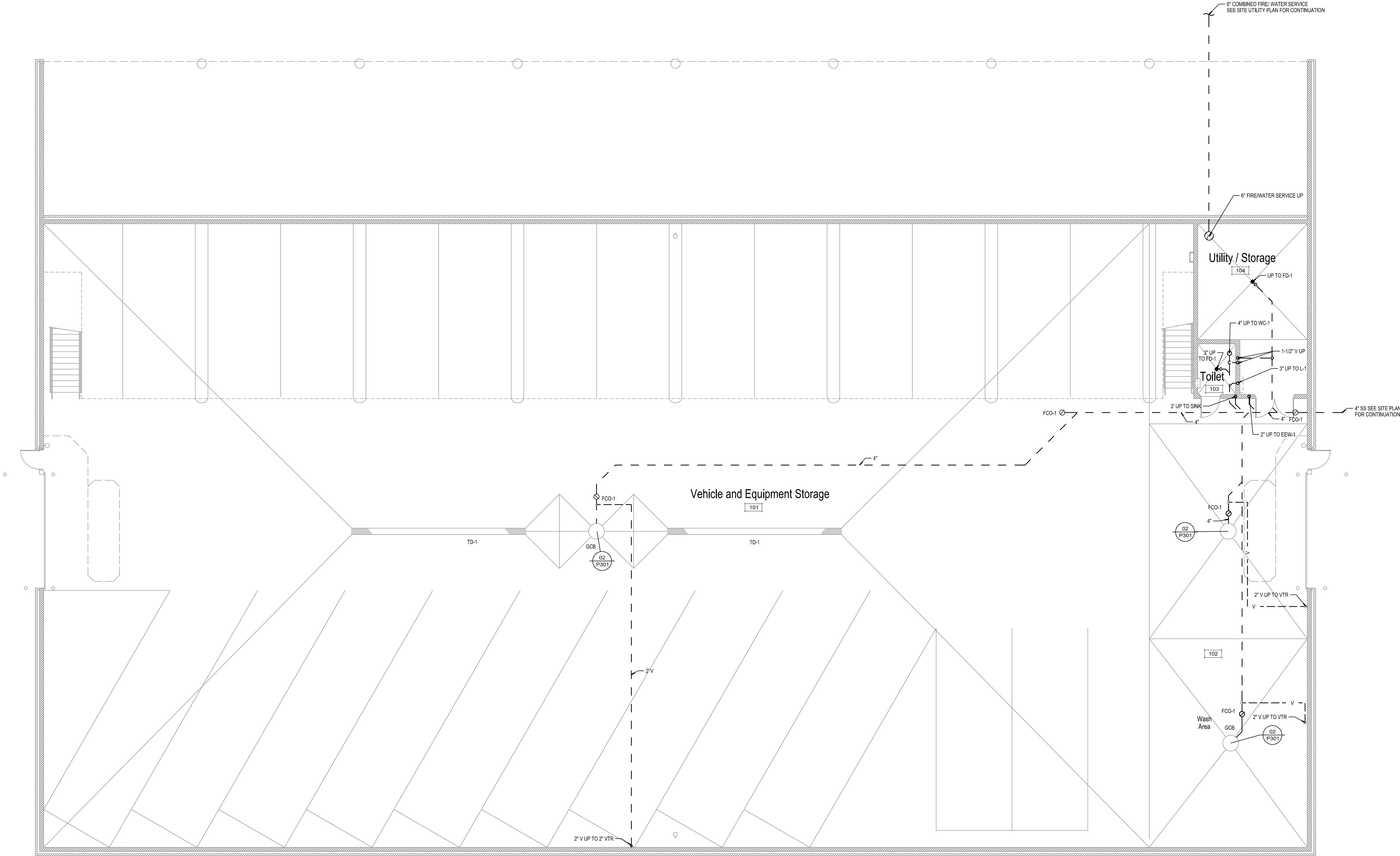
**SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN**

| PROJECT NUMBER | APPROVED BY | REVIEWED BY | DRAWN BY | DATE      |
|----------------|-------------|-------------|----------|-----------|
| 48150          | JLH         | JCT         | GSR      | 7/19/2013 |

STRUCTURAL DETAILS  
S801

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PLUMBING UNDER FLOOR PLAN

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

PLUMBING NOTES

1. COORDINATE WITH GENERAL CONTRACTOR TO ESTABLISH TOP OF GRATE ELEVATIONS FOR ALL TRENCH DRAINS AND GARAGE CATCH BASINS.

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| ISSUANCES                                  |  | REVISIONS                                          |
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| Dept. of Commerce Plan Review - 08/13/2012 |  |                                                    |
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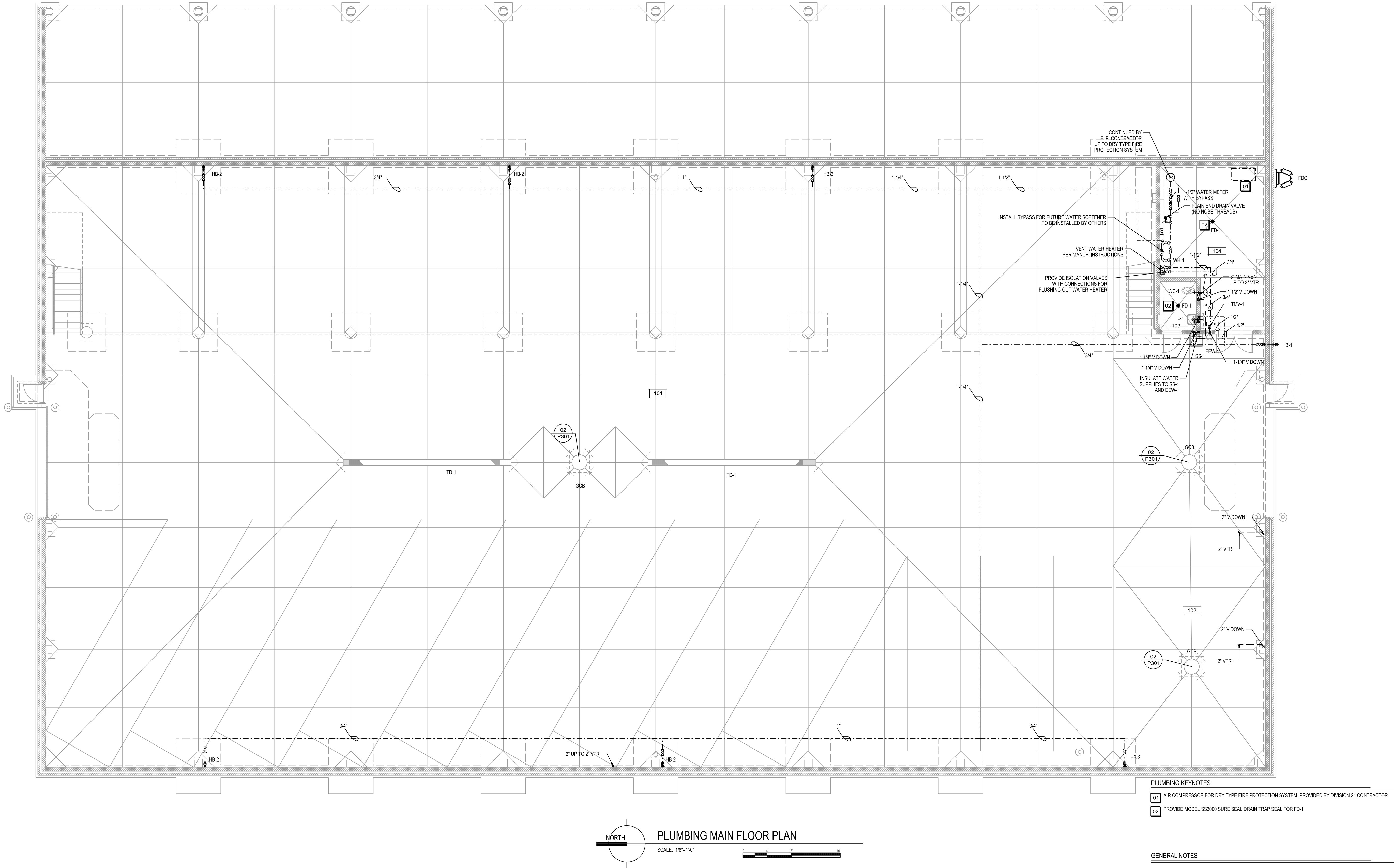
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|                         |                    |                    |                 |                      |
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| PROJECT NUMBER<br>48150 | APPROVED BY<br>JLH | REVIEWED BY<br>JCT | DRAWN BY<br>JDF | 7/19/2013 8:40:51 AM |
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PLUMBING UNDER FLOOR PLAN





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JLH  
REVIEWED BY  
JCT  
DRAWN BY  
JDF

MAIN LEVEL  
PLUMBING FLOOR PLAN

P101

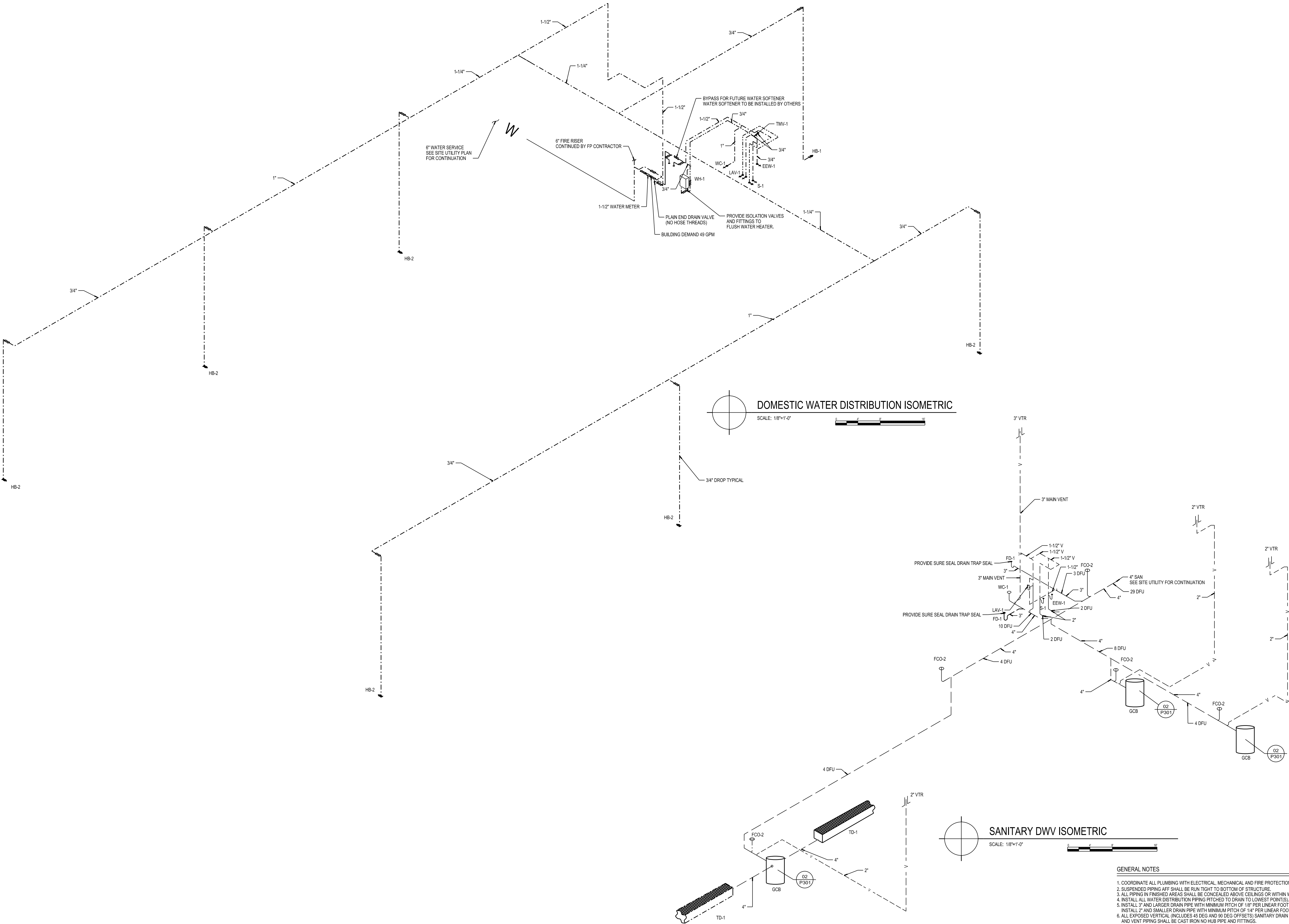
| ISSUANCES                                  | REVISIONS |
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| DESIGN DEVELOPMENT PACKET - 08/23/2012     |           |
| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |           |
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| Bid Construction - 06/14/2013              |           |
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SCALE: 1/8"=1'-0"  
PLOTTED BY: BnaW

ORIGINAL SIZE = 24" x 36"  
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- GENERAL NOTES
1. COORDINATE ALL PLUMBING WITH ELECTRICAL, MECHANICAL AND FIRE PROTECTION CONTRACTORS.
  2. SUSPENDED PIPING AFF SHALL BE RUN TIGHT TO BOTTOM OF STRUCTURE.
  3. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALLS.
  4. INSTALL ALL WATER DISTRIBUTION PIPING PITCHED TO DRAIN TO LOWEST POINT(S).
  5. INSTALL 3" AND LARGER DRAIN PIPE WITH MINIMUM PITCH OF 1/8" PER LINEAR FOOT. INSTALL 2" AND SMALLER DRAIN PIPE WITH MINIMUM PITCH OF 1/4" PER LINEAR FOOT.
  6. ALL EXPOSED VERTICAL (INCLUDES 45 DEG AND 90 DEG OFFSETS) SANITARY DRAIN WASTE AND VENT PIPING SHALL BE CAST IRON NO HUB PIPE AND FITTINGS.
  7. REFER TO DWV AND DOMESTIC WATER ISO FOR PIPE SIZING AND LOADS.
  8. DOMESTIC WATER PIPING (EXCEPT BUILDING WATER SERVICE) SHALL NOT BE INSTALLED BELOW SLAB.
  9. DOMESTIC WATER PIPING SUPPLYING HOSE BIBBS SHALL BE PITCHED TO DRAIN BACK TO EQUIPMENT STORAGE ROOM.

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|                |            |
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| PROJECT NUMBER | 48150      |
| APPROVED BY    | JLH        |
| REVIEWED BY    | JCT        |
| DRAWN BY       | JDF        |
| 7/19/2013      | 8:40:56 AM |

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CITY OF MADISON  
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| Bid Construction - 06/14/2013              |           |
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SCALE: 1/8"=1'-0"

1. MAKE UP AIR UNITS AND EXHAUST FANS SHALL BE SUPPORTED FROM PERLINS ACCORDING TO DETAIL 11/M301 OR METAL BUILDING SUPPLIER'S RECOMMENDATIONS.

|    |                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | PROVIDE ARCHITECTURAL APPROVED SIDE WALL RELIEF WITH BUILT IN BACK DRAFT DAMPER INSTALLED PER MANUFACTURER INSTRUCTIONS.                   |
| 02 | UNIT HEATER FLUE AND COMBUSTION AIR VENTS TO BE ROUTED PER MANUFACTURERS RECOMMENDATION AND TERMINATED WITH WALL CAP.                      |
| 03 | BOTTOM OF LOUVER SHALL BE MOUNTED AT 21" AFF.                                                                                              |
| 04 | LOCATE GFU#4, 5 AND 6 UNDER MEZZANINE. TOP OF UNIT SHALL BE MOUNTED 6" BELOW PRECAST CONCRETE SLAB.                                        |
| 05 | ROUTE FLUE AND COMBUSTION AIR OUTTINGS UP THROUGH PRECAST MEZZANINE FLOOR AND TERMINATE OUT SIDEWALL ABOVE EXTERIOR COVERED STORAGE ROOF.  |
| 06 | LOCATE BOTTOM OF GFU#1-4, GFU#2 AND GFU#3 AT 17 FEET AFF.                                                                                  |
| 07 | ELECTRIC UNIT HEATER, EUH#1 TO BE CONTROLLED BY BAS.                                                                                       |
| 08 | PROVIDE VIBRATION ISOLATION AT MAKE UP AIR UNITS PER SPECIFICATION SECTION 23 00 00.                                                       |
| 09 | LOCATE AND MOUNT CO AND NO2 SENSORS PER MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS FOR FULL COVERAGE OF THE VEHICLE STORAGE AREA. |



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| ISSUANCES                                  | REVISIONS |
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| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |           |
| Dept. of Commerce Plan Review - 08/13/2012 |           |
| Bill/Construction - 08/14/2013             |           |
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SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

|                |            |
|----------------|------------|
| PROJECT NUMBER | 48150      |
| APPROVED BY    | JLH        |
| REVIEWED BY    | JCT        |
| DRAWN BY       | JTL        |
| 7/10/2013      | 8:40:43 AM |

HVAC  
FLOOR PLAN

# M100

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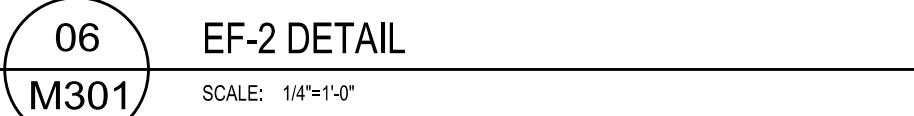
| LOUVER SCHEDULE |                  |                 |                 |                   |                                |
|-----------------|------------------|-----------------|-----------------|-------------------|--------------------------------|
| TAG             | ROOM<br>LOCATION | SIZE<br>W" X H" | TYPE            | CONSTRUCTION      | MANUFACTURER &<br>MODEL NUMBER |
| L-1             | VEHICLE STORAGE  | 70" X 32"       | DRAINABLE BLADE | EXTRUDED ALUMINUM | GREENHECK ESD-603              |
| L-2             | VEHICLE STORAGE  | 108" X 66"      | DRAINABLE BLADE | EXTRUDED ALUMINUM | GREENHECK ESD-603              |
| L-3             | VEHICLE STORAGE  | 70" X 32"       | DRAINABLE BLADE | EXTRUDED ALUMINUM | GREENHECK ESD-603              |
| L-4             | VEHICLE STORAGE  | 70" X 32"       | DRAINABLE BLADE | EXTRUDED ALUMINUM | GREENHECK ESD-603              |

| ELECTRIC UNIT HEATER SCHEDULE |                  |             |          |          |                 |                                |
|-------------------------------|------------------|-------------|----------|----------|-----------------|--------------------------------|
| TAG                           | ROOM<br>LOCATION | WATTS       | VOLTS    | AMPS     | BTU / HR OUTPUT | MANUFACTURER &<br>MODEL NUMBER |
| EUH-1                         | TOILET           | 4,000/2,000 | 208/1/60 | 19.2/9.6 | 13,652/6,826    | BERKO FRA-4020                 |

NOTE: HEATER TO BE TIED INTO BUILDING BAS SYSTEM.

Diagram illustrating the installation of a side-winder pipe hanger for a metal roof. The assembly includes:

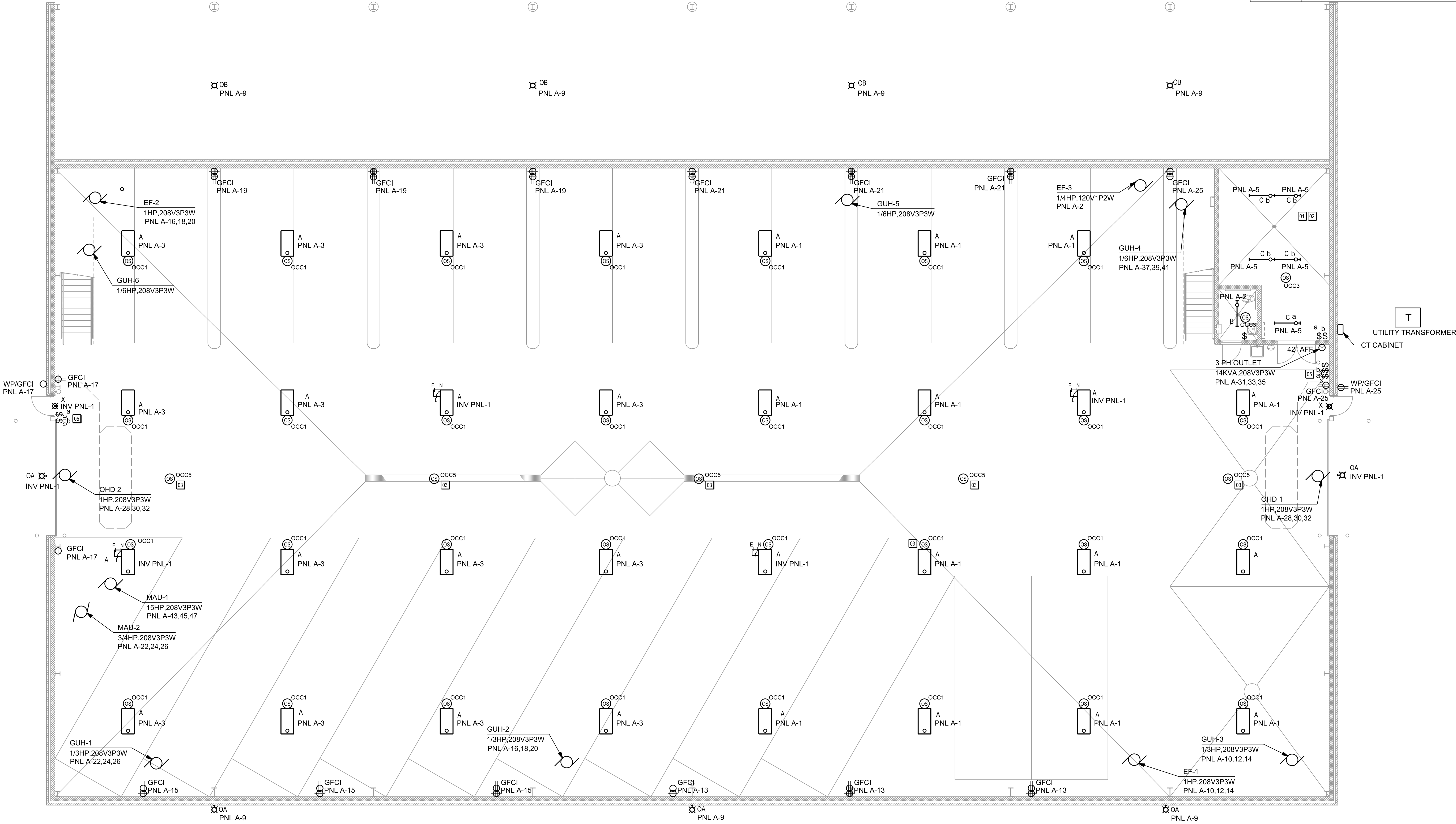
- METAL ROOF PER METAL BUILDING SUPPLIER
- NOTE: MAXIMUM CAPACITY OF HANGER IS 500 LBS.
- PURLIN PER METAL BUILDING SUPPLIER
- SAIMMY X-PRESS SIDEWINDER PIPE HANGER MODEL SWOP 35
- 3/8" ROD
- UNI-STRUT (OR SIMILAR) BY MECHANICAL CONTRACTOR





SCALE: 1/8"=1'-0"  
PLOTTED BY: D:\deliso

ORIGINAL SIZE = 24" x 36"  
X:\4815\exam\481506e101.dgn



| KEY NOTES |                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| KEYNOTE   | NOTE TEXT                                                                                                                                       |
| 01        | SEE DETAIL 05/E102 FOR POWER AND SYSTEMS IN UTILITY ROOM                                                                                        |
| 02        | SEE DETAIL 13/E102 FOR LIGHTING ABOVE UTILITY ROOM                                                                                              |
| 03        | CONNECT IN PARALLEL WITH ALL OTHER TYPE 5 OCCUPANCY SENSORS TO TWO WIRE HVAC CONTROL LOOP. POWER SUPPLY FROM HVAC CONTROL PANEL CIRCUIT.        |
| 04        | INSTALL MASKING TO PROVIDE 180 DEGREE COVERAGE OF THE MEZZANINE AREA ONLY                                                                       |
| 05        | SWITCHES TO BE CONNECTED AHEAD OF AUTOMATIC CONTROLS FOR LIGHTING CIRCUITS: a - CKT 1 & b - CKT 3 (BASE BID) AND c - CKT5 (MEZZANINE ALTERNATE) |
| 06        | FIXTURES IN THIS ZONE TO BE CONTROLLED BY OCCUPANCY SENSORS IN THIS ZONE                                                                        |

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PROJECT NUMBER  
48150

APPROVED BY  
JLH

REVIEWED BY  
JCT

DRAWN BY  
ATW

7/19/2013 9:20:46 AM

ELECTRICAL PLAN

E101

**Angus Young**  
*Architecture  
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*Balance in Creativity*

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**SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN**

ISSUANCES

UDC FINAL APPROVAL SUBMITTAL - 07/17/2012

DESIGN DEVELOPMENT PACKET - 08/23/2012

100% CONSTRUCTION DOCUMENTS 08.31.2012

Dept. of Commerce Plan Review - 08/13/2012

Bid Construction - 08/14/2013

Re-Bid Construction - 07/26/2013

REVISIONS

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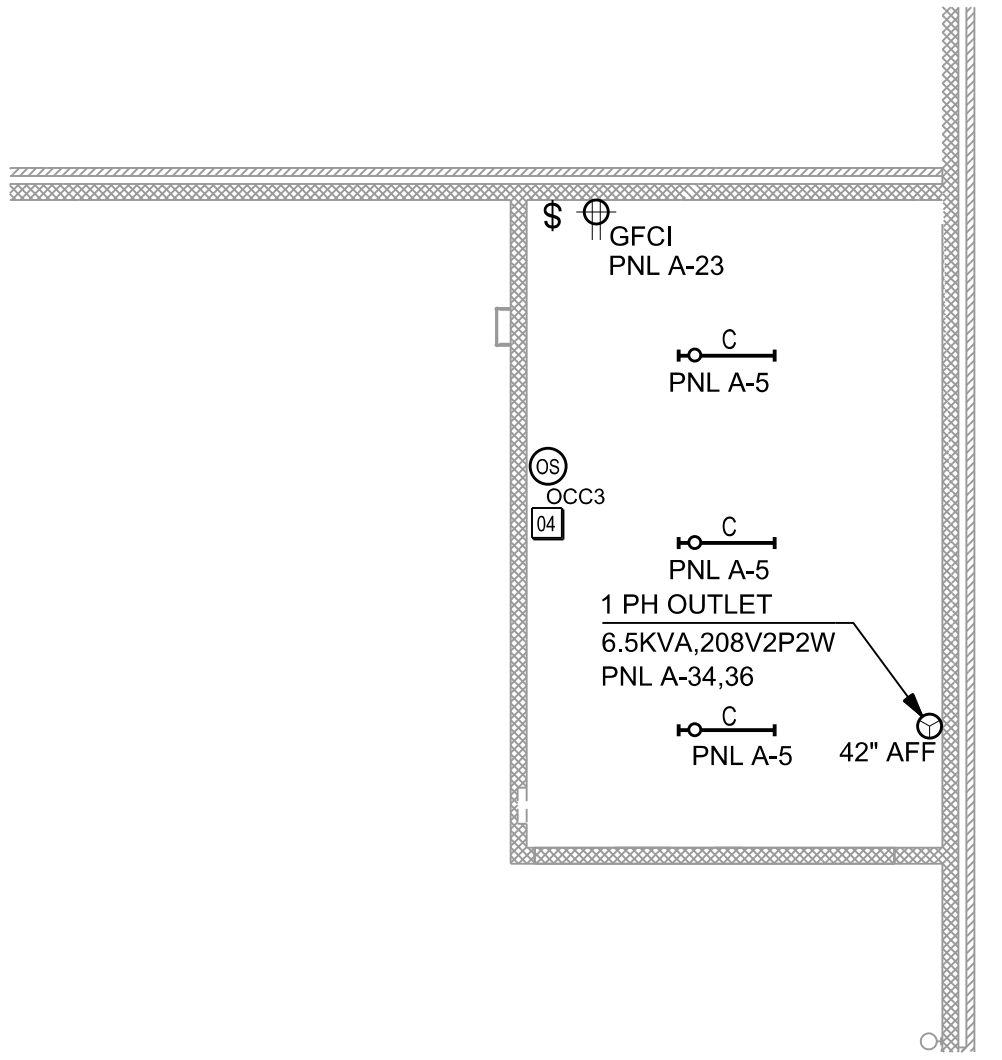
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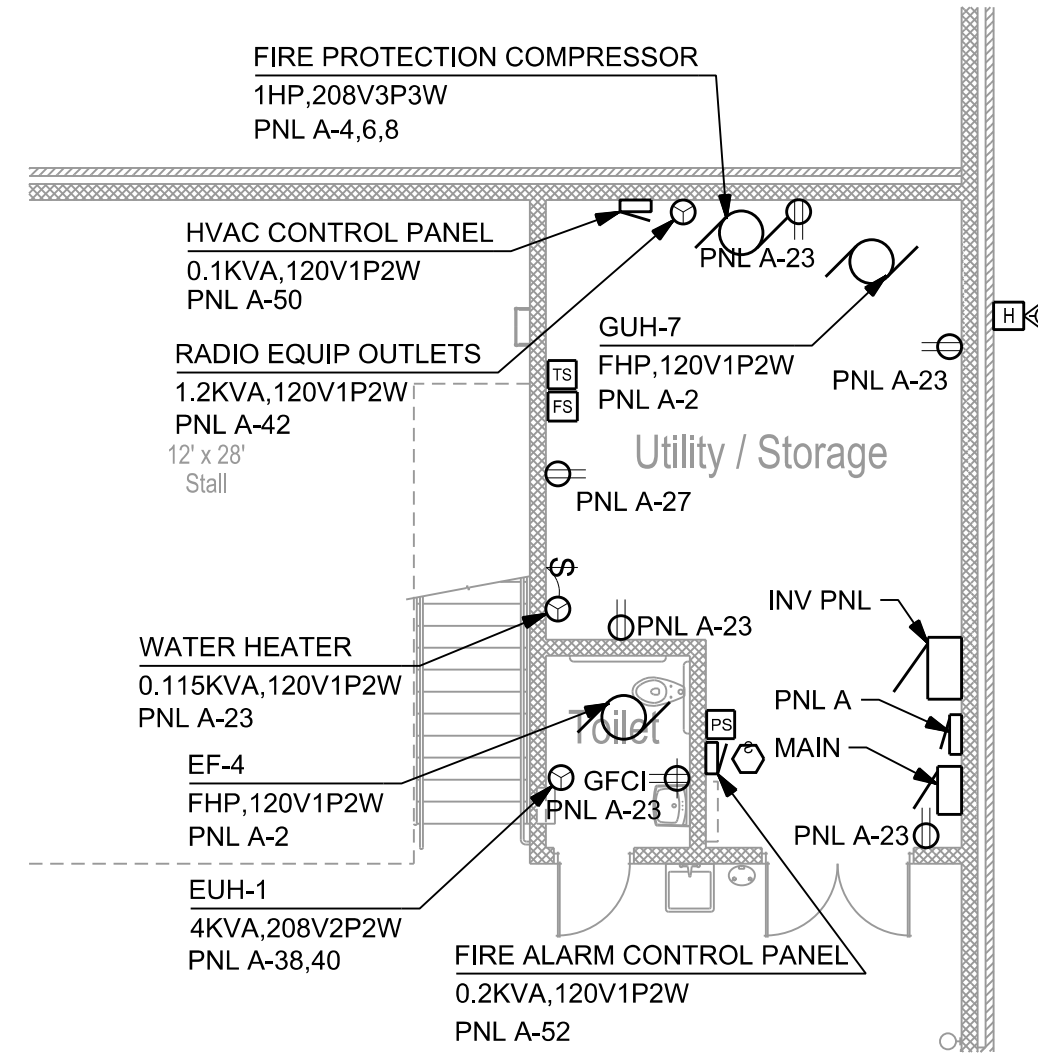
SCALE: 1/8"=1'-0"  
PLOTTED BY: D:\delso

ORIGINAL SIZE = 24" x 36"  
X:\4815\04\481504\E102.dgn

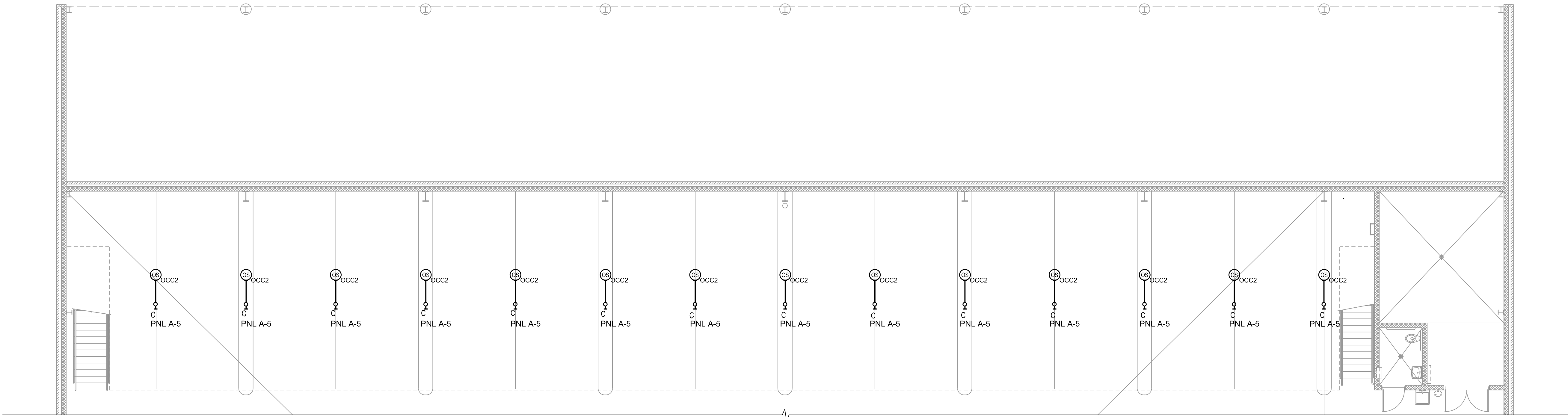
| KEY NOTES |                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| KEYNOTE   | NOTE TEXT                                                                                                                                       |
| 01        | SEE DETAIL 05/E102 FOR POWER AND SYSTEMS IN UTILITY ROOM                                                                                        |
| 02        | SEE DETAIL 13/E102 FOR LIGHTING ABOVE UTILITY ROOM                                                                                              |
| 03        | CONNECT IN PARALLEL WITH ALL OTHER TYPE 5 OCCUPANCY SENSORS TO TWO WIRE HVAC CONTROL LOOP. POWER SUPPLY FROM HVAC CONTROL PANEL CIRCUIT.        |
| 04        | INSTALL MASKING TO PROVIDE 180 DEGREE COVERAGE OF THE MEZZANINE AREA ONLY                                                                       |
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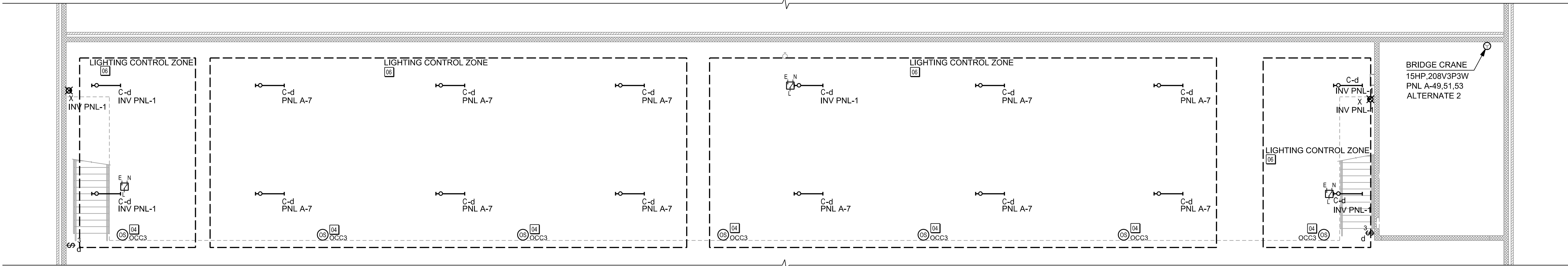
13  
E102  
PARTIAL ELECTRICAL PLAN ABOVE  
UTILITY STORAGE ROOM - BASE BID  
SCALE: 1/8"=1'-0"



05  
E102  
PARTIAL POWER AND SYSTEMS PLAN  
UTILITY STORAGE ROOM - BASE BID  
SCALE: 1/8"=1'-0"



PARTIAL ELECTRICAL PLAN  
ALTERNATE #1 BELOW MEZZANINE  
SCALE: 1/8"=1'-0"



PARTIAL ELECTRICAL PLAN  
ALTERNATES #1 & #2 ABOVE MEZZANINE  
SCALE: 1/8"=1'-0"

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|                                |                    |                    |                 |
|--------------------------------|--------------------|--------------------|-----------------|
| PROJECT NUMBER<br>48150        | APPROVED BY<br>JLH | REVIEWED BY<br>JCT | DRAWN BY<br>ATW |
| PARTIAL<br>ELECTRICAL<br>PLANS |                    |                    |                 |
| 7/19/2013 9:20:51 AM           |                    |                    |                 |

SOUTH POINT ROAD  
PUBLIC WORKS STORAGE BUILDING  
CITY OF MADISON  
MADISON, WISCONSIN

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| ISSUANCES                                  |  | REVISIONS                                        |  |
|--------------------------------------------|--|--------------------------------------------------|--|
| UDC FINAL APPROVAL SUBMITTAL - 07/17/2012  |  |                                                  |  |
| DESIGN DEVELOPMENT PACKET - 08/23/2012     |  |                                                  |  |
| 100% CONSTRUCTION DOCUMENTS 08.31.2012     |  |                                                  |  |
| Dept. of Commerce Plan Review - 08/13/2012 |  |                                                  |  |
| Bid Construction - 08/14/2013              |  |                                                  |  |
| Re-Bid Construction - 07/28/2013           |  |                                                  |  |
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SCALE: 1/8"=1'-0"  
PLOTTED BY: D:\e301

ORIGINAL SIZE = 24" x 36"  
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| RECEPTACLE SCHEDULE                        |                                                                                           |       |            |                                                            |                                                               |          |
|--------------------------------------------|-------------------------------------------------------------------------------------------|-------|------------|------------------------------------------------------------|---------------------------------------------------------------|----------|
| CALLOUT                                    | SYMBOL                                                                                    | NEMA  | VOLTS      | NOTE 1                                                     | NOTE 2                                                        | QUANTITY |
| RAISED DOUBLE DUPLEX                       |          | 5-20R | 120V 1P 2W | MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE               | TWO DUPLEX RECEPTACLES MOUNTED UNDER THE SAME FACE PLATE      | NOT USED |
| RAISED GFCI DOUBLE DUPLEX                  |  GFCI    | 5-20R | 120V 1P 2W | MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE               | TWO GFCI DUPLEX RECEPTACLES MOUNTED UNDER THE SAME FACE PLATE | 13       |
| RAISED GFCI DUPLEX                         |  GFCI    | 5-20R | 120V 1P 2W | MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE               |                                                               | 5        |
| SPECIAL RECEPTACLE - ELECTRIC WATER COOLER |  EWC     | 5-20R | 120V 1P 2W | COORDINATE MOUNTING LOCATION WITH EQUIPMENT SHOP DRAWINGS. |                                                               | NOT USED |
| STANDARD DUPLEX                            |          | 5-20R | 120V 1P 2W | MOUNT @ 16" TO CENTER UNLESS NOTED OTHERWISE               |                                                               | 5        |
| WEATHERPROOF GFCI DUPLEX                   |  WP/GFCI | 5-20R | 120V 1P 2W | MOUNT @ 24" TO CENTER UNLESS NOTED OTHERWISE               | PROVIDE WITH IN-USE WEATHER PROOF COVER                       | 2        |

CONTROL SCHEDULE

| CALLOUT               | SYMBOL                                                                                   | NOTE 1                                                                           | NOTE 2                                                                                                                                | NOTE 3                                                                     | QUANTITY |
|-----------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------|
| 1 POLE SWITCH         |         | MOUNT AT 48" TO CENTER UNLESS OTHERWISE NOTED                                    | LOWER CASE LETTER INDICATES FIXTURES CONTROLLED BY THIS SWITCH                                                                        |                                                                            | 7        |
| 3 WAY SWITCH          |  3      | MOUNT AT 48" TO CENTER UNLESS OTHERWISE NOTED                                    | LOWER CASE LETTER INDICATES FIXTURES CONTROLLED BY THIS SWITCH                                                                        |                                                                            | 3        |
| EMERGENCY SHUNT RELAY |  E N T  | UL 924 RELAY MOUNTED ON FIXTURE OR JUNCTION BOX NEAR FIXTURE(S) TO BE CONTROLLED | CONNECT DESIGNATED FIXTURE(S) THROUGH EMERGENCY RELAY TO SWITCH TO UNSWITCHED INVERTER SOURE UPON FAILURE OF UNSWITCHED NORMAL SOURCE | WATTSTOPPER ELCU-200                                                       | 7        |
| OCC 1                 |  OCC1   | OCCUPANCY SENSOR - LINE VOLTAGE HIGH BAY FIXTURE MOUNT, LOW TEMP                 | PHOTO SENSOR FOR DAYLIGHTING CONTROL                                                                                                  | SENSORSWITCH CMRB 6 P LT WITH EXTENSION TO BE LEVEL WITH BOTTOM OF FIXTURE | 31       |
| OCC 2                 |  OCC2   | OCCUPANCY SENSOR - LINE VOLTAGE FIXTURE MOUNT, LOW TEMP                          | SENSORSWITCH CMRB 9 LT WITH EXTENSION TO BE LEVEL WITH BOTTOM OF FIXTURE                                                              |                                                                            | 14       |
| OCC 3                 |  OCC3 | OCCUPANCY SENSOR - LINE VOLTAGEEXTENDED RANGE CEILING, LOW TEMPERATURE           | PHOTO SENSOR FOR DAYLIGHTING CONTROL                                                                                                  | SENSORSWITCH CMR 10 P LT                                                   | 10       |
| OCC 5                 |  OCC5 | OCCUPANCY SENSOR - EXTENDED RANGE CEILING                                        | USE FOR HVAC CONTROL ONLY                                                                                                             | WATTSTOPPER CI-200                                                         | 5        |

FIRE ALARM DEVICE SCHEDULE

| CALLOUT              | SYMBOL                                                                              | NOTE 1                                                    | QUANTITY |
|----------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|
| Audio / Visual Alarm |  | NUMBER INDICATES CANDELA RATING                           | 1        |
| Manual Alarm Station |  | LOCATE ADJACENT TO FIRE ALARM PANEL                       | 1        |
| Post Indicator Valve |  | PROVIDE CONTROL MODULE TO INTERFACE WITH FIRE ALARM PANEL | 1        |
| Smoke Detector       |  | LOCATE WITHIN 5' OF FIRE ALARM PANEL                      | 1        |
| Water Flow Switch    |  | PROVIDE CONTROL MODULE TO INTERFACE WITH FIRE ALARM PANEL | 1        |

LUMINAIRE SCHEDULE

| CALLOUT | SYMBOL                                                                                | DESCRIPTION                | MODEL                                  | LAMP                                  | BALLAST                          | MOUNTING     | INPUT WATTS | VOLTS      | NOTE 1                                                                       | NOTE 2                                                                       | QUANTITY |
|---------|---------------------------------------------------------------------------------------|----------------------------|----------------------------------------|---------------------------------------|----------------------------------|--------------|-------------|------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------|
| A       |  | 2 LAMP INDUSTRIAL HIGH BAY | LITHONIA FHI4 2 54T5HO S1X20 MVOLT     | (2) 54W GE STARCOAT F54W/T5/840       | GE ULTRASTART BALLAST FACTOR 1.0 | CEILING      | 121         | 120V 1P 2W | PROVIDE WITH CORD AND PLUG CONNECTION                                        | SEE LIGHTING CONTROL SCHEDULE FOR CONTRACTOR INSTALLED SENSORS AND/OR RELAYS | 31       |
| B       |  | FLUORESCENT STRIP          | LITHONIA SB 2 32 MVOLTGEB1015          | (2) 32W GE STARCOAT F32T8/XL/SPX41/HL | GE ULTRASTART BALLAST FACTOR 1.0 | CEILING      | 59          | 120V 1P 2W |                                                                              |                                                                              | 1        |
| C       |  | SURFACE WRAP AROUND        | LITHONIA Z 2 32 MVOLTGEB1015 SMR SSR   | (2) 32W GE STARCOAT F32T8/XL/SPX41/HL | GE ULTRASTART BALLAST FACTOR 1.0 | CEILING      | 59          | 120V 1P 2W | SEE LIGHTING CONTROL SCHEDULE FOR CONTRACTOR INSTALLED SENSORS AND/OR RELAYS |                                                                              | 38       |
| OA      |  | EXTERIOR WALL MOUNT        | CREE/BETA SEC-EDG-4MB-WM-02-D-UL-BZ-ML | (1) 44W LED                           | ELECTRONIC                       | WALL         | 44          | 120V 1P 2W |                                                                              |                                                                              | 5        |
| OB      |  | EXTERIOR CEILING           | CREE/BETA CAN-EDG-5M-DM-02-ML          | (20) 2W LED                           | ELECTRONIC                       | CEILING      | 44          | 120V 1P 2W |                                                                              |                                                                              | 4        |
| X       |  | UNIVERSAL MOUNT EXIT LIGHT | LITHONIA LQM                           | (1) 2W LED                            | ELECTRONIC                       | WALL/CEILING | 2           | 120V 1P 2W |                                                                              |                                                                              | 4        |

GENERAL EQUIPMENT SCHEDULE

| CALLOUT                    | SYMBOL                                                                              | VOLTS      | AMPS  | KVA   | HP    | CIRCUIT        | NOTE 1                                                                                                                      | NOTE 2                               |
|----------------------------|-------------------------------------------------------------------------------------|------------|-------|-------|-------|----------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1 PH OUTLET                |  | 208V 2P 2W | 31.25 | 6.5   |       | PNL A-34,36    | COORDINATE OUTLET CONFIGURATION AND LOCATION WITH OWNER REP                                                                 |                                      |
| 3 PH OUTLET                |  | 208V 3P 3W | 38.86 | 14    |       | PNL A-31,33,35 | COORDINATE OUTLET CONFIGURATION AND LOCATION WITH OWNER REP                                                                 |                                      |
| BRIDGE CRANE               |  | 208V 3P 3W | 48.46 | 17.46 | 15 HP | PNL A-49,51,53 | INCLUDE IN ALTERNATE BID 2                                                                                                  |                                      |
| FIRE ALARM CONTROL PANEL   |  | 120V 1P 2W | 2.08  | 0.2   |       | PNL A-52       | PROVIDE HANDLE LOCK ON CIRCUIT BREAKER FEEDING PANEL                                                                        |                                      |
| FIRE PROTECTION COMPRESSOR |  | 208V 3P 3W | 6.06  | 1.75  | 1 HP  | PNL A-4,6,8    | PROVIDE FUSED DISCONNECT AT UNIT                                                                                            |                                      |
| OHD 1                      |  | 208V 3P 3W | 6.06  | 1.75  | 1 HP  | PNL A-28,30,32 | EC TO PROVIDE AND INSTALL PVC LOOP IN SLAB FOR VEHICLE DETECTOR AND INSTALL ALL CONTROL DEVICES PROVIDED BY DOOR INSTALLER. | PROVIDE NON-FUSED DISCONNECT AT UNIT |
| OHD 2                      |  | 208V 3P 3W | 6.06  | 1.75  | 1 HP  | PNL A-28,30,32 | EC TO PROVIDE AND INSTALL PVC LOOP IN SLAB FOR VEHICLE DETECTOR AND INSTALL ALL CONTROL DEVICES PROVIDED BY DOOR INSTALLER. | PROVIDE NON-FUSED DISCONNECT AT UNIT |
| RADIO EQUIP OUTLETS        |  | 120V 1P 2W | 10    | 1.2   |       | PNL A-42       | PROVIDE DOUBLE DUPLEX RECEPTACLES                                                                                           | COORDINATE LOCATION WITH OWNER REP   |
| WATER HEATER               |  | 120V 1P 2W | 1.2   | 0.12  |       | PNL A-23       | PROVIDE SWITCH AT UNIT                                                                                                      |                                      |

HVAC EQUIPMENT SCHEDULE

| CALLOUT            | SYMBOL                                                                                | VOLTS      | CALCULATED AMPS | KVA   | HP     | CIRCUIT        | NOTE 1                                                                                                      | NOTE 2                                                                |
|--------------------|---------------------------------------------------------------------------------------|------------|-----------------|-------|--------|----------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| EF-1               |    | 208V 3P 3W | 6.06            | 1.75  | 1 HP   | PNL A-10,12,14 | PROVIDE LOCKABLE COMBINATION STARTER ADJACENT TO HVAC CONTROL PANEL                                         |                                                                       |
| EF-2               |    | 208V 3P 3W | 6.06            | 1.75  | 1 HP   | PNL A-16,18,20 | PROVIDE LOCKABLE COMBINATION STARTER ADJACENT TO HVAC CONTROL PANEL                                         |                                                                       |
| EF-3               |    | 120V 1P 2W | 7.25            | 0.7   | 1/4 HP | PNL A-2        | PROVIDE MANUAL STARTER AT UNIT                                                                              |                                                                       |
| EF-4               |    | 120V 1P 2W | 1.04            | 0.1   | F HP   | PNL A-2        | PROVIDE SWITCH AT UNIT                                                                                      | FAN TO OPERATE WITH OCCUPANCY SENSOR CONTROLLING LIGHT IN TOILET ROOM |
| EUH-1              |    | 208V 2P 2W | 19.23           | 4     |        | PNL A-38,40    | PROVIDE TWO POLE DISCONNECT IN UNIT                                                                         |                                                                       |
| GUH-1              |    | 208V 3P 3W | 2.99            | 0.86  | 1/3 HP | PNL A-22,24,26 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-2              |    | 208V 3P 3W | 2.99            | 0.86  | 1/3 HP | PNL A-16,18,20 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-3              |  | 208V 3P 3W | 2.99            | 0.86  | 1/3 HP | PNL A-10,12,14 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-4              |  | 208V 3P 3W | 1.83            | 0.53  | 1/6 HP | PNL A-37,39,41 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-5              |  | 208V 3P 3W | 1.83            | 0.53  | 1/6 HP |                | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-6              |  | 208V 3P 3W | 1.83            | 0.53  | 1/6 HP |                | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| GUH-7              |  | 120V 1P 2W | 1.04            | 0.1   | F HP   | PNL A-2        | PROVIDE MANUAL MOTOR STARTER ADJACENT TO UNIT                                                               |                                                                       |
| HVAC CONTROL PANEL |  | 120V 1P 2W | 0.83            | 0.1   |        | PNL A-50       | PROVIDE TWO #14 CONDUCTORS ROUTED IN CONDUIT TO INDICATED OCCUPANCY SENSOR AUX RELAYS FOR HVAC CONTROL LOOP |                                                                       |
| MAU-1              |  | 208V 3P 3W | 60.58           | 17.46 | 15 HP  | PNL A-43,45,47 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |
| MAU-2              |  | 208V 3P 3W | 4.62            | 1.33  | 3/4 HP | PNL A-22,24,26 | PROVIDE NON-FUSED DISCONNECT AT UNIT                                                                        |                                                                       |

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| ISSUANCES                                  |  | REVISIONS |  |
|--------------------------------------------|--|-----------|--|
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| DESIGN DEVELOPMENT PACKET - 08/23/2012     |  |           |  |
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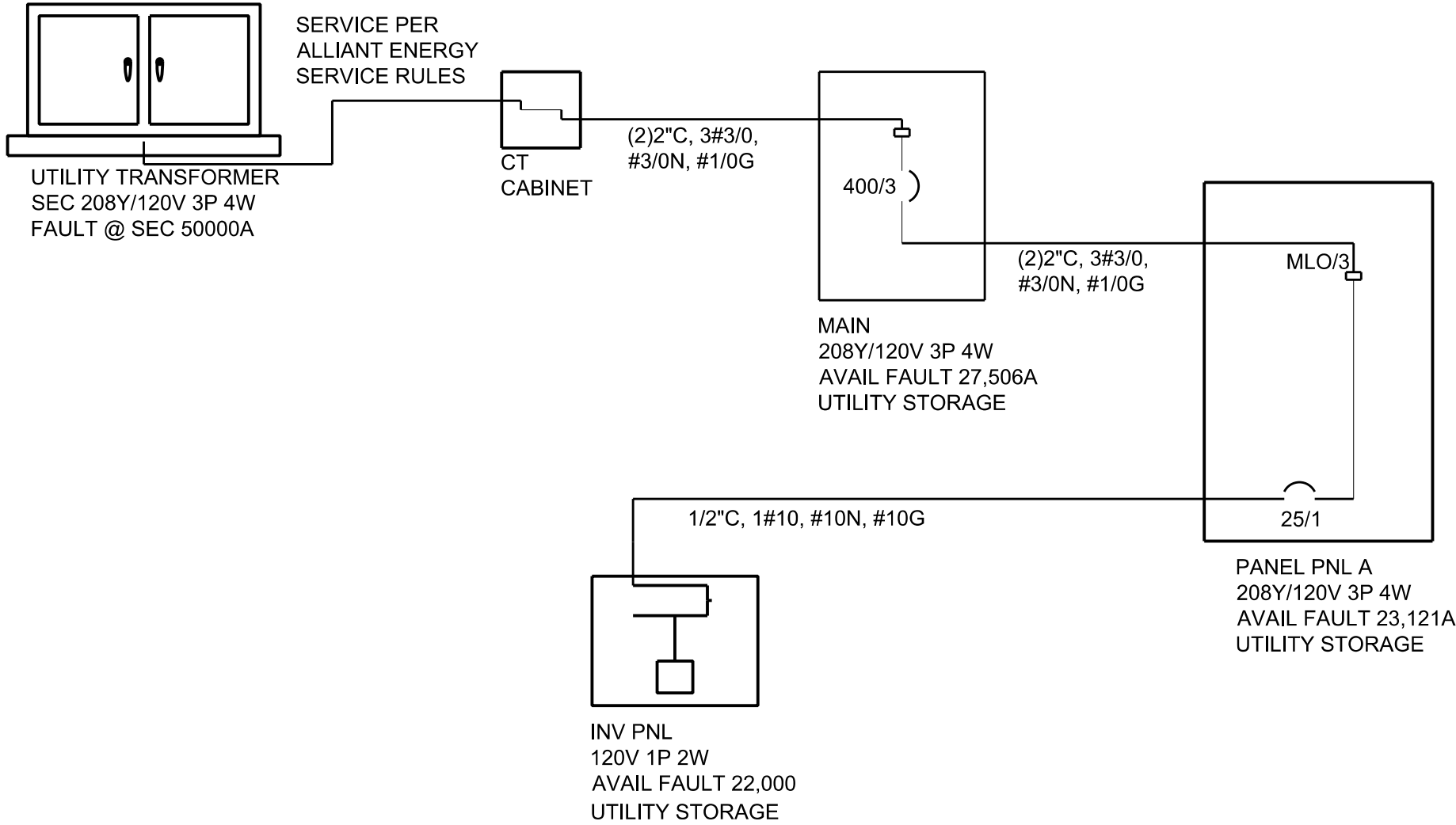
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PUBLIC WORKS STORAGE BUILDING  
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|                         |                    |                    |                 |
|-------------------------|--------------------|--------------------|-----------------|
| PROJECT NUMBER<br>48150 | APPROVED BY<br>JLH | REVIEWED BY<br>JCT | DRAWN BY<br>ATW |
| ELECTRICAL SCHEDULES    |                    |                    |                 |

E301





| PNL A                         |         |                          |                       |           |          |                 |         |                               |           |           |        |
|-------------------------------|---------|--------------------------|-----------------------|-----------|----------|-----------------|---------|-------------------------------|-----------|-----------|--------|
| ROOM UTILITY STORAGE          |         |                          | VOLTS 208Y/120V 3P 4W |           |          | AIC 22,000      |         |                               |           |           |        |
| MOUNTING SURFACE              |         |                          | BUS AMPS 400          |           |          | MAIN BKR MLO    |         |                               |           |           |        |
| FED FROM MAIN                 |         |                          | NEUTRAL 100%          |           |          | LUGS STANDARD   |         |                               |           |           |        |
| NOTE                          |         |                          |                       |           |          |                 |         |                               |           |           |        |
| CKT #                         | CKT BKR | CIRCUIT DESCRIPTION      | KVA LOAD              |           |          | CKT #           | CKT BKR | CIRCUIT DESCRIPTION           | KVA LOAD  |           |        |
|                               |         |                          | A                     | B         | C        |                 |         |                               | A         | B         | C      |
| 1                             | 20/1    | LIGHTING                 | 1.57                  |           |          | 2               | 20/1    | LIGHTING, EF-4, GUH-7, EF-3   | 0.955     |           |        |
| 3                             | 20/1    | LIGHTING                 |                       | 1.69      |          | 4               | 15/3    | FIRE PROTECTION COMPRESSOR    |           | 0.582     |        |
| 5                             | 20/1    | LIGHTING                 |                       |           | 1.3      | 6               |         |                               |           |           | 0.582  |
| 7                             | 20/1    | LIGHTING                 | 0.649                 |           |          | 8               |         |                               | 0.582     |           |        |
| 9                             | 20/1    | LIGHTING                 |                       | 0.308     |          | 10              | 20/3    | GUH-3, EF-1                   |           | 0.869     |        |
| 11                            | 20/1    | SPARE                    |                       |           | 0        | 12              |         |                               |           | 0.869     | 0.869  |
| 13                            | 20/1    | RECEPTACLE               | 1.08                  |           |          | 14              |         |                               | 0.869     |           |        |
| 15                            | 20/1    | RECEPTACLE               |                       | 1.08      |          | 16              | 20/3    | EF-2, GUH-2                   |           | 0.869     |        |
| 17                            | 20/1    | RECEPTACLE               |                       |           | 0.54     | 18              |         |                               |           |           | 0.869  |
| 19                            | 20/1    | RECEPTACLE               | 1.08                  |           |          | 20              |         |                               | 0.869     |           |        |
| 21                            | 20/1    | RECEPTACLE               |                       | 1.08      |          | 22              | 20/3    | MAU-2, GUH-1                  |           | 0.731     |        |
| 23                            | 20/1    | RECEPTACLE, WATER HEATER |                       |           | 1.2      | 24              |         |                               |           | 0.731     | 0.731  |
| 25                            | 20/1    | RECEPTACLE               | 0.72                  |           |          | 26              |         |                               | 0.731     |           |        |
| 27                            | 20/1    | RECEPTACLE               |                       | 0.18      |          | 28              | 20/3    | OHD 2, OHD 1                  |           | 1.16      |        |
| 29                            | 20/1    | SPARE                    |                       |           | 0        | 30              |         |                               |           | 1.16      | 1.16   |
| 31                            | 50/3    | 3 PH OUTLET              | 4.67                  |           |          | 32              |         |                               | 1.16      |           |        |
| 33                            |         |                          |                       | 4.67      |          | 34              | 40/2    | 1 PH OUTLET                   |           | 3.25      |        |
| 35                            |         |                          |                       |           | 4.67     | 36              |         |                               |           | 3.25      | 3.25   |
| 37                            | 20/3    | GUH-4                    | 0.176                 |           |          | 38              | 30/2    | EUH-1                         | 2         |           |        |
| 39                            |         |                          |                       | 0.176     |          | 40              |         |                               | 2         |           |        |
| 41                            |         |                          |                       |           | 0.176    | 42              | 20/1    | RADIO EQUIP OUTLETS           |           |           | 1.2    |
| 43                            | 70/3    | MAU-1                    | 5.82                  |           |          | 44              | 20/1    | SPARE                         | 0         |           |        |
| 45                            |         |                          |                       | 5.82      |          | 46              | 20/1    | SPARE                         |           | 0         |        |
| 47                            |         |                          |                       |           | 5.82     | 48              | 20/1    | SPARE                         |           |           | 0      |
| 49                            | 60/3    | BRIDGE CRANE             | 5.82                  |           |          | 50              | 20/1    | HVAC CONTROL PANEL            | 0.1       |           |        |
| 51                            |         |                          |                       | 5.82      |          | 52              | 20/1    | FIRE ALARM CONTROL PANEL      |           | 0.2       |        |
| 53                            |         |                          |                       |           | 5.82     | 54              | 25/1    | LIGHTING INVERTER             |           |           | 0.875  |
|                               |         |                          |                       |           |          |                 |         | TOTAL CONNECTED KVA BY PHASE  | 28.9      | 30.5      | 29.1   |
|                               |         |                          |                       |           |          |                 |         | TOTAL CONNECTED AMPS BY PHASE | 240       | 254       | 242    |
|                               |         |                          |                       |           |          |                 |         |                               |           |           |        |
|                               |         |                          | CONN. KVA             | CALC. KVA |          |                 |         |                               | CONN. KVA | CALC. KVA |        |
| LIGHTING                      |         |                          | 6.46                  | 8.07      | (125%)   | CONTINUOUS      |         |                               | 0.315     | 0.394     | (125%) |
| LARGEST MOTOR                 |         |                          | 17.5                  | 21.8      | (125%)   | HEATING         |         |                               | 4         | 4         | (100%) |
| OTHER MOTORS                  |         |                          | 14.1                  | 14.1      | (100%)   | NONCONTINUOUS   |         |                               | 0.1       | 0.1       | (100%) |
| RECEPTACLES                   |         |                          | 8.04                  | 8.04      | (50%>10) | KITCHEN EQUIP   |         |                               | 0         | 0         | (N/A)  |
|                               |         |                          |                       |           |          | NONCOIN/DIVERSE |         |                               | 38        | 38        | (100%) |
|                               |         |                          |                       |           |          | TOTAL KVA       |         |                               | 88.4      | 94.5      |        |
| BALANCED THREE PHASE AMPS 262 |         |                          |                       |           |          |                 |         |                               |           |           |        |

| INV PNL                      |                     |  |           |                  |          |                               |  |               |           |           |        |
|------------------------------|---------------------|--|-----------|------------------|----------|-------------------------------|--|---------------|-----------|-----------|--------|
| ROOM UTILITY STORAGE         |                     |  |           | VOLTS 120V 1P 2W |          |                               |  | AIC 22,000    |           |           |        |
| MOUNTING SURFACE             |                     |  |           | BUS AMPS         |          |                               |  | MAIN BKR MLO  |           |           |        |
| FED FROM PNL A               |                     |  |           | NEUTRAL 100%     |          |                               |  | LUGS STANDARD |           |           |        |
| NOTE                         |                     |  |           |                  |          |                               |  |               |           |           |        |
| CKT #                        | CIRCUIT DESCRIPTION |  | KVA LOAD  | BREAKER          | COND.    | FEEDER RACEWAY AND CONDUCTORS |  |               |           |           |        |
|                              |                     |  | A         | TRIP/POLES       |          |                               |  |               |           |           |        |
| 1                            | LIGHTING            |  | 0.875     | 20/1             | CU       | 1/2"C, 1#12, #12N, #12G       |  |               |           |           |        |
|                              |                     |  |           |                  |          |                               |  |               |           |           |        |
| TOTAL CONNECTED KVA BY PHASE |                     |  | 0.875     |                  |          |                               |  |               |           |           |        |
|                              |                     |  |           |                  |          |                               |  |               |           |           |        |
|                              |                     |  | CONN. KVA | CALC. KVA        |          |                               |  |               | CONN. KVA | CALC. KVA |        |
| LIGHTING                     |                     |  | 0.875     | 1.09             | (125%)   | CONTINUOUS                    |  |               | 0         | 0         | (125%) |
| LARGEST MOTOR                |                     |  | 0         | 0                | (125%)   | HEATING                       |  |               | 0         | 0         | (100%) |
| OTHER MOTORS                 |                     |  | 0         | 0                | (100%)   | NONCONTINUOUS                 |  |               | 0         | 0         | (100%) |
| RECEPTACLES                  |                     |  | 0         | 0                | (50%>10) | KITCHEN EQUIP                 |  |               | 0         | 0         | (N/A)  |
|                              |                     |  |           |                  |          | NONCOIN/DIVERSE               |  |               | 0         | 0         | (N/A)  |
|                              |                     |  |           |                  |          | TOTAL KVA                     |  |               | 0.875     | 1.09      |        |
|                              |                     |  |           |                  |          | PHASE AMPS                    |  |               | 9.11      |           |        |